

Burnett Oil Co., Inc.

Jackson A 31 H

REMEDIATION WORK PLAN

API No. 30-015-34000

Release Date: 10/22/2014

Unit Letter B, Section 24, Township 17 South, Range 30 East

November 17, 2014

Prepared by:

Environmental Department
Diversified Field Service, Inc.
3412 N. Dal Paso
Hobbs, NM 88240
Phone: (575)964-8394
Fax: (575)393-8396

Mike Bratcher
Environmental Specialist
NM Oil Conservation District – Division 2
811 S. First St.
Artesia, NM 88210

RE: Burnett Oil Co., Inc. – Jackson A 31H Remediation Plan
UL/B, Section 24, T17S, R30E
API No. 30-015-34000

Mr. Bratcher,

Burnett Oil Co., has retained Diversified Field Service, Inc. (DFSI) to address environmental issues for the site detailed herein.

The site is located Loco-hills NM, in Eddy County. The leak site resulted from a hydrocarbon and produced water leak. The source of the leak was due to a flowline at the wellhead that became plugged and ruptured. Total impacted area is 12,317 square feet. A C-141 was submitted to the NMOCD and the BLM on October 23, 2014. (2RP-2563).

Site Assessment and Delineation

On October 28th, 2014 DFSI personnel obtained surface and delineation samples of the leak area, which included SP1-SP6. All of the first round of field sampling cleaned up below the required levels, except for SP5 which showed the GRO returned with 676 mg/kg. Then on October 29th, 2014 DFSI continued surface and delineation sampling on SP7-SP12. The field sampling indicated that all samples were below the required levels. The lab confirmation showed that SP7-SP11 returned with levels below the regulated concentrations for this site. The lab confirmation for SP12 at surface showed that chloride levels were at 16 mg/kg, BTEX returned at <0.300 but the TPH sample returned with levels above the allowed concentrations at 54.3 mg/kg GRO C6-C10 and 2950 DRO >C10-C28.

Field samples were taken on twelve sample points, each sample was tested for chlorides levels as well as TPH. The field samples were performed using a Mini Rae Photoionization Detector (PID) and with the chloride titration method. All clean field samples found under the BLM/NMOCD standards with the exception of SP5 and SP12,

all were taken to Cardinal Lab of Hobbs to obtain confirmation. The results confirmed that bottom samples of each sample point were as follows:

SP1: 1' – 32 mg/kg Cl, <0.300 mg/kg BTEX and <10 mg/kg TPH 8015M
SP2: 1' - <16 mg/kg Cl, <0.300 mg/kg BTEX and <10 mg/kg DRO/138 mg/kg GRO
SP3: 6' – 304 mg/kg Cl, <0.300 mg/kg BTEX and <10 mg/kg TPH 8015M
SP4: 3' – 208 mg/kg Cl, <0.300 mg/kg BTEX and <10 mg/kg DRO/57.8 mg/kg GRO
SP5: 1' – 64 mg/kg Cl, <0.300 mg/kg BTEX and 12 mg/kg DRO/**676 mg/kg GRO**
SP6: 1' – 32 mg/kg Cl, <0.300 mg/kg BTEX and <10 mg/kg TPH 8015M
SP7: 4' – 32 mg/kg Cl, <0.300 mg/kg BTEX and <10 mg/kg TPH 8015M
SP8: 2' - <16 mg/kg Cl, <0.300 mg/kg BTEX and <10 mg/kg TPH 8015M
SP9: 2' – 256 mg/kg Cl, <0.300 mg/kg BTEX and <10 mg/kg TPH 8015M
SP10: 2' – 64 mg/kg Cl, <0.300 mg/kg BTEX and <10 mg/kg TPH 8015M
SP11: 1' – 32 mg/kg Cl, <0.300 mg/kg BTEX and <10 mg/kg DRO/35.5 mg/kg GRO
SP12: Surf – 16 mg/kg Cl, <0.300 mg/kg BTEX and 54.3 mg/kg DRO/**2950 mg/kg GRO**

DFSI has conducted a groundwater study of the area and has determined that according to the New Mexico Office of the State Engineer the average depth to groundwater for this area is 300 foot below ground surface. Therefore, no eminent danger of groundwater impact or threat to life is anticipated.

Conclusion

After careful review DFSI on behalf of Burnett Oil Co., Inc., would like to propose the following:

Excavate the area of SP1 - SP2, SP6 and SP11 to 1'bgs. Excavate the area of SP8 - SP10 to 2'bgs. SP4 will be excavated to 3'bgs, excavate SP7 to 4'bgs and SP3 to 4'bgs with the install of a 20 mil polyurethane liner in the area of SP3. The area concerning SP5 and SP12 that returned with TPH levels above the allowable concentrations, this area will be further delineated and confirmed with Cardinal Labs. At this time we would like to suggest that the SP5 and SP12 area be excavated to 4'bgs and install a 20 mil polyurethane liner. All of the contaminated soil will be hauled to an approved NMOCD/BLM disposal facility. Once approved and agreed upon the area on the pad will be backfilled with imported caliche, the pasture area will be backfilled with imported topsoil, contoured and reseeded to meet BLM recommendations for re-vegetation.

Side wall samples will be taking during the excavation procedure to ensure that all contaminants have been remediated. These samples will also be taken to an approved lab for confirmation before backfilling will take place.

Following the approval of the above plan and after the remediation has taken place, DFSI will submit all proper closure documentation to the NMOCD and BLM in accordance to the State and Federal Guidelines set forth.

Please feel free to contact me with any questions concerning this remediation plan request.

Sincerely,



Natalie Gladden
Environmental Director
Diversified Field Service, Inc.
206 West Snyder
Hobbs, NM 88240
Office: (575)964-8394
Mobile: (575)602-1786
Fax: (575)964-8396
Email: ngladden@diversifiedfsi.com

cc Jeff Robertson
NM Bureau of Land Management

Attachments: Initial Form C-141
Photo Page
Site/Sample Map
Sample Data
Lab Analytical 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

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

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.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Burnett Oil Co., Inc.	Contact Leslie Garvis	
Address 801 Cherry Street-Suite 1500, Ft. Worth, TX 76102	Telephone No. 817-583-8730	
Facility Name: Jackson A 31 H	Facility Type: Well	
Surface Owner: BLM	Mineral Owner BLM	API No. 30-015-34000

LOCATION OF RELEASE

Unit Letter B	Section 24	Township 17S	Range 30E	Feet from the 1220	North/South Line FNL	Feet from the 2310	East/West Line FEL	County Eddy
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Latitude: _____ Longitude: _____

NATURE OF RELEASE

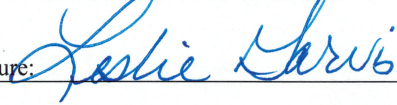
Type of Release: Crude Oil & Produced Water	Volume of Release: 15/40	Volume Recovered: 0/0
Source of Release: Well head	Date and Hour of Occurrence: 10/22/14	Date and Hour of Discovery: 10/22/14
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? BLM – Jeff Robertson	
By Whom? Eddie Duran	Date and Hour: 10/22/14	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Flow line at the well head became plugged and ruptured.

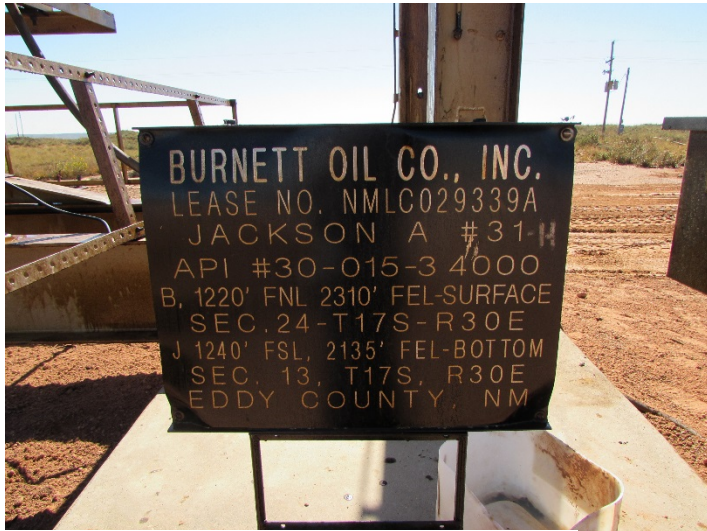
Describe Area Affected and Cleanup Action Taken.*
Spill was on pad and ran into pasture area, no product was recovered. Area will be delineated and remediated according to NM regulations.
Approx. 150'x10' in pasture & pooled in 20'x30' area, small area on pad.

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

Signature: 		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Leslie M. Garvis		Approved by Environmental Specialist:	
Title: Regulatory Coordinator	Approval Date:	Expiration Date:	
E-mail Address: lgarvis@burnettoil.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 10/23/14	Phone: 817-583-8730		

* Attach Additional Sheets If Necessary

Burnett Oil Co., Inc. Jackson A #31 H
Section 24, T17S R30E



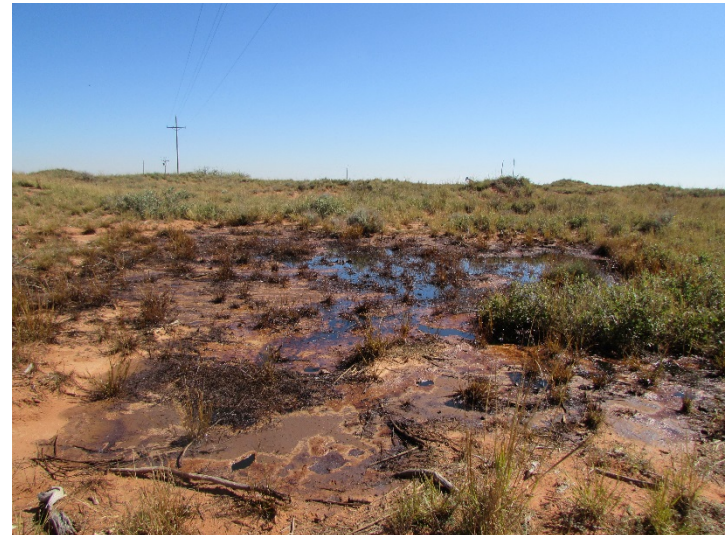
Sign Location Marker 10/23/14



Pad impact-fluid traversing to pasture 10/23/14



Pasture impact 10/23/14



Pasture impact 10/23/14

Site Diagram

Burnett, Jackson A 31 H
UL/B, Sec. 24 T17S R30E
Eddy County, NM
Drafted By: Lance Crenshaw, 10-24-14

0 0.005 0.01 0.02 Miles

Legend

Misc_points

Types

- Electrical Box
- Power Pole
- Headers
- Injection
- Pumpjacks
- Tanks
- Valves
- Other
- sample_pts
- Source

Pipeline

Type

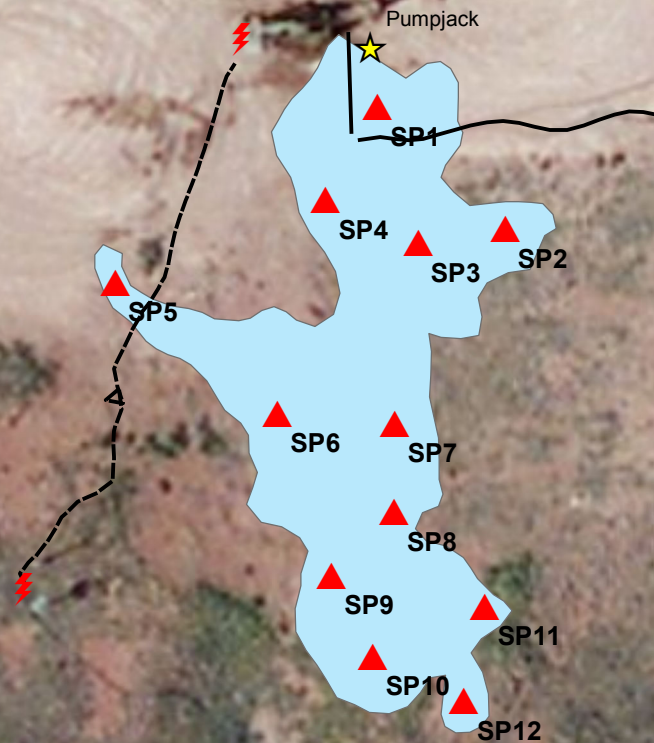
- Above Ground Line
- Buried Line

Spill

- <all other values>

Spill_Media

- Oil and Produced H2O
- Oil
- Other
- Produced Water



Spill Area:
12,317 sq. ft.

Lance Crenshaw
 GIS Technician

Soil Remediation and Ground Water Remediation
 Environmental Assessments
 Regulatory Compliance



Environmental

DFS

Services

Office: 575-964-8394

Fax: 575-964-8396

Cell: 575-441-2359

Email: lcrenshaw@diversifiedfsi.com

Source: Esri, DigitalGlobe, GeoEye, AeroGRID, IGN, and the GIS User Community

Rel Date: _____

**BTEX cannot be field tested

Page 1

[illegible]

**BTEX cannot be field tested

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples

[illegible]

**BTEX cannot be field tested

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples

[illegible]

**BTEX cannot be field tested

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples

October 30, 2014

MIKE BURTON

Burnett Oil Co., Inc

801 Cherry St. - Suite 1500

Fort Worth, TX 76102-6881

RE: JACKSON A #31 H

Enclosed are the results of analyses for samples received by the laboratory on 10/29/14 16:20.

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,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Burnett Oil Co., Inc
MIKE BURTON
801 Cherry St. - Suite 1500
Fort Worth TX, 76102-6881
Fax To: None

Received: 10/29/2014
Reported: 10/30/2014
Project Name: JACKSON A #31 H
Project Number: 16910
Project Location: NOT GIVEN

Sampling Date: 10/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 1 @ 1' (H403338-01)

BTEX 8021B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/29/2014	ND	1.98	98.8	2.00	5.30		
Toluene*	<0.050	0.050	10/29/2014	ND	1.87	93.3	2.00	5.20		
Ethylbenzene*	<0.050	0.050	10/29/2014	ND	1.77	88.3	2.00	4.09		
Total Xylenes*	<0.150	0.150	10/29/2014	ND	5.22	87.0	6.00	4.03		
Total BTEX	<0.300	0.300	10/29/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	32.0	16.0	10/30/2014	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/29/2014	ND	177	88.6	200	0.683	
DRO >C10-C28	<10.0	10.0	10/29/2014	ND	184	92.1	200	2.71	

Surrogate: 1-Chlorooctane 103 % 47.2-157

Surrogate: 1-Chlorooctadecane 135 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Burnett Oil Co., Inc
MIKE BURTON
801 Cherry St. - Suite 1500
Fort Worth TX, 76102-6881
Fax To: None

Received: 10/29/2014
Reported: 10/30/2014
Project Name: JACKSON A #31 H
Project Number: 16910
Project Location: NOT GIVEN

Sampling Date: 10/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 2 @ SURFACE (H403338-02)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.200	0.200	10/29/2014	ND	1.98	98.8	2.00	5.30		
Toluene*	<0.200	0.200	10/29/2014	ND	1.87	93.3	2.00	5.20		
Ethylbenzene*	<0.200	0.200	10/29/2014	ND	1.77	88.3	2.00	4.09		
Total Xylenes*	<0.600	0.600	10/29/2014	ND	5.22	87.0	6.00	4.03		
Total BTX	<1.20	1.20	10/29/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/30/2014	ND	416	104	400	0.00	

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	<100	100	10/29/2014	ND	177	88.6	200	0.683	
DRO >C10-C28	6200	100	10/29/2014	ND	184	92.1	200	2.71	

Surrogate: 1-Chlorooctane 98.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 297 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Burnett Oil Co., Inc
MIKE BURTON
801 Cherry St. - Suite 1500
Fort Worth TX, 76102-6881
Fax To: None

Received: 10/29/2014
Reported: 10/30/2014
Project Name: JACKSON A #31 H
Project Number: 16910
Project Location: NOT GIVEN

Sampling Date: 10/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 2 @ 1' (H403338-03)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/29/2014	ND	1.98	98.8	2.00	5.30	
Toluene*	<0.050	0.050	10/29/2014	ND	1.87	93.3	2.00	5.20	
Ethylbenzene*	<0.050	0.050	10/29/2014	ND	1.77	88.3	2.00	4.09	
Total Xylenes*	<0.150	0.150	10/29/2014	ND	5.22	87.0	6.00	4.03	
Total BTX	<0.300	0.300	10/29/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/30/2014	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/29/2014	ND	177	88.6	200	0.683	
DRO >C10-C28	138	10.0	10/29/2014	ND	184	92.1	200	2.71	

Surrogate: 1-Chlorooctane 106 % 47.2-157

Surrogate: 1-Chlorooctadecane 144 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Burnett Oil Co., Inc
MIKE BURTON
801 Cherry St. - Suite 1500
Fort Worth TX, 76102-6881
Fax To: None

Received: 10/29/2014
Reported: 10/30/2014
Project Name: JACKSON A #31 H
Project Number: 16910
Project Location: NOT GIVEN

Sampling Date: 10/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 3 @ 6' (H403338-04)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/29/2014	ND	1.98	98.8	2.00	5.30	
Toluene*	<0.050	0.050	10/29/2014	ND	1.87	93.3	2.00	5.20	
Ethylbenzene*	<0.050	0.050	10/29/2014	ND	1.77	88.3	2.00	4.09	
Total Xylenes*	<0.150	0.150	10/29/2014	ND	5.22	87.0	6.00	4.03	
Total BTX	<0.300	0.300	10/29/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	10/30/2014	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/29/2014	ND	177	88.6	200	0.683	
DRO >C10-C28	<10.0	10.0	10/29/2014	ND	184	92.1	200	2.71	

Surrogate: 1-Chlorooctane 102 % 47.2-157

Surrogate: 1-Chlorooctadecane 117 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Burnett Oil Co., Inc
MIKE BURTON
801 Cherry St. - Suite 1500
Fort Worth TX, 76102-6881
Fax To: None

Received: 10/29/2014
Reported: 10/30/2014
Project Name: JACKSON A #31 H
Project Number: 16910
Project Location: NOT GIVEN

Sampling Date: 10/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 4 @ 3' (H403338-05)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/29/2014	ND	1.98	98.8	2.00	5.30	
Toluene*	<0.050	0.050	10/29/2014	ND	1.87	93.3	2.00	5.20	
Ethylbenzene*	<0.050	0.050	10/29/2014	ND	1.77	88.3	2.00	4.09	
Total Xylenes*	<0.150	0.150	10/29/2014	ND	5.22	87.0	6.00	4.03	
Total BTX	<0.300	0.300	10/29/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/30/2014	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/29/2014	ND	177	88.6	200	0.683	
DRO >C10-C28	57.8	10.0	10/29/2014	ND	184	92.1	200	2.71	

Surrogate: 1-Chlorooctane 97.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 140 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Burnett Oil Co., Inc
MIKE BURTON
801 Cherry St. - Suite 1500
Fort Worth TX, 76102-6881
Fax To: None

Received: 10/29/2014
Reported: 10/30/2014
Project Name: JACKSON A #31 H
Project Number: 16910
Project Location: NOT GIVEN

Sampling Date: 10/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 5 @ SURFACE (H403338-06)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/30/2014	ND	1.98	98.8	2.00	5.30	
Toluene*	0.217	0.200	10/30/2014	ND	1.87	93.3	2.00	5.20	
Ethylbenzene*	0.509	0.200	10/30/2014	ND	1.77	88.3	2.00	4.09	
Total Xylenes*	0.776	0.600	10/30/2014	ND	5.22	87.0	6.00	4.03	
Total BTX	1.50	1.20	10/30/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/30/2014	ND	400	100	400	3.92	

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	228	200	10/29/2014	ND	177	88.6	200	0.683		
DRO >C10-C28	13600	200	10/29/2014	ND	184	92.1	200	2.71		

Surrogate: 1-Chlorooctane 92.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 683 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Burnett Oil Co., Inc
MIKE BURTON
801 Cherry St. - Suite 1500
Fort Worth TX, 76102-6881
Fax To: None

Received: 10/29/2014
Reported: 10/30/2014
Project Name: JACKSON A #31 H
Project Number: 16910
Project Location: NOT GIVEN

Sampling Date: 10/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 5 @ 1' (H403338-07)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/30/2014	ND	1.98	98.8	2.00	5.30	
Toluene*	<0.050	0.050	10/30/2014	ND	1.87	93.3	2.00	5.20	
Ethylbenzene*	<0.050	0.050	10/30/2014	ND	1.77	88.3	2.00	4.09	
Total Xylenes*	<0.150	0.150	10/30/2014	ND	5.22	87.0	6.00	4.03	
Total BTEx	<0.300	0.300	10/30/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	64.0	16.0	10/30/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	12.0	10.0	10/29/2014	ND	177	88.6	200	0.683	
DRO >C10-C28	676	10.0	10/29/2014	ND	184	92.1	200	2.71	

Surrogate: 1-Chlorooctane 106 % 47.2-157

Surrogate: 1-Chlorooctadecane 150 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Burnett Oil Co., Inc
MIKE BURTON
801 Cherry St. - Suite 1500
Fort Worth TX, 76102-6881
Fax To: None

Received: 10/29/2014
Reported: 10/30/2014
Project Name: JACKSON A #31 H
Project Number: 16910
Project Location: NOT GIVEN

Sampling Date: 10/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 6 @ SURFACE (H403338-08)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	10/30/2014	ND	1.98	98.8	2.00	5.30	
Toluene*	5.06	1.00	10/30/2014	ND	1.87	93.3	2.00	5.20	
Ethylbenzene*	10.3	1.00	10/30/2014	ND	1.77	88.3	2.00	4.09	
Total Xylenes*	6.75	3.00	10/30/2014	ND	5.22	87.0	6.00	4.03	
Total BTX	22.1	6.00	10/30/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	10/30/2014	ND	400	100	400	3.92		

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	1000	200	10/29/2014	ND	177	88.6	200	0.683	
DRO >C10-C28	29200	200	10/29/2014	ND	184	92.1	200	2.71	

Surrogate: 1-Chlorooctane 187 % 47.2-157

Surrogate: 1-Chlorooctadecane 1110 % 52.1-176

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Analytical Results For:

Burnett Oil Co., Inc
MIKE BURTON
801 Cherry St. - Suite 1500
Fort Worth TX, 76102-6881
Fax To: None

Received: 10/29/2014
Reported: 10/30/2014
Project Name: JACKSON A #31 H
Project Number: 16910
Project Location: NOT GIVEN

Sampling Date: 10/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 6 @ 1' (H403338-09)

BTX 8021B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/30/2014	ND	1.98	98.8	2.00	5.30		
Toluene*	<0.050	0.050	10/30/2014	ND	1.87	93.3	2.00	5.20		
Ethylbenzene*	<0.050	0.050	10/30/2014	ND	1.77	88.3	2.00	4.09		
Total Xylenes*	<0.150	0.150	10/30/2014	ND	5.22	87.0	6.00	4.03		
Total BTX	<0.300	0.300	10/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/30/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/30/2014	ND	172	86.1	200	0.594	
DRO >C10-C28	<10.0	10.0	10/30/2014	ND	178	89.1	200	4.53	

Surrogate: 1-Chlorooctane 105 % 47.2-157

Surrogate: 1-Chlorooctadecane 139 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Burnett Oil Co., Inc
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Fort Worth TX, 76102-6881
Fax To: None

Received: 10/29/2014
Reported: 10/30/2014
Project Name: JACKSON A #31 H
Project Number: 16910
Project Location: NOT GIVEN

Sampling Date: 10/29/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 7 @ 4' (H403338-10)

BTX 8021B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/30/2014	ND	1.98	98.8	2.00	5.30		
Toluene*	<0.050	0.050	10/30/2014	ND	1.87	93.3	2.00	5.20		
Ethylbenzene*	<0.050	0.050	10/30/2014	ND	1.77	88.3	2.00	4.09		
Total Xylenes*	<0.150	0.150	10/30/2014	ND	5.22	87.0	6.00	4.03		
Total BTX	<0.300	0.300	10/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/30/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/30/2014	ND	172	86.1	200	0.594	
DRO >C10-C28	<10.0	10.0	10/30/2014	ND	178	89.1	200	4.53	

Surrogate: 1-Chlorooctane 105 % 47.2-157

Surrogate: 1-Chlorooctadecane 120 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Burnett Oil Co., Inc
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Fort Worth TX, 76102-6881
Fax To: None

Received: 10/29/2014
Reported: 10/30/2014
Project Name: JACKSON A #31 H
Project Number: 16910
Project Location: NOT GIVEN

Sampling Date: 10/29/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 8 @ 2' (H403338-11)

BTX 8021B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/30/2014	ND	1.98	98.8	2.00	5.30		
Toluene*	<0.050	0.050	10/30/2014	ND	1.87	93.3	2.00	5.20		
Ethylbenzene*	<0.050	0.050	10/30/2014	ND	1.77	88.3	2.00	4.09		
Total Xylenes*	<0.150	0.150	10/30/2014	ND	5.22	87.0	6.00	4.03		
Total BTX	<0.300	0.300	10/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/30/2014	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/30/2014	ND	172	86.1	200	0.594	
DRO >C10-C28	<10.0	10.0	10/30/2014	ND	178	89.1	200	4.53	

Surrogate: 1-Chlorooctane 108 % 47.2-157

Surrogate: 1-Chlorooctadecane 126 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Burnett Oil Co., Inc
MIKE BURTON
801 Cherry St. - Suite 1500
Fort Worth TX, 76102-6881
Fax To: None

Received: 10/29/2014
Reported: 10/30/2014
Project Name: JACKSON A #31 H
Project Number: 16910
Project Location: NOT GIVEN

Sampling Date: 10/29/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 9 @ 2' (H403338-12)

BTX 8021B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/30/2014	ND	1.98	98.8	2.00	5.30		
Toluene*	<0.050	0.050	10/30/2014	ND	1.87	93.3	2.00	5.20		
Ethylbenzene*	<0.050	0.050	10/30/2014	ND	1.77	88.3	2.00	4.09		
Total Xylenes*	<0.150	0.150	10/30/2014	ND	5.22	87.0	6.00	4.03		
Total BTX	<0.300	0.300	10/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	256	16.0	10/30/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/30/2014	ND	172	86.1	200	0.594	
DRO >C10-C28	<10.0	10.0	10/30/2014	ND	178	89.1	200	4.53	

Surrogate: 1-Chlorooctane 105 % 47.2-157

Surrogate: 1-Chlorooctadecane 121 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Burnett Oil Co., Inc
MIKE BURTON
801 Cherry St. - Suite 1500
Fort Worth TX, 76102-6881
Fax To: None

Received: 10/29/2014
Reported: 10/30/2014
Project Name: JACKSON A #31 H
Project Number: 16910
Project Location: NOT GIVEN

Sampling Date: 10/29/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 10 @ 2' (H403338-13)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/30/2014	ND	1.98	98.8	2.00	5.30	
Toluene*	<0.050	0.050	10/30/2014	ND	1.87	93.3	2.00	5.20	
Ethylbenzene*	<0.050	0.050	10/30/2014	ND	1.77	88.3	2.00	4.09	
Total Xylenes*	<0.150	0.150	10/30/2014	ND	5.22	87.0	6.00	4.03	
Total BTX	<0.300	0.300	10/30/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/30/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/30/2014	ND	172	86.1	200	0.594	
DRO >C10-C28	<10.0	10.0	10/30/2014	ND	178	89.1	200	4.53	

Surrogate: 1-Chlorooctane 105 % 47.2-157

Surrogate: 1-Chlorooctadecane 123 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Burnett Oil Co., Inc
MIKE BURTON
801 Cherry St. - Suite 1500
Fort Worth TX, 76102-6881
Fax To: None

Received: 10/29/2014
Reported: 10/30/2014
Project Name: JACKSON A #31 H
Project Number: 16910
Project Location: NOT GIVEN

Sampling Date: 10/29/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 11 @ 1' (H403338-14)

BTEx 8021B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/30/2014	ND	1.98	98.8	2.00	5.30		
Toluene*	<0.050	0.050	10/30/2014	ND	1.87	93.3	2.00	5.20		
Ethylbenzene*	<0.050	0.050	10/30/2014	ND	1.77	88.3	2.00	4.09		
Total Xylenes*	<0.150	0.150	10/30/2014	ND	5.22	87.0	6.00	4.03		
Total BTEx	<0.300	0.300	10/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/30/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/30/2014	ND	172	86.1	200	0.594	
DRO >C10-C28	35.5	10.0	10/30/2014	ND	178	89.1	200	4.53	

Surrogate: 1-Chlorooctane 109 % 47.2-157

Surrogate: 1-Chlorooctadecane 124 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Burnett Oil Co., Inc
MIKE BURTON
801 Cherry St. - Suite 1500
Fort Worth TX, 76102-6881
Fax To: None

Received: 10/29/2014
Reported: 10/30/2014
Project Name: JACKSON A #31 H
Project Number: 16910
Project Location: NOT GIVEN

Sampling Date: 10/29/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 12 @ SURFACE (H403338-15)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/30/2014	ND	1.98	98.8	2.00	5.30		
Toluene*	<0.050	0.050	10/30/2014	ND	1.87	93.3	2.00	5.20		
Ethylbenzene*	<0.050	0.050	10/30/2014	ND	1.77	88.3	2.00	4.09		
Total Xylenes*	<0.150	0.150	10/30/2014	ND	5.22	87.0	6.00	4.03		
Total BTX	<0.300	0.300	10/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/30/2014	ND	400	100	400	3.92		

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	54.3	50.0	10/30/2014	ND	172	86.1	200	0.594	
DRO >C10-C28	2950	50.0	10/30/2014	ND	178	89.1	200	4.53	

Surrogate: 1-Chlorooctane 105 % 47.2-157

Surrogate: 1-Chlorooctadecane 212 % 52.1-176

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*=Accredited Analyte

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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 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: Burnett Oil Gas
Project Manager: Mike Burton

Address:
City:
State:
Zip:
Phone #:
Fax #:
Project #:
Project Owner:

BILL TO
P.O. #: 16910
Company: Burnett Oil Gas
Attn: DFSI
Address:
City:
State:
Zip:

ANALYSIS REQUEST

Project Location: Jackson A 314
Sample Name: Michael Long
FOR LAB USE ONLY
Lab I.D. #403338
Sample I.D. SP100 2'
SP200 SWP
SP300 1'
SP400 6'
SP500 SWP
SP600 SWP
SP600 1'

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	CL	TPH	BTEX										
1	SP100 2'		1			X							10-28-14	10:58	X	X	X										
2	SP200 SWP		1			X							10-28-14	11:42	X	X	X										
3	SP300 1'		1			X							10-28-14	11:46	X	X	X										
4	SP400 6'		1			X							10-28-14	12:55	X	X	X										
5	SP500 SWP		1			X							10-28-14	2:04	X	X	X										
6	SP600 SWP		1			X							10-28-14	2:28	X	X	X										
7	SP600 1'		1			X							10-28-14	2:30	X	X	X										
8	SP600 SWP		1			X							10-28-14	2:59	X	X	X										
9	SP600 1'		1			X							10-28-14	3:02	X	X	X										

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Relinquished By: Michael Long
Date: 10-28-14
Time: 4:20
Received By: Jeffrey Long
Date: 10-28-14
Time: 4:20

Delivered By: (Circle One)
Sampler - UPS - Bus - Other: UPS
Sample Condition
Cool ☒ Intact ☒
No ☐ Yes ☒

Checked By: DFSI
Phone Result: ☐ Yes ☐ No ☐ Add'l Phone #:
Fax Result: ☐ Yes ☐ No ☐ Add'l Fax #:

E-mail Results To:
Ngladden@diversifiedfsi.com
Rpons@diversifiedfsi.com



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO				P.O. #: 16910
Company Name: Burnett & Livias Project Manager: Mike Burton				Company: Burnett Co Inc 905 Attn: DSSI
Address:				Address:
City:				City:
State:				State:
Zip:				Zip:
Phone #:				Phone #:
Fax #: _____				Fax #: _____
Project Location: Jackson H-31 H				
Sample Name: Yellow Lenses				
FOR LAB USE ONLY				

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX						PRESERV		SAMPLING										
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE: ICE / COOL	OTHER :	DATE									TIME	
10	SP7@4'	3	X						X		10-29-14	9:15	X	X	X						
11	SRP @ 2'	3	X						X		10-29-14	9:33	X	X	X						
12	SRP @ 2'	3	X						X		10-29-14	10:16	X	X	X						
13	SRP @ 2'	3	X						X		10-29-14	11:37	X	X	X						
14	SR11 @ 2'	3	X						X		10-29-14	11:41	X	X	X						
15	SR12 @ SURF	3	X						X		10-29-14	2:00	X	X	X						

Please Note: Liability and Damages. Customer's liability and client's exclusive remedy for any claim arising hereby based in contract or tort shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Company within 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 services hereunder by Cardinal regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: [Signature]	Date: 10-29-14	Time: 4:30
Received By: [Signature]	Date: 10-29-14	Time:
E-mail Results To: Rpons@diversifiedfsi.com	Ngladden@diversifiedfsi.com	J.Parker