



Hall Environmental Analysis Laboratory
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Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

July 10, 2018

Johnny Titsworth
Burnett Oil Co Inc
PO Box 188
Loco Hills, NM 88255
TEL: (432) 425-2891
FAX

RE: GJSAU 22 INJ Line

OrderNo.: 1806G85

Dear Johnny Titsworth:

Hall Environmental Analysis Laboratory received 32 sample(s) on 6/28/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order: 1806G85

Date Reported: 7/10/2018

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Burnett Oil Co Inc
Project: GJSAU 22 INJ Line**Lab Order:** 1806G85**Lab ID:** 1806G85-001**Collection Date:** 6/26/2018**Client Sample ID:** SP1 0-1**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	5300	300		mg/Kg	200	7/9/2018 10:40:20 AM	39059
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: irm
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/29/2018 8:14:36 PM	38953
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/29/2018 8:14:36 PM	38953
Surr: DNOP	109	70-130		%Rec	1	6/29/2018 8:14:36 PM	38953
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/29/2018 7:29:10 PM	38950
Surr: BFB	93.8	15-316		%Rec	1	6/29/2018 7:29:10 PM	38950
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/29/2018 7:29:10 PM	38950
Toluene	ND	0.049		mg/Kg	1	6/29/2018 7:29:10 PM	38950
Ethylbenzene	ND	0.049		mg/Kg	1	6/29/2018 7:29:10 PM	38950
Xylenes, Total	ND	0.098		mg/Kg	1	6/29/2018 7:29:10 PM	38950
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	6/29/2018 7:29:10 PM	38950

Lab ID: 1806G85-002**Collection Date:** 6/26/2018**Client Sample ID:** SP1 1-2**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	5500	300		mg/Kg	200	7/9/2018 6:16:05 PM	39073

Lab ID: 1806G85-003**Collection Date:** 6/26/2018**Client Sample ID:** SP1 2-3**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	8200	300		mg/Kg	200	7/9/2018 6:28:30 PM	39073

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

Analytical Report

Lab Order: 1806G85

Date Reported: 7/10/2018

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Burnett Oil Co Inc
Project: GJSAU 22 INJ Line**Lab Order:** 1806G85**Lab ID:** 1806G85-004**Collection Date:** 6/26/2018**Client Sample ID:** SP1 3-4**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	8500	300		mg/Kg	200	7/9/2018 6:40:55 PM	39073

Lab ID: 1806G85-005**Collection Date:** 6/26/2018**Client Sample ID:** SP2 0-1**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	8700	750		mg/Kg	500	7/9/2018 6:53:19 PM	39073
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/29/2018 8:36:54 PM	38953
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/29/2018 8:36:54 PM	38953
Surr: DNOP	99.5	70-130		%Rec	1	6/29/2018 8:36:54 PM	38953
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/29/2018 7:52:33 PM	38950
Surr: BFB	95.6	15-316		%Rec	1	6/29/2018 7:52:33 PM	38950
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/29/2018 7:52:33 PM	38950
Toluene	ND	0.048		mg/Kg	1	6/29/2018 7:52:33 PM	38950
Ethylbenzene	ND	0.048		mg/Kg	1	6/29/2018 7:52:33 PM	38950
Xylenes, Total	ND	0.096		mg/Kg	1	6/29/2018 7:52:33 PM	38950
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	6/29/2018 7:52:33 PM	38950

Lab ID: 1806G85-006**Collection Date:** 6/26/2018**Client Sample ID:** SP2 1-2**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	7900	300		mg/Kg	200	7/9/2018 7:05:44 PM	39073

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1806G85

Date Reported: 7/10/2018

CLIENT: Burnett Oil Co Inc
Project: GJSAU 22 INJ Line

Lab Order: 1806G85

Lab ID: 1806G85-007

Collection Date: 6/26/2018

Client Sample ID: SP2 2-3

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	9100	300		mg/Kg	200	7/9/2018 7:18:08 PM	39073

Lab ID: 1806G85-008

Collection Date: 6/26/2018

Client Sample ID: SP2 3-4

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	15000	750		mg/Kg	500	7/9/2018 7:30:32 PM	39073

Lab ID: 1806G85-009

Collection Date: 6/26/2018

Client Sample ID: SP3 0-1

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	4000	150		mg/Kg	100	7/9/2018 7:42:57 PM	39073
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/29/2018 8:59:16 PM	38953
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/29/2018 8:59:16 PM	38953
Surr: DNOP	104	70-130		%Rec	1	6/29/2018 8:59:16 PM	38953
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/29/2018 8:15:55 PM	38950
Surr: BFB	93.3	15-316		%Rec	1	6/29/2018 8:15:55 PM	38950
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	6/29/2018 8:15:55 PM	38950
Toluene	ND	0.046		mg/Kg	1	6/29/2018 8:15:55 PM	38950
Ethylbenzene	ND	0.046		mg/Kg	1	6/29/2018 8:15:55 PM	38950
Xylenes, Total	ND	0.091		mg/Kg	1	6/29/2018 8:15:55 PM	38950
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	6/29/2018 8:15:55 PM	38950

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit

Analytical Report

Lab Order: 1806G85

Date Reported: 7/10/2018

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Burnett Oil Co Inc
Project: GJSAU 22 INJ Line**Lab Order:** 1806G85**Lab ID:** 1806G85-010**Collection Date:** 6/26/2018**Client Sample ID:** SP3 1-2**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	6600	300		mg/Kg	200	7/9/2018 8:20:10 PM	39073

Lab ID: 1806G85-011**Collection Date:** 6/26/2018**Client Sample ID:** SP3 2-3**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	8500	300		mg/Kg	200	7/9/2018 8:32:35 PM	39073

Lab ID: 1806G85-012**Collection Date:** 6/26/2018**Client Sample ID:** SP3 3-4**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	11000	750		mg/Kg	500	7/9/2018 8:45:00 PM	39073

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quantitative Limit

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Detection Limit

Analytical Report

Lab Order: 1806G85

Date Reported: 7/10/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Burnett Oil Co Inc
Project: GJSAU 22 INJ Line

Lab Order: 1806G85**Lab ID:** 1806G85-013**Collection Date:** 6/26/2018**Client Sample ID:** SP4 0-1**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	5600	300		mg/Kg	200	7/9/2018 8:57:24 PM	39073
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: irm
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/29/2018 9:21:27 PM	38953
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/29/2018 9:21:27 PM	38953
Surr: DNOP	89.4	70-130		%Rec	1	6/29/2018 9:21:27 PM	38953
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/29/2018 8:39:18 PM	38950
Surr: BFB	95.0	15-316		%Rec	1	6/29/2018 8:39:18 PM	38950
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/29/2018 8:39:18 PM	38950
Toluene	ND	0.047		mg/Kg	1	6/29/2018 8:39:18 PM	38950
Ethylbenzene	ND	0.047		mg/Kg	1	6/29/2018 8:39:18 PM	38950
Xylenes, Total	ND	0.094		mg/Kg	1	6/29/2018 8:39:18 PM	38950
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	6/29/2018 8:39:18 PM	38950

Lab ID: 1806G85-014**Collection Date:** 6/26/2018**Client Sample ID:** SP4 1-2**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	9700	750		mg/Kg	500	7/9/2018 9:09:48 PM	39073

Lab ID: 1806G85-015**Collection Date:** 6/26/2018**Client Sample ID:** SP4 2-3**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	10000	750		mg/Kg	500	7/9/2018 9:22:13 PM	39073

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1806G85

Date Reported: 7/10/2018

CLIENT: Burnett Oil Co Inc
Project: GJSAU 22 INJ Line

Lab Order: 1806G85

Lab ID: 1806G85-016

Collection Date: 6/26/2018

Client Sample ID: SP4 3-4

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride	9800	750		mg/Kg	500	7/9/2018 9:34:37 PM	39073
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Lab ID: 1806G85-017

Collection Date: 6/26/2018

Client Sample ID: SP4 4-5

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride	9800	750		mg/Kg	500	7/9/2018 9:47:02 PM	39073
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Lab ID: 1806G85-018

Collection Date: 6/26/2018

Client Sample ID: SP4 5-6

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride	19000	750		mg/Kg	500	7/9/2018 9:59:27 PM	39097
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Lab ID: 1806G85-019

Collection Date: 6/26/2018

Client Sample ID: SP4 6-7

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride	11000	750		mg/Kg	500	7/9/2018 10:11:52 PM	39097
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Lab ID: 1806G85-020

Collection Date: 6/26/2018

Client Sample ID: SP4 7-8

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride	13000	750		mg/Kg	500	7/9/2018 10:49:04 PM	39097
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Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quantitative Limit

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Detection Limit

Analytical Report

Lab Order: 1806G85

Date Reported: 7/10/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Burnett Oil Co Inc
Project: GJSAU 22 INJ Line

Lab Order: 1806G85**Lab ID:** 1806G85-021**Collection Date:** 6/26/2018**Client Sample ID:** SP4 8-9**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	14000	750		mg/Kg	500	7/9/2018 11:01:29 PM	39097

Lab ID: 1806G85-022**Collection Date:** 6/26/2018**Client Sample ID:** SP5 0-1**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	4200	300		mg/Kg	200	7/9/2018 11:13:54 PM	39097
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/29/2018 9:43:44 PM	38953
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/29/2018 9:43:44 PM	38953
Surr: DNOP	96.7	70-130		%Rec	1	6/29/2018 9:43:44 PM	38953
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/29/2018 9:02:39 PM	38950
Surr: BFB	93.8	15-316		%Rec	1	6/29/2018 9:02:39 PM	38950
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	6/29/2018 9:02:39 PM	38950
Toluene	ND	0.046		mg/Kg	1	6/29/2018 9:02:39 PM	38950
Ethylbenzene	ND	0.046		mg/Kg	1	6/29/2018 9:02:39 PM	38950
Xylenes, Total	ND	0.092		mg/Kg	1	6/29/2018 9:02:39 PM	38950
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	6/29/2018 9:02:39 PM	38950

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

Analytical Report

Lab Order: 1806G85

Date Reported: 7/10/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Burnett Oil Co Inc
Project: GJSAU 22 INJ Line

Lab Order: 1806G85**Lab ID:** 1806G85-023**Collection Date:** 6/26/2018**Client Sample ID:** SP6 0-1**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	340	30		mg/Kg	20	7/9/2018 3:34:48 PM	39097
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: irm
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/29/2018 10:06:03 PM	38953
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/29/2018 10:06:03 PM	38953
Surr: DNOP	108	70-130		%Rec	1	6/29/2018 10:06:03 PM	38953
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/29/2018 9:26:02 PM	38950
Surr: BFB	90.3	15-316		%Rec	1	6/29/2018 9:26:02 PM	38950
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	6/29/2018 9:26:02 PM	38950
Toluene	ND	0.047		mg/Kg	1	6/29/2018 9:26:02 PM	38950
Ethylbenzene	ND	0.047		mg/Kg	1	6/29/2018 9:26:02 PM	38950
Xylenes, Total	ND	0.094		mg/Kg	1	6/29/2018 9:26:02 PM	38950
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	6/29/2018 9:26:02 PM	38950

Lab ID: 1806G85-024**Collection Date:** 6/26/2018**Client Sample ID:** SP6 1-2**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	420	30		mg/Kg	20	7/9/2018 3:47:12 PM	39097

Lab ID: 1806G85-025**Collection Date:** 6/26/2018**Client Sample ID:** SP6 2-3**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	1200	30		mg/Kg	20	7/9/2018 3:59:36 PM	39097

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1806G85

Date Reported: 7/10/2018

CLIENT: Burnett Oil Co Inc
Project: GJSAU 22 INJ Line

Lab Order: 1806G85

Lab ID: 1806G85-026

Collection Date: 6/26/2018

Client Sample ID: SP6 3-4

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	3200	150		mg/Kg	100	7/9/2018 11:26:19 PM	39097

Lab ID: 1806G85-027

Collection Date: 6/26/2018

Client Sample ID: SP6 4-5

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	8000	300		mg/Kg	200	7/9/2018 11:38:44 PM	39097

Lab ID: 1806G85-028

Collection Date: 6/26/2018

Client Sample ID: SP6 5-6

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	8100	300		mg/Kg	200	7/9/2018 11:51:08 PM	39097

Lab ID: 1806G85-029

Collection Date: 6/26/2018

Client Sample ID: SP6 6-7

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	3500	150		mg/Kg	100	7/10/2018 12:03:33 AM	39097

Lab ID: 1806G85-030

Collection Date: 6/26/2018

Client Sample ID: SP6 7-8

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	1100	30		mg/Kg	20	7/9/2018 5:01:39 PM	39097

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

Analytical ReportLab Order: **1806G85**Date Reported: **7/10/2018****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Burnett Oil Co Inc
Project: GJSAU 22 INJ Line**Lab Order:** 1806G85**Lab ID:** 1806G85-031**Collection Date:** 6/26/2018**Client Sample ID:** SP6 8-9**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	1100	30		mg/Kg	20	7/9/2018 5:14:03 PM	39097

Lab ID: 1806G85-032**Collection Date:** 6/26/2018**Client Sample ID:** SP6 9-10**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	500	30		mg/Kg	20	7/9/2018 5:51:17 PM	39097

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1806G85

10-Jul-18

Client: Burnett Oil Co Inc
Project: GJSAU 22 INJ Line

Sample ID	MB-39059		SampType: MBLK		TestCode: EPA Method 300.0: Anions					
Client ID:	PBS		Batch ID: 39059		RunNo: 52494					
Prep Date:	7/5/2018		Analysis Date: 7/5/2018		SeqNo: 1721495		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-39059		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 39059		RunNo: 52494					
Prep Date:	7/5/2018		Analysis Date: 7/5/2018		SeqNo: 1721496		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.1	90	110			

Sample ID	MB-39073		SampType: mblk		TestCode: EPA Method 300.0: Anions					
Client ID:	PBS		Batch ID: 39073		RunNo: 52505					
Prep Date:	7/6/2018		Analysis Date: 7/6/2018		SeqNo: 1723075		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-39073		SampType: lcs		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 39073		RunNo: 52505					
Prep Date:	7/6/2018		Analysis Date: 7/6/2018		SeqNo: 1723076		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.8	90	110			

Sample ID	MB-39097		SampType: mblk		TestCode: EPA Method 300.0: Anions					
Client ID:	PBS		Batch ID: 39097		RunNo: 52563					
Prep Date:	7/9/2018		Analysis Date: 7/9/2018		SeqNo: 1724219		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-39097		SampType: lcs		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 39097		RunNo: 52563					
Prep Date:	7/9/2018		Analysis Date: 7/9/2018		SeqNo: 1724220		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.8	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1806G85

10-Jul-18

Client: Burnett Oil Co Inc
Project: GJSAU 22 INJ Line

Sample ID	MB-38953		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 38953		RunNo: 52358					
Prep Date:	6/28/2018		Analysis Date: 6/29/2018		SeqNo: 1716480		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.8		10.00		87.9	70	130			

Sample ID	LCS-38953		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 38953		RunNo: 52358					
Prep Date:	6/28/2018		Analysis Date: 6/29/2018		SeqNo: 1716481		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	101	70	130			
Surr: DNOP	4.2		5.000		84.6	70	130			

Qualifiers:

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D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1806G85

10-Jul-18

Client: Burnett Oil Co Inc
Project: GJSAU 22 INJ Line

Sample ID	MB-38950		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 38950		RunNo: 52392					
Prep Date:	6/28/2018		Analysis Date: 6/29/2018		SeqNo: 1717307		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	980		1000		97.8	15	316			

Sample ID	LCS-38950		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 38950		RunNo: 52392					
Prep Date:	6/28/2018		Analysis Date: 6/29/2018		SeqNo: 1717308		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	75.9	131			
Surr: BFB	1000		1000		104	15	316			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1806G85

10-Jul-18

Client: Burnett Oil Co Inc
Project: GJSAU 22 INJ Line

Sample ID	MB-38950		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS		Batch ID: 38950		RunNo: 52392					
Prep Date:	6/28/2018		Analysis Date: 6/29/2018		SeqNo: 1717332		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

Sample ID	LCS-38950		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 38950		RunNo: 52392					
Prep Date:	6/28/2018		Analysis Date: 6/29/2018		SeqNo: 1717333		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.5	77.3	128			
Toluene	0.98	0.050	1.000	0	97.5	79.2	125			
Ethylbenzene	0.96	0.050	1.000	0	96.3	80.7	127			
Xylenes, Total	3.0	0.10	3.000	0	98.4	81.6	129			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
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Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BURNETT OIL CO INC

Work Order Number: 1806G85

RcptNo: 1

Received By: Erin Melendrez 6/28/2018 8:25:00 AM

Completed By: Isaiah Ortiz 6/28/2018 9:29:01 AM

Reviewed By: MW 6/28/18

Labeled By: 50612810

UAG

IO

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:
(<2 or ≥ 12 unless noted)
Adjusted? X 6.2418
Checked by: _____

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.3	Good	Yes			



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Client: Burnett Oil Co., Inc	☒ Standard ☐ Rush	Project Name: GSAU 22 WJ. LINE
Mailing Address:	Project #: 1806685	Project Manager: Johnny Titsworth
P.O. Box 188 Loco Hills, NM 88255	Sample Temperature: 3.3	On Ice: ☒ Yes ☐ No
Phone #: 432-425-2891	Container Type and #	Preservative Type
email or Fax#: jtitworth@burnettoll.com	HEAL No.	HEAL No.
QA/QC Package:	Sample Request ID	Sample Request ID
☐ Standard ☐ Level 4 (Full Validation)	Matrix	Matrix
Accreditation:	Date	Date
☐ NELAP ☐ Other	Time	Time
☐ EDD (Type)	Time	Time
Relinquished by: <i>Johnny Titsworth</i>	Time	Time
Relinquished by: <i>SP1</i>	Time	Time
Date: 2/26/18 11:47	Date: 2/26/18 07:00	Date: 2/26/18 07:00
Date: 2/26/18 19:00	Date: 2/26/18 07:00	Date: 2/26/18 07:00

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	Chloride	TPH 8015M	BTEX 8021B	Air Bubbles (Y or N)
2/26/18	AM	soil	SP1	0-1'	Ice	-001	X	X	X	
			SP1	1-2'		-002				
			SP1	2-3'		-003				
			SP1	3-4'		-004				
			SP2	0-1'		-005	X	X		
			SP2	1-2'		-006				
			SP2	2-3'		-007				
			SP2	3-4'		-008				
			SP3	0-1'		-009	X	X		
			SP3	1-2'		-010				
			SP3	2-3'		-011				
			SP3	3-4'		-012				

Remarks: If total TPH exceeds 5,000 mg/kg - run deeper sample.
If total BTEX exceeds 50 mg/kg - run deeper sample
Benzene exceeds 10 mg/kg - run deeper sample

Mailing Address:

P.O. Box 188 Loco Hills, NM 88255

Phone #: 432-425-2891

Email or Fax#: jtitworth@burnettoil.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP ☐ Other

☐ EDD (Type)

7 day turn

☒ Standard ☐ Rush

Project Name:

GJSAN RR INT. LINE

Project #:

Project Manager:

Johnny Titworth

Sampler: Johnny Titworth

On Ice: ☒ Yes ☐ No

Sample Temperature: 3.3

Date Time Matrix Sample Request ID

6/26/18 AM SP4 0-1'

SP4 1-2'

SP4 2-3'

SP4 3-4'

SP4 4-5'

SP4 5-6'

SP4 6-7'

SP4 7-8'

SP4 8-9'

SP5 0-1'

Date: 12/6/18 1149

Relinquished by:

Relinquished by:

Received:

Date Time

Date Time

6/27/18 0700

6/28/18 0825

6/28/18 0825

6/28/18 0825

6/28/18 0825

6/28/18 0825

6/28/18 0825

6/28/18 0825

6/28/18 0825

Remarks: If total TPH exceeds 5,000 mg/kg - run deeper sample.
If total BTEX exceeds 50 mg/kg - run deeper sample
Benzene exceeds 10 mg/kg - run deeper sample



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Client: Burnett Oil Co., Inc	☒ Standard ☐ Rush
Mailing Address:	Project Name:
P.O. Box 188 Loco Hills, NIM 88255	GSSAU 22 INT. LINE
Phone #: 432-425-2891	Project #:
email or Fax#: jtitworth@burnettoil.com	Project Manager:
QA/QC Package:	Johnny Titsworth
☐ Standard ☐ Level 4 (Full Validation)	Sampler: Johnny Titsworth
Accreditation:	On Ice: ☒ Yes ☐ No
☐ NELAP ☐ Other	Sample Temperature: 3.3
☐ EDD (Type)	

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
2/4/18	AM	soil	SPG 12-1'	4 oz.	Ice	-023
			SPG 1-2'			-024
			SPG 2-3'			-025
			SPG 3-4'			-026
			SPG 4-5'			-027
			SPG 5-6'			-028
			SPG 6-7'			-029
			SPG 7-8'			-030
			SPG 8-9'			-031
			SPG 9-10'			-032

Date: 2/4/18	Time: 1150	Relinquished by: <i>Johnny Titsworth</i>	Received by: <i>SPG</i>	Date: 6/27/18	Time: 0700
Date: 6/28/18	Time: 1900	Relinquished by: <i>SPG</i>	Received by: <i>SPG</i>	Date: 6/28/18	Time: 0825

Remarks: If total TPH exceeds 5,000 mg/kg - run deeper sample.
If total BTEX exceeds 50 mg/kg - run deeper sample
Benzene exceeds 10 mg/kg - run deeper sample

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report