

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division

Receipt of Fee Application Payment



PO Number: 0IEB7-200501-C-1410

Payment Date: 5/1/2020 2:40:53 PM
Payment Amount: \$150.00
Payment Type: Credit Card

Application Type: Application for administrative approval of a release notification and corrective action.
Fee Amount: \$150.00
Application Status: Pending Document Delivery

OGRID: 3080
First Name: William
Last Name: Burns
Email: wburns@burnettoil.com

IMPORTANT: If you are mailing or delivering your application, you must print and include your receipt of payment as the first page on your application. All mailed and delivered applications must be sent to the following address: 1220 S. St. Francis Dr., Santa Fe, NM 87505. For inquiries, reference the PO Number listed above.



April 27, 2020

Mike Bratcher

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

RE: Corrective Action Plan

**Burnett Oil Co., Inc. - Gissler B 3-3 Tank Battery
UL/M sec. 11 T17S R30E**

Mr. Bratcher:

The above location is approximately 2.5 miles Northeast of Loco Hills, New Mexico at UL/M sec.11 T17S R30E. The site is located in an area of no known groundwater. Any possible groundwater is expected at depths greater than 300 ft.

In the evening of March 13, 2019, there was a release of 690 barrels of fluid, and we were able to recover approx. 505 barrels of fluid. The release had occurred when extremely high winds broke the 4" water leg line coming off the gun barrel tank. The BLM and the NMOCD were notified on March 14, 2019, and the C-141 was submitted on March 15, 2019.

Corrective Action Plan

On March 13, 2019 a vacuum truck was called out the BOC Gissler B 3-3 Tank Battery. Approximately 505 barrels of fluid was picked up from inside the firewall surrounding the tanks, and from the lined area to the south which contains the vessels. On March 15, the overspray area on the lease road and pad to the East of the tank battery was scrapped up. The material was hauled to an accredited disposal site. On March 28, 2019 Aspen Grow LLC. was hired to collect samples within the release area surrounding the tanks. There were three sample



April 27, 2020

locations: SP-1, SP-2, & SP-3. The area of SP-1 showed elevated levels down to 9'. The area of SP-2 showed elevated levels down to 2'. The area of SP-3 showed elevated levels down to 6'. Atkins engineering was hired to delineate the area of SP-1 (BH-1) and was able to collect data showing clean soil at 35' below surface. The area of SP-3 was not delineated, there was not a safe access point.

On October 15, 2015 BOCI reported a release of 550 bbls of fluid. Spill report shows that they recovered 540 bbls. This release was deferred until abandonment on January 28, 2016. So we know we have some historical contamination in this area. In review of the site map the area we are requesting to treat this time sits on top of most of this historical footprint.

Mrs. Eads, OCD, requested some additional sample points and information. On January 3rd, Aspen Grow collected samples from Sample points 1-3, original sample points and additional sample points, SP 4- 9. These sample points did show elevated levels needing remediation. There were elevated levels of TPH within the berm area but we expected this because of this event as well as the historical spill. Outside the berm area showed levels of Chloride.

We also enlisted the services of Atkins to take a bottom Hole sample from inside the berm. It is listed on Site Diagram as BH – 1. Samples were taken at 5 ft. intervals with the highest level of chlorides shown at 5 ft. Reports will be attached, and lab results were entered into the Analytical table to make them easier to read.

To remediate the impacted soil, Burnett Oil Co., Inc. has enlisted the services of Aspen Grow LLC. to apply Probiotic compounds to the impacted area. The probiotics will be applied with fresh water to the impacted area once a week for eight weeks. In that time the probiotics and the fresh water will be able to begin remediating the hydrocarbons in the impacted area. The process is a water and proprietary blend of probiotics that are sprayed over the entire footprint



April 27, 2020

and overspray area to a point of saturation. This is a topical application process. We do not use injection holes. The repeated process pushes the proprietary blend down with each application. We have seen good results from this process and have had areas show re-growth while still receiving treatments. The area is resampled after 8 weeks and if necessary, the process continues until all levels are within regulatory limits. We would like continue to treat this release in this method and understand that it could be for an extended period of time within the berm area to bring those levels in compliance but feel it is a better method treating it in place than it would be waiting for abandonment to remove and haul off all the material. We have been treating the impact since the release and are already seeing good results. Mrs. Venegas referenced SP2 delineation and I would note that SP 2 had TPH levels above 12000 from 0-1ft in March 2019. When Tested again in January the TPH was at 4100. Our Chloride levels have fallen below OCD guidelines. We just need to get the TPH down.

Our confirmation sampling is done by sampling in the immediate area of each initial sample point. We repeat this process of treatment and sampling until the sample area becomes compliant. I put confirmation sample rings around the Sample Point markers on the site map.

Following the approval of this work plan, Burnett Oil Co., Inc. will continue remediating the release area down to Regulatory standards. BOCI requests a variance of the time restraints to 180 days from submittal to perform in-situ remediation and closure of this release. I am hopeful that this treatment will get current and historical release within guidelines in that time frame. Please feel free to contact me with any questions concerning this plan request.

Sincerely,

Bryan Burns

575-706-5999

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 Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	2RP-5333
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Burnett Oil Co., Inc.	OGRID: 03080
Contact Name: Johnny Titsworth	Contact Telephone: (432) 425-2891
Contact email: jtitsworth@burnettoil.com	Incident # (assigned by OCD)
Contact mailing address: P.O. Box 188 Loco Hills, NM 88255	

Location of Release Source

Latitude 32.84317 _____ Longitude -103.94977 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Gissler B 3-3 Tank Battery	Site Type: Tank Battery
Date Release Discovered: 3/13/19	API# (if applicable)

Unit Letter	Section	Township	Range	County
M	11	17S	30E	Eddy Co.

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☒ Crude Oil	Volume Released (bbls): 5 BBLS	Volume Recovered (bbls): 2 BBLS
☒ Produced Water	Volume Released (bbls): 685 BBLS	Volume Recovered (bbls): 503 BBLS
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Extremely high winds cause the water leg on the gun barrel tank to break, releasing fluid into the bermed area.

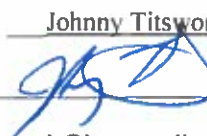
State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-5333
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? The release amount was over 200 BBLS of total fluid
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Mike Bratcher 3/14/19 at 8:15 am via phone Jim Amos (BLM) 3/14/19 at 8:15 am via phone	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.	
☒ The impacted area has been secured to protect human health and the environment.	
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.	
Printed Name: <u>Johnny Titsworth</u>	Title: <u>HSE Coordinator</u>
Signature: 	Date: <u>3/15/19</u>
email: <u>jtitsworth@burnettoil.com</u>	Telephone: <u>(432) 425-2891</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

Incident ID	
District RP	2RP-5333
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<300 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-5333
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: Johnny Titsworth Title: HSE Coordinator

Signature:  Date: 9/16/19

email: jtitsworth@burnettoil.com Telephone: (432) 425-2891

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	2RP-5333
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: Bryan Burns Title: HSE and Security Coordinator
Signature:  Date: 4/27/20
//email: wburns@burnettoil.com Telephone: (575)706-5999

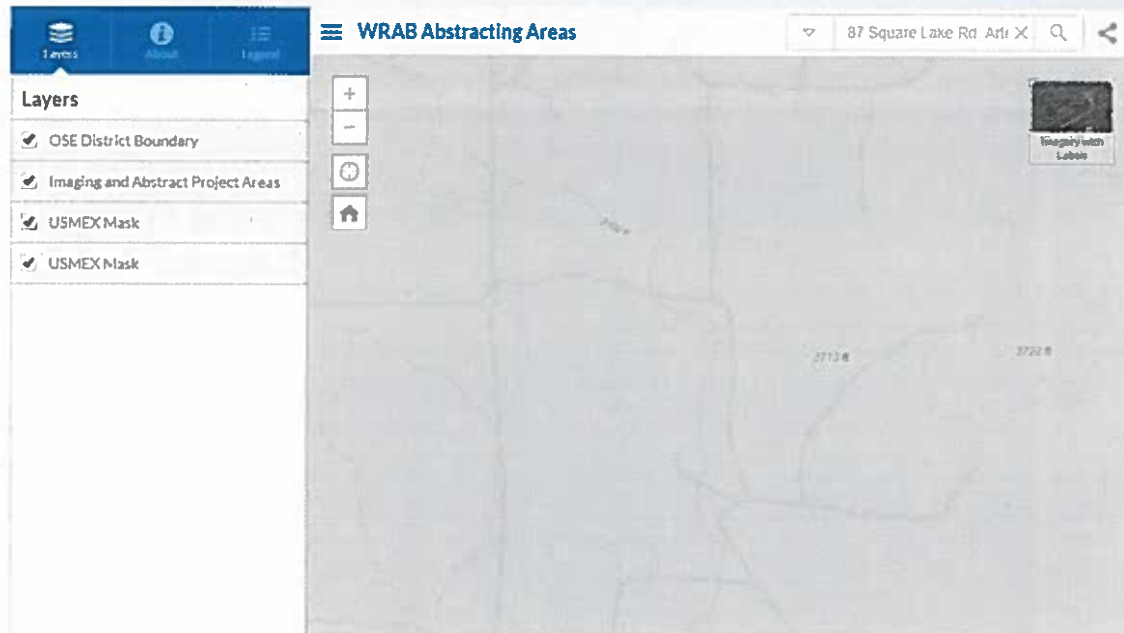
OCD Only

Received by: _____ Date: _____

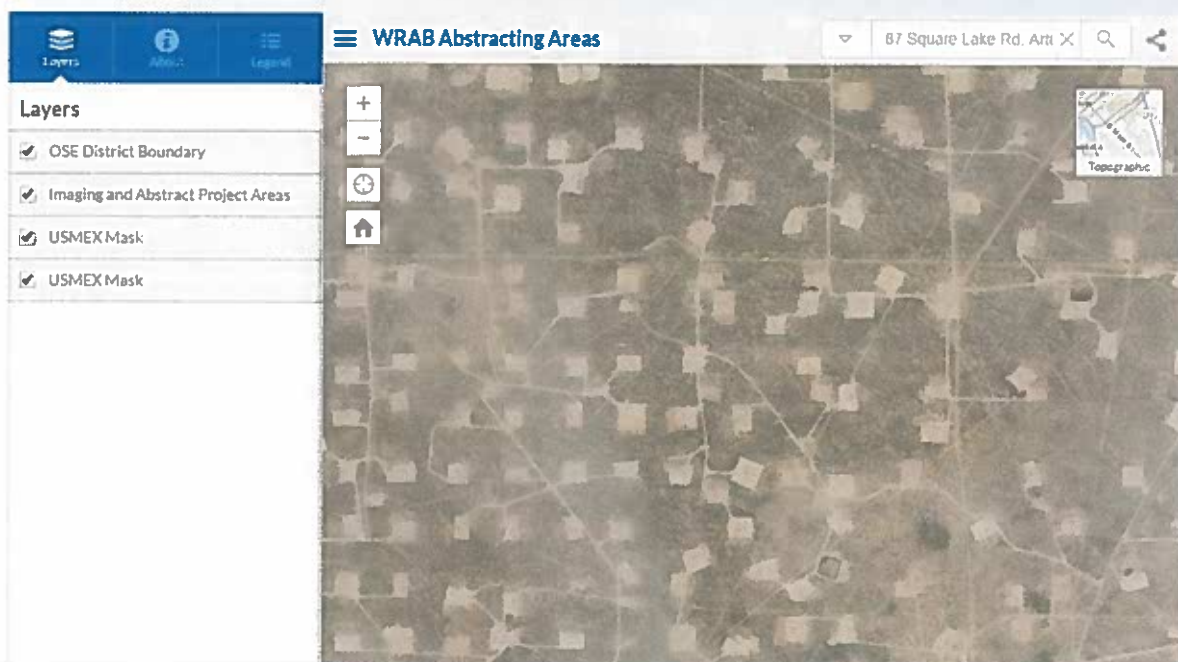
☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

WATERS MAP - Areas Abstracted in NMWRRS



WATERS MAP - Areas Abstracted in NMWRRS





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

No records found.

PLSS Search:

Section(s): 11

Township: 17S

Range: 30E

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.

3/15/19 12:59 PM

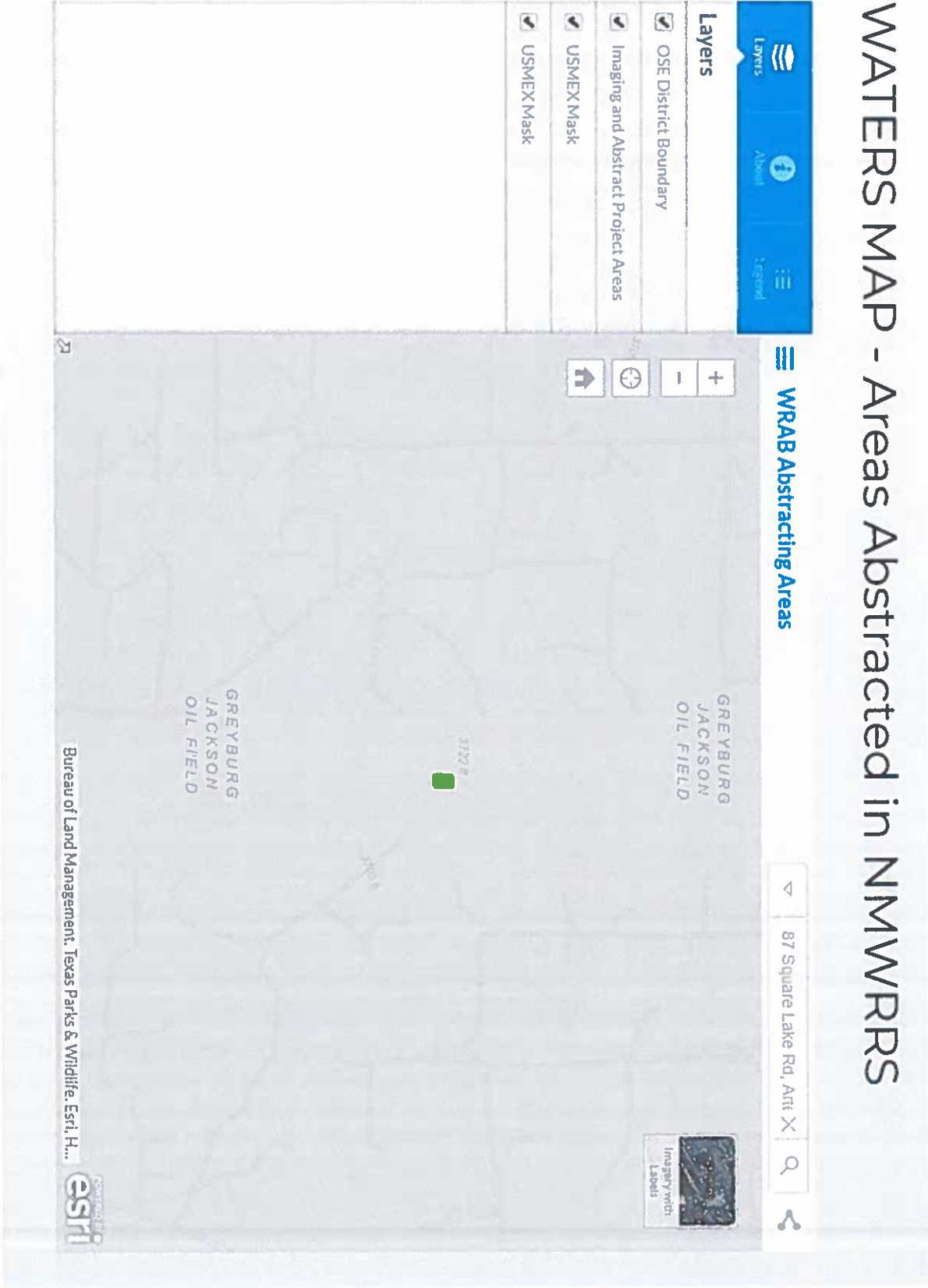
WATER COLUMN/ AVERAGE
DEPTH TO WATER



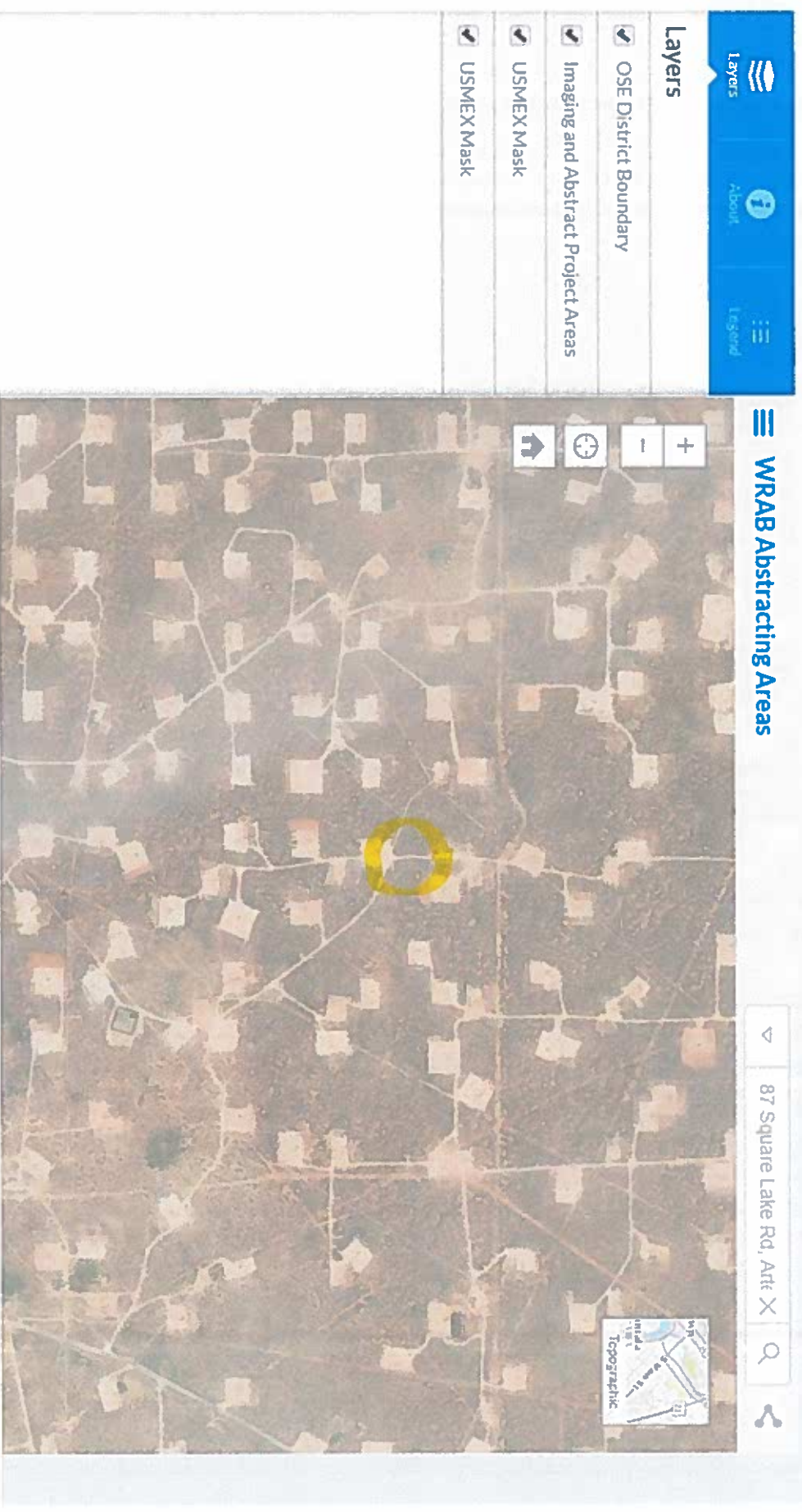
National Water Information System: Map View

There

WATERS MAP - Areas Abstracted in NMWRRS



WATERS MAP - Areas Abstracted in NMWRRS





Only two wells drilled by us in 1985/1986 depth of 385 ft. and 433 ft. into Local Aquifer "Sunrise Formation". USGS.Gov. However it doesn't look like either were productive.

Appendix A

Lab Reports – Analytical Table

Gissler B 3-3 Tank Battery

03-13-19 release

Table 1 - Analytical Results

Date	Sample ID	Depth	Chloride	TPH - GRO	TPH - DRO	TPH-Total	Benzene	Toluene	Ethylbenzene	Xylene	BTEX
3/28/2019	SP-1	0-1'	5100	322	7700	8022	ND	ND	0.54	1.3	1.84
3/28/2019	SP-1	1'-2'	100								
3/28/2019	SP-1	2'-3'	4100								
3/28/2019	SP-1	3'-4'	3500								
3/28/2019	SP-1	4'-5'	1,800								
3/28/2019	SP-1	5'-6'	3,600								
3/28/2019	SP-1	6'-7'	3900								
3/28/2019	SP-1	7'-8'	4400								
3/28/2019	SP-1	8'-9'	4500								
3/28/2019	SP-2	0-1'	1500	35	12000	12035	ND	ND	ND	ND	ND
3/28/2019	SP-2	1'-2'	1300								
3/28/2019	SP-2	2'-3'	770								

Table 1 - Analytical Results

Date	Sample ID	Depth	Chloride	TPH - GRO	TPH - DRO	TPH-Total	Benzene	Toluene	Ethylbenzene	Xylene	BTEX
3/28/2019	SP-2	3'-4'	180								
3/28/2019	SP-2	4'-5'	230								
3/28/2019	SP-2	5'-6'	ND								
3/28/2019	SP-2	6'-7'	140								
3/28/2019	SP-2	7'-8'	ND								
3/28/2019	SP-2	8'-9'	ND								
3/28/2019	SP-2	9'-10'	100								
3/28/2019	SP-3	0-1'	3100	99	10000	10099	0.16	1.6	0.75	1.6	4.11
3/28/2019	SP-3	1'-2'	5200								
3/28/2019	SP-3	2'-3'	7700								
3/28/2019	SP-3	3'-4'	1200								
3/28/2019	SP-3	4'-5'	3500								



Page: 3

Table 1 - Analytical Results

[illegible]



Page: 4

Table 1 - Analytical Results

[illegible]



BURNETT OIL CO., INC.

Location: _____

Page: 5

Table 1 - Analytical Results

Date	Sample ID	Depth	Chloride	TPH - GRO	TPH - DRO	TPH-Total	Benzene	Toluene	Ethylbenzene	Xylene	BTEX
1/3/2020	SP1	0-1	230	ND	9900	9900	ND	ND	ND	ND	
		1-2	410	ND	12200	12200					
		2-3	1100	ND	7700	7700					
		3-4	3400	ND	1510	1510					
		4-5	3700	ND	1230	1230					
		5-6	3600								
1/3/2020	SP2	0-1	ND	ND	4100	4100	ND	ND	ND	ND	
		1-2	ND								
		2-3	76								
		3-4	70								
		4-5	68								
		5-6	74								



Page: 6

Table 1 - Analytical Results

[illegible]



BURNETT OIL CO., INC.

Location: _____

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Table 1 - Analytical Results

[illegible]



*Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

April 08, 2019

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

RE: Gissler B 3 3

OrderNo.: 1904045

Dear Johnny Titsworth:

Hall Environmental Analysis Laboratory received 25 sample(s) on 3/30/2019 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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1904045

Date Reported: 4/8/2019

CLIENT: Burnett Oil Co Inc**Client Sample ID:** SP1 0'-1'**Project:** Gissler B 3 3**Collection Date:** 3/28/2019**Lab ID:** 1904045-001**Matrix:** SOIL**Received Date:** 3/30/2019 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	5100	150		mg/Kg	50	4/7/2019 10:39:33 AM	44147
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	7700	960		mg/Kg	100	4/3/2019 7:08:38 PM	44043
Motor Oil Range Organics (MRO)	7300	4800		mg/Kg	100	4/3/2019 7:08:38 PM	44043
Surr: DNOP	0	70-130	S	%Rec	100	4/3/2019 7:08:38 PM	44043
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	23	4.9		mg/Kg	1	4/3/2019 8:32:05 AM	44027
Surr: BFB	322	73.8-119	S	%Rec	1	4/3/2019 8:32:05 AM	44027
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	4/3/2019 8:32:05 AM	44027
Toluene	ND	0.049		mg/Kg	1	4/3/2019 8:32:05 AM	44027
Ethylbenzene	0.54	0.049		mg/Kg	1	4/3/2019 8:32:05 AM	44027
Xylenes, Total	1.3	0.099		mg/Kg	1	4/3/2019 8:32:05 AM	44027
Surr: 4-Bromofluorobenzene	126	80-120	S	%Rec	1	4/3/2019 8:32:05 AM	44027

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	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 at testcode

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1904045

Date Reported: 4/8/2019

CLIENT: Burnett Oil Co Inc

Client Sample ID: SP1 1'-2'

Project: Gissler B 3 3

Collection Date: 3/28/2019

Lab ID: 1904045-002

Matrix: SOIL

Received Date: 3/30/2019 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	100	60		mg/Kg	20	4/4/2019 4:17:02 AM	44089

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	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 at testcode

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1904045

Date Reported: 4/8/2019

CLIENT: Burnett Oil Co Inc

Client Sample ID: SP1 2'-3'

Project: Gissler B 3 3

Collection Date: 3/28/2019

Lab ID: 1904045-003

Matrix: SOIL

Received Date: 3/30/2019 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	4100	150		mg/Kg	50	4/5/2019 1:04:13 AM	44089

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	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 at testcode

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1904045

Date Reported: 4/8/2019

CLIENT: Burnett Oil Co Inc

Project: Gissler B 3 3

Lab ID: 1904045-004

Matrix: SOIL

Client Sample ID: SP1 3'-4'

Collection Date: 3/28/2019

Received Date: 3/30/2019 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	3500	150		mg/Kg	50	4/5/2019 1:16:38 AM	44089

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	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 at testcode

Analytical Report

Lab Order 1904045

Date Reported: 4/8/2019

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Burnett Oil Co Inc**Project:** Gissler B 3 3**Lab ID:** 1904045-005**Client Sample ID:** SP1 4'-5'**Collection Date:** 3/28/2019**Received Date:** 3/30/2019 9:20:00 AM**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	1800	60		mg/Kg	20	4/4/2019 4:54:16 AM	44089

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	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 at testcode

Analytical Report

Lab Order 1904045

Date Reported: 4/8/2019

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Burnett Oil Co Inc**Project:** Gissler B 3 3**Lab ID:** 1904045-006**Client Sample ID:** SP1 5'-6'**Collection Date:** 3/28/2019**Received Date:** 3/30/2019 9:20:00 AM**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	3600	150		mg/Kg	50	4/5/2019 1:29:03 AM	44089

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	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 at test code

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1904045

Date Reported: 4/8/2019

CLIENT: Burnett Oil Co Inc

Client Sample ID: SP1 6'-7'

Project: Gissler B 3 3

Collection Date: 3/28/2019

Lab ID: 1904045-007

Matrix: SOIL

Received Date: 3/30/2019 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	3900	150		mg/Kg	50	4/5/2019 1:41:27 AM	44089

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	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 at testcode

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1904045

Date Reported: 4/8/2019

CLIENT: Burnett Oil Co Inc

Client Sample ID: SP1 7'-8'

Project: Gissler B 3 3

Collection Date: 3/28/2019

Lab ID: 1904045-008

Matrix: SOIL

Received Date: 3/30/2019 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	4400	150		mg/Kg	50	4/5/2019 1:53:52 AM	44089

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	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 at testcode

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1904045

Date Reported: 4/8/2019

CLIENT: Burnett Oil Co Inc

Client Sample ID: SP1 8'-9'

Project: Gissler B 3 3

Collection Date: 3/28/2019

Lab ID: 1904045-009

Matrix: SOIL

Received Date: 3/30/2019 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	4500	150		mg/Kg	50	4/5/2019 2:06:17 AM	44089

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	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 at testcode

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 1904045
Date Reported: 4/8/2019

CLIENT: Burnett Oil Co Inc

Client Sample ID: SP2 0'-1'

Project: Gissler B 3 3

Collection Date: 3/28/2019

Lab ID: 1904045-010

Matrix: SOIL

Received Date: 3/30/2019 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	1500	60		mg/Kg	20	4/5/2019 10:53:13 AM	44147
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: Irm
Diesel Range Organics (DRO)	12000	990		mg/Kg	100	4/3/2019 7:32:58 PM	44043
Motor Oil Range Organics (MRO)	9500	5000		mg/Kg	100	4/3/2019 7:32:58 PM	44043
Surr: DNOP	0	70-130	S	%Rec	100	4/3/2019 7:32:58 PM	44043
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	35	23		mg/Kg	5	4/3/2019 6:41:32 PM	44027
Surr: BFB	125	73.8-119	S	%Rec	5	4/3/2019 6:41:32 PM	44027
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.12		mg/Kg	5	4/3/2019 6:41:32 PM	44027
Toluene	ND	0.23		mg/Kg	5	4/3/2019 6:41:32 PM	44027
Ethylbenzene	ND	0.23		mg/Kg	5	4/3/2019 6:41:32 PM	44027
Xylenes, Total	ND	0.47		mg/Kg	5	4/3/2019 6:41:32 PM	44027
Surr: 4-Bromofluorobenzene	92.6	80-120		%Rec	5	4/3/2019 6:41:32 PM	44027

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	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 at testcode

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1904045

Date Reported: 4/8/2019

CLIENT: Burnett Oil Co Inc

Client Sample ID: SP2 1'-2'

Project: Gissler B 3 3

Collection Date: 3/28/2019

Lab ID: 1904045-011

Matrix: SOIL

Received Date: 3/30/2019 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	1300	60		mg/Kg	20	4/4/2019 6:21:08 AM	44089

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	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 at testcode

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1904045

Date Reported: 4/8/2019

CLIENT: Burnett Oil Co Inc

Client Sample ID: SP2 2'-3'

Project: Gissler B 3 3

Collection Date: 3/28/2019

Lab ID: 1904045-012

Matrix: SOIL

Received Date: 3/30/2019 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	770	60		mg/Kg	20	4/4/2019 6:33:33 AM	44089

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	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 at test code

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1904045

Date Reported: 4/8/2019

CLIENT: Burnett Oil Co Inc

Client Sample ID: SP2 3'-4'

Project: Gissler B 3 3

Collection Date: 3/28/2019

Lab ID: 1904045-013

Matrix: SOIL

Received Date: 3/30/2019 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	180	60		mg/Kg	20	4/4/2019 11:37:36 AM	44103

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	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 at testcode

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1904045

Date Reported: 4/8/2019

CLIENT: Burnett Oil Co Inc

Client Sample ID: SP2 4'-5'

Project: Gissler B 3 3

Collection Date: 3/28/2019

Lab ID: 1904045-014

Matrix: SOIL

Received Date: 3/30/2019 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	230	60		mg/Kg	20	4/4/2019 12:39:39 PM	44103

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	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 at test code

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1904045

Date Reported: 4/8/2019

CLIENT: Burnett Oil Co Inc

Client Sample ID: SP2 5'-6'

Project: Gissler B 3 3

Collection Date: 3/28/2019

Lab ID: 1904045-015

Matrix: SOIL

Received Date: 3/30/2019 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	4/4/2019 12:52:04 PM	44103

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	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 at testcode

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1904045

Date Reported: 4/8/2019

CLIENT: Burnett Oil Co Inc

Client Sample ID: SP2 6'-7'

Project: Gissler B 3 3

Collection Date: 3/28/2019

Lab ID: 1904045-016

Matrix: SOIL

Received Date: 3/30/2019 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	140	60		mg/Kg	20	4/4/2019 1:04:29 PM	44103

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	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 at testcode

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1904045

Date Reported: 4/8/2019

CLIENT: Burnett Oil Co Inc

Client Sample ID: SP2 7'-8'

Project: Gissler B 3 3

Collection Date: 3/28/2019

Lab ID: 1904045-017

Matrix: SOIL

Received Date: 3/30/2019 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	4/4/2019 1:16:53 PM	44103

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	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 at testcode

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1904045

Date Reported: 4/8/2019

CLIENT: Burnett Oil Co Inc

Client Sample ID: SP2 8'-9'

Project: Gissler B 3 3

Collection Date: 3/28/2019

Lab ID: 1904045-018

Matrix: SOIL

Received Date: 3/30/2019 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	4/4/2019 1:29:18 PM	44103

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	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 at testcode

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1904045

Date Reported: 4/8/2019

CLIENT: Burnett Oil Co Inc

Client Sample ID: SP2 9'-10'

Project: Gissler B 3 3

Collection Date: 3/28/2019

Lab ID: 1904045-019

Matrix: SOIL

Received Date: 3/30/2019 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	100	60		mg/Kg	20	4/4/2019 1:41:42 PM	44103

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	POL	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 at testcode