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
De	partment
Oil Conser	vation Division
1220 South	St. Francis Dr.
Santa Fe	e, NM 87505

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office. For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or	
Proposed Alternative Method Permit or Closure Plan Applica	tion
Type of action: \Box Below grade tank registration \Box Permit of a pit or proposed alternative method \boxtimes Closure of a pit, below-grade tank, or proposed alternative method	
Modification to an existing permit/or registration	
Closure plan only submitted for an existing permitted or non-permitted p or proposed alternative method	it, below-grade tank,
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alte	
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority of the second se	
L. Operator: Burlington Resources Oil & Gas Company, LP OGRID #: 14538	
Address: _PO BOX 4289, Farmington, NM 87499	OIL CONS. DIV DIST. 3
Facility or well name: Canyon Largo Unit 279	DIV DIST. 3
API Number: OCD Permit Number:	OCT 07 2016
U/L or Qtr/QtrA Section14 Township25N Range6W County: Rio Arriba	
Center of Proposed Design: Latitude	
Surface Owner: Kederal State Private Tribal Trust or Indian Allotment	
Image: Subsection F, G or J of 19.15.17.11 NMAC Temporary: Image: Drilling Workover Image: Drilling Image: Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drill Lined Unlined Liner type: Thickness String-Reinforced Image: Dimensions: L_x W Liner Seams: Welded Factory Other Volume: bbl J Below-grade tank: Subsection I of 19.15.17.11 NMAC	
Volume: <u>120</u> bbl Type of fluid: <u>Produced Water</u>	
Tank Construction material:Metal	
Secondary containment with leak detection 🖾 Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	
□ Visible sidewalls and liner □ Visible sidewalls only □ Other	
Liner type: Thicknessmil	
 4. Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau official 	e for consideration of approval.
5. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)	
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent reinstitution or church)	esidence, school, hospital,
Four foot height, four strands of barbed wire evenly spaced between one and four feet	
Alternate. Please specify	

Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)

Screen Netting Other

Monthly inspections (If netting or screening is not physically feasible)

Signs: Subsection C of 19.15.17.11 NMAC

12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

Signed in compliance with 19.15.16.8 NMAC

Variances and Exceptions:

7

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:
Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC

Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.

General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank	□ Yes □ No ⊠ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ⊠ NA
 Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) Written confirmation or verification from the municipality; Written approval obtained from the municipality 	Yes No
 Within the area overlying a subsurface mine. (Does not apply to below grade tanks) Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	🗌 Yes 🗌 No
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	🗌 Yes 🗌 No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	🗋 Yes 🗌 No
Below Grade Tanks	
 Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🛛 No
 Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	🗋 Yes 🛛 No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
 Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) Topographic map; Visual inspection (certification) of the proposed site 	Yes 🗌 No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes No
 Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search: Visual inspection (certification) of the proposed site	Yes No

 Within 100 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	Yes No
Temporary Pit Non-low chloride drilling fluid	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes No
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	Yes No
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, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes No
 Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗋 Yes 🗌 No
Permanent Pit or Multi-Well Fluid Management Pit	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).	
 Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
 Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	Yes No
 Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	Yes 🗋 No
 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	Yes No
10.	
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the down of the second	
attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC	
 Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC 	NMAC
Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC	
 Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC 	15.17.9 NMAC
Previously Approved Design (attach copy of design) API Number: or Permit Number:	
11. Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC	
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the down	cuments are
Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC	
 Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. 	
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19	.15.17.9 NMAC
and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC	
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	

. 1	
12. <u>Permanent Pits Permit Application Checklist</u> : Subsection B of 19.15.17.9 NMAC <i>Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the attached.</i>	documents are
 Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment 	
 Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC 	
 Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan 	
 Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC 	
 Nuisance or Hazardous Odors, including H₂S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization 	
 Monitoring and Inspection Plan Erosion Control Plan 	
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
13. <u>Proposed Closure</u> : 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.	
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F	uid Management Pit
Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems)	
In-place Burial On-site Trench Burial Alternative Closure Method	
 closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC 	
^{15.} Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. F 19.15.17.10 NMAC for guidance.	
Ground water is less than 25 feet below the bottom of the buried waste NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ Yes □ No □ NA
Ground water is more than 100 feet below the bottom of the buried waste NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
 Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	Yes No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	🗋 Yes 🗌 No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	🗆 Yes 🗌 No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	
Form C-144 Oil Conservation Division Page 4 of	6

 adopted pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality; Written approval obtained from the municipality 	
	Yes No
 Within the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	Yes No
Within an unstable area.	
 Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	Yes No
Within a 100-year floodplain. - FEMA map	Yes No
14	
16. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plane by a check mark in the box, that the documents are attached.	11 NMAC 15.17.11 NMAC
17. Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and beli	ief.
Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature:	6/00/6
19.	
``	
19. <u>Closure Report (required within 60 days of closure completion)</u> : 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not	
^{19.} <u>Closure Report (required within 60 days of closure completion)</u> : 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.	t complete this

Oil Conservation Division

22. Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print)	Crystal Walker	Title: Regulatory Coordinator			
Signature:	Gotal	Walker	Date:	10/5/16	
e-mail address:	crystal.walker@cop.com	Telephone: (505) 326-9837			

Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Closure Report

Lease Name: Canyon Largo Unit 279 API No.: 30-039-20888

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure of the below-grade tank referenced above. All proper documentation regarding closure activities is being included with the C-144.

General Plan:

 BR shall close a below-grade tank within 60 days of cessation of operations per Subsection G.4 of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, BR will file the C144 Closure Report as required.

The below-grade tank referenced above was permitted and closed within 60 days of cessation of the below-grade tanks operation.

 BR shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005), JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.

All recovered liquids were disposed of at Basin Disposal (Permit #NM-01-005) and any sludge or soil required to be removed to facilitate closure was hauled to Envirotech Land Farm (Permit #NM-01-011) and JFJ Landfarm % IEI (Permit #NM-01-0010B). The liner was cleaned per Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC was disposed of at the San Juan County Regional Landfill located on CR 3100.

 BR will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves.

The below-grade tank was disposed of in a division-approved manner.

4. If there is any on-site equipment associated with a below-grade tank, then BR shall remove the equipment, unless the equipment is required for some other purpose.

All on-site equipment associated with the below-grade tank was removed.

5. BR will test the soils beneath the below-grade tank to determine whether a release has occurred. BR shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyzed for the constituents listed in Table I of 19.15.17.13 NMAC. COPC shall notify the division of its results on form C-141.

A five point composite sample was taken of the below-grade tank using sampling tools and all samples tested per Subsection B of 19.15.17.1 3(B)(1)(b). (Sample results attached). Form C-141 is attached.

Components	ts Tests Method				
Benzene	EPA SW-846 8021B or 8260B	0.2			
BTEX	EPA SW-846 8021B or 8260B	50			
TPH	EPA SW-846 418.1	100			
Chlorides	EPA 300.0	250			

 If BR or the division determines that a release has occurred, then BR shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.

A release was not determined for the above referenced well.

 If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Table I of 19.15.17.13 NMAC, then BR shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site.

The below-grade tank area passed all requirements of Paragraph (4) of Subsection E of 19.15.17.13 NMAC and was backfilled with compacted, non-waste containing, earthen material.

- Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week via email or verbally. The notification of closure will include the following:
 - i. Operator's name
 - ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.

Notification is attached.

The surface owner shall be notified of BR's closing of the below-grade tank 72 hours, but not more than one week, prior to closure as per the approved closure plan via certified mail, return receipt requested.

The closure process notification to the landowner was sent via email. (See Attached) (Well located on Federal Land, certified mail is not required for Federal Land per BLM/OCD MOU.)

10. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be place in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.

The below-grade tank area was re-contoured to match fit, shape, line, form and texture of the surrounding area. Re-shaping including drainage control, to prevent ponding and erosion. Natural drainages were unimpeded and water bars and/or silt traps were placed in areas where needed to prevent erosion on a large scale. Final recontour has a uniform appearance with smooth surface, fitting the natural landscape.

11. BR shall seed the disturbed areas the first favorable growing season following closure of a below-grade tank. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM stipulated seed mixes will used on federally regulated lands and division-approved seed mixtures (administratively approved if required) will be utilized on all State or private lands. A uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent (50%) of pre- disturbance levels and a total percent plant cover of at least seventy percent (70%) of pre-disturbance levels, excluding noxious weeds. If alternate seed mix is required by the state, private owner or tribe, it will be implemented with administrative approval if needed. COPC will repeat seeding or planting will be continued until successful vegetative growth occurs. Provision 13 was accomplished through complying with BLM seeding requirements as allowed by the BLM/OCD MOU.

12. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material, with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.

The below-grade tank area was backfilled and more than four feet of cover was achieved and the cover included one foot of suitable material to establish vegetation at the site.

- 13. All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of the below-grade tank. Closure report will be filed on C-144 and incorporate the following:
 - Soil Backfilling and Cover Installation (See Report)
 - Re-vegetation application rates and seeding techniques (See Report)
 - Photo documentation of the site reclamation (Included as an attachment)
 - Confirmation Sampling Results (Included as an attachment)
 - Proof of closure notice (Included as an attachment)

Walker, Crystal

From:	Farrell, Larissa L
Sent:	Tuesday, March 08, 2016 3:19 PM
To:	Cory Smith; Jonathan Kelly; Katherina Diemer (kdiemer@blm.gov); mflanike@blm.gov
Cc:	GRP:SJBU Regulatory; SJBU E-Team; Fincher, Shawn S; Payne, Wendy F; Dixon, Shorell (PAC)
Subject:	Canyon Largo Unit 279 (3003920888) 72 Hour BGT Closure Notification

Subject: 72 Hour BGT Closure Notification

Anticipated Start Date: Monday, March 14, 2016

The subject well has a below-grade tank that will begin the closure process between 72 hours and one week from this notification. Please contact me at any time if you have any questions or concerns.

Well Name: Canyon Largo Unit 279

API#: 30-039-20888

Location: Unit A (NENE), Section 14, T25N, R6W, Rio Arriba, NM

Footages: 790' FNL & 1140' FEL

Operator: Burlington Resources Surface Owner: Federal (SF-078884)

Larissa Farrell Regulatory Technician San Juan Business Unit (505)326-9504 Office (918)662-6259 Fax



State of New Mexico Energy Minerals and Natural Resources

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

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

Release Notificati	on and Corr	rective A	ction			
	OPERATO	R	Initia	l Report	\boxtimes	Final Report
Name of Company Burlington Resources O&G Company, LP	Contact Crysta	l Walker				
Address 3401 East 30th St, Farmington, NM	Telephone No.	(505) 326-98	37			
Facility Name: Canyon Largo Unit 279	Facility Type: (Gas Well				
Surface Owner BLM Mineral Owner	r BLM		API No.	30-039-	20888	
LOCATI	ON OF RELE	ASE				
Unit Letter Section Township Range Feet from the Nor	th/South Line Fe	et from the	East/West Line	County		
A 14 25N 6W 790	North	1140	East	Rio Arrib	a	
Latitude	Longitude	-107.43192				
NATUR	E OF RELEA	SE				
Type of Release	Volume of Rel		Volume R			
Source of Release	Date and Hour	of Occurrenc	e Date and I	Hour of Dis	covery	
Was Immediate Notice Given?	If YES, To Wi	nom?				
By Whom?	Date and Hour					
Was a Watercourse Reached?			he Watercourse.			
Yes No		1				
If a Watercourse was Impacted, Describe Fully.* N/A Describe Cause of Problem and Remedial Action Taken.* No release was encountered during the BGT Closure.						
Describe Area Affected and Cleanup Action Taken.* N/A						
I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remed or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	e notifications and p the NMOCD marke iate contamination t	erform corrected as "Final Ro that pose a three	tive actions for rele eport" does not relie eat to ground water,	ases which eve the oper , surface wa	may en ator of ter, hu	danger liability man health
Signature: John Walker		OIL CONS	SERVATION	DIVISIC	N	
Printed Name: Crystal Walker	Approved by Env	vironmental Sp	pecialist:			
Title: Regulatory Coordinator	Approval Date:		Expiration I	Date:		
E-mail Address: crystal.walker@cop.com	Conditions of Ap	proval:		Attached		

 Date:
 Image: Color
 Phone:
 (505)
 326-9837

 * Attach Additional Sheets If Necessary

Rule Engineering, LLC

Solutions to Regulations for Industry –

April 4, 2016

Ms. Lisa Hunter ConocoPhillips San Juan Business Unit 5525 Highway 64 Farmington, New Mexico 87401

Re: Canyon Largo Unit 279 Below Grade Tank Closure Sampling Report

Dear Ms. Hunter:

This report summarizes the below grade tank (BGT) closure sampling activities conducted by Rule Engineering, LLC (Rule) at the ConocoPhillips Canyon Largo Unit 279 located in Unit Letter A, Section 14, Township 25N, Range 6W in Rio Arriba County, New Mexico. Activities included collection and analysis of a 5-point composite soil confirmation sample from beneath the BGT on March 14, 2016. A topographic map of the location is included as Figure 1 and an aerial site map is included as Figure 2.

BGT Summary

Site Name – Canyon Largo Unit 279 Location – Unit Letter A, Section 14 Township 25N, Range 6W API Number – 30-039-20888 Wellhead Latitude/Longitude – N36.40497 and W107.43179 BGT Latitude/Longitude – N36.40522 and W107.43192 Land Jurisdiction – Bureau of Land Management Size of BGT – 120 barrels Date of BGT Closure Soil Sampling – March 14, 2016

BGT Closure Standards

As outlined in 19.15.17.13 New Mexico Administrative Code (NMAC), BGT closure standards for the San Juan 29-6 #14 are as follows: 0.2 milligrams per kilogram (mg/kg) benzene, 50 mg/kg total benzene, toluene, ethylbenzene, and total xylenes (BTEX), 100 mg/kg total petroleum hydrocarbons (TPH), and 250 mg/kg chlorides.

Field Activities

On March 14, 2016, following removal of the BGT tank and liner, Rule personnel conducted a visual inspection for surface/subsurface indications of a release. No evidence of a release was observed. Rule personnel then collected five soil samples (S-1 through S-5) from 0.5 feet beneath the floor of the BGT excavation. Figure 2 provides the location of the soil samples collected from below the BGT. The field work summary sheet is attached.

Ms. Lisa Hunter Canyon Largo Unit 279 April 4, 2016 Page 2 of 3

Soil Sampling

The five soil samples (S-1 through S-5) collected from below the floor of the BGT excavation were combined to create soil confirmation sample SC-1. A portion of SC-1 was field screened for volatile organic compounds (VOCs) and chlorides, and field analyzed for TPH.

Field screening for VOC vapors was conducted with a photo-ionization detector (PID). Prior to field screening, the PID was calibrated with 100 parts per million (ppm) isobutylene gas. Field analysis for TPH was conducted per U.S. Environmental Protection Agency (USEPA) Method 418.1, utilizing a total hydrocarbon analyzer. Prior to field analysis, the machine was calibrated following the manufacturer's procedure with includes calculation of a calibration curve using known concentration standards. Field screening for chloride was conducted using the Hach chloride low range test kit. Chloride concentrations were determined by drop count titration method using silver nitrate titrant.

The portion of SC-1 collected for laboratory analysis was placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico. The sample was analyzed for BTEX per USEPA Method 8021B, TPH per USEPA Method 8015D, and chlorides per USEPA Method 300.0.

Field and Analytical Results

Field sampling results for soil confirmation sample SC-1 indicated a VOC concentration of 0.0 ppm and a TPH concentration of 21.2 mg/kg. Field chloride concentrations were reported at 40 mg/kg.

Laboratory analytical results for sample SC-1 reported benzene and total BTEX concentrations below the laboratory reporting limits of 0.024 mg/kg and 0.212 mg/kg, respectively. Laboratory analytical results for SC-1 reported TPH as gasoline range organics (GRO) and diesel range organics (DRO) concentrations below the laboratory reporting limits of 4.7 mg/kg and 9.8 mg/kg, respectively. The laboratory analytical result for chloride concentration was below the laboratory reporting limit of 30 mg/kg. Field and laboratory results for SC-1 are summarized in Table 1, and the analytical laboratory report is attached.

Conclusions

On March 14, 2016, BGT closure sampling activities were conducted at the ConocoPhillips Canyon Largo Unit 279. Field and laboratory results for confirmation sample SC-1 were reported below the BGT closure standards for benzene, total BTEX, TPH, and chlorides as outlined in 19.15.17.13 NMAC. Based on field sampling and laboratory analytical results, no release occurred from the BGT and no further work is recommended.

Rule

Ms. Lisa Hunter Canyon Largo Unit 279 April 4, 2016 Page 3 of 3

Rule Engineering appreciates the opportunity to provide services to ConocoPhillips. If you have any questions, please contact me at (505) 325-1055.

The Hites to

Sincerely, Rule Engineering, LLC

M. Woods

Heather M. Woods, P.G.

Attachments: Table 1. BGT Soil Sampling Results Figure 1. Topographic Map Figure 2. Aerial Site Map Field Work Summary Sheet Analytical Laboratory Report



Table 1. BGT Soil Sampling Results Canyon Largo Unit 279 Rio Arriba County, New Mexico ConocoPhillips

			Sample Depth	Field Sampling Results				Laborat	ory Analytical	Results	
		Sample	(ft below BGT	VOCs (PID)	TPH - 418.1	Chloride**	Benzene	Total BTEX	TPH - GRO	TPH - DRO	Chloride***
Sample ID	Date	Туре	liner)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
		BGT Clo	sure Standards*		100	250	0.2	50	10	00	250
SC-1	3/14/16	Composite	0.5	0.0	21.2	40	< 0.024	<0.212	<4.7	<9.8	<30

Notes: PID - photo-ionization detector

ppm - parts per million

mg/kg - milligrams/kilograms

VOCs - volatile organic compounds

TPH-total petroleum hydrocarbons per USEPA Method 418.1

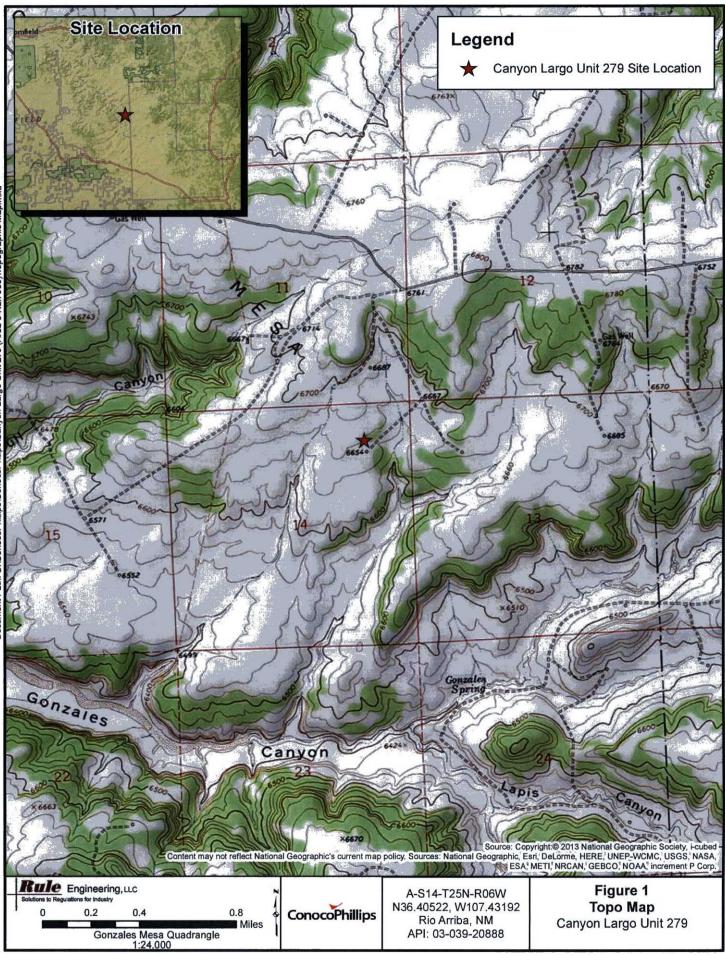
BTEX - benzene, toluene, ethylbenzene, and total xylenes

*19.15.17.13 NMAC

**Per Hach chloride low-range test kit

***Per USEPA Method 300.0 chlorides





Document Path: U:\ConocoPhillips\ConocoPhilips\Canyon Largo Unit 279 (Area 9 Run 905)\Topographic Map.mxd



Rule Engineering Field Work Summary Sheet

Canyon Largo Unit 279
anyon cargo onic 275
80-039-20888
A-S14-T25N-R06W
Rio Arriba

Date:	3/14/16
Staff:	Heather Woods
	Justin Valdez

Wellhead GPS: 36.40497, -107.43179 BGT GPS: 36.40522, -107.43192

Siting Information based on BGT Location:

Site Rank 20

Groundwater: Estimated to be approximately 100 feet below grade surface, based on a cathodic report for this well. Surface Water: Unnamed ephemeral washes are located approximately 860 feet east and 700 feet northwest of

the BGT which drain south to Gonzales Canyon.

Wellhead Protection: No water wells identified within 1,000 ft of location.

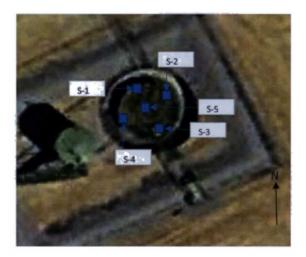
Objective:	Closure sampling for BGT
Tank Size:	120 barrels, removed during closure activities
Liner:	No liner present
Observatio	ns: No staining or excess moisture was observed below the tank.
Notes:	No NMOCD or BLM representatives were onsite during closure activities.

Field Sampling Information

Name	Type of	Collection	Collection	VOCs ¹	VOCs	TPH ²	TPH	Chloride ³	Chloride
	Sample	Time	Location	(ppm)	time	mg/kg	Time	mg/kg	Time
SC-1	Composite	11:20	See below	0.0	11:22	21.2	11:45	40	11:44

SC-1 is a 5-point composite of S-1 through S-5, collected 0.5 ft below BGT.

Sample SC-1 was laboratory analyzed for TPH (8015), BTEX (8021) and chlorides (300.0).



Field Sampling Notes:

¹ Field screening for volatile organic compounds (VOC) vapors was conducted with a photo-ionization detector (PID). Before beginning field screening, the PID was calibrated with 100 parts per million (ppm) isobutylene gas.

² Field analysis for TPH was conducted using a total hydrocarbon analyzer. Prior to field analysis, the machine was calibrated following the manufacturer's procedure which includes calculation of a calibration curve using known concentration standards.

³Field screening for chlorides was conducted using the Hach chloride low range test kit. Chloride concentrations are determined by drop count titration method using silver nitrate titrant.





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

March 23, 2016

Heather Woods Rule Engineering LLC 501 Airport Dr., Ste 205 Farmington, NM 87401 TEL: (505) 325-1055 FAX

RE: CoP Canyon Largo Unit 279

OrderNo.: 1603739

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/15/2016 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 <u>www.hallenvironmental.com</u> 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 qualifers 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 #NM0190

Sincerely,

andie

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Lab Order 1603739

Date Reported: 3/23/2016

Hall Environmental Analysis Laboratory, Inc.

 CLIENT: Rule Engineering LLC
 Client Sample ID: SC-1

 Project:
 CoP Canyon Largo Unit 279
 Collection Date: 3/14/2016 11:20:00 AM

 Lab ID:
 1603739-001
 Matrix: SOIL
 Received Date: 3/15/2016 8:00:00 AM

 Analyses
 Pol
 Ouel
 Units
 DE
 Date Analysed
 Patch

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LGT
Chloride	ND	30	mg/Kg	20	3/22/2016 12:57:52 AM	24365
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANIC	s			Analyst	JME
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	3/17/2016 10:55:04 AM	24274
Surr: DNOP	95.3	70-130	%Rec	1	3/17/2016 10:55:04 AM	24274
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/16/2016 12:24:41 PM	24254
Surr: BFB	109	66.2-112	%Rec	1	3/16/2016 12:24:41 PM	24254
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	3/16/2016 12:24:41 PM	24254
Toluene	ND	0.047	mg/Kg	1	3/16/2016 12:24:41 PM	24254
Ethylbenzene	ND	0.047	mg/Kg	1	3/16/2016 12:24:41 PM	24254
Xylenes, Total	ND	0.094	mg/Kg	1	3/16/2016 12:24:41 PM	24254
Surr: 4-Bromofluorobenzene	114	80-120	%Rec	1	3/16/2016 12:24:41 PM	24254

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	в	Analyte detected in the associated Method Blank		
	D	Sample Diluted Due to Matrix	E	Value above quantitation range		
	н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 5		
	ND	ND Not Detected at the Reporting Limit		Sample pH Not In Range		
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit		
	S	% Recovery outside of range due to dilution or matrix	w	Sample container temperature is out of limit as specified		

Hall Environmental Analysis Laboratory, Inc.

Client: Rule Engineering LLC Project: CoP Canyon Largo Unit 279

Sample ID MB-24365	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 24365	RunNo: 32963								
Prep Date: 3/21/2016	Analysis Date: 3/21/2016	SeqNo: 1011048 Units: mg/Kg								
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qu								
Chloride	ND 1.5	2) 								
and the second second second		TestCode: EPA Method 300.0: Anions								
Sample ID LCS-24365	SampType: LCS	TestCode: EPA Method 300.0: Anions								
	SampType: LCS Batch ID: 24365	TestCode: EPA Method 300.0: Anions RunNo: 32963								
Client ID: LCSS										
	Batch ID: 24365 Analysis Date: 3/21/2016	RunNo: 32963								

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

t

- R RPD outside accepted recovery limits
- 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

WO#: 1603739

23-Mar-16

Page 2 of 5

Client: Project:		Engineering L Canyon Largo		79								
Sample ID	MB-24274	SampT	ype: ME	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID:	PBS	Batch	ID: 24	274	RunNo: 32861							
Prep Date:	3/16/2016	Analysis D	ate: 3/	17/2016	5	eqNo: 1	007389	Units: mg/h	٢g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range (Organics (DRO)	ND	10		0.00							
Surr: DNOP		10		10.00		101	70	130				
Sample ID	LCS-24274	SampT	s	Tes	Code: El	PA Method	8015M/D: Di	esel Rang	e Organics			
Client ID:	LCSS Batch ID: 24274				RunNo: 32861							
Prep Date:	3/16/2016	Analysis D	ate: 3/	17/2016	s	eqNo: 1	007391	Units: mg/k	(g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range (Organics (DRO)	51	10	50.00	0	103	65.8	136	Read and a			
Surr: DNOP		4.3		5.000		86.0	70	130				
Sample ID	1603739-0014	AMS SampT	ype: MS	3	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID:	SC-1	Batch	ID: 24	274	F	unNo: 3	2861					
Prep Date:	3/16/2016	Analysis D	ate: 3/	17/2016	s	eqNo: 1	007402	Units: mg/h	(g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range (Organics (DRO)	45	9.5	47.66	0	93.5	31.2	162				
Surr: DNOP		3.8		4.766		80.0	70	130				
Sample ID	1603739-001	AMSD SampT	ype: MS	SD	Tes	Code: El	PA Method	8015M/D: Di	esel Rang	e Organics		
Client ID:	SC-1	Batch	ID: 24	274	F	unNo: 3	2861					
Prep Date:	Date: 3/16/2016 Analysis Date: 3/17/2016				5	SeqNo: 1007416 Units: mg/Kg						

Hall Environmental Analysis Laboratory, Inc.

Result

46

4.0

PQL

9.8

SPK value SPK Ref Val

0

48.83

4.883

Qualifiers:

Analyte

Surr: DNOP

Diesel Range Organics (DRO)

- 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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range

%REC

93.5

80.9

LowLimit

31.2

70

- 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

%RPD

2.43

0

HighLimit

162

130

RPDLimit

31.7

0

Page 3 of 5

Qual

WO#: 1603739

23-Mar-16

Hall Environmental Analysis Laboratory, Inc.

10 10 10 10 10 10 10 10 10 10 10 10 10 1	ineering LLC yon Largo Unit 2	:79									
Sample ID MB-24254	SampType: N	IBLK	Tes	TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 2	4254	F	RunNo: 3	2841						
Prep Date: 3/15/2016	Analysis Date:	3/16/2016	5	SeqNo: 1	006583	Units: mg/K	g				
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 1000	1000		104	66.2	112					
Sample ID LCS-24254	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e					
Client ID: LCSS	Batch ID: 2	4254	RunNo: 32841								
Prep Date: 3/15/2016	Analysis Date:	3/16/2016	s	SeqNo: 1	006584	Units: mg/K	g				
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	24 5.0	25.00	0	97.9	80	120					
Surr: BFB	1100	1000		111	66.2	112					
Sample ID 1603739-001AMS	SampType: N	IS	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e			
Client ID: SC-1	Batch ID: 2	4254	F	RunNo: 3	2841						
Prep Date: 3/15/2016	Analysis Date:	8/16/2016	S	SeqNo: 1	006586	Units: mg/K	g				
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	27 5.0	24.75	0	108	59.3	143					
Surr: BFB	1200	990.1		119	66.2	112			S		

Sample ID	1603739-001AMSD	SampTy	pe: MS	SD	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	e	
Client ID: SC-1 Batch ID: 24254 Prep Date: 3/15/2016 Analysis Date: 3/16/2016		RunNo: 32841									
		Analysis Date: 3/16/2016		SeqNo: 1006587			Units: mg/Kg				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	e Organics (GRO)	30	5.0	24,80	0	123	59.3	143	12.9	20	1
Surr: BFB		1200		992.1		122	66.2	112	0	0	S

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
- R RPD outside accepted recovery limits
- 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

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WO#: 1603739

23-Mar-16

Hall Environmental Analysis Laboratory, Inc	Hall	Environmental	Analysis	Laboratory, 1	Inc.
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	ngineering L anyon Largo		9											
Sample ID MB-24254	ample ID MB-24254 SampType: MBLK					TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch	h ID: 24	254	F	RunNo: 3	2841								
Prep Date: 3/15/2016	Analysis D	Date: 3/	16/2016	S	SeqNo: 1	006591	Units: mg/H	٢g						
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												
Kylenes, Total	ND	0.10												
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120							
Sample ID LCS-24254	SampT	ype: LC	s	Tes	TestCode: EPA Method 8021B: Volatiles									
Client ID: LCSS	Batch	h ID: 24	254	F	RunNo: 3	2841								
Prep Date: 3/15/2016	Analysis D	Date: 3/	16/2016	S	SeqNo: 1	006592	Units: mg/H	(g						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	1.1	0.025	1.000	0	107	80	120							
Toluene	1.0	0.050	1.000	0	101	80	120							
Ethylbenzene	1.0	0.050	1.000	0	102	80	120							
(ylenes, Total	3.1	0.10	3.000	0	102	80	120							
Surr: 4-Bromofluorobenzene	1.2		1.000		116	80	120							

Qualifiers:

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

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WO#: 1603739

23-Mar-16

ENVIRONMENTAL ANALYSIS LABORATORY TEL: 505-	onmental Analysis 4901 / Albuquerque 345-3975 FAX- 50 z www.hallenviron	Hawkins Ni . NM 8710 5-345-410	sam	ole Log-In Check List
Client Name: RULE ENGINEERING LL Work Order	Number: 16037	39		RoptNo: 1
Received by/date: A OXIE	<u>د</u> ـــــ			
Logged By: Lindsay Mangin 3/15/2016 8:00	MA 00:0	6	Julip	
Completed By: Lindsay Mangin 3/15/2016 12:	44:52 PM	l	-ymp	
Chain of Custody				
1. Custody seals intact on sample bottles?	Yes		No 🗌	Not Present
2. Is Chain of Custody complete?	Yes		No 🗌	Not Present
3. How was the sample delivered?	Couri	er		
Log In				
4. Was an attempt made to cool the samples?	Yes	\checkmark	No 🗌	
5. Were all samples received at a temperature of >0° C to 6.0	0°C Yes	✓	No 🗌	
6. Sample(s) in proper container(s)?	Yes		No 🗆	
7. Sufficient sample volume for indicated test(s)?	Yes	V	No 🗆	
8. Are samples (except VOA and ONG) properly preserved?	Yes	V	No	
9. Was preservative added to bottles?	Yes		No 🗹	NA 🗆
10.VOA viais have zero headspace?	Yes		No 🗌	No VOA Vials
11. Were any sample containers received broken?	Yes		No 🗹	# of preserved bottles checked
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes	V	No 🗆	for pH: (<2 or >12 unless noted
13. Are matrices correctly identified on Chain of Custody?	Yes		No 🗆	Adjusted?
14, is it clear what analyses were requested?	Yes		No 🗌	
 Were all holding times able to be met? (If no, notify customer for authorization.) 	Yes		No 🗆	Checked by:
Special Handling (if applicable)				
16. Wes client notified of all discrepancies with this order?	Yes		No 🗆	NA 🗹
Person Notified:	Date			
By Whom: Regarding:	Via: 🗌 eMa	il 🗌 Ph	one 🗌 Fax	In Person
Client Instructions:			_	
17. Additional remarks:				
18. Cooler Information Cooler No Temp *C Condition Seal Intact Sea	al No Seal Da	ite 1	Signed By	I
1 2.9 Good Yes				

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