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.

<u>Pit, Below-Grade Tank,</u> Proposed Alternative Method Permit or Clo		ion
14439 Type of action: Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed Modification to an existing permit/or registratio Closure plan only submitted for an existing permit or proposed alternative method	alternative method	EIVED illalobos at 9:54 am, Dec 30, 2015
Instructions: Please submit one application (Form C-144) per individual p Please be advised that approval of this request does not relieve the operator of liability should operation environment. Nor does approval relieve the operator of its responsibility to comply with any other app	ns result in pollution of surface	water, ground water or the
1. Operator: Burlington Resources Oil & Gas Company, LP OGRID #:14538 Address: PO BOX 4289, Farmington, NM 87499 Facility or well name: RHODES C 101 API Number: 30-045-28964 OCD Permit Number:	by 19.15.17.13 NM	ed Standards outline AC. Please submit a der 19.15.29 NMAC BGT Closed Prior
U/L or Qtr/Qtr <u>N</u> Section <u>30</u> Township <u>28 N</u> Range <u>11 W</u> Center of Proposed Design: Latitude <u>36.626418 N</u> Longitude <u>-108.046451 W</u> N Surface Owner: Federal State Private Tribal Trust or Indian Allotment		to Closure Plan Approval
 2. Pit: Subsection F, G or J of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation P&A Multi-Well Fluid Management Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC String-Reinforced Liner Seams: Welded Factory Other Volume: 	Other	
Volume: 120 bbl Type of fluid: Produced Water Tank Construction material: Metal Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and and Visible sidewalls and liner Visible sidewalls only Other	BGT's on location. This pe utomatic overflow shut-off SPECIFIED	ermit for North BGT.
 4. Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe 	Environmental Bureau office	for consideration of approval.
 s. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and Chain link, six feet in height, two strands of barbed wire at top (Required if located within institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify 		idence, school, hospital,

(y)

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

Screen Netting Other

6.

7.

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:

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 Burcau office for consideration of approval.

9. <u>Siting Criteria (regarding permitting)</u> : 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable source
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. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	🗌 Yes 🗌 No
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	1
 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; Acrial 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 doc 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 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.10 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 	cuments are 9 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 dot attached. 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 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:	.15.17.9 NMAC

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 c</i>	locuments are
attached. 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 Certificd 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 Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Revention and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including II ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
^{13,} <u>Proposed Closure</u> : 19.15.17.13 NMAC <i>Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.</i> Type: □ Drilling □ Workover □ Emergency □ Cavitation □ P&A □ Permanent Pit □ Below-grade Tank □ Multi-well Fl	uid Management Pit
Alternative 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	
 ^{14.} <u>Waste Excavation and Removal Closure Plan Checklist</u>: (19.15.17.13 NMAC) Instructions: Each of the following items must be a 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 	nttached to the
15. <u>Siting Criteria (regarding on-site closure methods only)</u> : 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. P 19.15.17.10 NMAC for guidance.	ce material are lease refer to
 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 □ NA
 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 □ NA
 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	🗌 Ycs 🗌 No
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.								
- Written confirmation or verification from the municipality; Written approval obtained from the municipality	□ Ycs □ 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	🗌 Ycs 🗌 No							
Within a 100-year floodplain. - FEMA map	Yes No							
 ^{16.} <u>On-Site Closure Plan Checklist</u>: (19.15.17.13 NMAC) <i>Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.</i> Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC 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 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved) Soil Cover Design - 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 								
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 believed.								
Name (Print): Title:								
Signature: Date:								
The backware								
e-mail address: Telephone:								
18. <u>OCD Approval</u> : Permit Application (including closure plan) Closure Plan (only). OCD Conditions (see attachment) Se	ee Front Page							
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only). OCD Conditions (see attachment) See attachment) OCD Representative Signature:	ee Front Page							
18. <u>OCD Approval</u> : Permit Application (including closure plan) Closure Plan (only). OCD Conditions (see attachment) Se	ee Front Page							
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only). OCD Conditions (see attachment) See attachment) OCD Representative Signature:	ee Front Page 2016							
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only). OCD Conditions (see attachment) See OCD Representative Signature:	ee Front Page 2016							
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only). OCD Conditions (see attachment) See OCD Representative Signature:	ee Front Page 2016 g the closure report. t complete this							

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): Kelly G. Roberts Title: Regulatory Technician
Signature: 204 G. Patt Date: 12/14/15
e-mail address: Kelly.Roberts@cop.com Telephone: (505) 326-9775

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

Lease Name: RHODES C 101 API No.: 30-045-28964

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.

3. 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	Tests Method	Limit (mg/kg)
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

6. 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 determined for the above referenced well.

7. 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.

- 8. 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 of closure was not provided to the Aztec Division office between 72 hours and one week prior to closure.

9. 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 not found.

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)

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office to accordance with 19.15.29 NMAC.

Santa Fe, NM 87505 Release Notification and Corrective Action

		OPERATOR		Initial Report	\boxtimes	Final Report
Name of Company Burlington Resources, a W	holly Owned	Contact Lisa Hunter				
Subsidiary of ConocoPhillips Company						
Address 3401 East 30th St, Farmington, NM		Telephone No. (505) 258-1607				
Facility Name: Rhodes C #101		Facility Type: Gas Well				
			- T -	DT.).	0.41	
Surface Owner Tribal – Navajo Nation	Mineral Owner	Federal	A	PI No. 3004528	1964	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County	
N	30	28N	11W	100'	South	2270	West	San Juan	

Latitude <u>36.62641</u> Longitude -<u>108.04645</u> (North BGT) Latitude <u>36.62637</u> Longitude -<u>108.04648 (South BGT)</u>

NATURE OF RELEASE

Type of Release Hydrocarbon	Volume of Release Unknown	Volume Recovered None
Source of Release (2) Below Grade Tank (BGT) Closures	Date and Hour of Occurrence	Date and Hour of Discovery
North & South BGTs	Unknown	12-30-13
Was Immediate Notice Given?	If YES, To Whom?	
🗌 Yes 🔲 No 🖾 Not Required	N/A	
By Whom? N/A	Date and Hour N/A	
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	atercourse.
🗌 Yes 🛛 No	N/A	
If a Watercourse was Impacted, Describe Fully.*		
N/A		
D 1 0 CD 11 and D and the Astron Taken *		
Describe Cause of Problem and Remedial Action Taken.* Below-Grade Tank Closure activities with samples taken resulting in	a constituents exceeded standards of	utlined by 10 15 17 13 NMAC
Below-Grade Tank Closure activities with samples taken resulting in	constituents exceeded standards of	atimed by 19.13.17.15 RWAC.
Describe Area Affected and Cleanup Action Taken.*		
NMOCD action levels for releases are specified in NMOCD's Guideli	ines for Leaks. Spills and Releases a	and the release was assigned a ranking
score of 0. Samples were collected and analytical results are below a	nnlicable NMOCD action levels. N	o further work will be performed. The
final report is attached for review.		
I hereby certify that the information given above is true and complete to	the best of my knowledge and underst	and that pursuant to NMOCD rules and
regulations all operators are required to report and/or file certain release i	notifications and perform corrective a	ctions for releases which may endanger
public health or the environment. The acceptance of a C-141 report by the	ne NMOCD marked as "Final Report"	does not relieve the operator of liability
should their operations have failed to adequately investigate and remedia	te contamination that pose a threat to	ground water, surface water, human health
or the environment. In addition, NMOCD acceptance of a C-141 report of	does not relieve the operator of respor	sibility for compliance with any other
federal, state, or local laws and/or regulations.		
	OIL CONSER	VATION DIVISION
		2
John Ht		
Signature;	Approved by Environmental Special	ist:
Printed Name: Lisa Hunter		
Title, Field Fundamental Specialist	Approval Date:	Expiration Date:
Title: Field Environmental Specialist	Approval Date,	
E-mail Address: Lisa.Hunter@cop.com	Conditions of Approval:	
E-man Audress, Elsa,munter(acop.com	Conditions of Approval.	Attached
Date: December 14, 2015 Phone: (505) 258-1607		

* Attach Additional Sheets If Necessary



Lindsay Dumas

ConocoPhillips

www.animasenvironmental.com

624 E. Comanche Farmington, NM 87401 505-564-2281

> Durango, Colorado 970-403-3084

January 23, 2014

San Juan Business Unit Office 214-07 5525 Hwy 64 Farmington, New Mexico 87401

Via electronic mail to: SJBUE-Team@ConocoPhillips.com

RE: **Below Grade Tank Closure Report** Rhodes C #101 San Juan County, New Mexico

Dear Ms. Dumas:

Animas Environmental Services, LLC (AES) is pleased to provide the final report associated with two below grade tank (BGT) closures at ConocoPhillips (CoP) Rhodes C #101, located in San Juan County, New Mexico. Removal of both tanks had been completed by CoP contractors prior to AES' arrival at the location.

Site Information 1.0

1.1 Location

Site Name – Rhodes C #101 Legal Description - SE¼ SW¼, Section 30, T28N, R11W, San Juan County, New Mexico Well Latitude/Longitude - N36.62619 and W108.04624, respectively North BGT Latitude/Longitude - N36.62641 and W108.04645, respectively

South BGT Latitude/Longitude – N36.62637 and W108.04648, respectively

Land Jurisdiction - Bureau of Land Management Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, December 2013

1.2 NMOCD Ranking

In accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases (August 1993), the location was given a ranking score of 0 based on the following factors:

Lindsay Dumas Rhodes C #101 BGT Closure Report January 23, 2014 Page 2 of 6

- Depth to Groundwater: A cathodic report form dated January 1994 reported dampness at 65 feet below ground surface (bgs) and fresh water at 350 feet bgs. (0 points)
- Wellhead Protection Area: The tank locations are not within a wellhead protection area. (0 points)
- Distance to Surface Water Body: The wash is Horn Canyon is located approximately 3,500 feet east of the location. (0 points)

1.3 BGT Closure Assessment

AES was initially contacted by Dan Rudder, CoP representative, on December 30, 2013, and on December 31, 2013, Deborah Watson and Jesse Christopherson of AES mobilized to the location. AES personnel collected six soil samples from below each BGT liner. Four samples were collected from the perimeter of each BGT footprint, one sample was collected from the center of each BGT footprint, and one sample was composited from the four perimeter samples and one center sample of each BGT.

2.0 Soil Sampling

On December 31, 2013, AES personnel conducted field screening and collected ten soil samples (S-1 through S-10) and two 5-point composites (SC-1 and SC-2) from below the BGTs. Soil samples were collected from approximately 0.5 feet below the former BGTs for field screening of volatile organic compounds (VOCs) and total petroleum hydrocarbon (TPH). Soil samples SC-1 and SC-2 were field screened for VOCs and chlorides and were submitted for confirmation laboratory analysis. Soil sample locations are included on Figure 2.

2.1 Field Screening

2.1.1 Volatile Organic Compounds

A portion of each sample was utilized for field screening of VOC vapors with a photoionization detector (PID) organic vapor meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

2.1.2 Total Petroleum Hydrocarbons

Soil samples were also analyzed in the field for TPH per USEPA Method 418.1 using a Buck Scientific Model HC-404 Total Hydrocarbon Analyzer Infrared Spectrometer (Buck). A 3-point calibration was completed prior to conducting soil analyses. Field analytical protocol followed AES's *Standard Operating Procedure: Field Analysis Total Petroleum Hydrocarbons per EPA Method 418.1*.

Lindsay Dumas Rhodes C #101 BGT Closure Report January 23, 2014 Page 3 of 6

2.1.3 Chlorides

Soil samples SC-1 and SC-2 were field screened for chlorides using Chloride Drop Count Titration with silver nitrate. Sampling and analysis methods followed procedures provided by Hach Company.

2.2 Laboratory Analyses

The composite soil samples SC-1 and SC-2 collected for laboratory analysis were each placed into a new, clean, laboratory-supplied container, which was then labeled, placed on ice, and logged onto a sample chain of custody record. Each sample was maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. Soil samples SC-1 and SC-2 were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B; and
- Chloride per USEPA Method 300.0.

In addition, sample SC-1 was laboratory analyzed for:

 TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015D.

2.3 Field and Laboratory Analytical Results

North BGT field screening readings for VOCs via OVM were each measured at 0.0 ppm. Field TPH concentrations ranged from 28.2 mg/kg in S-2 up to 109 mg/kg in S-3. The field chloride concentration in SC-1 was 80 mg/kg.

South BGT field screening readings for VOCs via OVM were also each measured at 0.0 ppm. TPH concentrations ranged from 24.1 mg/kg in S-7 up to 43.0 mg/kg in S-8. The field chloride concentration in SC-2 was 80 mg/kg. Field screening results are summarized in Table 1 and presented on Figure 2. The AES Field Screening Reports are attached.

Lindsay Dumas Rhodes C #101 BGT Closure Report January 23, 2014 Page 4 of 6

Sample ID	Date Sampled	Depth below BGT (ft)	VOCs OVM Reading (ppm)	Field TPH (mg/kg)	Field Chlorides (mg/kg)
NMOCD Action L				100	250
S-1 (North)	12/31/13	0.5	0.0	41.6	NA
S-2 (North)	12/31/13	0.5	0.0	28.2	NA
S-3 (North)	12/31/13	0.5	0.0	109	NA
S-4 (North)	12/31/13	0.5	0.0	60.5	NA
S-5 (North)	12/31/13	0.5	0.0	55.1	NA
SC-1 (North)	12/31/13	0.5	0.0	NA	80
S-6 (South)	12/31/13	0.5	0.0	36.2	NA
S-7 (South)	12/31/13	0.5	0.0	24.1	NA
S-8 (South)	12/31/13	0.5	0.0	43.0	NA
S-9 (South)	12/31/13	0.5	0.0	33.5	NA
S-10 (South)	12/31/13	0.5	0.0	26.8	NA
SC-2 (South)	12/31/13	0.5	0.0	NA	80

Table 1. Soil Field Screening VOCs, TPH, and Chloride Results Rhodes C #101 BGT Closure. December 2013

NA - not analyzed

Laboratory analytical results reported benzene and total BTEX concentrations in SC-1 as less than 0.035 mg/kg and 0.175 mg/kg, respectively. TPH concentrations as GRO and DRO were reported at less than 3.5 mg/kg and 9.9 mg/kg, respectively. The laboratory chloride concentration was reported at 270 mg/kg.

In SC-2, laboratory analytical results reported benzene and total BTEX concentrations as less than 0.035 mg/kg and 0.176 mg/kg, respectively. The laboratory chloride concentration was reported at 660 mg/kg. Laboratory analytical results are summarized in Table 2 and included on Figure 2. The laboratory analytical report is attached.

Lindsay Dumas Rhodes C #101 BGT Closure Report January 23, 2014 Page 5 of 6

			Soil Labora #101 BGT C	S (20)			
Sample ID	Date Sampled	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH- GRO (mg/kg)	TPH- DRO (mg/kg)	Chlorides (mg/kg)
	NMOCD Action Level (NMAC 19.15.17.13E)		0.2	50	100		250
SC-1 (North)	12/31/13	0.5	<0.035	<0.175	<3.5	<9.9	270
SC-2 (South)	12/31/13	0.5	<0.035	<0.176	NA	NA	660
IA - not a	nalyzed				_		

3.0 Conclusions and Recommendations

NMOCD action levels for BGT closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13E. For the north BGT, field TPH concentrations exceeded the NMOCD action level of 100 mg/kg in one sample, S-3, with 109 mg/kg; however, laboratory analytical results for TPH (as GRO/DRO) in SC-1 were reported below the NMOCD action level of 100 mg/kg. For the south BGT, field TPH concentrations were below the NMOCD action level of 100 mg/kg, with the highest concentration reported in S-8 with 43.0 mg/kg. Benzene and total BTEX concentrations in SC-1 and SC-2 were below the NMOCD action levels of 0.2 mg/kg and 50 mg/kg, respectively.

Chloride concentrations in SC-1 and SC-2 were reported above the NMOCD action level of 250 mg/kg; however, on January 2, 2014, CoP received approval to backfill the BGTs from Brandon Powell of the NMOCD. Based on field screening and laboratory analytical results for benzene, total BTEX, TPH, and chlorides, no further work is recommended at Rhodes C #101.

If you have any questions about this report or site conditions, please do not hesitate to contact Deborah Watson at (505) 564-2281.

Sincerely,

David & Reme

David J. Reese Environmental Scientist

Lindsay Dumas Rhodes C #101 BGT Closure Report January 23, 2014 Page 6 of 6

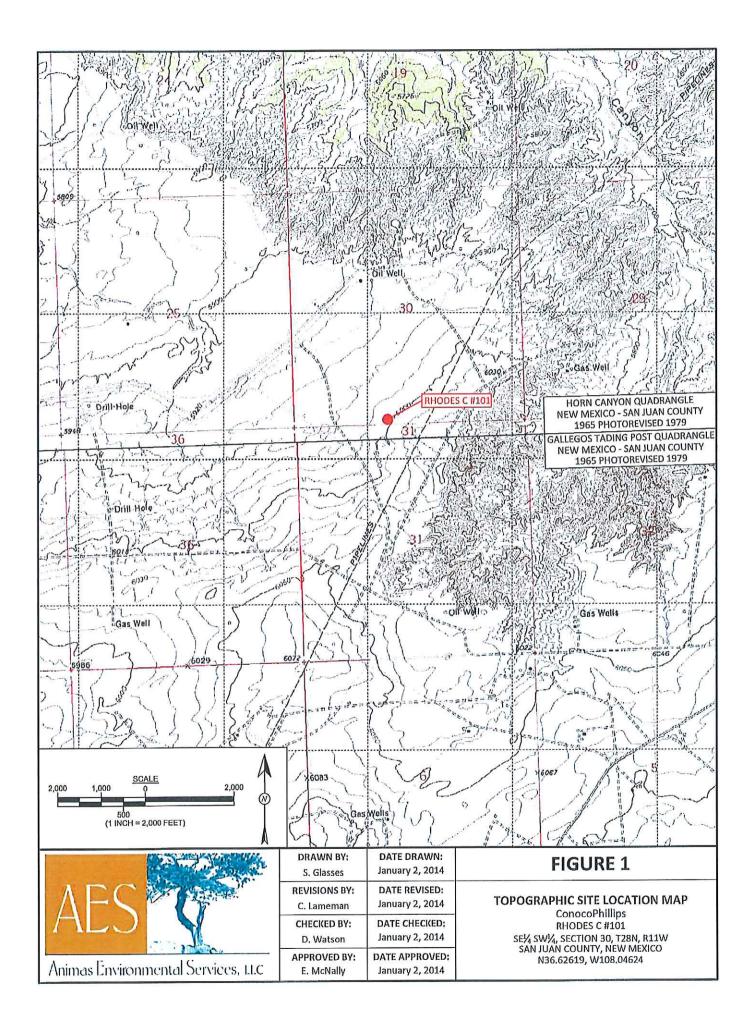
Elizabeth V Mendly-

Elizabeth McNally, P.E.

Attachments:

Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, December 2013 AES Field Screening Report 123113 Hall Analytical Report 1401004

R:\Animas 2000\Dropbox\0000 Animas Server Dropbox EM\2014 Projects\ConocoPhillips\Rhodes C #101\Rhodes C #101 BGT Closure Report 012314.docx



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	Field Scr	eening R OVM-			1			311		12 the	SAN	APLE LOCAT	ION
Sample ID	Date	PID (ppm)	TPH (mg/kg)	Chlorides (mg/kg)	. Ø - j			the.		ian in	No.		N. A.
NMOCD AC	TION LEVEL		100	250			Front Se	· · · ·	5	A The		- Anne	-
S-1	12/31/13	0,0	41,6	NA	Non the			Laborato	ry Analytica	al Results	A AND THE	A DECK	7
S-2	12/31/13	0.0	28.2	NA NA				Benzene	Total	ТРН -	TPH -	Chlorides	
S-3 S-4	12/31/13 12/31/13	0.0	109 60.5	NA		Sample ID	Date	(mg/kg)	BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	(mg/kg)	
S-5	12/31/13	0.0	55.1	NA	A - Martin	NMOCD ACT	ION LEVEL	0,2	(mg/kg) 50		00	250	-
SC-1	12/31/13	0.0	NA	80	and the second second	SC-1	12/31/13	<0.035	<0.175	<3.5	<9.9	270	
S-6 S-7	12/31/13 12/31/13	0.0	36.2 24.1	NA NA	253	SC-2	12/31/13	<0.035	<0.176	NA	NA	660	
S-8	12/31/13	0.0	43.0	NA	4 - 1	SC-1 WAS AN SC-2 WAS AN	ALYZED PER	EPA METH	OD 8021B, 3 OD 8021B A	ND 300.0.	300,0,		
S-9	12/31/13	0,0	33.5	NA	1	and and	State of the	THE PARTY	1-1-2-2-3-	The local diversion	San Area .		
S-10 SC-2	12/31/13 12/31/13	0.0	26.8 NA	NA 80			No. of Concession, Name	States and	- Kill	an a sta	Here and the second		
5C-1 IS A 5-PC					Carlon .		100	al all	4. 4.4-1			Charles a	
NA - NOT AN			A STATE	S S- S-9	5-5 -4 10	55 1	N36.63 W108 S-3 S-2	2641 .04645					ALL STR
				- N36,62637 W108,04648	B	557 577 5 C #101 WELL	MONUMEN	Π					のない
				- N36,62637	B		MONUMEN	I		いていたのでは、			になったちまってもなったとうと
20	SCALE 0 NCH = 40 FEE	うちたいであることもないである。		₩108,04648	RHODE	57 5 C H101 WELL 2013 GOOGLE EA	DECORS RTH, AERIAL D	TEOCOLO ATE: JUNE 10,	2011				にないたちくわれたためになっていた
20	10	うちたいであることもないである。		₩108,04648		57 5 C #101 WELL 5 C #101 WELL 2013 GOOGLE EAL 1 BY: DA	() écais	NERCE JUNE 10,	2011	FIGU	JRE 2		に見ないであったものでは、このことにも
20 (1)	10	うちたいであることもないである。				ST HIOI WELL S C HIOI WELL 2013 GOOGLE EAU 1 BY: DA ses Jan 15 BY: DA man Jan D BY: DAT son Jan	Dizotis RTH, AERIAL DI TE DRAWN:	ATE: JUNE 10, ATE: JUNE 10, 4 1 1 1 4	BELO	AERIAL W GRADE DECEM Conoc RHODE	JRE 2 SITE MARE TANIK CL BER 2013 oPhillips S C #101 ON 30, T28N	LOSURE	にないたちともなった。このことにも

AES Field Screening Report



Animas Environmental Services, LLC

www.animasenvironmental.com

624 E. Comanche Farmington, NM 87401 505-504-2281

Project Location: Rhodes C #101 North BGT

Date: 12/31/2013

Matrix: Soil

Client: ConocoPhillips

Durango, Colorado 970-405-3084

НдТ	Analysts Initials	DAW	DAW	DAW	DAW	DAW	
	DF	1	1	1	1	1	ЬН
	TPH PQL (mg/kg)	20.0	20.0	20.0	20.0	20.0	Not Analyzed for TPH
	Field TPH* (mg/kg)	41.6	28.2	109	60.5	55.1	Not.
Field TPH	Analysis Time	12:34	12:36	12:38	12:40	12:42	
Field	Chloride (mg/kg)	NA	NA	NA	NA	NA	80
	(mqq)	0.0	0.0	0.0	0.0	0.0	0.0
	Sample Locations	North	South	East	West	Center	Composite
Time of	Sample Collection	11:40	11:41	11:43	11:44	11:45	12:00
	Collection Date	12/31/2013	12/31/2013	12/31/2013	12/31/2013	12/31/2013	12/31/2013
	Sample ID	S-1	S-2	S-3	S-4	S-5	SC-1

Dilution Factor	Not Analyzed	Not Detected at the Reporting Limit	Practical Quantitation Limit	*Field TPH concentrations recorded may be below PQL.
DF	NA	ND	PQL	*Field TPH conce

Field Chloride - Quantab Chloride Titrators or Drop Count Titration with Silver Nitrate Total Petroleum Hydrocarbons - USEPA 418.1

NUMMAN WITT Analyst:

Page 1 Report Finalized: 12/31/13

AES Field Screening Report



Animas Environmental Services. LLC

www.animasenvironmental.com

624 E. Comanche Farmington, NM *5740*1 505-564-2261

Project Location: Rhodes C #101 South BGT

Date: 12/31/2013

Matrix: Soil

Client: ConocoPhillips

Durango, Colorado 870-403-3084

		Time of			Field	Field TPH				НЧТ
Sample ID	Collection Date	Sample Collection	Sample Location	(mqq)	Chloride (mg/kg)	Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	Analysts Initials
S-6	12/31/2013		North	0.0	NA	12:45	36.2	20.0	1	DAW
S-7	12/31/2013	11:48	South	0.0	NA	12:47	24.1	20.0	н	DAW
S-8	12/31/2013	11:50	East	0.0	NA	12:49	43.0	20.0	1	DAW
S-9	12/31/2013	11:52	West	0.0	NA	12:51	33.5	20.0	1	DAW
S-10	12/31/2013	11:54	Center	0.0	NA	12:53	26.8	20.0	1	DAW
SC-2	12/31/2013	12:05	Composite	0.0	80		Not.	Not Analyzed for TPH	He	

Field Chloride - Quantab Chloride Titrators or Drop Count Titration with Silver Nitrate Total Petroleum Hydrocarbons - USEPA 418.1

NUMBER NUT Analyst:

PQL Practical Quantitation Limit *Field TPH concentrations recorded may be below PQL.

Not Detected at the Reporting Limit

NA ND

Dilution Factor Not Analyzed Page 1 Report Finalized: 12/31/13



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

January 07, 2014

Debbie Watson Animas Environmental 624 East Comanche Farmington, NM 87401 TEL: (505) 486-4071 FAX

RE: COP Rhodes C #101

OrderNo.: 1401004

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 1/2/2014 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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1401004

Date Reported: 1/7/2014

Hall Environmental Analysis Laboratory, Inc.

			CI	lient Samj	ole ID: SC	-1	
roject: COP Rhodes C #101			-	Collection	Date: 12/	/31/2013 12:00:00 PM	
ab ID: 1401004-001	Matrix:	MEOH (S	OIL)	Received	Date: 1/2	/2014 9:57:00 AM	
nalyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE C	RGANICS					Analyst	BCN
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/2/2014 12:11:01 PM	11053
Surr: DNOP	86.6	66-131		%REC	1	1/2/2014 12:11:01 PM	11053
EPA METHOD 8015D: GASOLINE RANG	E					Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	1/2/2014 12:03:16 PM	R15860
Surr: BFB	90.5	74.5-129		%REC	1	1/2/2014 12:03:16 PM	R15860
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.035		mg/Kg	1	1/2/2014 12:03:16 PM	R15860
Toluene	ND	0.035		mg/Kg	1	1/2/2014 12:03:16 PM	R15860
Ethylbenzene	ND	0.035		mg/Kg	1	1/2/2014 12:03:16 PM	R15860
Xylenes, Total	ND	0.070		mg/Kg	1	1/2/2014 12:03:16 PM	R15860
Surr: 4-Bromofluorobenzene	102	80-120		%REC	1	1/2/2014 12:03:16 PM	R15860
EPA METHOD 300.0: ANIONS						Analyst	: JRR
Chloride	270	30		mg/Kg	20	1/2/2014 12:05:40 PM	11057

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
	Е	Value above quantitation range	Н	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit Page 1 of 6
	0	RSD is greater than RSDlimit	р	Not Detected at the Reporting Limit Page 1 of 6 Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Analytical Report Lab Order 1401004 Date Reported: 1/7/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Project: COP Rhodes C #101			Client Sampl Collection		2-2 /31/2013 12:05:00 PM	
Lab ID: 1401004-002	Matrix:	MEOH (SOIL)	Received	Date: 1/2	2/2014 9:57:00 AM	
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.035	mg/Kg	1	1/2/2014 12:31:52 PM	R15860
Toluene	ND	0.035	mg/Kg	1	1/2/2014 12:31:52 PM	R15860
Ethylbenzene	ND	0.035	mg/Kg	1	1/2/2014 12:31:52 PM	R15860
Xylenes, Total	ND	0.071	mg/Kg	1	1/2/2014 12:31:52 PM	R15860
Surr: 4-Bromofluorobenzene	105	80-120	%REC	1	1/2/2014 12:31:52 PM	R15860
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	660	30	mg/Kg	20	1/2/2014 12:18:04 PM	11057

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
	Е	Value above quantitation range	Н	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit Page 2 of 6
	0	RSD is greater than RSDlimit	Р	Not Detected at the Reporting Limit Page 2 of 6 Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:		s Environment thodes C #101	al								
Sample ID M	NB-11057	SampTy	pe: ME	BLK	Tes	Code: El	PA Method	300.0: Anion	S		
Client ID: P	PBS	Batch I	ID: 11	057	R	unNo: 1	5874				
Prep Date:	1/2/2014	Analysis Da	te: 1/	2/2014	S	eqNo: 4	57878	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID L	.CS-11057	SampTy	pe: LC	S	Tes	Code: EF	PA Method	300.0: Anion	s		
Client ID: L	.CSS	Batch	ID: 11	057	R	unNo: 1	5874				
Prep Date:	1/2/2014	Analysis Da	te: 1/	2/2014	S	SeqNo: 4	57879	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	92.2	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pII greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

WO#: 1401004

07-Jan-14

Page 3 of 6

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Animas Environmental

Client:

Project:	COP Rho	des C #10	1								
Sample ID	MB-11053	SampT	ype: MI	BLK	Tes	tCode: El	PA Method	8015D: Diese	I Range C	Organics	
Client ID:	PBS	Batch	ID: 11	053	F	unNo: 1	5837				
Prep Date:	1/2/2014	Analysis D	ate: 1	/2/2014	5	SeqNo: 4	57353	Units: mg/K	g		
		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte		ND	10		SFR Rei Vai	MILLO	LOWLINI	riigheiniit		TA DEan	Quui
•	Organics (DRO)		10	10.00		80.9	66	131			
Surr: DNOP		8.1		10.00		00.9	00	131			
Sample ID	LCS-11053	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Diese	l Range C	Organics	
Client ID:	LCSS	Batch	ID: 11	053	F	RunNo: 1	5837				
Prep Date:	1/2/2014	Analysis D	ate: 1	/2/2014	5	SeqNo: 4	57354	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	59	10	50.00	0	117	60.8	145			
Surr: DNOP		4.5		5.000		89.4	66	131			
Sample ID	1401004-001AMS	SampT	ype: M	S	Tes	tCode: El	PA Method	8015D: Diese	l Range C	Organics	
Client ID:	SC-1	Batch	ID: 11	053	F	RunNo: 1	5837				
Prep Date:	1/2/2014	Analysis D	ate: 1	/2/2014	e	SeqNo: 4	57425	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Organics (DRO)	48	10		0	95.8	47.4	148			
Surr: DNOP		4.5		5.005		89.2	66	131			
Sample ID	1401004-001AMSI	D SampT	vne: M	SD	Tes	tCode: El	PA Method	8015D: Diese	l Range (Organics	
Client ID:	SC-1		ID: 11			RunNo: 1				nen de 1995 - Stander Mari	
									2		
Prep Date:	1/2/2014	Analysis D	ate: 1	/2/2014	5	SeqNo: 4	57514	Units: mg/K	9		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

0

98.5

90.5

47.4

66

148

131

2.76

0

22.7

0

50.05

5.005

49

4.5

10

Qualifiers:

Diesel Range Organics (DRO)

Surr: DNOP

- * Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits J
- RSD is greater than RSDlimit 0
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits S
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded П
- ND Not Detected at the Reporting Limit
- Sample pH greater than 2 for VOA and TOC only. Р

1401004 07-Jan-14

WO#:

Page 4 of 6

Reporting Detection Limit RL

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 1401004

> 07-Jan-14 - 0

	Environmer odes C #10									
Sample ID MB-11036 MK	SampT	ype: ME	BLK	Tes	ICode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch	D: R1	5860	F	RunNo: 1	5860				
Prep Date:	Analysis D	ate: 1/	2/2014	5	SeqNo: 4	57683	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB					92.4	74.5	129			
Sample ID LCS-11036 MK	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID: LCSS	Batch	1D: R1	5860	F	RunNo: 1	5860				
Prep Date:	Analysis D	ate: 1/	2/2014	5	SeqNo: 4	57684	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLImit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	112	74.5	126			
Surr: BFB	1000		1000		103	74.5	129			

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- Value above quantitation range Е
- Analyte detected below quantitation limits J
- 0 RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits S
- В Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Sample pH greater than 2 for VOA and TOC only. Р
- RL **Reporting Detection Limit**

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- Н

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

Client:	Animas I	Environme	ntal								
Project:	COP Rho	odes C #10	1								
Sample ID M	B-11036 MK	SampT	ype: ME	зlk	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PI	BS	Batch	n ID: R1	5860	F	RunNo: 1	5860				
Prep Date:		Analysis D	ate: 1/	2/2014	5	SeqNo: 4	57821	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.050								
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Bromoflu	uorobenzene	1.1		1.000		106	80	120			
Sample ID LC	CS-11036 MK	SampT	ype: LC	S	TestCode: EPA Method 8021B: Volatiles				tiles		
Client ID: LO	CSS	Batch	1D: R1	5860	F	RunNo: 1	5860				
Prep Date:		Analysis D	ate: 1/	2/2014	5	GegNo: 4	57822	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.1	0.050	1.000	0	113	80	120			
Toluene		1.1	0.050	1.000	0	110	80	120			
Ethylbenzene		1.1	0.050	1.000	0	111	80	120			
Xylenes, Total		3.3	0.10	3.000	0	110	80	120			
Surr: 4-Bromoflu	eneznedorou	1.1		1.000		114	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

WO#: 1401004

07-Jan-14

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental A Albuq TEL: 505-345-3975 F Website: www.halla	4901 uerqu AX: 5	Hawkins e, NM 87. 05-345-4.	^{NE} 105 Sam	Sample Log-In Check List							
Client Name: Animas Environmental V	Vork Order Number: 1	14010	04		ReptNo:	1						
Received by/date:	02/14											
Logged By: Lindsay Mangin 1/2/	/2014 9:57:00 AM			Andightugo								
Completed By: Lindsay Mangin 1/2/	/2014 10:01:48 AM			Junky Hluppo								
Reviewed By: X3 OLOZ/14												
Chain of Custody												
1. Custody seals intact on sample bottles?		Yes		No 🗌	Not Present 🗹							
2, Is Chain of Custody complete?		Yes	\checkmark	No 🗆	Not Present 🛛							
3. How was the sample delivered?		<u>Cour</u>	<u>er</u>									
<u>Log In</u>												
4. Was an attempt made to cool the samples?		Yes	V	No 🗆	NA 🗆							
5. Were all samples received at a temperature of \Rightarrow	>0° C to 6.0°C	Yes	\checkmark	No 🗀	NA 🗆							
6. Sample(s) in proper container(s)?		Yes		No 🗌								
7. Sufficient sample volume for indicated test(s)?		Yes		No 🗆								
8. Are samples (except VOA and ONG) properly pr	eserved?	Yes	\checkmark	No 🗆								
9. Was preservative added to bottles?		Yes		No 🗹	NA 🗆							
10.VOA vials have zero headspace?		Yes		No 🗆	No VOA Vials 🗹							
11. Were any sample containers received broken?		Yes		No 🗹 🛛	# of preserved							
12, Does paperwork match bottle labels?		Yes	V	No 🗔	bottles checked for pH:							
(Note discrepancies on chain of custody)				·	(<2 o Adjusted?	r >12 unless noted)						
13. Are matrices correctly Identified on Chain of Cus	100000 T	Yes Yes		No 🗆 No 🗖								
14, is it clear what analyses were requested? 15.Were all holding times able to be met?					Checked by:	· · · · · · · · · · · · · · · · · · ·						
(If no, notify customer for authorization.)		101202	55	L								
<u>Special Handling (if applicable)</u>					8							
16. Was client notified of all discrepancies with this of	order?	Yes		No 🗆	NA 🗹							
Person Notified:	Date:		- angurat	TOTESTISHIMATATI								
By Whom:	Via:	eMa	II 🗌 PI	hone 🗌 Fax	In Person							
Regarding:		it me same										
Client Instructions:	**************************************			-1112-1-114-1-1-144-1-14	an manage and a star of a star with the star							
17. Additional remarks:												
18. <u>Cooler Information</u>	WANGS DE BERKERN STOLE	-CENTRA	TRAFIC									
Cooler No. Femp C. Condition Seal 1	ntact///Seal(No?) (A)Se	anDa	IG YAP DAS	signeo/Hyaiwa								

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USI ENVIDONMENTAL	ANALYSIS LABORATORY	www.hallenvironmental.com	Albuquerque, NM 87109	Fax 505-345-4107	Analysis Request			2 년	1 808 (1	_໑ ∀୦/ รอ∣	1,10 (A(1-1r	M 8 AA7DA Anions (F, 6 8260B (VC 8250 (Sem 8270 (Sem 300, 0 C 7 0, 0 C		X						20 Phillips	Weer: Blowle	one : 21	II be clearly notated on the analytical report
		www.ha	4901 Hawkins NE -	Tel. 505-345-3975		(ʎju	IM /Q	ତ୍ୟ ସ	H9T 0//0 (1.8 (1.4	1 20 41 9 4 1 7 1 7	IBT bor bor	втех + та: втех + М трн (Мећ Пра (Мећ СВ) (Мећ	XXX	X -						Remarks: Bul to CoveroPhillip	ND : 10350338	act code: 1110 Supr. Date Catlego	ssibility. Any sub-contracted data
I ULTI-Around Time:	C Standard Rush Styne dary	Project Name:	CoP Rhades C #101	Project #.		Project Manager:		D Watzon	Sampler: D Watson			ner Preservative nd # Type	(1) 402 non how	Much -002				 	 		Received by: And Did I LIVEN - 40 CM	>	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited taboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
Chain-of-Custody Record	Client ANIMUS ENVIYON MENTAL		24 E Comanche		504 2281		QA/QC Package:	KStandard D Level 4 (Full Validation)	Accreditation	(ma)		Date Time Matrix Sample Request ID	2-31-13 1200 Soil 80-1	1						Time: R	Date: Time: Relinquished by:		If necessary, samples submitted to Hall Environmental may be subc

Rhodes C 101

