District I
1625 N. French Dr., Hobbs, NM 88240
811 S First St Artesia NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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	Dian Application
Proposed Alternative Method Permit or Closu	re Plan Application
Type of action: Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alter Modification to an existing permit/or registration Closure plan only submitted for an existing permitted	ernative method ed or non-permitted pit, below-grade tank,
or proposed alternative method	
Please be advised that approval of this request does not relieve the operator of liability should operations re environment. Nor does approval relieve the operator of its responsibility to comply with any other application	elow-grade tank or atternative request esult in pollution of surface water, ground water or the ble governmental authority's rules, regulations or ordinances.
1. Operator: <u>Burlington Resources Oil & Gas Company, LP</u> OGRID #: <u>14538</u> Address: <u>PO POX 4280</u> Fermineter NPA 87400	OIL CONS. DIV DIST
Address: O BOX 4289, Parmington, NMI 87499 Facility or well name: SAN JUAN 29-4 UNIT 21 – TANK 2 (WEST)	DEC 1 4 2016
API Number: OCD Permit Number: U// or Otr/Otr K Section 5 Township 20N Porce 4W	County Pio Arriba
U/L of Qtr/Qtr <u>K</u> Section <u>5</u> Townsinp <u>29N</u> Range <u>4w</u>	$_$ County. $\underline{\text{KO ATHOR}}$
Surface Owner: X Federal C State Private Tribal Trust or Indian Allotment	
<u>Pit:</u> Subsection F, G or J of 19.15.17.11 NMAC	
Temporary: Drilling Workover	
Permanent Emergency Cavitation P&A Multi-Well Fluid Management	Low Chloride Drilling Fluid 🗌 yes 🔲 no
Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC O	ther
String-Reinforced	
Liner Seams: Welded Factory Other Volume:bbl	Dimensions: Lx Wx D
3. Relow grade tent: Subsection L of 19 15 17 11 NMAC	
Volume: 120 bbl Type of fluid: Produced Water	
Tank Construction material: Metal	
Secondary containment with leak detection X Visible sidewalls, liner, 6-inch lift and autom	natic overflow shut-off
□ Visible sidewalls and liner □ Visible sidewalls only □ Other	
Liner type: Thickness mil 🗌 HDPE 🗌 PVC 🖾 OtherUNSPECIFIED	D
4.	
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Envi	ironmental Bureau office for consideration of approval.
5.	
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and be	elow-grade tanks)
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 100 institution or church)	0 feet of a permanent residence, 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.

9. 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	🗌 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 do 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 Previously Approved Design (attach copy of design) API Number: or Permit Number: or Permit Number:	IMAC cuments are D NMAC 15.17.9 NMAC
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 19.15.17.9 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:	cuments are .15.17.9 NMAC

 Permanent Pits Permit Application 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 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 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 Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Muisance 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 19.15.17.9 NMAC and 19.15.17.13 NMAC 	documents are
13. Proposed Closure: 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 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	luid Management Pit
 Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be 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 	attached 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. If 19.15.17.10 NMAC for guidance.	rce material are Please 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	🗌 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	D

- 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
 16. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure play a check mark in the box, that the documents are attached. 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 Subsection E 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. Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19. 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 cann 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 	an. Please indicate, 11 NMAC 15.17.11 NMAC tot be achieved)
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:	
e-mail address: Telephone: <u>OCD Approva</u> l: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date:Approval Date:	9106
e-mail address: Telephone: <u>OCD Approval</u> : Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: Approval Date: Title: OCD Permit Number: 19.	6/9016
e-mail address:	the closure report.
e-mail address: Telephone:	the closure report.
e-mail address: Telephone:	the closure report. 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)	Crystal Walker	Title:	Regulatory Coordinator			
Signature:	Gotel	Wal	Ker	Date:	12/2/14	
e-mail address:	crystal.walker@cop.com	Telephone:	(505)_326-9837		,	

Ana

ConocoPhillips Company San Juan Basin: New Mexico Assets Below Grade Tank Closure Report

Lease Name: San Juan 29-4 Unit 21 - Tank 2 API No.: 30-039-21453

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 Requirements:

.

 Prior to initiating any BGT closure, except in the case of an emergency, COPC will notify the surface owner of the intent to close the BGT by certified mail no later than 72 hours or one week before closure and a copy of this notification will be included in the closure report. In the case of an emergency, the surface owner will be notified as soon as practical.

The surface owner was notified by email of the closure process and the notification is attached.

- Notice of closure will be given to the Division District Office between 72 hours and one week of the scheduled closure via email or phone. The notification of closure will include the following:
 - a. Operators Name
 - b. Well Name and API Number
 - c. Location

Notification is attached.

 All liquids will be removed from the BGT following cessation of operation. Produced water will be disposed of at one of COP's approved Salt Water Disposal facilities or at a Division District Office approved facility.

All recovered liquids were disposed of at an approved SWD facility or an approved Division District Office facility within 60 days of cessation of operation.

 Solids and sludge's will be shoveled and/or vacuumed out for disposal at one of the Division District Office approved facilities, depending on the proximity of the BGT site: Envirotech Land Farm (Permit #NM-01-011), JFJ Land Farm % Industrial Ecosystems Inc. (Permit #NM-01-0010B), and Basin Disposal (Permit #NM-01-005).

Any sludge or soil required to be removed to facilitate closure was transported to Envirotech Land Farm (Permit # NM-01-011) and/or JFJ Landfarm % IEI (Permit# NM-01-0010B).

Revised 10/14/2015

5. COPC will obtain prior approval from Division District Office to dispose, recycle, reuse, or reclaim the BGT and provide documentation of the disposition of the BGT in the closure report. Steel materials will be recycled or reused as approved by the Division District Office. Fiberglass tanks will be empty, cut up or shredded, and EPA cleaned for disposal as solid waste. Liner materials will be cleaned without soils or contaminated material for disposal as solid waste. Fiberglass tanks and liner materials will meet the conditions of 19.15.35 NMAC. Disposal will be at a licensed disposal facility, presently San Juan County Landfill operated by Waste Management under NMED Permit SWM-052426.

The below-grade tank was disposed of in a division-approved manner. The liner was cleaned per 19.15.35.8.C(1)(m) NMAC and disposed of at the San Juan County Regional Landfill located on CR 3100.

6. Any equipment associated with the BGT that is no longer required for some other purpose, following the closure, will be removed.

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

- 7. Following removal of the tank and any liner material, COPC will test the soils beneath the BGT as follows:
 - a. At a minimum, a five-point composite sample will be taken to include any obvious stained or wet soils or any other evidence of contamination.
 - b. The laboratory sample shall be analyzed for the constituents listed in Table I of 19.15.17.13.

A five point composite sample was taken of the below-grade tank using sampling tools and all samples tested per Table I of 19.15.17.13 and the results are attached.

 If the Division District Office and/or COPC determine there is a release, COPC will comply with 19.15.17.13.C.3b.

A release was not determined for the above referenced well.

9. Upon completion of the tank removal, pursuant to 19.15.17.13.C.3c, if all contaminant concentrations are less than or equal to the parameters listed in Table I of 19.15.17.13 NMAC, the excavation will be backfilled with non-waste earthen material compacted and covered with a minimum of one foot top soil or background thickness whichever is greater and to existing grade. The surface will be re-contoured to match the native grade and to prevent ponding.

The tank removal area passed all requirements of Table I of 19.15.17.13 NMAC and was backfilled with compacted, non-waste containing, earthen material which included at least one foot of suitable material to establish vegetation at the site.

10. For those portions of the former BGT area no longer required for production activities, COPC will seed the disturbed area the first favorable growing season after the BGT is covered. Seeding will be accomplished via drilling on the contour whenever practical, or by other Division District Office approved methods. COPC will notify the Division District Office when reclamation and re-vegetation is complete.

Reclamation of the BGT shall be considered complete when:

- Vegetative cover reflects a life form ratio of +/- 50% of pre disturbance levels.
- Total percent plant cover of at least 70% of pre-disturbance levels (Excluding noxious weeds) OR
- Pursuant to 19.15.17.13.H.5d COPC will comply with obligations imposed by other applicable federal or tribal agencies in which there re-vegetation and reclamation requirements provide equal or better protection of fresh water, human health and the environment.

Provision 10 will be accomplished pursuant to 19.15.17.H.5d and notification will be submitted upon completion.

11. For those portions of the former BGT area required for production activities, reseeding will be done at well abandonment, and following the procedure noted above.

The former BGT area is not required for production activities and reseeding will be completed per the procedure noted above.

Closure Report:

All closure activities will include proper documentation and will be submitted to OCD within 60 days of the BGT closure on a Closure Report using Division District Office Form C-144. The Report will include the following:

- Proof of Closure Notice (surface owner and Division District Office) (Attached)
- Backfilling & cover installation (See Report)
- Confirmation Sampling Analytical Results (Attached)
- Application Rate & Seeding techniques (See Report)
- Photo Documentation of Reclamation (Attached)

Revised 10/14/2015

Walker, Crystal

From:	Roberts, Kelly G
Sent:	Monday, July 18, 2016 12:48 PM
То:	Cory Smith; Fields, Vanessa, EMNRD; Katherina Diemer (kdiemer@blm.gov); McKinney
	John (jmckinne@blm.gov); Porter Mike (mgporter@blm.gov)
Cc:	Trujillo, Fasho D; Busse, Dollie L; Roberts, Kelly G; Farrell, Juanita R; GRP:SJBU Regulatory;
	Jones, Lisa; SJBU E-Team
Subject:	72 Hour BGT Closure Notification

Subject: 72 Hour BGT Closure Notification

Anticipated Start Date: Thursday July 21, 2016, 10:00 am

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: SAN JUAN 29-4 UNIT 21

API#: 30-039-21453

Location: Unit K (NE/SW), Section 5, T29N, R4W, Rio Arriba County, New Mexico

Footages: 1715' FSL & 1785' FWL

Operator: Burlington Resources Oil & Gas Co.

Surface Owner: BLM (SF-079756-A)

Kelly G. Roberts

ConocoPhillips Co. Rockies Business Unit San Juan Asset Regulatory Technician 505-326-9775 505-330-7921

Rule Engineering, LLC

Solutions to Regulations for Industry -

November 11, 2016

Mr. Robert Spearman ConocoPhillips San Juan Business Unit 5525 Highway 64 Farmington, New Mexico 87401

Re: San Juan 29-4 #21 Below Grade Tank Closure Sampling Report

Dear Mr. Spearman:

This report summarizes the below grade tank (BGT) closure sampling activities conducted by Rule Engineering, LLC (Rule) at the ConocoPhillips San Juan 29-4 #21 located in Unit Letter K, Section 5, Township 29N, Range 4W in Rio Arriba County, New Mexico. Activities included collection and analysis of a 5-point composite soil confirmation sample from beneath the BGT on July 21, 2016. Note that the BGT closure activities were conducted on the same day as BGT closure and site assessment activities for a second BGT on the same location; details of the activities for the second BGT are included in a separate report. 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 – San Juan 29-4 #21 Location – Unit Letter K, Section 5, Township 29N, Range 4W API Number – 30-039-21453 Wellhead Latitude/Longitude – N36.75199 and W107.27896 BGT Latitude/Longitude – N36.75171 and W107.27923 Land Jurisdiction – U.S. Forest Service Size of BGT – 95 barrels Date of BGT Closure Soil Sampling – July 21, 2016

BGT Closure Standards

As outlined in 19.15.17.13 New Mexico Administrative Code (NMAC), BGT closure standards for the San Juan 29-4 #21 are as follows: 10 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 600 mg/kg chlorides.

Field Activities

On July 21, 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

¹⁰⁵⁵ Kipling Street, Lakewood, CO 80215 / 501 Airport Drive #205, Farmington, NM 87401 (303) 431-8500 : Fax: (303) 431-3750 : www.ruleengineering.com : (505) 325-1055

Mr. Robert Spearman San Juan 29-4 #21 November 11, 2016 Page 2 of 3

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.

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 West Tank. A portion of sample SC-1 West Tank 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 sample SC-1 West Tank 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 418.1 and 8015D, and chlorides per USEPA Method 300.0.

Field and Analytical Results

Field sampling results for soil confirmation sample SC-1 West Tank indicated a VOC concentration of 1.5 ppm and a TPH concentration below the reporting limit of 20 mg/kg. Field chloride concentrations were reported at 60 mg/kg.

Laboratory analytical results for sample SC-1 West Tank reported benzene and total BTEX concentrations below the laboratory reporting limits of 0.025 mg/kg and 0.224 mg/kg, respectively. Laboratory analytical results for sample SC-1 West Tank reported the TPH concentrations below the laboratory reporting limit of 19 mg/kg by USEPA Method 418.1, below the laboratory reporting limit of 4.8 mg/kg as gasoline range organics per USEPA Method 8015D, and below the laboratory reporting limit of 10 mg/kg DRO by USEPA Method 8015D. The laboratory analytical result for sample SC-1 West Tank for chloride concentration was below the laboratory reporting limit of 30 mg/kg. Field and laboratory report is attached.

Conclusions

On July 21, 2016, BGT closure sampling activities were conducted at the ConocoPhillips San Juan 29-7 #21. Field and laboratory results for confirmation



Mr. Robert Spearman San Juan 29-4 #21 November 11, 2016 Page 3 of 3

sample SC-1 West Tank 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 Engineering appreciates the opportunity to provide services to ConocoPhillips. If you have any questions, please contact me at (505) 325-1055.

Sincerely, Rule Engineering, LLC

M. Wood

Heather M. Woods, P.G. Area Manager/Geologist

Rule

Attachments:

Table 1. BGT Soil Sampling ResultsFigure 1. Topographic MapFigure 2. Aerial Site MapField Work Summary SheetAnalytical Laboratory Report

Table 1. BGT Soil Sampling Results ConocoPhillips San Juan 29-4 #21 Rio Arriba County, New Mexico

	1	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Sample Depth	Field Sampling Results			Laboratory Analytical Results					
		Sample	(ft below BGT	VOCs (PID)	TPH - 418.1	Chloride**	Benzene	Total BTEX	TPH - GRO	TPH - DRO	TPH - 418.1	Chloride***
Sample ID	Date	Туре	liner)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
		BGT Clo	sure Standards*	N	100	600	10	50	N	E	100	600
SC-1 West Tank	7/21/16	Composite	0.5	1.5	<20	60	<0.025	<0.224	<5.0	<10	<19	<30

Notes: PID - photo-ionization detector

ppm - parts per million

mg/kg - milligrams/kilograms VOCs - volatile organic compounds

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

TPH - total petroleum hydrocarbons GRO - gasoline range organics DRO - diesel range organics NE - not established







Rule Engineering Field Work Summary Sheet

Siting Information based on BGT Location:

Company:	ConocoPhillips
Location:	San Juan 29-4 #21 (West Tank)
API:	30-039-21453
Legals:	K-S5-T27N-R4W
County:	Rio Arriba
Land Jurisd	iction: U.S. Forest Service

Date: 7/21/16 Staff: Heather Woods

Wellhead GPS: 36.75199, -107.27896 BGT GPS: 36.75171, -107.27923

10

Site Rank

Groundwater: Estimated to be greater than 100 feet below grade surface, based on elevation differential

between the location and nearby drainages.

Surface Water: An unnamed, ephemeral wash traverses the area approximately 800 feet to the east of the location, which drains to Mesteñas Canyon.

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

 Objective:
 Closure sampling for BGT

 Tank Size:
 95 barrels, removed during closure activities

 Liner:
 Liner present, removed during closure activities

 Observations:
 Moisture present below liner similar to surrounding area due to recent precipitation.

 Notes:
 Notes:

Field Sampling Information

Name	Type of Sample	Collection Time	Collection Location	VOCs ¹ (ppm)	VOCs time	TPH ² mg/kg	TPH Time	Chloride ³ mg/kg	Chloride Time
SC-1 West									
Tank	Composite	10:20	See below	1.5	10:24	<20	11:00	60	10:56

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

Sample SC-1 West Tank was laboratory analyzed for TPH (8015 and 418.1), 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

July 29, 2016

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

RE: CoP San Juan 29-4 #21

OrderNo.: 1607B45

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/22/2016 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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analy	vtical	Re	nort

Lab Order 1607B45

Date Reported: 7/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC Project: CoP San Juan 29-4 #21

1607B45-001

Lab ID:

Client Sample ID: SC-1 West Tank Collection Date: 7/21/2016 10:20:00 AM Received Date: 7/22/2016 7:20:00 AM

Analyses	Result	PQL Qua	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH					Analyst	MAB
Petroleum Hydrocarbons, TR	ND	19	mg/Kg	1	7/27/2016	26576
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	30	mg/Kg	20	7/27/2016 5:23:15 PM	26662
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	5			Analyst	TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	7/26/2016 6:45:52 PM	26595
Surr: DNOP	86.8	70-130	%Rec	1	7/26/2016 6:45:52 PM	26595
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/23/2016 3:28:54 PM	26549
Surr: BFB	102	80-120	%Rec	1	7/23/2016 3:28:54 PM	26549
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	7/23/2016 3:28:54 PM	26549
Toluene	ND	0.050	mg/Kg	1	7/23/2016 3:28:54 PM	26549
Ethylbenzene	ND	0.050	mg/Kg	1	7/23/2016 3:28:54 PM	26549
Xylenes, Total	ND	0.099	mg/Kg	1	7/23/2016 3:28:54 PM	26549
Surr: 4-Bromofluorobenzene	94.6	80-120	%Rec	1	7/23/2016 3:28:54 PM	26549

Matrix: SOIL

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 6
	ND	Not Detected at the Reporting Limit	Р	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 LLCProject:CoP San Juan 29-4 #21

Sample ID MB-26662	SampType: mbll Batch ID: 2666	npType: mblk TestCode: EPA Method atch ID: 26662 RunNo: 36034						
Prep Date: 7/27/2016	Analysis Date: 7/27	7/2016	SeqNo: 1	116047	Units: mg/K g	9		
Analyte	Result PQL S	SPK value SPK	Ref Val %REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND 1.5							
	and the second sec							
Sample ID LCS-26662	SampType: Ics		TestCode: E	PA Method	300.0: Anions	i		
Sample ID LCS-26662 Client ID: LCSS	SampType: Ics Batch ID: 2666	2	TestCode: E RunNo: 3	PA Method 6034	300.0: Anions	i		
Sample ID LCS-26662 Client ID: LCSS Prep Date: 7/27/2016	SampType: Ics Batch ID: 2666 Analysis Date: 7/27	52 7/2016	TestCode: E RunNo: 3 SeqNo: 1	PA Method 6034 116048	300.0: Anions Units: mg/Kg)		
Sample ID LCS-26662 Client ID: LCSS Prep Date: 7/27/2016 Analyte	SampType: Ics Batch ID: 2666 Analysis Date: 7/27 Result PQL S	2 7/2016 SPK value SPK	TestCode: E RunNo: 3 SeqNo: 1 Ref Val %REC	PA Method 6034 116048 LowLimit	300.0: Anions Units: mg/Kg HighLimit	9 %RPD	RPDLimit	Qual

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#: 1607B45

29-Jul-16

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 1607B45

29-Jul-16

Client:	Rule Eng	ineering LL	С								
Project:	CoP San	Juan 29-4 #2	21								
Sample ID M	IB-26576	SampTyp	e: ME	BLK	Tes	stCode: E	PA Method	418.1: TPH	-		
Client ID: P	BS	Batch I	D: 26	576	1	RunNo: 3	6017				
Prep Date:	7/25/2016	Analysis Dat	e: 7/	27/2016	;	SeqNo: 1	115494	Units: mg/M	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrod	carbons, TR	ND	20					~			
Sample ID L	CS-26576	SampTyp	e: LC	s	Tes	tCode: E	PA Method	418.1: TPH		*	2 2
Client ID: L	CSS	Batch I	D: 26	576	I	RunNo: 3	6017				
Prep Date:	7/25/2016	Analysis Dat	e: 7/	27/2016	:	SeqNo: 1	115495	Units: mg/k	g		
Analyte	-	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrod	carbons, TR	110	20	100.0	0	114	80.7	121			1.
Sample ID L	CSD-26576	SampTyp	e: LC	SD	Tes	tCode: El	PA Method	418.1: TPH	18		
Client ID: L	CSS02	Batch I	D: 26	576	Ĩ	RunNo: 3	6017				
Prep Date:	7/25/2016	Analysis Dat	e: 7/	27/2016		SeqNo: 1	115496	Units: mg/K	g		
Analyte	* . 3	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrod	carbons, TR	120	20	100.0	0	120	80.7	121	4.94	20	

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
 - Sample pH Not In Range
- RL Reporting Detection Limit

Ρ

W Sample container temperature is out of limit as specified

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: 1607B45

29-Jul-16

Client: Rule Project: CoP	Engineering LI San Juan 29-4 #	LC #21							×	â
Sample ID LCS-26595	SampTy	pe: LC	S	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	ID: 26	595	F	RunNo: 3	5982				
Prep Date: 7/25/2016	Analysis Da	ate: 7/	26/2016	S	SeqNo: 1	115124	Units: mg/H	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.8	62.6	124		-	
Surr: DNOP	5.0		5.000		99.3	70	130	а 4		
Sample ID MB-26595	SampTy	/pe: ME	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	e .
Client ID: PBS	Batch	ID: 26	595	F	RunNo: 3	5982				
Prep Date: 7/25/2016	Analysis Da	ate: 7/	26/2016	S	SeqNo: 1	115125	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	11		10.00		106	70	130			

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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W Sample containe

WO#: 1607B45

29-Jul-16

Hall	Environmental	Analysis	Labora	tory, Inc.	•
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Client:	Rule Eng	gineering L	LC								
Project:	CoP San	Juan 29-4	#21		5	* ⁴ ×		a.			
Sample ID	MB-26549	Samp	Type: ME	BLK	Tes	tCode: El	PA Method	8015D: Gase	oline Rang	e	2
Client ID:	PBS	Batc	h ID: 26	549	F	RunNo: 3	5929				
Prep Date:	7/22/2016	Analysis [Date: 7/	23/2016	S	SeqNo: 1	112316	Units: mg/k	٢g		
Analyte	a * a	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	Organics (GRO)	ND	5.0								
Surr: BFB		990		1000		99.4	80	120			
Sample ID	LCS-26549	Samp	Type: LC	s	Tes	tCode: El	PA Method	8015D: Gase	line Rang	e	
Client ID:	LCSS	Batc	h ID: 26	549	F	RunNo: 3	5929				
Prep Date:	7/22/2016	Analysis [Date: 7/	23/2016	5	SeqNo: 1	112317	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	25.00	0	107	80	120			
Surr: BFB		1100		1000		112	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Ρ Sample pH Not In Range
- RL **Reporting Detection Limit**
- W Sample container temperature is out of limit as specified

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Hall Environmental A	nalysis La	boratory,	Inc.
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Client: Rule E Project: CoP Sa	ngineering LLC an Juan 29-4 #21								
Sample ID MR-26549	SamnType: ME		Tes	Code: El	PA Method	8021B: Vola	tilos		
	Databala an		Durble: 25020						
Client ID: PBS	Batch ID: 26	549	F	anno: 3	5929				
Prep Date: 7/22/2016	Analysis Date: 7/	23/2016	S	SeqNo: 1	112335	Units: mg/k	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND 0.025				19 - E				
Toluene	ND 0.050								
Ethylbenzene	ND 0.050								
Kylenes, Total	ND 0.10								
Surr: 4-Bromofluorobenzene	0.94	1.000		94.0	80	120		л 	
Sample ID LCS-26549	SampType: LC	S	Tes	Code: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batch ID: 26	549	R	unNo: 3	5929				
Prep Date: 7/22/2016	Analysis Date: 7/	23/2016	S	eqNo: 1	112336	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99 0.025	1.000	0	99.3	75.3	123			
Toluene	0.98 0.050	1.000	0	97.6	80	124			
Ethylbenzene	1.0 0.050	1.000	0	102	82.8	121			
Kylenes, Total	3.0 0.10	3.000	0	100	83.9	122			
Surr: 4-Bromofluorobenzene	1.0	1.000		103	80	120			

Qualifiers:

Value exceeds Maximum Contaminant Level. *

D Sample Diluted Due to Matrix

- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix S
- в Analyte detected in the associated Method Blank
- 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

1607B45

29-Jul-16

WO#:

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8	HALL
	ENVIRONMENTAL
	ANALYSIS
	LABORATORY

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

Sample Log-In Check List

Client Name: RULE ENGINEERING LL Work Order Number	1607B45		RcptNo:	1
Received by/date: 07-ZZ-116			4	
Logged By: Lindsay Mangin 7/22/2016 7:20:00 AM	,	Julipo		14.4
Completed By: Lindsay Mangin 7/22/2016 9:16:51 AM		Author		
Reviewed By: 0 01/22/16		0.0		а с
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?	<u>Courier</u>			
Log In				
4. Was an attempt made to cool the samples?	Yes 🗹	No 🗆	NA 🗋	
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗹	No 🗌		
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 preserved?	Yes 🗹	No 🗆		
9. Was preservative added to bottles?	Yes	No 🗹	NA 🗌	
10. VOA vials have zero headspace?	Yes	No 🗆	No VOA Viais 🗹	
11. Were any sample containers received broken?	Yes 🗆	No 🗹	# of preserved	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🗆	bottles checked for pH:	>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 🗖		·
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗌	Checked by:	

Special Handling (if applicable)

16. Was client notified of all discrep	ancies with this order?	Yes	No 🗆	NA 🗹
Person Notified:	Dat	e		
By Whom:	Via	eMail	Phone Fax	In Person
Regarding:			·	
Client Instructions:				and the second se

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C Condition		Seal Intact	Seal No	Seal Date	Signed By				
1	1.1	Good	Yes							

Chain-of-Custody Record			Turn-Around	Time:					F	A	LL	E	NV	IF	20	NP	1EN	ITA	L	
Rule Engineering, LLC		Standard Rush						A	N	AL	YS	SIS	S L	AE	30	RA'	LOL	YS		
		Project Name.				-	11		www	v.hal	lenv	ironmental.com								
ling	Address:	501 Air	port Dr, Suite 205	Cop San Juan 29-4 #21 Project #: Heather Wards				49	01 H	awki	ins N	IE -	Alb	uque	erqu	e, N	M 87	109		
am	ningto	NM	87401					Te	el. 50	5-34	5-39	975	F	ax	505-	-345-	4107			
ne ‡	# (505	716-	2787																	
	Package	woodse	ruleing inearing. Com	Project Manager:			21)	luo						SO4	3's	1	14			
Stan	dard		Level 4 (Full Validation)	Heather	Words		\$ (80	Gas	V O		1. A.	SWI		Pot Pot	PC					
redi	tation			Sampler: 14	aller Wo	rds		PH (R	=	=	20 S	-	8°.	082	- da				
VEL/	AP	□ Othe	r	On Ice:	Z Yes	D No	+	F +	8 02	18.	2	82		30.80	s / 8		(A			
DD	(Type)		· · · · ·	Sample Tem	perature: 3	1-200F=1.1	DETE	IBE	9	od 4	Po	00	etals	No.	cide	(A)	N-i			2
ate	Time	Matrix	. Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX + G	BTEX + M	TPH 8015	TPH (Meth	EDB (Meth	PAH's (83'	RCRA 8 M	Anions (F(8081 Pesti	8260B (VC	8270 (Sem			AL-DIA
1/16	iozo	Solil	SC-1 West Tank	(1)402 Gies	Cold	-001	X	-	X	X				X						
																			\pm	
											and a second									
		and and a second se		1000																
-																				
		2000 					1			-	_	-	-			-				
-	Time:	Relinquish	ed by: h. M. Wooss	Received by: Date Time Mart Dath 7/21/11/1752			Remarks: Direct Bill to ConocoPhillips WO: 10383949 Ordered by: Bobby Spearm													
6	Time:	Relinquish	ed by:	Received by	Xo	Date Time	Area Super: Kelly Davidson													



