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.

rit, Below-Orade Talik, of	RECEIVED By kcollins at 8:02 am, Apr 05, 2016
Proposed Alternative Method Permit or Closure Plan Application 14674 Type of action: Below grade tank registration Dermit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration Closure plan only submitted for an existing permitted or non-permitted pit, below or proposed alternative method	-
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rul	er, 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: A D Hudson 4 API Number: 30-045-06238 OCD Permit Number: U/L or Qtr/Qtr J (NWSE) Section 29 Township 27N Range 9W County: San Juan Center of Proposed Design: Latitude 36.543872°N Longitude107.808769°W NAD: 1927 ⊠ 1983 Surface Owner: ⊠ Federal □ State □ Private □ Tribal Trust or Indian Allotment	BGT CLOSED PRIOR 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 Low Chloride Drilling Fl Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Cother Volume: bbl Dimensions: L x W x 	
3. Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: 120 bbl Type of fluid: Produced Water Tank Construction material: Metal Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner Visible sidewalls only Other Liner type: Thickness mil HDPE PVC Other UNSPECIFIED	
 Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for contract of the Santa Fe Environmental Bureau office for contract of the Santa Fe Environmental Bureau office for contract of the Santa Fe Environmental Bureau office for contract of the Santa Fe Environmental Bureau office for contract of the Santa Fe Environmental Bureau office for contract of the Santa Fe Environmental Bureau office for contract of the Santa Fe Environmental Bureau office for contract of the Santa Fe Environmental Bureau office for contract of the Santa Fe Environmental Bureau office for contract of the Santa Fe Environmental Bureau office for contract of the Santa Fe Environmental Bureau office for contract of the Santa Fe Environmental Bureau office for contract of the Santa Fe Environmental Bureau office for contract of the Santa Fe Environmental Bureau office for contract of the Santa Fe Environmental Bureau office for contract of the Santa Fe Environmental Bureau office for contract of the Santa Fe Environmental Bureau office for contract of the Santa Fe Environmental Bureau office for contract of the Santa Fe Environmental Bureau office for contract of the Santa Fe Environmental Bureau office for contract of the Santa Fe Environmental Bureau office for contract of the Santa Fe Environmental Bureau office for contract of the Santa Fe Environmental Bureau office for contract of the Santa Fe Environmental Bureau office for contract of the Santa Fe Environmental Bureau office for contract of the Santa Fe Environmental Bureau office for contract of the Santa Fe Environmental Bureau office for contract of the Santa Fe Environmental Bureau office for contract of the Santa Fe Environmental Bureau office for contract of the Santa Fe Environmental Bureau office for contract of the Santa Fe Environmental Bureau office for contract of the Santa Fe Environmental Bureau office for contract of the Santa Fe Environmental Bureau office	consideration of approval.
 5. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify	ce, school, hospital,

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: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks. **General siting** Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. Yes No NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells NA NA 🗌 Yes 🗌 No Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. 🛛 NA NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance Yes No 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 Within the area overlying a subsurface mine. (Does not apply to below grade tanks) Yes No Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division Within an unstable area. (Does not apply to below grade tanks) Yes No 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 **Below Grade Tanks** Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured Yes No 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 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, Yes No 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 Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial Yes No application. 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 Yes No 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

6.

 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
<u>Permanent Pit or Multi-Well Fluid Management Pit</u>	
 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 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 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.13.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: or Permit Number:	cuments are 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 doc attached.	cuments are
 Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. 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 	15.17.9 NMAC
Sting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.13.17.10 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	

^{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</i>	documents 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 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 Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, 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	
<u>Proposed Closure</u> : 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.	
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well I	luid 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	
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.	
15. Siting Chitavia (magneting on site closure methods only): 10.15.17.10 NMAC	
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable some provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. 19.15.17.10 NMAC for guidance.	
 Ground water is less than 25 feet below the bottom of the buried waste. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells 	□ Yes □ No □ 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	6

- 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 plane by a check mark in the box, that the documents are attached.	11 NMAC 15.17.11 NMAC
17. Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and beli	
Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	
e-mail address: Telephone:	
e-mail address: Telephone: 18. OCD Approval: Dermit Application (including closure plan) Closure Phar (only) OCD Conditions (see attachment)	
e-mail address: Telephone: <u>OCD Approval</u> : Dermit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: orall D. Kelly Approval Date:7/12/20	016
e-mail address: Telephone:	016
e-mail address: Telephone:	016 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	Dollie L. Busse	Title:F	Regulatory Technician		
Signature:	Rollie Bus	rol	Date:	4/1/16	
e-mail address:	dollie.l.busse@cop.com	Telephone: (505)	324-6104	_	

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

Lease Name: AD Hudson 4 API No.: 30-045-06238

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. BR 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	mponents Tests Method				
Benzene	EPA SW-846 8021B or 8260B	0.2			
BTEX	EPA SW-846 8021B or 8260B	50			
ТРН	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 not 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.

Closure notification attached.

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 sent via email. (See Attached) (Well located on Federal Land, certified mail is not required for Federal Land per BLM/OCD MOU.)

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

The below-grade tank was removed due to well being plugged and abandoned. Reclamation will be completed at a later date.

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. BR will repeat seeding or planting will be continued until successful vegetative growth occurs.

The below-grade tank was removed due to well being plugged and abandoned. Seeding will be completed at a later date.

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 was removed due to well being plugged and abandoned. Reclamation will be completed at a later date.

- 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 (Reclamation/Seeding to be completed at a later date)
 - 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)

Busse, Dollie L

Walker, Crystal
Friday, January 22, 2016 7:01 AM
Katherina Diemer (kdiemer@blm.gov); Flaniken, Jon (mflanike@blm.gov); Cory Smith;
vanessa.fields@state.nm.us
GRP:SJBU Regulatory; Payne, Wendy F; Dixon, Shorell (PAC); Trujillo, Fasho D; Hottell,
Brent D; Gallegos, Dale M; Hunter, Lisa; Spearman, Bobby E
RE: AD Hudson 4 - 72 Hour Notification

Subject: 72 Hour BGT Closure Notification

Anticipated Start Date: Thursday, January 28, 2016 (approx. 9:00 a.m.)

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:	AD Hudson 4	
API#:	30-045-06238	
Location:	Unit J (NWSE), Section 29, T27N, R9	N
Footages:	1820' FSL & 1810' FEL	
Operator:	Burlington Resources	Surface Owner: BLM
Reason:	P&A'd 4/16/2015	

Dollie L. Busse Regulatory Technician ConocoPhillips Company 505-324-6104 505-215-3069 Dollie.L.Busse@cop.com 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.

1220 S. St. Fran	cis Dr., Santa	Fe, NM 87505	5	Sa	anta Fe	e, NM 875	05					
			Rele	ease Notifi	catior	and Co	orrective A	ction	l			
						OPERA'	ГOR		🗌 Initia	al Report	\boxtimes	Final Repor
Name of Co	ompany Bu	rlington Res	sources			Contact Dollie L. Busse						
Address 34			gton, NM	1		Telephone No.(505) 324-6104						
Facility Nat	ne: A D Hu	udson 4			0 2	Facility Type: Gas Well						
Surface Ow	ner Federa	1		Mineral C	Owner F	her Federal API No.30-045-06238						
				LOC	ATION	N OF RE	FASE					
Unit Letter J (NWSE)	Section 29	Township 27N	Range 9W	Feet from the 1820	North/	South Line	Feet from the 1810		Vest Line E ast	County San Juan		
	Latitude <u>36.543872</u> Longitude <u>-107.808769</u>											
				NAT	URE	OF REL	EASE					
Type of Rele	ase BGT	Closure Sur	nmary			Volume of			Volume F	Recovered	n/a	
Source of Re	lease none					STATE OF THE STATE	lour of Occurrent	ce		Hour of Dis	covery	
Was Immedi	ata Notica G	ivon?				n/a If VES To	Whom?		n/a			
Was Immediate Notice Given? If YES, To Whom? □ Yes □ No ☑ Not Required n/a												
By Whom?	n/a				-	Date and H	our n/a					
	Was a Watercourse Reached?						lume Impacting	the Wate	ercourse.			
			Yes 🛛 1	No								
N/A Describe Cau No release w												
Describe Are N/A	a Affected a	nd Cleanup A	Action Tak	cen.*								
regulations al public health should their c	l operators a or the enviro perations ha ument. In ad	re required to onment. The we failed to a dition, NMO	o report ar acceptanc dequately CD accep	t is true and comp nd/or file certain r ce of a C-141 report investigate and r tance of a C-141	elease no ort by the emediate	otifications a NMOCD m contaminati	nd perform correct arked as "Final R on that pose a thr e the operator of	ctive acti ceport" d reat to gr responsi	ons for rele oes not reli ound water bility for co	eases which eve the oper , surface wa ompliance w	may er ator of ter, hu vith any	ndanger `liability man health
Signature:	Po	tal a	Wal	ter			OIL CON	SERV	ATION	DIVISIC	<u>N</u>	
Printed Name	: Crystal W		1. AND 1. AND		1	Approved by Environmental Specialist:						
Title: Regula					1	Approval Dat	e:	I	Expiration I	Date:		
E-mail Addre	ss: crystal	.walker@coj Phone: (505		7	(Conditions of Approval: Attached						

Date: Phone: (505) 32 * Attach Additional Sheets If Necessary **Rule** Engineering, LLC

Solutions to Regulations for Industry -

February 12, 2016

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

Re: AD Hudson #4 Below Grade Tank Closure Sampling Report

Dear Ms. Hunter:

This report summarizes the below grade tank (BGT) closure sampling activities conducted by Rule Engineering, LLC (Rule) at the ConocoPhillips AD Hudson #4 located in Unit Letter J, Section 29, Township 27N, Range 9W in San Juan County, New Mexico. Activities included collection and analysis of a 5-point composite soil confirmation sample from beneath the BGT on January 28, 2016. A topographic map of the location is included as Figure 1 and an aerial site map is included as Figure 2.

BGT Summary

Site Name – AD Hudson #4 Location – Unit Letter J, Section 29, Township 27N, Range 9W API Number – 30-045-06238 Wellhead Latitude/Longitude – N36.54387 and W107.80905 BGT Latitude/Longitude – N36.54387 and W107.80877 Land Jurisdiction – Bureau of Land Management Size of BGT –120 barrels Date of BGT Closure Soil Sampling – January 28, 2016

BGT Closure Standards

As outlined in 19.15.17.13 New Mexico Administrative Code (NMAC), BGT closure standards for the AD Hudson #4 are as follows: 0.2 milligrams per kilogram (mg/kg) benzene, 50 mg/kg total benzene, toluene, ethylbenzene, and total xylenes (BTEX), 100 mg/kg total petroleum hydrocarbons (TPH), and 250 mg/kg chlorides.

Field Activities

On January 28, 2016, following removal of the BGT tank and liner, Rule personnel conducted a visual inspection for surface/subsurface indications of a release. No evidence of a release was observed. Rule personnel then collected five soil samples (S-1 through S-5) from 0.5 feet beneath the floor of the BGT excavation. Figure 2 provides the location of the soil samples collected from below the BGT. The field work summary sheet is attached.

Ms. Lisa Hunter AD Hudson #4 February 12, 2016 Page 2 of 3

Soil Sampling

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

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

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

Field and Analytical Results

Field sampling results for soil confirmation sample SC-1 indicated a VOC concentration of 0.0 ppm, a TPH concentration of 151 mg/kg, and a chloride concentration of 100 mg/kg.

Laboratory analytical results for sample SC-1 reported benzene and total BTEX concentrations below the laboratory reporting limits of 0.032 mg/kg and 0.161 mg/kg, respectively. Laboratory analytical results for SC-1 reported TPH as gasoline range organics (GRO) concentration below the laboratory reporting limits of 3.2 mg/kg and diesel range organics (DRO) concentration as 17 mg/kg. The laboratory analytical result for the chloride concentration was below the laboratory reporting limits of 30 mg/kg. Field and laboratory results for SC-1 are summarized in Table 1, and the analytical laboratory report is attached.

Conclusions

Rule

On January 28, 2016, BGT closure sampling activities were conducted at the ConocoPhillips AD Hudson #4. Field and laboratory results for confirmation sample SC-1 were reported below the BGT closure standards for benzene, total BTEX, TPH, and chlorides as outlined in 19.15.17.13 NMAC. Based on field sampling and laboratory analytical results, no further work is recommended.

Ms. Lisa Hunter AD Hudson #4 February 12, 2016 Page 3 of 3

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

Sincerely, Rule Engineering, LLC

Heather M. Woods

Heather M. Woods, P.G.

Attachments:

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



ng Results

exico

	Sample Depth	Field	Sampling Res	sults	Laboratory Analytical Results					
ple (ft below BGT		VOCs (PID)	TPH - 418.1	Chloride**	Benzene	Total BTEX	TPH - GRO	TPH - DRO	Chloride***	
pe	liner)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
T Closure Standards*					0.2	50	10	00	250	
posite	0.5	0.0	151	100	<0.032	<0.161	<3.2	17	<30	

ation detector

illion

s/kilograms

ganic compounds

toluene, ethylbenzene, and total xylenes

um hydrocarbons

ange organics

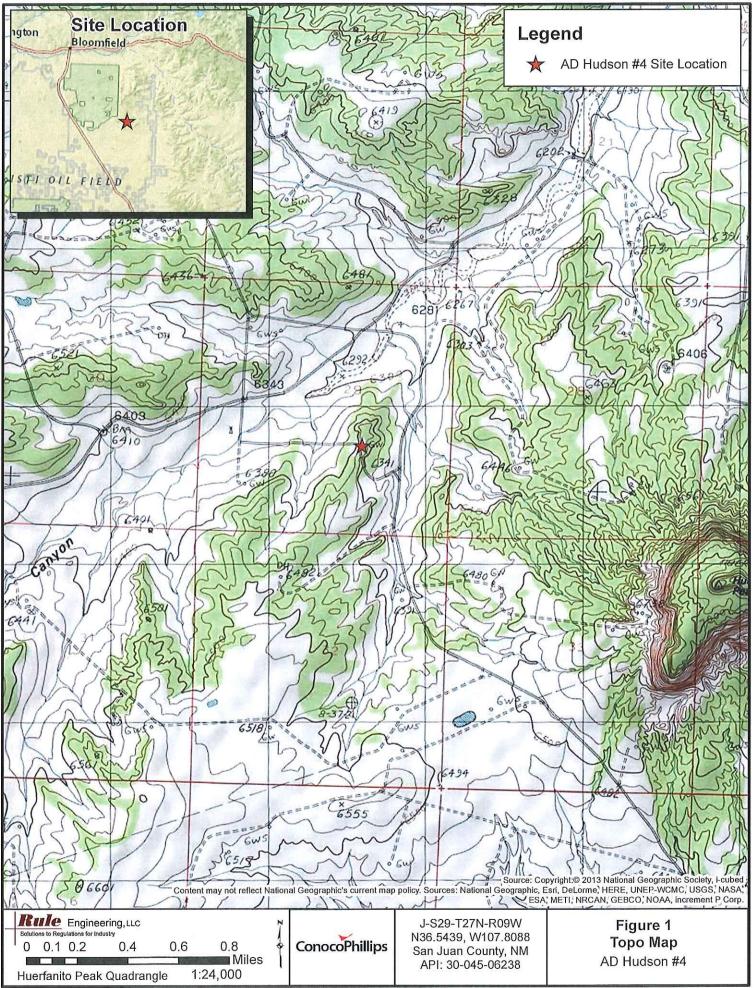
je organics

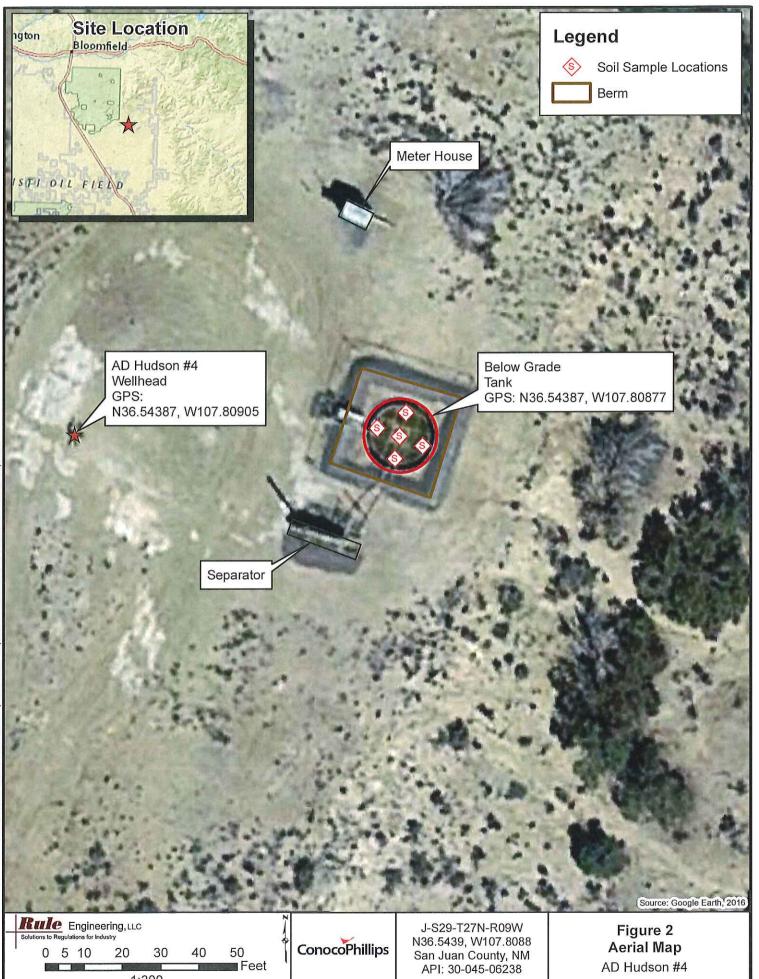
4C

de low-range test kit

sthod 300.0 chlorides

J, LLC





1:300

Rule Engineering Field Work Summary Sheet

Company:	ConocoPhillips	
Location:	AD Hudson #4	
API:	30-045-06238	
Legals:	J-S29-T27N-R09W	
County:	San Juan	
Land Jurisd	iction: Bureau of Land Management	

Wellhead GPS: 36.54387. -107.80905

1/28/16

Heather Woods

BGT GPS: 36.54387, -107.80877

Siting Information based on BGT Location:

Site Rank 10

Date:

Staff:

Groundwater: Estimated to be greater than 100 feet below grade surface, based on depth to water of 80 feet

reported in OSE registered well SJ 03898 POD1, which is approximatley 200 feet lower in elevation than BGT.

Surface Water: Unnamed ephemeral washes located approximatley 900 ft east and 985 ft west of BGT

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

Objective: Closure sampling for BGT

Tank Size: 120 barrels, removed during closure activities

Liner: Present, removed during closure activities.

Observations: No staining or excess moisture observed below liner.

Notes: Cory Smith (NMOCD representative) was onsite during closure activities.

Mr. Smith observed and photo documented the removal of the BGT and

collection of samples SC-1 through SC-5.

Field Sampling Information

	Type of	Collection	Collection	VOCs1	VOCs	TPH ²	TPH	Chloride ³	Chloride
Name	Sample	Time	Location	(ppm)	time	mg/kg	Time	mg/kg	Time
SC-1	Composite	9:55	See below	0.0	10:05	151	10:35	100	10:40

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

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



Field Sampling Notes:

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

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

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





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

February 01, 2016

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

RE: CoP A D Hudson #4

OrderNo.: 1601A94

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/29/2016 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

Analytical Report
Lab Order 1601A94

Date Reported: 2/1/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT:Rule Engineering LLCClient Sample ID: SC-1Project:CoP A D Hudson #4Collection Date: 1/28/2016 9:55:00 AMLab ID:1601A94-001Matrix: MEOH (SOIL)Received Date: 1/29/2016 8:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LGT
Chloride	ND	30	mg/Kg	20	1/29/2016 11:38:22 AM	23486
EPA METHOD 8015M/D: DIESEL RANG	BE ORGANIC	S			Analyst	: KJH
Diesel Range Organics (DRO)	17	9.8	mg/Kg	1	1/29/2016 10:25:25 AM	23478
Surr: DNOP	70.6	70-130	%REC	1	1/29/2016 10:25:25 AM	23478
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.2	mg/Kg	1	1/29/2016 10:06:36 AM	23453
Surr: BFB	92.5	66.2-112	%REC	1	1/29/2016 10:06:36 AM	23453
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.032	mg/Kg	1	1/29/2016 10:06:36 AM	23453
Toluene	ND	0.032	mg/Kg	1	1/29/2016 10:06:36 AM	23453
Ethylbenzene	ND	0.032	mg/Kg	1	1/29/2016 10:06:36 AM	23453
Xylenes, Total	ND	0.065	mg/Kg	1	1/29/2016 10:06:36 AM	23453
Surr: 4-Bromofluorobenzene	101	80-120	%REC	1	1/29/2016 10:06:36 AM	23453

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
 - H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- 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 Page 1 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:		Engineering LL A D Hudson #4									
Sample ID	MB-23486	SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch	ID: 23	486	F	RunNo: 3	1808				
Prep Date:	1/29/2016	Analysis Da	ate: 1/	29/2016	S	SeqNo: 9	73423	Units: mg/k	íg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-23486	SampTy	pe: LC	S	Tes	tCode: El	PA Method	300.0: Anion	S		
Client ID:	LCSS	Batch	ID: 23	486	F	RunNo: 3	1808				
Prep Date:	1/29/2016	Analysis Da	ite: 1/	29/2016	S	SeqNo: 9	73424	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	95.6	90	110			

Qualifiers:

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

Page 2 of 5

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Rule Engineering LLC

Client

Project:	-	Hudson #4									
Sample ID	MB-23478	SampTy	/pe: MI	ЗLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	PBS	Batch	ID: 23	478	F	RunNo: 3	1772				
Prep Date:	1/29/2016	Analysis Da	ate: 1/	29/2016	S	SeqNo: 9	72473	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	ND	10								
Surr: DNOP		7.3		10.00		72.8	70	130			
Sample ID	1601A94-001AMS	SampTy	/pe: MS	6	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	SC-1	Batch	ID: 23	478	F	RunNo: 3	1772				
Prep Date:	1/29/2016	Analysis Da	ate: 1/	29/2016	S	SeqNo: 9	72674	Units: mg/h	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	50	9.3	46.43	16.74	71.5	31.2	162			
Surr: DNOP		3.2		4.643		69.9	70	130			S
Sample ID	1601A94-001AMSI	D SampTy	/pe: MS	SD	Test	Code: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID:	SC-1	Batch	ID: 23	478	R	RunNo: 3	1772				
Prep Date:	1/29/2016	Analysis Da	ate: 1/	29/2016	S	eqNo: 9	72675	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	45	9.8	49.16	16.74	56.7	31.2	162	11.3	31.7	
Surr: DNOP		3.3		4.916		67.8	70	130	0	0	S
Sample ID	LCS-23478	SampTy	vpe: LC	s	Test	Code: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	LCSS	Batch	ID: 23	478	R	RunNo: 3	1772				
Prep Date:	1/29/2016	Analysis Da	ate: 1/	29/2016	S	eqNo: 9	73511	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	34	10	50.00	0	68.6	65.8	136			
Surr: DNOP		3.7		5.000		74.4	70	130			

Qualifiers:

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

Page 3 of 5

WO#: 1601A94 01-Feb-16

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	1601A94
	And and a second second second

	gineering L) Hudson #									
Sample ID MB-23453	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: PBS	Batch	n ID: 23	453	F	RunNo: 3	1771				
Prep Date: 1/28/2016	Analysis D	Date: 1/	29/2016	S	SeqNo: 9	72931	Units: mg/M	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	910		1000		91.4	66.2	112			
Sample ID LCS-23453	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D: Gasc	line Rang	e	
Client ID: LCSS	Batch	n ID: 23	453	F	RunNo: 3	1771				
Prep Date: 1/28/2016	Analysis D)ate: 1/	29/2016	S	SeqNo: 9	72932	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.2	79.6	122			
Surr: BFB	990		1000		98.8	66.2	112			

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

QC SUMMARY Hall Environment				ory, Inc.					WO#:	1601A94 <i>01-Feb-16</i>
	gineering I					energia dei fanti Auto Incol Anno				
Project: CoP A I	> Hudson #	#4								
Sample ID MB-23453	Samp	Type: MI	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Bato	h ID: 23	453	F	RunNo: 3	1771				
Prep Date: 1/28/2016	Analysis	Date: 1	/29/2016	5	SeqNo: 9	72939	Units: mg/k	٢g		
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-Bromofluorobenzene	1.0		1.000		. 103	80	120			
Sample ID LCS-23453	Samp	Type: LC	s	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Bato	h ID: 23	453	F	RunNo: 3	1771				
Prep Date: 1/28/2016	Analysis I	Date: 1/	29/2016	5	SeqNo: 9	72940	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.050	1.000	0	91.7	80	120			
Toluene	0.98	0.050	1.000	0	97.9	80	120			
Ethylbenzene	0.98	0.050	1.000	0	97.8	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.3	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		119	80	120			
Sample ID 1601A94-001AMS	Samp	Туре: М	6	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: SC-1	Batc	h ID: 23	453	F	RunNo: 3	1771				
Prep Date:	Analysis I	Date: 1/	29/2016	ę	SeqNo: 9	72941	Units: mg/k	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.67	0.032	0.6481	0	104	71.5	122			
Toluene	0.71	0.032	0.6481	0	110	71.2	123			
Ethylbenzene	0.71	0.032	0.6481	0	109	75.2	130			
Xylenes, Total	2.1	0.065	1.944	0	110	72.4	131			
Surr: 4-Bromofluorobenzene	0.81		0.6481		124	80	120			S
Sample ID 1601A94-001AMS	D Samp	Type: MS	SD	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: SC-1	Batc	h ID: 23	453	F	RunNo: 3	1771				
Prep Date:	Analysis [Date: 1/	29/2016	5	SeqNo: 97	72942	Units: mg/K	g		
Analyta	Popult	POL	SDK value	SPK Pof Vol	% REC	Low! imit	Highl imit	%PPD	RPDI imit	Qual

6.50	18 A				· · · ·		•				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.60	0.032	0.6481	0	92.3	71.5	122	11.9	20		
Toluene	0.64	0.032	0.6481	0	99.0	71.2	123	10.1	20		
Ethylbenzene	0.67	0.032	0.6481	0	103	75.2	130	5.30	20		
Xylenes, Total	2.0	0.065	1.944	0	104	72.4	131	4.86	20		
Surr: 4-Bromofluorobenzene	0.80		0.6481		123	80	120	0	0	S	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- 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
- Р Sample pH Not In Range
- RL **Reporting Detection Limit**

Page 5 of 5

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental A Albus TEL: 505-345-3975 Website: vww.hal	4901 querqu FAX: 5	Hawkins N e. NM 8710 05-345-410	^E Sam	ple Log-In	Check List
Client Name: RULE ENGINEERING LL	Work Order Number:	1601/	\94		Rcpt	No: 1
Received by/date:	1)24/16					
Logged By: Joe Archuleta	1/29/2016 8:10:00 AM		Ē	Hat		
Completed By: Joe Archuleta	1/29/2016 8:26:31 AM			It lat		
Reviewed By:	21/29/14		r			
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?		Cour				
2007 P		036 035	2 2	•		
<u>Log In</u>				1		
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 []	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) proper	ly preserved?	Yes		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 broke	en?	Yes	[]	No 🗖		
					# of preserved bottles checked	ł
12. Does paperwork match bottle labels?		Yes		No []	for pH:	(<2 or >12 unless noted)
(Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of	Custody?	Yes		No [_]	Adjusted	
14. Is it clear what analyses were requested?	ouolouy.	Yes		No 🛄		
15. Were all holding times able to be met?		Yes		No 🗌	Checked	by:
(If no, notify customer for authorization.)						
Special Handling (if applicable)						
16. Was client notified of all discrepancies with t	his order?	Yes	[]	No 📋	NA	
Person Notified:	Date		[[4] } 64. 41.45 .41, • • 13-43) A	ana lalik dalam (kelana laliki)		
By Whom:	5 		ail [^{**}] Ph	one [] Fax] In Person	
Regarding:		مثلاثا فالمناط		aldusl (1994 Bashin af)	-and 28, the sime of dates () at some to the () is a barde	
Client Instructions:	lah ada da wata da wata da wata da ka	د وغالانان بر غالا الم	an i dharra i tiralan far brindig ina	a'dh da ma da' dhui, Malainin airte a ba a fhe a	(\$ %\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	ber -
17. Additional remarks:						
18. <u>Cooler Information</u>						
	eal Intact Seal No S	Seal Da	ate S	Signed By		
1 1.0 Good Yes						
Page 1 of 1						

Chain-of-Custody Record	Turn-Around Time:	HALL FNUTRONMENTAL	
ienti Rule Frainesring LLC	C Stancard & Rush Same Day	ANALYSIS LABORATORY	
. n	Project Name:	www.hallenvironmental.com	
alling Address: 501 Acros Dr. Sule 205	Cop A D Hudson #4	4901 Hawkins NE - Albuquerque, NM 87109	
Farmination, NM 87401	4.	Tel. 505-345-3975 Fax 505-345-4107	
10ne #(Sいち) 子/ le-2子い子		Analysis Request	
NUCK.	Project Manager:	(*OS () () () () () () () () () () () () ()	
VOC Package: O Standard D Level 4 (Full Validation)	Heather Woods	885) 2014, 2018 2016 2016	
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BGT Closure Photograph Log ConocoPhillips AD Hudson #4 Unit Letter J, Section 29, Township 27N, Range 9W N36.54387, W107.80905 San Juan County, NM February 10, 2016



Photograph 1. View facing west-southwest of below grade tank following removal from the excavation.



Photograph 2. View of liner in place following lifting the tank from the excavation.



BGT Closure Photograph Log ConocoPhillips AD Hudson #4 Unit Letter J, Section 29, Township 27N, Range 9W N36.54387, W107.80905 San Juan County, NM February 10, 2016



Photograph 3. View of exposed base of excavation following soil sampling.



