District I 1625 W. French Dr., Hobbs, NM 88240 District W

State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr.

Santa Fe, NM 87505

Pit, Below-Grade Tank, or

Form C-144 Revised April 3, 2017

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.

District
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

ا قار ي	Proposed Al	ternative Method Pe	ermit or Closure	Plan Applicat	<u>ion</u>
	Clos	nit of a pit or proposed alter sure of a pit, below-grade tal dification to an existing perm sure plan only submitted for	nk, or proposed alternat nit/or registration		t, below-grade tank,
	Instructions: Please submit	one application (Form C-144) per individual pit, below	-grade tank or alteri	native request
environment. Nor d		not relieve the operator of liability or of its responsibility to comply			water, ground water or the 's rules, regulations or ordinances.
Operator: BP At	merica Production Comp	any	OGRID#:7	78	
Address: 200 E	nergy Court, Farmington	any , NM 87401			
	ame: PRITCHARD # 4A	7			
API Number: 30	004522497	00	D Permit Number:		
U/L or Qtr/Qtr _F	Section 31	Township 29N	Range 08W	County: San Ju	ian
Center of Propose	ed Design: Latitude 36.684	57L	ongitude -107.71864		NAD83
Surface Owner:	Federal State Private	e Tribal Trust or Indian Allo	otment		
☐ Permanent ☐ ☐ Lined ☐ Un☐ String-Reinfor	lined Liner type: Thicknes	□ P&A □ Multi-Well Fluid M smil □ LLDPE [☐ HDPE ☐ PVC ☐ O	ther	
3.		17.11.NMAC TAN	IV D		
	tank: Subsection I of 19.15	.17.11 NMAC	IK D		NMOCD
		of fluid: Produced Water			
	n material: Steel	□ Visible sidewalls, liner, 6	Sinch lift and automatic o	verflow shut-off	MAY 1 0 2018
		lewalls only Other Single			DISTRICT III
Liner type: Thick		mil			
4. Alternative M	<u>lethod</u> :	Exceptions must be submitted		ental Bureau office fo	or consideration of approval.
5.					
		(Applies to permanent pits, ter barbed wire at top (Required i			lence, school, hospital,
institution or chui			10 0		
		e evenly spaced between one a	nd four feet		
Alternate. Ple	ase 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)	
7. 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.	
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 acceptance are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	otable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ 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
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).	☐ Yes ☐ No
- Topographic map; Visual inspection (certification) of the proposed site	
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ☐ No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No

Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit Non-low chloride drilling fluid	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Permanent Pit or Multi-Well Fluid Management Pit	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	NMAC 15.17.9 NMAC
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. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	.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	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 ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Quality Control/Quality Assurance Construction and Installation Plan ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC ☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Nuisance or Hazardous Odors, including H₂S, Prevention Plan ☐ Emergency Response Plan ☐ Oil Field Waste Stream Characterization ☐ Monitoring and Inspection Plan ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 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						
14. Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be a	attached to the						
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC							
15.							
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. P. 19.15.17.10 NMAC for guidance.	cce 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 man; Tonographic man; Visual inspection (certification) of the proposed site.							
US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 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. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	T								
	☐ 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								
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. 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 19.15.17.11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC									
17. Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and believed.	ief.								
Name (Print): Title:									
Signature: Date:									
e-mail address: Telephone:									
e-mail address:Telephone:									
e-mail address:									
18. OCD Approval: Permit Application (plcluding closure plan) (October Plan (only)) OCD Conditions (see attachment)	1 1								
18. OCD Approval: Permit Application (Including closure plan) (Including closure Plan (only) OCD Conditions (see attachment)	1 1								
18. OCD Approval: Permit Application (ycluding closure plan) (Closure Plan (only)) OCD Conditions (see attachment) OCD Representative Signature: Approval Date:	the closure report.								
18. OCD Approval: Permit Application (Including closure plan) (Includi	the closure report.								

22.	
Operator Closure Certification:	
	itted with this closure report is true, accurate and complete to the best of my knowledge and icable closure requirements and conditions specified in the approved closure plan.
Name (Print): Erin Garifalos	Title: Field Environmental Coordinator
Signature:Utin gwifalos	Date: May 8, 2018
e-mail address: erin.garifalos@bp.com	Telephone: (832) 609-7048

BP AMERICA PRODUCTION COMPANY

SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

PRITCHARD # 4A

API No. 3004522497

Unit Letter F Section 31 T 29N R 08W

This plan will address the standard protocols and procedures for closure of below-grade tanks (BGTs) on BP America Production Company (BP) well sites. As stipulated in Paragraph A of 19.15.17.13 NMAC, BP shall close a BGT within the time periods provided in 19.15.17.13 NMAC, or by an earlier date that the New Mexico Oil Conservation Division (NMOCD) requires because of imminent danger to fresh water, public health, safety or the environment. If deviations from this plan are necessary, any specific changes will be included on form C-144 and approved by the NMOCD. BP shall close an existing BGT that does 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 after June 16, 2008, if not retrofit with a BGT that complies with the BP NMOCD approved BGT design attached to the BP Design and Construction Plan. BP shall close an existing BGT that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC, if not previously retrofitted to comply with the BP NMOCD approve BGT Design attached to the BP Design and Construction Plan, prior to any sale or change in operator pursuant to 19.15.9.9 NMAC. BP shall close the permitted BGT within 60 days of cessation of the BGTs operation or as required by the transitional provisions of Subsection B, D, or E of 19.15.17.17 NMAC.

General Closure Plan

1. BP shall notify the surface owner by certified mail that it plans to close a BGT. Evidence of mailing of the notice to the address of the surface owner shown in the county tax records demonstrates compliance with this requirement.

Notice is attached.

2. BP shall notify the division District III office verbally or by other means at least 72 hours, but not more than one (1) week, prior to any closure operation. The notice shall include the operator's name, and the location to be closed by unit letter, section, township and range. If the BGT closure is associated with a particular well, then the notice shall also include the well's name, number and API number.

Notice was provided and is attached.

- 3. BP shall remove liquids and sludge from the BGT prior to implementing a closure method and dispose of the liquids and sludge in a NMOCD's division-approved facility. The facilities to be used are:
 - a. BP Crouch Mesa Landfarm, Permit NM-02-003 (Solids)
 - b. JFJ Landfarm, Permit NM-01-010(B) (Solids and Sludge)
 - c. Basin Disposal, Permit NM-01-0005 (Liquids)
 - d. Envirotech Inc Soil Remediation Facility, Permit NM-01-0011 (Solids and Sludge)
 - e. BP Operated E.E. Elliott SWD #1, API 30-045-27799 (Liquids)

- f. BP Operated 13 GCU SWD #1, API 30-045-28601 (Liquids)
- g. BP Operated GCU 259 SWD, API 30-045-20006 (Liquids)
- h. BP Operated GCU 306 SWD, API 30-045-24286 (Liquids)
- i. BP Operated GCU 307 SWD, API 30-045-24248 (Liquids)
- j. BP Operated GCU 328 SWD, API 30-045-24735 (Liquids)
- k. BP Operated Pritchard SWD #1, API 30-045-28351 (Liquids)

All liquids and sludge in the BGT were removed and sent to one of the above NMOCD approved facilities for disposal.

4. BP shall remove the BGT and dispose of it in a NMOCD approved facility or recycle, reuse, or reclaim it in a manner that the NMOCD approves. If a liner is present and must be disposed of it will be cleaned by scraping any soils or other attached materials on the liner to a de minimus amount and disposed at a permitted solid waste facility, pursuant to Subparagraph (m) of Paragraph (1) of Subsection C of 19.15.35.8 NMAC. Documentation as to the final disposition of the removed BGT will be provided in the final closure report.

The BGT was transported for recycling.

5. BP shall remove any on-site equipment associated with a BGT unless the equipment is required for well production.

All equipment associated with the BGT has been removed.

6. BP shall test the soils beneath the BGT to determine whether a release has occurred. BP shall collect at a minimum: a five (5) point composite sample and individual grab samples from any area that is wet, discolored or showing other evidence of a release and analyze for BTEX, TPH and chlorides. The testing methods for those constituents are as follows;

Constituents	Testing Method	Release Verification	Sample
	21 bbl BGT	(mg/Kg)	results
Benzene	US EPA Method SW-846 8021B or 8260B	10	< 0.022
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	<0.088
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	<46
Chlorides	US EPA Method 300.0 or 4500B	620	<30

Notes: mg/Kg = milligram per kilogram, BTEX = benzene, toluene, ethylbenzene, and total xylenes, TPH = total petroleum hydrocarbons. Other EPA methods that the division approves may be applied to all constituents listed. Chloride closure standards will be determined by which ever concentration level is greatest.

Soil under the BGT was sampled for chloride, TPH and BTEX with all concentrations below the stated limits. The field report and laboratory reports are attached.

7. BP shall notify the division District III office of its results on form C-141.

C-141 is attached.

8. If it is determined that a release has occurred, then BP will comply with 19.15.30 NMAC and 19.15.29 NMAC, as appropriate.

Sampling results indicate a release has not occurred. Attached is a laboratory report and C-141.

9. If the sampling demonstrates that a release has not occurred or that any release does not exceed the concentrations specified above, then BP shall backfill the excavation, with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover, re-contour and re-vegetate the location. The location will be reclaimed if it is not with in the active process area

Sampling results indicate a release has not occurred. Attached is a laboratory report and field report. The location will be reclaimed when the well is plugged and abandoned.

10. BP shall reclaim the BGT location and all areas associated with the BGT including associated access roads to a safe and stable condition that blends with the surrounding undisturbed area. BP shall substantially restore the impacted surface area to the condition that existed prior to oil and gas operations by placement of the soil cover as provided in Subsection H of 19.15.17.13 NMAC, re-contour the location and associated areas to a contour that approximates the original contour and blends with the surrounding topography and re-vegetate according to Subsection I of 19.15.17.13 NMAC.

The area has been backfilled and BGT location's surface condition is clear, but within the site's operational area. The location will be reclaimed once the well is plugged and abandoned.

11. The soil cover for closures where the BGT has been removed or remediated to the NMOCD's satisfaction shall consist of the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater. The soil cover will be constructed to the site's existing grade and all practicable efforts will be made to prevent ponding of water and erosion of the cover material.

The area has been backfilled and BGT location's surface condition is clear, but within the site's operational area. The location will be reclaimed once the well is plugged and abandoned.

12. BP shall seed the disturbed area the first growing season after closure of the BGT. Seeding will be accomplished by drilling on the contour whenever practical or by other division-approved methods. Vegetative cover will be, at a minimum, 70% of the native perennial vegetative cover (un-impacted by overgrazing, fire or other intrusion damaging to native vegetation), consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintenance of that cover through two successive growing seasons. During the two growing seasons that prove viability, there shall be no artificial irrigation of the vegetation.

The area has been backfilled and BGT location's surface condition is clear, but within the site's operational area. The location will be reclaimed once the well is plugged and abandoned.

13. BP shall seed, plant and re-seed pursuant to Paragraph (3) of Subsection I of 19.15.17.13 NMAC, until the location successfully achieves the required vegetative cover.

The area has been backfilled and BGT location's surface condition is clear, but within the site's operational area. The location will be reclaimed once the well is plugged and abandoned.

14. Pursuant to Paragraph (5) of Subsection I of 19.15.17.13 NMAC, BP shall notify the NMOCD when it has seeded or planted and when it successfully achieves revegetation.

The area has been backfilled and BGT location's surface condition is clear, but within the site's operational area. The location will be reclaimed once the well is plugged and abandoned.

- 15. Within 60 days of closure completion, BP shall submit a closure report on NMOCD's form C-144, and will include the following;
 - a. proof of closure notification (surface owner and NMOCD)
 - b. sampling analytical reports; information required by 19.15.17 NMAC;
 - c. disposal facility name and permit number
 - d. details on back-filling, capping, covering, and where applicable re-vegetation application rates and seeding techniques and
 - e. site reclamation, photo documentation.

Closure report on C-144 form is included including photos of reclamation completion.

16. BP shall certify that all information in the report and attachments is accurate, truthful, and compliant with all applicable closure requirements and conditions specified in the approved closure plan.

Certification section of C-144 has been completed.

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

State of New Mexico Energy Minerals and Natural Resources

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

Form C-141 Revised April 3, 2017

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

			Rele	ease Notific	catio	n and Co	orrective A	ction	1						
						OPERA	ГOR		Initia	al Report		Final Report			
Name of Co	ompany BF	² America	Produc	tion Compan	У	Contact Erin Garifalos									
Address 20			Telephone No. (832) 609-7048												
Facility Na	me PRITC	CHARD # 4	1A			Facility Typ	e: Natural Ga	as We	9						
Surface Ow	ner: Fed	eral		Mineral (Owner:	Federal			API No	.300452	2497	7			
				LOCA	ATIO	N OF RE	LEASE								
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/	West Line	County					
F	31	29N	08W	1,830	North 1,705 West San Ju										
			Latitud	36.68457	L	ongitude1	07.71864	NAD	83						
	NATURE OF RELEASE														
Type of Rele	ase:: none)					Release:: unkno			Recovered::					
Source of Re	lease: belo	w grade ta	nk - 21	bbl		n/a	Hour of Occurrence	ce:	n/a	Hour of Dis	covery				
Was Immedi		Given?				If YES, To	Whom?								
			Yes ✓	No Not R	equired										
By Whom?	-	1 10				Date and H		1 XX7							
Was a Water	course Read		Yes 🗸	No		If YES, Vo	olume Impacting t	the Wat	ercourse.						
If a Watercon	ırse was Im	pacted, Descr	ibe Fully.	k											
		,													
Describe Cau	ise of Probl	em and Reme	dial Actio	n Taken.*	nling	of the soil	beneath the	BGT	was do	ne durin	a ron	noval			
							d for Chloric								
							Field reports								
December And	a Affactad	and Claanum	A ation Tal				Tota roporto	aria i	aborator	ry roodite					
Describe Are	a Affected	and Cleanup A	Action Tai	No actio	n nec	essary. F	inal laborate	ory a	nalysis d	determin	ed no	0			
				remedia	l actio	on is requ	ired.	-							
I hereby certi	ify that the	information gi	iven above	is true and comp	olete to t	he best of my	knowledge and u	indersta	nd that purs	suant to NM	OCD rt	iles and			
							nd perform correc								
should their	or the envi	ronment. The	acceptant adequately	investigate and r	ort by th remediat	e NMOCD m	arked as "Final R on that pose a thr	eat to g	round water	r, surface wa	ter, hu	man health			
or the enviro	nment. In a	ddition, NMC	CD accep	tance of a C-141	report d	loes not reliev	e the operator of	respons	ibility for co	ompliance w	ith any	other			
federal, state	or local la	ws and/or regu	ilations.				OIL COM	CEDY	ATION	DIVICIO	N.T.				
	1stin a	ATON A	- 1			OIL CONSERVATION DIVISION									
Signature: Utin garifalos															
Signature.	Fuin C) a wife land				Approved by	Environmental S	pecialis	t:						
Printed Name															
Title: Field	d Envir	onmenta	al Coo	rdinator		Approval Da	te:		Expiration 1	Date:					
E-mail Addre	ess: erin.	garifalos	@bp.	com		Conditions of	f Approval:			Attached					
Date: May	8, 2018		Phone	(832) 609-70	048										
* Attach Addi	tional She	ets If Necess	ary												



BP America Production Company 380 Airport Rd Durango, CO 81303 Phone: (970) 247 6800

March 2, 2018

Bureau of Land Management Whitney Thomas 6251 College Suite A Farmington, NM 87402

VIA EMAIL

Re: Notification of plans to close/remove a below grade tank

Well Name: PRITCHARD 004A

API#: 3004522497

Dear Mrs. Thomas,

As part of the NM "Pit Rule": 19.15.17.13 Closure Requirements, Paragraph J. BP America Production Company (BP) is required to notify the surface owner of BP's plans to close/remove a below grade tank. BP wishes to inform you of our plans to close/remove the below grade tank on its well pad located on your surface. BP plans to commence this work on or about March 7, 2018. If there aren't any unforeseen problems, the work should be completed within 10 working days.

As a point of clarification, BP will be closing the below grade tank and either operating without one or replacing it with an above ground tank, the well site will continue to operate.

If witnessing of the tank removal is required please contact me for a specific time (832)-609-7048.

Sincerely,

Erin Garifalos

BP America Production Company

From:

Buckley, Farrah (CH2M HILL)

To:

Smith, Corv. EMNRD; Fields, Vanessa, EMNRD (Vanessa, Fields@state.nm.us)

Cc:

jeffcblagg@aol.com; blagg njv@yahoo.com; Garifalos, Erin

Subject: Date: BP Pit Close Notification - PRITCHARD 004A

Friday, March 02, 2018 8:31:55 AM

BP America Production Company 380 Airport Rd Durango, CO 81303 Phone: (970) 247 6800

SENT VIA E-MAIL TO: <u>CORY.SMITH@STATE.NM.US</u>; <u>VANESSA.FIELDS@STATE.NM.US</u>

March 2, 2018

New Mexico Oil Conservation Division 1000 Rio Brazos Road Aztec, New Mexico 87410

RE: Notice of Proposed Below-Grade Tank (BGT) Closure

PRITCHARD 004A API 30-045-22497 (F) Section 31 – T29N – R08W San Juan County, New Mexico

Dear Mr. Cory Smith and Mrs. Vanessa Fields,

In regards to the captioned subject and requirements of the NMOCD pit rule, this letter is notification that BP is planning to close a 21bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around March 7, 2018.

Should you have any questions, please feel free to contact BP at our Durango office.

Sincerely,

Erin Garifalos

 $Field\ Environmental\ Coordinator-San\ Juan$

Cell: 832-609-7048

Farrah Buckley BGT Project Support 970-946-9199 -cell

This email and any attachments are intended only for the addressee(s) listed above and may contain confidential, proprietary, and/or privileged information. If you are not an intended recipient, please immediately advise the sender by return email, delete this email and any attachments, and destroy any copies of same. Any unauthorized review, use, copying disclosure or distribution of this email and any attachments is prohibited.

CLIENT: BP	P.O. BOX 87, B	LOOMFIELD, N		TANK ID	522497 B				
FIELD REPORT:	OTHER:	PAGE #: 1	of1						
QUAD/UNIT: F SEC: 31 TWP:	29N RNG: 8W PM:	NM CNTY: SJ	ST: NM	DATE FINISHED:	3/07/18				
LEASE#: SF078487A	PROD. FORMATION: PC/MV CO	CTDUCE		SPECIALIST(S):	NJV				
1) 21 BGT (SW/DB) 2)	GPS COORD.: 36 GPS COORD.: GPS COORD.:	.68457 X 107.71864	DISTANCE/BEA DISTANCE/BEA DISTANCE/BEA	RING FROM W.H.: 108' RING FROM W.H.:	, S19.5E				
SAMPLING DATA:					OVM READING				
SAMPLE ID: SAMPLE ID:	SAMPLE DATE: SAMPLE DATE: SAMPLE DATE:	SAMPLE TIME: SAMPLE TIME: SAMPLE TIME:	LAB ANALYSIS: LAB ANALYSIS: LAB ANALYSIS:	15B/8021B/300.0 (CI)	NA				
COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY CONSISTENCY (NON COHESIVE SOILS): LC MOISTURE: DRY / SLIGHTLY MOIST MOIST W SAMPLE TYPE: GRAB COMPOSITE + # DISCOLORATION/STAINING OBSERVED: YES N	COHESIVE / COHESIVE / HIGHLY COHESIVE / COHE	DENSITY (COHESIVE CLAYS & HC ODOR DETECTED: YES NO ANY AREAS DISPLAYING WETNE	SILTS): SOFT/FIRM/	STIFF / VERY STIFF / HARI					
APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA:	D AND/OR OCCURRED: YES NO EXPL YES NO EXPLANATION -	Anation:							
EXCAVATION DIMENSION ESTIMATION: DEPTH TO GROUNDWATER: >100' N SITE SKETCH			<1,000' NMOC cle: attached OVM TIME	CALIB. READ. = NA CALIB. GAS = NA : NA am/pm DATE: MISCELL. N	ppmRF = 1.00ppmNA				
FIELD REPORT: (circle one): BGT CONFIRMATION! RELEASE INVESTIGATION / OTHER: PAGE # 1 of 1 STENAME PRITCHARD # 4A QUADULINE F SEC. 31 TWP. 29N RIG. 8W PM. NM. CNTY: SJ. ST. NM. 1/4 - 1/4/FOOTAGE: 1,830*N / 1,705*W SE/NW LEASE TYPE: FEDERAL! STATE: / FEE / I/NDAN STRIKE STORES # SF078487A PROD. FORMATION PC/MV CONTRACTOR BP- J. GONZALES STORE SF078487A PROD. FORMATION PC/MV CONTRACTOR BP- J. GONZALES SF08457 X 107.71884 DISTRICT STATE: DONZALES SF08467 X 107.71882 GLEEV. 6,011* 108*, \$19.5E SF08467 X 107.71884 DISTRICT STATE: DONZALES SF08467 X 107.71882 GLEEV. 6,011* 108*, \$19.5E SF08467 X 107.71884 DISTRICT STATE: DONZALES SF08467 X 107.71884 DISTRICT STATE: DONZALES SF08467 X 107.71882 GLEEV. 6,011* 108*, \$19.5E SF08467 X 107.71884 DISTRICT STATE: DONZALES SF08467 X 107.71884 DISTRICT STATE: DONZALES SF08467 X 107.71882 GLEEV. 6,011* 108*, \$19.5E SF08467 X 107.71884 DISTRICT STATE: DONZALES SF084									
				and the second s					

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 5PC-TB @ 3' (21)

Project: PRITCHARD 4A

Collection Date: 3/7/2018 10:20:00 AM

Lab ID: 1803438-001

Matrix: SOIL

Received Date: 3/8/2018 7:00:00 AM

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CJS
Chloride	ND	30	mg/Kg	20	3/8/2018 11:48:43 AM	36903
EPA METHOD 8015D MOD: GASOLINE F	RANGE				Analyst	AG
Gasoline Range Organics (GRO)	ND	4.4	mg/Kg	1	3/8/2018 9:31:05 AM	G49637
Surr: BFB	124	70-130	%Rec	1	3/8/2018 9:31:05 AM	G49637
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS	5			Analyst	TOM
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	3/8/2018 9:49:37 AM	36902
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/8/2018 9:49:37 AM	36902
Surr: DNOP	92.2	70-130	%Rec	1	3/8/2018 9:49:37 AM	36902
EPA METHOD 8260B: VOLATILES SHOP	RT LIST				Analyst	AG
Benzene	ND	0.022	mg/Kg	1	3/8/2018 9:31:05 AM	R49637
Toluene	ND	0.044	mg/Kg	1	3/8/2018 9:31:05 AM	R49637
Ethylbenzene	ND	0.044	mg/Kg	1	3/8/2018 9:31:05 AM	R49637
Xylenes, Total	ND	0.088	mg/Kg	1	3/8/2018 9:31:05 AM	R49637
Surr: 4-Bromofluorobenzene	116	70-130	%Rec	1	3/8/2018 9:31:05 AM	R49637
Surr: Toluene-d8	94.4	70-130	%Rec	1	3/8/2018 9:31:05 AM	R49637

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
- PQL Practical Quanitative Limit
- 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 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Chain-of-Custody Record			Turn-Around 7	ime:	SAME	,		1	H	IAI		FI	VV	TE	20	NI P	4F	NT	A		
Client: BLAGG ENGR. / BP AMERICA			☐ Standard	Rush _	DAY													\TC			
				Project Name:																	-
Mailing Ad	ddress:	P.O. BO	X 87	PRITCHARD #4A			www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109														
	BLOOMFIELD, NM 87413			Project #:						5-34							-410				
Phone #:	Phone #: (505) 632-1199			1									naly	sis	Red	lues	t				
email or F	ax#:			Project Manag	jer:							П		-				1			T
QA/QC Pad Standa	_		Level 4 (Full Validation)		ERIN GARI	FALOS	(8021B)	only)	MRO)			IS)	-	05,50	PCB's			er - 300.1)			a)
Accreditat	ion:			Sampler:	NELSON VI	ELEZ	£ (8)	TPH (Gas	80/	ਜ	ਜ	SE		102,	3082			water			sample
□ NELAP)	□ Other		On free 1887			1	F	2	418	504	827(03,1	8/8		8	300.0			N S
□ EDD (T	ype)			Sample Temp	elange2, 4.4(Kalazika	#	+	(GR(bor	por	o	etal	CLN	icide	(A)	Ϋ́			e S	(Y o
Date	Time	Matrix	Sample Request ID	Container Type and # McHkit	Preservative Type	HEALNO.	BTEX ←M#	BTEX + MTBE	TPH 8015B (GRO / DRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil			5 pt. composite sa Air Bubbles (Y or N)
3/7/18	1020	SOIL	5PC-TB@ 3 ' (21)	4 oz 1	Cool	701	٧		٧						-			٧		-	٧
													\neg						\neg	\top	
											\neg	\dashv							\top	\top	
											\neg	\dashv	\neg						\top	\top	\top
											\neg	\dashv	1						\top	\top	1
										\dashv	\dashv	1	\dashv	_					\dashv	+	+
									\neg	\neg	\dashv	\dashv	7	7					\dashv	+	+
									\dashv		1	\dashv	\dashv	7					+	+	+
							Н		\dashv	\dashv	\dashv	\dashv	\dashv	\dashv				\dashv	+	+	-
-								-	_		+	+	-	-				\dashv	\dashv	+	+
						-		\vdash	\dashv		-	\dashv	-	+				\dashv	\dashv	\dashv	-
Date:	Time:	Relinquish	ed by:	Received by:	1	Date Time	Rem	arks:		BILL D	IRECT	LY TO	BP U	SING	THE	CONT	ACT W	VITH C	ORRES	PONE	ING VID
3/7/18	1546	70	my	Christ	whalle	3/7/18 1540	C	ONTA		& REF							N				
Date: 3/7/14	Time:	Relinquish	of U.S. I. A.	Received by:	1	Date Ilme 03/6/18	CONTACT: ERIN GARIFALOS / VANCE HIXON VID: VHIXONEV11 Reference # P - 933														
1.100	If necessa	ry, samples s	ubmitted to Hall Environmental may be s	ubcontracted to other	accredited laboratorie		this p	ossibili	ty. An	ny sub-	contra	cted d	lata wi	ill be c	dearly	notate	ed on	the an	alytical	report	

Hall Environmental Analysis Laboratory, Inc.

WO#:

1803438

12-Mar-18

Client:

Blagg Engineering

Project:

PRITCHARD 4A

Sample ID MB-36903

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 36903

RunNo: 49642

Prep Date:

3/8/2018

SeqNo: 1606266

Units: mg/Kg

Analyte

Client ID:

Analysis Date: 3/8/2018

HighLimit

RPDLimit

Qual

Chloride

Result PQL ND 1.5

SampType: Ics

RunNo: 49642

TestCode: EPA Method 300.0: Anions

Prep Date:

Sample ID LCS-36903

LCSS

3/8/2018

Batch ID: 36903

SeqNo: 1606267

Units: mg/Kg

%RPD

Analyte

Analysis Date: 3/8/2018

1.5

SPK value SPK Ref Val %REC LowLimit

SPK value SPK Ref Val %REC LowLimit HighLimit

RPDLimit

Qual

Result

Chloride

PQL 14

15.00

95.0

90

%RPD

110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded H

Not Detected at the Reporting Limit ND

Practical Quanitative Limit **PQL**

% Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Detection Limit RL

Sample container temperature is out of limit as specified

Page 2 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **1803438**

12-Mar-18

Client:

Blagg Engineering

Project:

PRITCHARD 4A

Sample ID LCS-36902	SampTy	pe: LC	S	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch	ID: 369	902	R	RunNo: 4	9641				
Prep Date: 3/8/2018	Analysis Da	ate: 3/	8/2018	S	SeqNo: 1	604882	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.5	70	130			
Surr: DNOP	3.9		5.000		78.8	70	130			

Sample ID MB-36902	SampT	уре: МЕ	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch	ID: 36	902	R	RunNo: 4	9641				
Prep Date: 3/8/2018	Analysis D	ate: 3/	8/2018	S	SeqNo: 1	604883	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.8		10.00		87.8	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

PQL Practical Quanitative Limit

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 3 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1803438

12-Mar-18

Client: Project:

Blagg Engineering PRITCHARD 4A

Sample ID 100ng Ics	SampT	ype: LC	S4	Tes	tCode: E	Code: EPA Method 8260B: Volatiles Short List						
Client ID: BatchQC	Batcl	n ID: R4	9637	RunNo: 49637								
Prep Date:	Analysis D	Date: 3/	8/2018	S	SeqNo: 1	604835	Units: mg/k	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.95	0.025	1.000	0	94.8	80	120					
Toluene	0.97	0.050	1.000	0	96.7	80	120					
Ethylbenzene	0.98	0.050	1.000	0	98.0	80	120					
Xylenes, Total	2.8	0.10	3.000	0	92.5	80	120					
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.6	70	130					
Surr: Toluene-d8	0.47		0.5000		94.9	70	130					

Sample ID rb	SampT	ype: ME	BLK	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: PBS	Batch	ID: R4	9637	RunNo: 49637						
Prep Date:	Analysis D	ate: 3/	8/2018	SeqNo: 1604837 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.55		0.5000		110	70	130			
Surr: Toluene-d8	0.48		0.5000		96.4	70	130			

Sample ID 1803438-001ams	SampT	mpType: MS4 TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: 5PC-TB @ 3' (21)	Batch	Batch ID: R49637 RunNo: 49637								
Prep Date:	Analysis D	ate: 3/	8/2018	8	SeqNo: 1	605720	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.022	0.8795	0	92.2	80	120			
Toluene	0.83	0.044	0.8795	0.005154	93.6	80	120			
Ethylbenzene	0.84	0.044	0.8795	0	95.1	80	120			
Xylenes, Total	2.5	0.088	2.639	0.02133	93.7	80	120			
Surr: 4-Bromofluorobenzene	0.43		0.4398		97.4	70	130			
Surr: Toluene-d8	0.41		0.4398		93.3	70	130			

Sample ID 1803438-001ams	I SampTy	SampType: MSD4 TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: 5PC-TB @ 3' (21)	Batch	ID: R4	9637	F	RunNo: 4	9637				
Prep Date:	Analysis Da	lysis Date: 3/8/2018 SeqNo: 1605721 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.77	0.022	0.8795	0	87.1	80	120	5.70	0	
Toluene	0.79	0.044	0.8795	0.005154	89.5	80	120	4.42	0	
Ethylbenzene	0.82	0.044	0.8795	0	93.0	80	120	2.20	0	
Xylenes, Total	2.4	880.0	2.639	0.02133	90.9	80	120	3.08	0	

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

PQL Practical Quanitative Limit

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 4 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1803438

12-Mar-18

Client:

Blagg Engineering

Project:

PRITCHARD 4A

Sample ID 1803438-001amsd

SampType: MSD4

TestCode: EPA Method 8260B: Volatiles Short List

5PC-TB @ 3' (21) Client ID:

Batch ID: R49637

RunNo: 49637

Prep Date:

Analysis Date: 3/8/2018

SeqNo: 1605721

Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.42		0.4398		96.0	70	130	0	0	
Surr: Toluene-d8	0.40		0.4398		90.8	70	130	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1803438

12-Mar-18

Client:

Blagg Engineering

Project:

PRITCHARD 4A

Sample ID 2.5ug gro lcs	SampT	ype: LC	S	TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: LCSS	Batch	Batch ID: G49637 RunNo: 49637								
Prep Date:	Analysis D	ate: 3/	8/2018	S	SeqNo: 1	604832	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	117	70	130			
Surr: BFB	530		500.0		106	70	130			

Sample ID rb	SampT	уре: МЕ	BLK	TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: PBS	Batch	ID: G4	9637	R	tunNo: 4	9637				
Prep Date:	Analysis D	ate: 3/	8/2018	S	SeqNo: 1	604833	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	590		500.0		119	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

PQL Practical Quanitative Limit

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

7 maryte detected below quantitatio

Page 6 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Albuquerque, NM 87109 Sample Log-In Check List

Client Name:	BLAGG	Work Order Nu	mber: 1803438		RcptNo:	1
Received By:	Anne Thorne	3/8/2018 7:00:00	AM ·	an In		
Completed By:	Anne Thorne	3/8/2018 7:22:38	AM	ame Il		
Reviewed By:	IMO	3/8/18	•			
Chain of Cus	tody		*			
1. Is Chain of Cu	ustody complete?	?	Yes 🗹	No 🗌	Not Present	
2. How was the	sample delivered	17	Courier			
Log In		%				
3. Was an attern	pt made to cool	the samples?	Yes 🗹	No 🗌	NA 🗆	
4. Were all samp	les received at a	temperature of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗆	
5. Sample(s) in p	proper container	(s)?	Yes 🗸	No 🗌		
	,	-7.				
6. Sufficient sam	ple volume for in	dicated test(s)?	Yes 🗹	No 🗌	× ×	
7. Are samples (e	except VOA and	ONG) properly preserved?	Yes 🗹	No 🗆		
8. Was preservat	ive added to bott	tles?	Yes 🗌	No 🗹	NA L	
9. VOA vials have	e zero headspac	e?	Yes	No 🗆	No VOA Vials	
10. Were any sam	nple containers re	eceived broken?	Yes	No 🗹	# - #	
			_		# of preserved bottles checked	
11. Does paperwo	rk match bottle la ncies on chain of		Yes 🗹	No 🗌	for pH: (<2 or	>12 unless noted)
		on Chain of Custody?	Yes 🗹	No 🗆	Adjusted?	
13. Is it clear what	-	*	Yes 🗹	No 🗆		
14. Were all holding	-		Yes 🗹	No 🗆	Checked by:	
(If no, notify cu	stomer for autho	rization.)		_		
Special Handli	ng (if applica	able)				
15. Was client not	tified of all discre	pancies with this order?	Yes	No 🗆	NA 🗹	
Person I	Notified:	Dal	e			
By Who	m: .	Via	eMail P	hone Fax	☐ In Person	
Regardii						
	structions:					
16. Additional ren	narks:					
17. Cooler Inform		run, marche e de quanciament e nivera e e e e e	aleccuerces and a second	ractoratement	*	
Cooler No	Temp®C C	ondition Seal Intact Seal No od Yes	Seal Date	Signed By		
C	1	1.00			×	



