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

OIL CONS. DIV DIST. 3
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.

<u>Pit, Below-Grade Tank, or</u> <u>Proposed Alternative Method Permit or Closure Plan Application</u>

Type of action: Below grade tank registration Permit 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-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator: BP America Production Company OGRID #: 778
Address: 200 Energy Court, Farmington, NM 87401
Facility or well name: TAPP LS 004A
0004500050
API Number: 3004523853 OCD Permit Number:
Center of Proposed Design: Latitude 36.66394 Longitude -107.68951 NAD83
Surface Owner: 🔳 Federal 🗌 State 🔲 Private 🗀 Tribal Trust or Indian Allotment
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 Fluid yes no Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D String-Reinforced X W X D X W X D X W
Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.
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, school, hospital, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify



4							
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.							
9. <u>Siting Criteria (regarding permitting)</u> : 19.15.17.10 NMAC <i>Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptate are provided below.</i> Siting criteria does not apply to drying pads or above-grade tanks.	ptable source						
General siting							
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - □ NM Office of the State Engineer - iWATERS database search; □ USGS; □ Data obtained from nearby wells	Yes No						
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							
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No						
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No						
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ☐ No						
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	☐ Yes ☐ No						
Below Grade Tanks							
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No						
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No						
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)							
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No						
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial	☐ Yes ☐ No						
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 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						

A	
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 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 19.1 and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	NMAC 5.17.9 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: or Permit Number:	15.17.9 NMAC

4	
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC 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 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 Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	documents are
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F	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. 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	
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. In 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	☐ 165 ☐ NO

1	
 adopted pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality; Written approval obtained from the municipality 	☐ Yes ☐ No
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ☐ No
Within a 100-year floodplain FEMA map	Yes No
16. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure play a check mark in the box, that the documents are attached.	an. Please indicate,
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17. Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cann Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	15.17.11 NMAC
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 believes	ief.
Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)	
OCD Representative Signature: Approval Date:	810610
OCD Representative Signature: Approval Date: 3131 Title: OCD Permit Number:	019018
19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.	the closure report.
Title: OCD Permit Number: 19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: 12/12/2017	the closure report.
19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.	the closure report. complete this
OCD Permit Number: 19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: 12/12/2017 20. Closure Method: If different from approved plan, please explain. 21. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please in mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division)	the closure report. complete this
Title: Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: 12/12/2017 20. Closure Method: If different from approved plan, please explain. Alternative Closure Method Waste Removal (Closed-logical Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please in mark in the box, that the documents are attached.	the closure report. complete this
Title: Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: 12/12/2017 20. Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-location) If different from approved plan, please explain. 21. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please in mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure for private land only) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number	the closure report. complete this
19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: 12/12/2017 20. Closure Method: If different from approved plan, please explain. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please in mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure for private land only) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (frapplicable) Waste Material Sampling Analytical Results (required for on-site closure)	the closure report. complete this

Operator Closure Certification:	
	with this closure report is true, accurate and complete to the best of my knowledge and e closure requirements and conditions specified in the approved closure plan.
Name (Print): Erin Garifalos	Title: Field Environmental Coordinator
erin garifalos	
Signature:	Date: February 7, 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

TAPP LS 004A

API No. 3004523853

Unit Letter F Section 16 T 28N 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
	45 bbl BGT	(mg/Kg)	results
Benzene	US EPA Method SW-846 8021B or 8260B	10	< 0.013
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	0.40
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	2490
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 above the stated limits except chloride. The release will be addressed following the spill and release guidelines. 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 occurred and will be addressed following spill and release guidelines. 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 occurred and will be addressed following spill and release guidelines. 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 a 105 BBL shallow low profile above-grade tank set partially atop BGT location. 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 a 105 BBL shallow low profile above-grade tank set partially atop BGT location. 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 a 105 BBL shallow low profile above-grade tank set partially atop BGT location. 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 a 105 BBL shallow low profile above-grade tank set partially atop BGT location. 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 a 105 BBL shallow low profile above-grade tank set partially atop BGT location. 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.

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

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

Form C-141

Revised April 3, 2017

			Rele	ease Notific	catior	and Co	orrective A	ction				
						OPERA	ГOR		■ Initia	al Report		Final Report
				tion Compan			n Garifalos	70.40				
Facility Na			rmingto	on, NM 87401			No. (832) 609- ne : Natural Ga		I			
Surface Ow	ner: Fede	eral		Mineral (Owner:	Federal			API No	.300452	3853	3
				LOCA	ATIO	OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the		Vest Line	County	'on	luon
F	16	28N	W80	,	Nor		1,815	Wes	st		an	Juan
			Latitud	e 36.66394	Lo	ongitude1	07.68951	NAD8	33			
				NAT	TURE	OF REL						
Type of Rele	ase:: none						Release: unknown			Recovered: : Hour of Dis		
Source of Re			nk - 45	bbl		n/a			n/a			
Was Immedi	ate Notice G		Yes 🗸	No Not R	equired	If YES, To	Whom?					
By Whom?		1 10				Date and H						
Was a Water	course Reac		Yes 🗸	No		If YES, Vo	olume Impacting	the Wate	rcourse.			
If a Watercon	ırse was Imp	pacted, Descr	be Fully.*	¢ .								
Describe Cau	use of Proble	em and Reme	dial Action	for Ch releas	lorides, e will be	BTEX, and	ath the BGT wa TPH above BG following the sp ched.	T closur	e standar	ds except (Chlorid	es. The
Describe Are	a Affected a	and Cleanup A	Action Tak	The rele			dressed follo atory analysi			and rel	ease	
regulations a public health should their	Il operators a or the envir operations hand nment. In ac	are required to conment. The ave failed to a ddition, NMC	report and acceptance dequately CD accep	nd/or file certain re te of a C-141 repo investigate and r	release no ort by the remediate	otifications as NMOCD m contaminati	knowledge and und perform correct arked as "Final R on that pose a thr e the operator of	etive action deport" do reat to gro responsi	ons for rele oes not reli ound water bility for co	eases which eve the open surface was compliance was	may en rator of ter, hui vith any	danger liability man health
	rin a	ATTER D.	. 1				OIL CON	SERV	ATION	DIVISIO	<u>N</u>	
Signature:	run g	orifale	4			Annroved b-	Environmental S	pecial	10			
Printed Name	Erin G	arifalos				Approved by	Environmental S	pecialist	a			
Title: Field	d Enviro	onmenta	I Coo	rdinator		Approval Dat	e: 2/20/2	ag B	Expiration 1	Date:		
E-mail Addre	_{ess:} erin. ဇု	garifalos	@bp.	com	(Conditions of	Approval:			Attached		
Date: Febru				(832) 609-70	048		_			- Titaenou		
* Attach Addi	tional Shee	ts If Necess	ary			NVF	18051	37	03.3	3		

bp



BP America Production Company 200 Energy Court Farmington, NM 87401

December 4, 2017

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: TAPP LS 004A

API #: 3004523853

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 December 7, 2017. 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, Cory, EMNRD; Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us)

Cc:

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

Subject: Date: RE: BP Pit Close Notification - TAPP LS 004A Monday, December 04, 2017 3:58:22 PM

BP America Production Company

200 Energy Court Farmington, NM 87401 Phone: (505) 326-9200

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

December 4, 2017

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

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

TAPP LS 004A API 30-045-23853 (F) Section 16 – T28N – 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 45bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around December 7, 2017.

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

BP				40	API #: 30	04523	3853
CLIENT:				13	TANK ID (if applicble):	Α	1
FIELD REPORT:	(circle one): BGT CONFIRMATION	RELEASE INVESTIG	ATION / OTHER:		PAGE #:	1 .	of
P.O. BOX 87, BLOOMFIELD, NM 87413 (\$605) 632-1199 FIELD REPORT: (circle one): BSTCOMFRINATION: RELEASE INVESTIGATION / OTHER: PAGE #: 1 of 1 DATE STARTED. DATE STARTE							
P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199 FIELD REPORT: (dirde one): BSTCONFRMATION): RELASE MESTIGATION / OTHER PAGE #: 1 of 1 JAMES TENNE TAPP LS #4A **A-14MCOTORGE 1,850*N) 1,815*W SEINW LEASE TYPE: [FEDERAL]: STATE / FEE / INDIAN **A-14MCOTORGE 1,850*N) 1,815*W SEINW LEASE TYPE: [FEDERAL]: STATE / FEE / INDIAN **A-14MCOTORGE 1,850*N) 1,815*W SEINW LEASE TYPE: [FEDERAL]: STATE / FEE / INDIAN **A-14MCOTORGE 1,850*N) 1,815*W SEINW LEASE TYPE: [FEDERAL]: STATE / FEE / INDIAN **A-14MCOTORGE 1,850*N) 1,815*W SEINW LEASE TYPE: [FEDERAL]: STATE / FEE / INDIAN **A-14MCOTORGE 1,850*N) 1,815*W SEINW LEASE TYPE: [FEDERAL]: STATE / FEE / INDIAN **A-14MCOTORGE 1,850*N) 1,815*W SEINW LEASE TYPE: [FEDERAL]: STATE / FEE / INDIAN **A-14MCOTORGE 1,850*N) 1,815*W SEINW LEASE TYPE: [FEDERAL]: STATE / FEE / INDIAN **A-14MCOTORGE 1,850*N) 1,815*W SEINW LEASE TYPE: [FEDERAL]: STATE / FEE / INDIAN **A-14MCOTORGE 1,850*N) 1,815*W SEINW LEASE TYPE: [FEDERAL]: STATE / FEE / INDIAN **A-14MCOTORGE 1,850*N) 1,815*W SEINW LEASE TYPE: [FEDERAL]: STATE / FEE / INDIAN **A-14MCOTORGE 1,850*N) 1,815*W SEINW LEASE TYPE: [FEDERAL]: STATE / FEE / INDIAN **A-14MCOTORGE 1,850*N) 1,815*W SEINW LEASE TYPE: [FEDERAL]: STATE / FEE / INDIAN **A-14MCOTORGE 1,850*N) 1,815*W SEINW LEASE TYPE: [FEDERAL]: STATE / FEE / INDIAN **A-14MCOTORGE 1,850*N) 1,815*W SEINW LEASE TYPE: [FEDERAL]: STATE / FEE / INDIAN **A-14MCOTORGE 1,850*N) 1,815*W SEINW LEASE TYPE: [FEDERAL]: STATE / FEE / INDIAN **A-14MCOTORGE 1,850*N) 1,815*W SEINW LEASE TYPE: [FEDERAL]: STATE / FEE / INDIAN **A-14MCOTORGE 1,850*N) 1,815*W SEINW LEASE TYPE: [FEDERAL]: STATE / FEE / INDIAN **A-15MCOTORGE 1,850*N) 1,815*W SEINW LEASE TYPE: [FEDERAL]: STATE / INDIAN **A-14MCOTORGE 1,850*N) 1,815*W SEINW LEASE TYPE: [FEDERAL]: STATE / INDIAN **A-15MCOTORGE 1,850*N) 1,815*W SEINW LEASE TYPE: [FEDERAL]: STATE / INDIAN **A-15MCOTORGE 1,850*N) 1,815*W SEINW LEASE TYPE: [FEDERAL]: STATE / INDIAN **A-15MCOTORGE 1,850*N) 1,815*W SEINW LEASE TYPE: [FEDERAL]: STATE / INDIAN **A							
		CT	DIVE				
LEASE #: SF078499	PROD. FORMATION: MV/CHA	CONTRACTOR: BF	- J. GONZALI	ES	SPECIALIST(S):	N	JV
				7.68980	GL EL	_	4
1) 45 BGT (SW/DB)	GPS COORD.:	36.66394 X 107.6	88951	DISTANCE/BEAL	RING FROM W.H.:	105', N	18.5E
,							
		W 0.0 1 1.0 1.05 D		DISTANCE/BEAF	RING FROM W.H.:		OVM
				801	15B/8021B/300 0	(CI)	(ppm)
					100/002 10/000.0	(01)	1,004
			LAB ANALYS	SIS:			
					CK (CHALE/CAND	CTONE	
SOIL COLOR: MOSTLY DARK COHESION (ALL OTHERS): NON COHESIVE / SLIGHTL' CONSISTENCY (NON COHESIVE SOILS): LC MOISTURE: DRY SLIGHTLY MOIST MOIST W SAMPLE TYPE: GRAB COMPOSITE]: #	YPELLOWISH BROWN COHESIVE / COHESIVE / HIGHLY COHESIN COSE / FIRM / DENSE / VERY DENSE T) SATURATED / SUPER SATURATED OF PTS. 5	PLASTICITY (CLAYS): I DENSITY (COHESIV HC ODOR DETECTED BENEATH BGT ANY AREAS DISPLAYI	NON PLASTIC / SLIGHTI E CLAYS & SILTS): S YES NO EXPLANA NG WETNESS: YES	YPLASTIC/CO OFT/FIRM/ TION- MOS	OHESIVE / MEDIUM PL STIFF / VERY STIFF STLY FROM DISCO	ASTIC / HIGH / HARD DLORED I	BEDROCK
APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA: [OTHER: NMOCD OR BLM REPS. NOT PROBLEM TEST HOLES (see site sket) EXCAVATION DIMENSION ESTIMATION:	DAND/OR OCCURRED: YES NO EXPENDED TO SERVICE OF THE PROPERTY O	RPLANATION: PHYSICA BL SHALLOW LOW PROMATION SAMPLING. PECTED. ft. X	LLY; DISCOLOREI DFILE ABOVE-GRAD BEDROCK - SOF ft. EXCAN	E TANK TO E T TO HARD	APPARENT HYDR BE PARTIALLY SET A STARTING AT 4.5 TIMATION (Cubic Y	ATOP BGT 5 FT. BEL	LOCATION. OW
BERM PROD.	IMPACTS OBSERVED ~ 6.5 FT. B.G.	TH COM	RD STONE T. B.G.	N I TIME WR RVI	MISCELL //O: EF #: P-857 ID: VHIXOI J #: ermit date(s): CD Appr. date(s):	NEVB2 06/14 03/03 ic Vapor Meter million sible: Y /(12/07/17 TES 2 4/10 3/17 ter N
NOTES: BGT = BELOW-GRADE TANK: E.D. = EXCAVATION		= BELOW; T.H. = TEST HOLF:				Maranasa da de	
FIELD REPORT: (circle one): BSTCOMPRIANTON) SITE INFORMATION: SITE							
NOTES: GOOGLE EARTH IMAGI	ERY DATE: 10/5/2016.	ONSITE:	12/07/17				

Analytical Report

Lab Order 1712473

Date Reported: 12/12/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 5PC-TB @ 4.5' (45)

Project: TAPP LS 4A

Collection Date: 12/7/2017 11:15:00 AM

Lab ID: 1712473-001

Matrix: SOIL

Received Date: 12/8/2017 7:55:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CJS
Chloride	ND	30		mg/Kg	20	12/8/2017 12:52:45 PM	35404
EPA METHOD 8015M/D: DIESEL RANG	SE ORGANICS					Analyst	MAB
Diesel Range Organics (DRO)	1200	93		mg/Kg	10	12/8/2017 11:19:08 AM	35399
Motor Oil Range Organics (MRO)	540	470		mg/Kg	10	12/8/2017 11:19:08 AM	35399
Surr: DNOP	0	70-130	S	%Rec	10	12/8/2017 11:19:08 AM	35399
EPA METHOD 8015D: GASOLINE RAN	GE					Analyst	NSB
Gasoline Range Organics (GRO)	750	27		mg/Kg	5	12/8/2017 11:24:44 AM	35387
Surr: BFB	1010	15-316	S	%Rec	5	12/8/2017 11:24:44 AM	35387
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.13		mg/Kg	5	12/8/2017 11:24:44 AM	35387
Toluene	ND	0.27		mg/Kg	5	12/8/2017 11:24:44 AM	35387
Ethylbenzene	0.40	0.27		mg/Kg	5	12/8/2017 11:24:44 AM	35387
Xylenes, Total	11	0.53		mg/Kg	5	12/8/2017 11:24:44 AM	35387
Surr: 4-Bromofluorobenzene	111	80-120		%Rec	5	12/8/2017 11:24:44 AM	35387

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 5
- 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 1	ime:	SAME					AL		E	NI'V	/TE	20	B.I B	AF	NT.	FAI		-		
Client:	BLAG	G ENGR.	/ BP AMERICA	Standard	☑ Rush _	DAY)			H										AT(
				Project Name:													.com					
Mailing A	ddress:	P.O. BO	X 87	1	TAPP LS #	4A		49	01 H	lawk									9			
		BLOOM	FIELD, NM 87413	Project #:)5-34							-410					
Phone #:		(505) 63	32-1199	1											Red							
email or I	Fax#:			Project Manag	jer.									~				ਜ			Т	
QA/QC Pa	-		Level 4 (Full Validation)		NELSON VI	LEZ	84s (8021B)	only)	/ MRO)			(5		04,504	PCB's			er - 300.1)				
Accredita				Sampler:	NELSON VI	ELEZ ny	8 (80	Gas	DRO /	ਜ	1)	SIM		02,6	082			wat			mple	
□ NELAF	D	□ Other		On ice	K(Yes	END	1	PH	d/0	118.	504.	3270		N,8C	8/8		(A)	0.00			e sal	IN
□ EDD (Type)			Sample Temp	rature //		I	E+1	(GRC	7 po	po	or 8	etals	J,N	cide	A	- N	il - 30		9	osit	2
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	FIEAL No. 17/2473	BTEX +NHB	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO /	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 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0 / water		Grab sample	5 pt. composite sample	Air Ruhhlac (V nr M)
12/7/17	1115	SOIL	5PC - TB @ 4.5 (45)	4 oz 1	Cool	-201	٧		٧									٧			٧	_
																				\neg		_
																				\neg	\top	_
																			\Box	\neg	\neg	-
											_									\dashv	\rightarrow	-
													_							\dashv	+	
							\vdash						_		-					\dashv	+	_
																				\dashv	+	_
-	-	-					\vdash				_				_			\vdash		\dashv	-	_
	-						-	-			-			-	-	-				\dashv	\dashv	_
							-	-			_		-				-		\vdash	\dashv	+	_
								-			_	_	-	_	-		\vdash			\rightarrow	\dashv	
Date:	Time:	Relinquish	ed by:	Received by:		Date Time	Rem	narks		BILL	DIREC	TLYT	O RP I	USING	THE	CONT	ACT	VITH (COPPE	SPON	DING \	VIF
12/7/17	1930	90	lulf	[Ww	\	12/7/1 /90					FEREN	ICE#	WHE	N APP	LICA	BLE;		min	DANE	ar GIV	Jind 1	<u>- 11.</u>
Date:	Time:	Relinquish	2 marie	Received by:	1	Date' Time 12/8/17				VHI			2									
14/1/17	2003	1 1	N WO	1/1	me C	0753	Re	feren	ice #	_	P -	857	_									_

Hall Environmental Analysis Laboratory, Inc.

WO#:

1712473

12-Dec-17

Client:

Blagg Engineering

Project:

TAPP LS 4A

Sample ID MB-35404

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

Batch ID: 35404

RunNo: 47637

Prep Date:

12/8/2017

Analysis Date: 12/8/2017

SeqNo: 1523421

Units: mg/Kg

SPK value SPK Ref Val %REC LowLimit HighLimit

%RPD

%RPD

RPDLimit

Qual

Analyte Chloride

Client ID:

Result PQL ND

SampType: Ics

TestCode: EPA Method 300.0: Anions

Sample ID LCS-35404

LCSS

Batch ID: 35404

RunNo: 47637

Prep Date: 12/8/2017

Analysis Date: 12/8/2017

14

SeqNo: 1523422

Units: mg/Kg

HighLimit

Qual

RPDLimit

PQL

15.00

%REC

Chloride

Analyte

SPK value SPK Ref Val 1.5

93.1

110

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank В

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

4.1

5.000

WO#:

1712473

12-Dec-17

Client:

Blagg Engineering

Project:

Surr: DNOP

TAPP LS 4A

Sample ID MB-35399	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 3539	Batch ID: 35399 RunNo: 47624							
Prep Date: 12/8/2017	Analysis Date: 12/	8/2017	S	eqNo: 1	521657	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		87.5	70	130			
Sample ID LCS-35399	SampType: LCS		Test	Code: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch ID: 3539	99	R	unNo: 4	7624				
Prep Date: 12/8/2017	Analysis Date: 12/3	8/2017	S	eqNo: 1	521778	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46 10	50.00	0	91.9	73.2	114			

81.2

70

130

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В 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

Sample container temperature is out of limit as specified

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1712473

12-Dec-17

Client:

Blagg Engineering

Project:

TAPP LS 4A

Sample ID MB-35387	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 35387			RunNo: 47630						
Prep Date: 12/7/2017	Analysis Date: 12/8/2017		SeqNo: 1522746			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	15	316			

Sample ID LCS-35387 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 35387 RunNo: 47630 Prep Date: Analysis Date: 12/8/2017 SeqNo: 1522747 Units: mg/Kg 12/7/2017 SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result PQL LowLimit Gasoline Range Organics (GRO) 28 0 113 131 5.0 25.00 75.9 1200 316 Surr: BFB 1000 116 15

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

dantitation inints

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

0.95

1.000

WO#:

1712473

12-Dec-17

Client:

Blagg Engineering

Project:

Surr: 4-Bromofluorobenzene

TAPP LS 4A

Sample ID MB-35387	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 35387			RunNo: 47630						
Prep Date: 12/7/2017	Analysis Date: 12/8/2017			5	SeqNo: 1	522757	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	0.99		1.000		99.3	80	120			
Sample ID LCS-35387	SampT	SampType: LCS TestCode: EPA Method					8021B: Volat	tiles		
Client ID: LCSS	Batch ID: 35387			RunNo: 47630						
Prep Date: 12/7/2017	Analysis Date: 12/8/2017			SeqNo: 1522758			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.7	77.3	128			
Toluene	0.94	0.050	1.000	0	94.2	79.2	125			
Ethylbenzene	0.93	0.050	1.000	0	93.4	80.7	127			
Xvlenes. Total	2.8	0.10	3.000	0	94.8	81.6	129			

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

80

94.9

120

E Value above quantitation range

J Analyte detected below quantitation limits

Page 5 of 5

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

Sample Log-In Check List

Client Name:	BLAGG	Work Order Numb	er: 1712473		RcptNo:	1			
Received By:	Anne Thome	12/8/2017 7:55:00 A	M	aone Am	_				
Completed By: Reviewed By:	Anne Thorne	12/8/2017 8:27:06 A	M	Arne Arm Arne Arm					
Chain of Cus	<u>tody</u>								
1. Custody sea	ils intact on sample bot	ttles?	Yes	No 🗆	Not Present 🗹				
2. Is Chain of C	Custody complete?		Yes 🗹	No 🗌	Not Present				
3. How was the	e sample delivered?		Courier						
Log In									
4. Was an atte	mpt made to cool the	samples?	Yes 🗹	No 🗆	NA 🗆				
5. Were all san	nples received at a terr	nperature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆				
6. Sample(s) in	n proper container(s)?		Yes 🗹	No 🗆					
7. Sufficient sa	mple volume for indica	ted test(s)?	Yes 🗹	No 🗌					
8. Are samples	(except VOA and ONG	G) properly preserved?	Yes 🗹	No 🗆		¥.			
9. Was preserv	rative added to bottles?	,	Yes 🗌	No 🗹	NA 🗆				
40				N. 🗆	* N= NOA NI=I= 1				
	eve zero headspace?		Yes 🗌	No 🗆	No VOA Vials				
11. Were any sa	ample containers receiv	ved broken?	Yes U	No 🗹	# of preserved				
12 Does paper	vork match bottle label	•2	Yes 🗹	No 🗆	bottles checked for pH:				
	pancies on chain of cus			140		r >12 unless noted)			
13. Are matrices	correctly identified on	Chain of Custody?	Yes 🗹	No 🗆	Adjusted?	· · · ·			
14. Is it clear wh	at analyses were reque	ested?	Yes 🗸	No 🗆					
	15. Were all holding times able to be met?			No 🗌	Checked by:	· .			
(If no, notify	customer for authoriza	tion.)							
Special Hand	ling (if applicable	·)	y *						
	otified of all discrepand		Yes	No 🗆	NA 🗹				
Person	Notified:	Date	The state of the s	Semantic Company]			
By Wh	om:	Via:	eMail	Phone Fax	☐ In Person				
Regard	ding:				The state of the state of the state of				
Client	Instructions:	Billiania — 4,000 ta basiliania non — 1,000 Milana a avo ciria ta distribucció							
17. Additional remarks:									
18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By									
[1	1.0 Good	Yes		1075da					



