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
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Department
Oil Conservation Division

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

1 toposed Attendative Method 1 ethilt of Closure 1 lan Application	
Type of action: Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed 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	
lease 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 avironment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances	s.
Operator: BP America Production Company OGRID #: 778 OIL CONS. DIV DIST. 3	
Address: 200 Energy Court, Farmington, NM 87401	
Facility or well name: RIDDLE D LS 003A	
2004522424	
API Number: OCD Permit Number: U/L or Qtr/Qtr O Section 22 Township 31N Range 09W County: San Juan	
Center of Proposed Design: Latitude 36.879236 Longitude -107.764863 NAD83	
Surface Owner: Federal State Private Tribal Trust or Indian Allotment	
Surface Owner. Tederal State Trivate Triva	_
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 not 2 120 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	
Below-grade tank: Subsection I of 19.15.17.11 NMAC TANK A Volume: 95bbl Type of fluid: Produced Water	
Tank Construction material: Steel	
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other Single wall/ Double bottom; sidewalls not visible	
Liner type: Thicknessmil	
Alternative Method:	
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
5.	
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)	
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)	
Four foot height, four strands of barbed wire evenly spaced between one and four feet	
Alternate. Please specify	
	_

x .	
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)	
Monthly hispections (if fletting of 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	
Nation State Stat	
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 acceptate are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - 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	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). - Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ 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 19.13 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:	

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 Lak 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 Fallernative 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 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. 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
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	□ Vea□ Na
Within 300 feet of a wetland.	Yes No
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
The state of the s	

- 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
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan 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. 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	11 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 beli	ef
Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	
e-mail address: OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 2 2 2 2 2	οροίλ
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 2 2 2 Title: OCD Permit Number:	οροίλ
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: OCD Permit Number: OCD Permit Number: 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.	
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: OCD Permit Number: OCD Permit Number: 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	
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: OCD Permit Number: OCD Permit Number: 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.	complete this

Operator Closure Certification:	
I hereby certify that the information and attachments subm	nitted with this closure report is true, accurate and complete to the best of my knowledge and
belief. I also certify that the closure complies with all appl	licable closure requirements and conditions specified in the approved closure plan.
Name (Print): Erin Garifalos	Title: Field Environmental Coordinator
Signature:	Date: November 9, 2017
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

RIDDLE D LS 003A API No. 3004522424

Unit Letter O Section 22 T 31N R 09W

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
	95 bbl BGT	(mg/Kg)	results
Benzene	US EPA Method SW-846 8021B or 8260B	10	< 0.017
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.069
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	186
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 occurred but is below regulatory standards. 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 but is below regulatory standards. Attached is a laboratory report and field report.

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 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 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 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 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 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.

BP did not meet the 60 closure completion requirement due to an error in internal tracking. 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
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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

Release Notification and Corrective Action

						OPERA	ΓOR		Initial	al Report		Final Report
Name of Co	mpany BP	America Produc	tion Compar	ny		Contact Erin	1720 (1-20)					
		t, Farmington, N	M 87401				No. (832) 609-7048					
Facility Na	ne RIDDLE I	D LS 003A				Facility Typ	e: Natural Gas We	II				
Surface Ow	ner : Federa	I		Mineral C)wner:	Federal			API No	3004522424		
				LOCA	ATIO	N OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North	South Line	Feet from the	East/	West Line	County		
0	22	31N	09W	1,015	Sou	uth	1,685	Eas	st	S	an	Juan
			Latitud	_e 36.879236	L	ongitude1	07.764863	NAD	83			
				NAT	URE	OF REL	EASE					
Type of Rele	ase:: none)					Release:: unkno			Recovered::		
Source of Re	lease: belo	w grade ta	nk - 95	obl		Date and F	Hour of Occurrence	e:	Date and n/a	Hour of Disc	covery	
Was Immedia		Given?				If YES, To	Whom?		1			
			Yes	No Not Re	equired							
By Whom?	P.	1 10				Date and H		1 111				
Was a Water	course Reac		Yes	No		If YES, Vo	olume Impacting t	the Wat	ercourse.			
If a Watercou	irse was Im	pacted, Descr	ibe Fully.*									
Describe Cau	se of Proble	em and Remed	dial Actior	Taken.*	olina	of the soil	beneath the	, PCT	- was do	ano durin	a ron	noval
				Soil a	analys	is resulte	d for Chloric Field reports	les, E	BTEX, ar	nd TPH b	elow	BGT
Describe Are	a Affected	and Cleanup A	Action Tak	No actio		essary. F on is requ	inal laborato	ory a	nalysis (determine	ed no	0
regulations all public health should their of or the environ	I operators or the envir operations h nment. In a	are required to ronment. The lave failed to a	o report an acceptance adequately OCD accept	d/or file certain r e of a C-141 repo investigate and r	elease nort by the emediate	otifications as e NMOCD m e contaminati	knowledge and und perform correct arked as "Final R on that pose a three the operator of the correct arked as "Final R" on the operator of the correct arked as "Final R" or the operator of the correct arked as "Final R" or the operator of the correct arked as "Final R" or the operator of the correct arked as "Final R" or the operator of the correct arked as "Final R" or the operator of the correct arked as "Final R" or the operator of the correct arked as "Final R" or the operator of the correct arked as "Final R" or the operator of the correct arked as "Final R" or the operator of the correct arked as "Final R" or the operator of the correct arked as "Final R" or the operator of the correct arked as "Final R" or the operator of the correct arked as "Final R" or the operator of the correct arked as "Final R" or the operator of the ope	etive act eport" of eat to g	tions for rele does not rele round water	eases which in ieve the oper- r, surface wat	may en ator of ter, hu	danger liability man health
		-1					OIL CON	SERV	ATION	DIVISIO	N	
Sim &	run g	wiffalo	4						1-)	
						Approved by	Environmental S	pecialis	t:	()		
Printed Name	Erin G	arifalos						1	O		C	7
Title: Field	Enviro	onmenta	d Coor	dinator		Approval Dat	e:121701	7	Expiration 1	Date:		
E-mail Addre	ss: erin.	garifalos	@bp.	com		Conditions of	1-1.			Attached		
Date: Noven	ber 9, 20	17	Phone:	(832) 609-7048			_					
Attach Addi	ional Shee	ets If Necessa	ary			MF	-17351	43	743	34		

bp



BP America Production Company 200 Energy Court Farmington, NM 87401

September 8, 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: RIDDLE D LS 003A

API #: 3004522424

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 September 11, 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 (505)-326-9497.

Sincerely,

Steven Moskal

BP America Production Company

Garifalos, Erin

From:

Buckley, Farrah (CH2M HILL)

Sent:

Friday, September 08, 2017 12:54 PM

To:

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

'brandon.powell@state.nm.us'

Cc:

'jeffcblagg@aol.com'; 'blagg_njv@yahoo.com'; Moskal, Steven; Garifalos, Erin

Subject:

BP Pit Close Notification - RIDDLE D LS 003A

BP America Production Company

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

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

September 8, 2017

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

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

RIDDLE D LS 003A API 30-045-22424 (O) Section 22– T31N – R09W 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 95bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around September 11, 2017.

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

Sincerely,

Steven Moskal BP Field Environmental Coordinator

(505) 326-9497

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		GINEERING, INC. DOMFIELD, NM 8741:	3	API#: 300452	2424
		632-1199		TANK ID (if applicble):	4
FIELD REPORT:	(circle one): BGT CONFIRMATION / RI	ELEASE INVESTIGATION / OTHER:		PAGE #: 1	of
SITE INFORMATION	I: SITE NAME: RIDDLE I	D LS #3A		DATE STARTED: 09	/11/17
QUAD/UNIT: 0 SEC: 22 TWP:	31N RNG: 9W PM:	NM CNTY: SJ ST:	NM	DATE FINISHED:	
1/4 - 1/4/FOOTAGE: 1,015'S / 1,6		E: FEDERAL/STATE/FEE/IND STRIKE TRACTOR: BP-J. GONZALES		ENVIRONMENTAL SPECIALIST(S):	VJV
REFERENCE POINT		OORD.: 36.87914 X 107.			
1) 95 BGT (SW/DB)					0,274 N54W
1) 33 BOT (044/DB)	GPS COORD.:			RING FROM W.H.:	
3)	GPS COORD.:			RING FROM W.H.:	
4)	GPS COORD::			RING FROM W.H.:	
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OR L		77 1102 52 1		OVM READING
	' (95) SAMPLE DATE: 09/11/17		801	5B/8021B/300.0 (CI)	(ppm)
2) SAMPLE ID:		SAMPLE TIME: LAB ANALYSIS:			
3) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME: LAB ANALYSIS:			
4) SAMPLE ID: 5) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME: LAB ANALYSIS: SAMPLE TIME: LAB ANALYSIS:			
SOIL DESCRIPTION					
SOIL COLOR: MODE COHESION (ALL OTHERS): NON COHESIVE SLIGHTL CONSISTENCY (NON COHESIVE SOILS): LC MOISTURE: DRY / SLIGHTLY MOIST / WOIST / W SAMPLE TYPE: GRAB (COMPOSITE) # DISCOLORATION/STAINING OBSERVED: YES M	Y COHESIVE / COHESIVE / HIGHLY COHESIVE DOSE FIRM DENSE / VERY DENSE HOET / SATURATED / SUPER SATURATED # OF PTS AN	ASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PENSITY (COHESIVE CLAYS & SILTS): SOF CODOR DETECTED: YES NO EXPLANATION BY AREAS DISPLAYING WETNESS: YES NO	T/FIRM/S	STIFF / VERY STIFF / HARD	
SITE OBSERVATION	S: LOST INTEGRITY OF EQUIPMENT: YE				
APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA: OTHER: NMOCD OR BLM NOT PRESEN	YES NO EXPLANATION - 105 BBL SI	HALLOW LOW PROFILE ABOVE-GR	ADE TAN	NK TO BE SET ATOP BGT	LOCATION.
EXCAVATION DIMENSION ESTIMATION	NA ft. X NA ft	t. X NA ft. EXCAVAT	TION EST	IMATION (Cubic Yards) :	NA
DEPTH TO GROUNDWATER: >100'	IEAREST WATER SOURCE: >1,000'	NEAREST SURFACE WATER: <1,000'	_ NMOC	D TPH CLOSURE STD:1,	000 ppm
SITE SKETCH	BGT Located: off on site	PLOT PLAN circle: attache	ed OVM	CALIB. READ. = NA	ppm RF =1.00
			A		ppm Rr = 1.00
		BERM	TIME:	. NA am/pm DATE:	NA
PBGTL T.B. ~ 4.5'			`\ <u></u>	MISCELL. NO	TES
B.G.	$\sqrt{\sum_{(x \times x)} x}$		Ιw	O:	
	Trix's	FENCE		EF #: P-843	
SOUND	PROD.		VI	D: VHIXONEVB	2
WALLS	TANK		P.	J#:	
\1			Pe		14/10
COMPRESSOR		PUMP	O(09/17 Meter
COMPRESSOR	SEPARATOR	W.H. \oplus JACK	ID A	ppm = parts per million	
		V 65		BGT Sidewalls Visible: Y	
NOTES, DOT - DELOWODADE TANK E.D. EVOLUTE	ON DEDDECOION, D.O DELOWADARE B DELOW	X - S.P.		BGT Sidewalls Visible: Y	
	ON DEPRESSION; B.G. = BELOWGRADE; B = BELOV OW-GRADE TANK LOCATION; SPD = SAMPLE POINT E WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM	T DESIGNATION; R.W. = RETAINING WALL; NA - NOT	M	agnetic declination: 1	
NOTES: GOOGLE EARTH IMAG	ERY DATE: 10/5/2016.	ONSITE: 09/11/17			

Analytical Report

Lab Order 1709518

Date Reported: 9/18/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 5PC-TB @ 4.5' (95)

Project: RIDDLE D LS #3A

Collection Date: 9/11/2017 11:45:00 AM

Lab ID: 1709518-001

Matrix: SOIL

Received Date: 9/12/2017 7:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	30	mg/Kg	20	9/13/2017 1:12:26 PM	33817
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S			Analyst	TOM
Diesel Range Organics (DRO)	36	9.4	mg/Kg	1	9/12/2017 10:35:40 AM	33815
Motor Oil Range Organics (MRO)	150	47	mg/Kg	1	9/12/2017 10:35:40 AM	33815
Surr: DNOP	111	70-130	%Rec	1	9/12/2017 10:35:40 AM	33815
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	9/12/2017 12:16:22 PM	33798
Surr: BFB	95.3	54-150	%Rec	1	9/12/2017 12:16:22 PM	33798
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.017	mg/Kg	1	9/12/2017 12:16:22 PM	33798
Toluene	ND	0.034	mg/Kg	1	9/12/2017 12:16:22 PM	33798
Ethylbenzene	ND	0.034	mg/Kg	1	9/12/2017 12:16:22 PM	33798
Xylenes, Total	ND	0.069	mg/Kg	1	9/12/2017 12:16:22 PM	33798
Surr: 4-Bromofluorobenzene	102	66.6-132	%Rec	1	9/12/2017 12:16:22 PM	33798

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

CI	hain-c	of-Cus	stody Record	Turn-Around	Time:	SAME				ı.	IA		=	MIN	/TE	20		ME	NT	CAI		
Client:			/ BP AMERICA	☐ Standard	☑ Rush _	DAY)	-		K				+						AT(
				Project Name						•							.com		***		L	
Mailing Ad	ddress:	P.O. BO	X 87	RI	DDLE D LS	# 3A		49	01 F	lawk								3710	9			
		BLOOM	FIELD, NM 87413	Project #:								975			-		-410					
Phone #:		(505) 63		1					5			and the latest design of			Red		-				î.	
email or F	ax#:			Project Manag	ger:													(i		T		
QA/QC Pad			Level 4 (Full Validation)		NELSON V	ELEZ	(8021B)	only)	MRO)			(S)		04,504	PCB's			er - 300.1)			9	
Accreditat	tion:			Sampler:	NELSON V	ELEZ ny	188	(Gas	RO /	1)	1)	SIN		102,1	3082			/ water		.	du	
□ NELAP		□ Other		iOhillee 2 1	₽ Yes	ili No-	1	TPH (Gas	0/0	418	504	827	S	03,1	ss/		(A)	300.0			te sa	S
	ype)				ejature .	1-6	ŧ	BE +	(GR	pou	poq	Oor	etal	CLN	icid	(A)	J-i-V			용	posi	2
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX +-MF	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 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil		Grab sample	5 pt. composite sample	Air Bubbles (Y or N)
9/11/17	1145	SOIL	5PC - TB @ 4 5 (95)	4 oz 1	Cool	701	1	ш	1	_		-	-	4		00	80	1		4	٧	4
1.110	1110		123			301	-		-											\neg	-	
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Date:	Time:	Relinquish	ed by:	Received by:		Date Time	Ren	narks	:	BILL	DIREC	TLY T	O BP	USING	THE	CONT	ACT V	VITH	CORRE	SPON	DING	VID
9/11/17	1524	9	Ment 2	11	Jack	9/11/17 1524				& RE	FEREN	ICE#	WHE	N APP	LICA	BLE;						
Date:	Time:	Relinquish	ed by:	Received by:		Date Time	C					RIFA EVB2		/ VA	NCE	HIX	M					
9/11/17	1804	RI	Hulalt	/sh.	u M	09/12/17	Ref	ferer	ce#	_	P-	843	_									
	If necessa	samples s	submitted to Hall Environmental may be s	ubcontracted to other	accredited laboratorio		f this p	ossibi	lity. A	ny sub	-contr	acted	data	will be	clearly	y nota	ted on	the ar	nalytica	repo	rt.	

Hall Environmental Analysis Laboratory, Inc.

WO#:

1709518

18-Sep-17

Client:

Blagg Engineering

Project:

RIDDLE D LS #3A

Sample ID MB-33817

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 33817

PQL

1.5

RunNo: 45597

Prep Date: 9/12/2017

Result

ND

Analysis Date: 9/13/2017

SegNo: 1447722

Units: mg/Kg

Analyte

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDLimit**

Qual

Chloride

Sample ID LCS-33817

SampType: Ics

TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 33817

RunNo: 45597

Units: mg/Kg

Prep Date:

9/12/2017

Analysis Date: 9/13/2017

PQL

1.5

SegNo: 1447723

%RPD **RPDLimit**

Analyte

SPK value SPK Ref Val %REC LowLimit 15.00

HighLimit

Qual

Chloride

94.0

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- 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
- 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 2 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1709518

18-Sep-17

Client:

Blagg Engineering

Project:

RIDDLE D LS #3A

Sample ID LCS-33815	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: LCSS	Batch	ID: 33	815	F	RunNo: 4	5554				
Prep Date: 9/12/2017	Analysis Da	ate: 9/	12/2017	S	SeqNo: 1	444503	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	100	73.2	114			
Surr: DNOP	4.8		5.000		96.6	70	130			
Sample ID MB-33815	SampTy	/ре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch	ID: 33	815	R	RunNo: 4	5554				
Prep Date: 9/12/2017	Analysis Da	ato: 0/	12/2017	S	SegNo: 14	444504	Units: mg/K	a		
Trep Date. 3/12/2017	Allalysis De	ale. 31	12/2017		oqi to.		Office. mg/1	.9		
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte									RPDLimit	Qual
	Result	PQL							RPDLimit	Qual

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded
- ND 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
- Value above quantitation range
- Analyte detected below quantitation limits
 - Sample pH Not In Range
- P Reporting Detection Limit
- Sample container temperature is out of limit as specified

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1709518

18-Sep-17

Client:

Blagg Engineering

Project:

RIDDLE D LS #3A

Sample ID MB-33798 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 33798 RunNo: 45568 Prep Date: 9/11/2017 Analysis Date: 9/12/2017 SeqNo: 1445343 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit %RPD Analyte Result PQL HighLimit **RPDLimit** Qual ND 5.0 Gasoline Range Organics (GRO) Surr: BFB 940 1000 94.1 150 54

Sample ID LCS-33798	SampType:	LCS	les	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch ID:	F	RunNo: 45568						
Prep Date: 9/11/2017	Analysis Date:	9/12/2017	8	SeqNo: 1	445344	Units: mg/K	g		
Analyte	Result PQI	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26 5	0 25.00	0	103	76.4	125			
Surr: BFB	1100	1000		106	54	150			

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- 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

Analyte detected in the associated Method Blank

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

1.0

0.98

1.0

3.1

1.1

0.025

0.050

0.050

0.10

1.000

1.000

1.000

3.000

1.000

WO#:

1709518

18-Sep-17

Client:

Blagg Engineering

Project:

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

RIDDLE D LS #3A

Sample ID MB-33798	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 33798			RunNo: 45568						
Prep Date: 9/11/2017	Analysis Date: 9/12/2017		SeqNo: 1445377			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	1.0		1.000		104	66.6	132			
Sample ID LCS-33798	SampTy	SampType: LCS TestCode: EPA Method 8021B: Vola					iles			
Client ID: LCSS	Batch	Batch ID: 33798			RunNo: 45568					
Prep Date: 9/11/2017	Analysis Da	ate: 9/1	2/2017 SeqNo: 1445378 Units: mg/K			g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

0

0

0

0

100

97.8

101

102

108

80

80

80

80

66.6

120

120

120 120

132

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
- D C I HALL I D
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 5 of 5



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: 1709518		RcptNo:	1		
Received By:	Anne Thorn	8	9/12/2017 7:00:00 /	M	ame A.	~			
Completed By:	Anne Thorn	е	9/12/2017 7:39:58	M	anne Il-				
Reviewed By:	Dennis S	UAZO	Davin July						
Chain of Cus	stody								
1. Custody seals intact on sample bottles?				Yes	No 🗆	Not Present			
2. Is Chain of	Custody comple	te?		Yes 🗹	No 🗌	Not Present			
3. How was th	e sample delive	red?		Courier		,			
Log In					¥				
4. Was an att	empt made to c	ool the san	ples?	Yes 🗹	No 🗆	NA 🗆			
5. Were all samples received at a temperature of >0° C to 6.0°C					No 🗆	NA 🗆			
6. Sample(s)	6. Sample(s) in proper container(s)?				No 🗆				
7. Sufficient sample volume for indicated test(s)?					No 🗆				
8. Are sample	s (except VOA a	ind ONG) p	properly preserved?	Yes 🗹	No 🗆				
9. Was preservative added to bottles?				Yes	No 🗹	NA 🗆			
10.VOA vials have zero headspace?				Yes	No 🗆	No VOA Viais			
11. Were any sample containers received broken?					No 🗹	# of preserved			
				Yes 🗸		bottles checked			
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)					No 🗀	for pH:	or >12 unless noted)		
13. Are matrices correctly Identified on Chain of Custody?				Yes 🗹	No 🗆	Adjusted?			
14. Is it clear what analyses were requested?				Yes 🗹	No 🗆				
15. Were all holding times able to be met?				Yes 🗹	No 🗆	Checked by:			
(If no, notify	customer for a	ıthorization	.)						
Special Hand	ilina (if anni	icable)							
16. Was client r			with this order?	Yes	No 🗆	NA 🗹			
	gar	orepancies			NO L	,	٦		
	n Notified:		Date	,	□ Dhose □ Fee	c ☐ In Person			
By Wi	San San		Via:	eMail	Phone Fax	(In Person			
	Instructions:	MARCHA STATE OF THE STATE OF TH	AND THE PROPERTY OF THE PROPER	MINISTER PROPERTY OF THE PARTY					
17. Additional r									
18. Cooler Information									
Cooler N		Condition	Seal Intact Seal No	Seal Date	Signed By	_			
1	1.0	Good	Yes	2-18-11-18-15-1-18-18-18-18-18-18-18-18-18-18-18-18-1					



