<u>District I</u>
1625 N. French Dr., Hobbs, NM 88240
<u>District II</u>
811 S. First St., Artesia, NM 88210
<u>District III</u>
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 Department 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.

1,370	Pit, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application		
	Type of action: Below grade tank registration	NMOCD	Re-sale
	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	MAY 2 2 2018	
	Closure plan only submitted for an existing permitted or non-permitted pit, below or proposed alternative method	w-grade tank,	
	Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative r	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

Operator: BP America Production Company OGRID #: 778
Address: 200 Energy Court, Farmington, NM 87401
Facility or well name: BOLACK E 001
API Number: 3004524103 OCD Permit Number:
U/L or Qtr/Qtr L Section 33 Township 28N Range 08W County: San Juan
Center of Proposed Design: Latitude 36.61554 Longitude -107.69141 NAD83
Surface Owner: 🔳 Federal 🗌 State 🗌 Private 🗌 Tribal Trust or Indian Allotment
2. Pit: Subsection F, G or J of 19.15.17.11 NMAC Temporary: Drilling Workover Workover C-141 Req.
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid ☐ yes ☐ no
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other
☐ String-Reinforced
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
3. TANK A
Below-grade tank: Subsection 1 of 19.13.17.11 NNAC
Volume: 95 bbl 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
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other ☐ Single wall/ double bottom; sidewalls not visible Liner type: Thicknessmil ☐ HDPE ☐ PVC ☐ Other
Usible sidewalls and liner Usible sidewalls only ■ Other Single wall/ double bottom; sidewalls not visible Liner type: Thicknessmil □ HDPE □ PVC □ Other 4. □ Alternative Method:
Usible sidewalls and liner Usible sidewalls only ■ Other Single wall/ double bottom; sidewalls not visible Liner type: Thicknessmil ☐ HDPE ☐ PVC ☐ Other
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Usible sidewalls and liner Usible sidewalls only ■ Other Single wall/ double bottom; sidewalls not visible Liner type: Thicknessmil ☐ HDPE ☐ PVC ☐ Other 4. ☐ 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)



Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)							
Screen Netting Other							
☐ Monthly inspections (If netting or screening is not physically feasible)							
7.							
Signs: Subsection C of 19.15.17.11 NMAC							
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers							
☐ Signed in compliance with 19.15.16.8 NMAC							
Variances and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.							
Exception(s). Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.							
9. Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.							
General siting							
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA						
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA						
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No						
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No						
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ☐ No						
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	☐ Yes ☐ No						
Below Grade Tanks							
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).	☐ Yes ☐ No						
- Topographic map; Visual inspection (certification) of the proposed site							
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes No						
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)							
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No						
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ☐ No						
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image							
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No						

Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No							
Temporary Pit Non-low chloride drilling fluid								
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No							
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No							
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No							
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No							
Permanent Pit or Multi-Well Fluid Management Pit								
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No							
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image								
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								
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 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (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 19.15.17.9 NMAC Previously Approved Design (attach copy of design) API Number:								
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 documents are 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 19.15.17.9 NMAC 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								

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	documents are							
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								
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 Flands Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method	luid Management Pit							
 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) 	Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC							
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. F 19.15.17.10 NMAC for guidance.	cce material are Please refer to							
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No							
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								

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									
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map									
Within a 100-year floodplain. FEMA map									
- FEMA map									
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 19.15.17.13 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 cannot 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								
17. Operator Application Certification:									
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and believe	ef.								
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 Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date:	23/18								
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)	23/18								
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date:									
OCD Approval: Permit Application (including closure tran) Closure Plan (ont) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 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. Closure Completion Date: 3/22/2018									
OCD Approval: Permit Application (including closure tran) Closure Plantonts OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 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. Closure Completion Date: 3/22/2018	complete this								

22.									
Operator Closure Certification:									
I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.									
Name (Print): Erin Garifalos	Title: Field Environmental Coordinator								
Signature:Utin garifalas	Date: May 17, 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

BOLACK E 001

API No. 3004524103

Unit Letter L Section 33 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

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	< 0.079
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.300
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	605
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 except TPH. 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 the 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 the spill and release guidelines. Attached is a laboratory report and field report. The location will be reclaimed when the well is plugged and abandoned.

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

The area has been backfilled and a 105 bbl shallow low profile above-grade tank set atop BGT location. The area will be reclaimed with 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 area will be reclaimed with 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 area will be reclaimed with 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 area will be reclaimed with 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 area will be reclaimed with the well is plugged and abandoned.

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

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

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

Certification section of C-144 has been completed.

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

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

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

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

Release Notification and Corrective Action													
						OPERA'			■ Initi	al Report		Final Report	
				ion Compan			Garifalos	7040					
Facility Nar			n, NM 87401		Telephone No. (832) 609-7048 Facility Type: Natural Gas Well								
	Surface Owner: Federal Mineral Owner									.300452	4103	}	
Sarrace	101.100	orai					EASE		111111	.000+02	. 4100	,	
Unit Letter	it Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County									County			
L	33	28N	08W	1,640	Sou	ıth	1,080	We	st	S	San	Juan	
	I		Latitud	e 36.61554	Lo	ngitude -1	07.69141	NAD	83				
						OF RELI		-					
Type of Rele	ase:: none)				Volume of	Release:: unkn			Recovered::			
Source of Re	lease: belo	w grade ta	nk - 95 l	obl		Date and H	lour of Occurrence	ce:	Date and n/a	Hour of Dis	covery:		
Was Immedia	ate Notice (Ves 7	No Not R	equired	If YES, To	Whom?						
By Whom?			105	NO LI NOUN	equired	Date and H	Our						
Was a Water	course Read						lume Impacting	the Wat	ercourse.				
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.*										
Describe Cau	se of Probl	em and Reme	dial Actior	Sampi			ath the BGT wa						
							TPH below BG ⁻ g the spill and re						
				results	are atta								
Describe Are	a Affected	and Cleanup A	Action Tak	en.* Final lab	orator	y analys	is attached						
						, ,							
							knowledge and und perform correct						
public health	or the envi	ronment. The	acceptanc	e of a C-141 repo	ort by the	NMOCD ma	arked as "Final R	eport" o	loes not reli	eve the oper	ator of	liability	
							on that pose a three the operator of						
		ws and/or regu						*					
0	Tina	17:12-00	٠ ٨				OIL CON	SERV	AHON	DIVISIC	<u>N</u>		
Signature:	non g	u ugan	~				F : .10						
Signature:	Erin C	arifalos				approved by	Environmental S	pecialis	l				
1		onmenta		dinator	1	Approval Dat	e:		Expiration 1	Date:			
		garifalos				Conditions of			- Paration		_		
Date: May				(832) 609-70			- Ph. c. str.			Attached			
	1 1 01	- 2											

* Attach Additional Sheets If Necessary

#NUF 180 59337 68

bp



BP America Production Company 380 Airport Rd Durango, CO 81303

Phone: (970) 247 6800

March 16, 2018

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

VIA EMAIL

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

Well Name: BOLACK E 001

API #: 3004524103

Dear Mrs. Thomas,

As part of the NM "Pit Rule": 19.15.17.13 Closure Requirements, Paragraph J. BP America Production Company (BP) is required to notify the surface owner of BP's plans to close/remove a below grade tank. BP wishes to inform you of our plans to close/remove the below grade tank on its well pad located on your surface. BP plans to commence this work on or about March 20, 2018. If there aren't any unforeseen problems, the work should be completed within 10 working days.

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

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

Sincerely,

Erin Garifalos

BP America Production Company

From:

Buckley, Farrah (CH2M HILL)

To:

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

Cc:

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

Subject: Date:

BP Pit Close Notification - BOLACK E 001 Friday, March 16, 2018 9:49:50 AM

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

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

March 16, 2018

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

RE:

Notice of Proposed Below-Grade Tank (BGT) Closure

BOLACK E 001 API 30-045-24103 (L) Section 33 - 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 95bbl BGT and a 21bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around March 20, 2018.

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

Sincerely,

Erin Garifalos

Field Environmental Coordinator - San Juan

Cell: 832-609-7048

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

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

CLIENT: BP		ENGINEERING BLOOMFIELD,		API#: 3004524103							
		505) 632-1199		TANK ID (if applicble):	Α						
FIELD REPORT:	(circle one): BGT CONFIRMATION	N / RELEASE INVESTIGATION	N / OTHER:	PAGE #: 1	of1						
SITE INFORMATION	: SITE NAME: BOLA	CK E #1		DATE STARTED: 03/20/18							
QUAD/UNIT: L SEC: 33 TWP:	2011		SJ ST: NM	DATE FINISHED:							
1/4 -1/4/FOOTAGE: 1.640'S / 1.0	80'W NW/SW LEAS	E TYPE: FEDERAL ST	TATE / FEE / INDIAN	ENVIRONMENTAL							
		STRIK	(F		NJV						
REFERENCE POINT	: WELL HEAD (W.H.) G	SPS COORD.: 36.6	61565 X 107.6916	GL ELEV.:	6,042'						
1) 95 BGT (SW/DB) - A	GPS COORD.:	36.61554 X 107.691	41 DISTANCE	BEARING FROM W.H.: 95.5	', S55E						
2)	GPS COORD.:		DISTANCE/	BEARING FROM W.H.:							
3)	GPS COORD.:		DISTANCE/	BEARING FROM W.H.:							
4)	GPS COORD.:		DISTANCE/	BEARING FROM W.H.:							
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S)	# OR LAB USED:	ΙΔΙΙ		OVM READING						
				8015B/8021B/300.0 (CI)	(ppm) 118.3						
		SAMPLE TIME:	LAB ANALYSIS:	(-,							
3) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:	LAB ANALYSIS:								
4) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:	LAB ANALYSIS:								
5) SAMPLE ID:											
SOIL DESCRIPTION	SOIL TYPE: SAND SILTY SAND	SILT / SILTY CLAY / CLAY / C	GRAVEL OTHER BEDF	ROCK (SANDSTONE)							
			SINO EXPLANATION - DI	SCOLORED SOILS & BEDI	ROCK						
		-	METNESS: YES / NO EXP	I ANATION - RENEATH BCT	LINKNOWN						
				BLILATIT BOT,	ORIGIN						
APPARENT EVIDENCE OF A RELEASE OBSERVE	D AND/OR OCCURRED : YES NO EX	XPLANATION: DISCOLORED	SOILS / BEDROCK &								
EQUIPMENT SET OVER RECLAIMED AREA:	YES NO EXPLANATION - SHA	LLOW LOW PROFILE ABO	OVE-GRADE TANK TO	BE SET ATOP BGT LOCAT	ION.						
	RESENT TO WITNESS CONFIR	MATION SAMPLING. SAI	MPLE COLLECTED FR	OM BEDROCK SURFACE -	SOF1 10						
EXCAVATION DIMENSION ESTIMATION:	NA ft. X NA	ft. X NA f	t. EXCAVATION E	ESTIMATION (Cubic Yards) :	NA						
DEPTH TO GROUNDWATER: >100' N	EAREST WATER SOURCE: >1,0	00' NEAREST SURFACE W	ATER: <1,000' NM	OCD TPH CLOSURE STD:	1,000 ppr						
SITE SKETCH	BGT Located: off on	site PLOT PLAN	circle: attached	0VM CALIB. READ. = 100.0	nnm pp 400						
		12011211		OVM CALIB. GAS = 100.0	_ppm RF =1.00						
				TIME: 1:20 and pm DATE:	03/20/18						
`	ТО		IN E								
_	W.H.		- 1	MISCELL. NO	JIES						
	BERM		- 1	WO:							
SEPA	RATOR -			REF #: P-960							
		PBGTL		VID: VHIXONEV	11						
		B.G.		PJ#:	/14/10						
	CICID REPORT: (circle one): BGT CONFRMATION / RELEASE INVESTIGATION / OTHER: E INFORMATION: SITE NAME BOLACK E # 1 UNIT: L SEC: 33 TVAP. 28N RNG: 8W PM. NM ONTY. SJ ST. N UFOOTAGE: 1,640°S / 1,080°W NW/SW LEASE TYPE: FEDERAL / STATE / FEE / IND/ STRIKE # NM012202 PROD. FORMATION. DK CONTRACTOR: BPJ. GONZALES FERENCE POINT: WELL HEAD (W.H.) GPS COORD: 36,61565 X 107.61 95 BGT (SW/DB) - A GPS COORD: 36,61554 X 107,69141 DIST GPS COORD: GPS COORD: DIST GPS COORD: GPS COORD: DIST MPLEID SPC-TB @ 5' (95) - A SAMPLE DATE SAMPLE TIME 1300 LOA ANAPOSE PAPLE ID SAMPLE DATE SAMPLE TIME LOA ANAPOSE PAPLE ID SAMPLE TIME LOA ANAPOSE										
			I ,	OCD Appr. date(s): 03/	/02/18 Meter						
			l.	ID ppm = parts per millio	on						
				A BGT Sidewalls Visible: Y							
			X - S.P.D.	BGT Sidewalls Visible: Y							
				BGT Sidewalls Visible: Y							
The state of the s			AINING WALL; NA - NOT	Magnetic declination:	10 E						
			3/20/18								

revised: 11/26/13 BEI1005E-6.SKF

Analytical Report

Lab Order 1803B41

Date Reported: 3/22/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

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

Project: BOLACK E 1

Collection Date: 3/20/2018 1:00:00 PM

Lab ID: 1803B41-001

Matrix: SOIL Received Date: 3/21/2018 7:00:00 AM

Analyses	Result	PQL Qua	l Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CJS
Chloride	ND	30	mg/Kg	20	3/21/2018 11:51:04 AM	37158
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	TOM
Diesel Range Organics (DRO)	360	9.6	mg/Kg	1	3/21/2018 10:21:53 AM	37148
Motor Oil Range Organics (MRO)	160	48	mg/Kg	1	3/21/2018 10:21:53 AM	37148
Surr: DNOP	106	70-130	%Rec	1	3/21/2018 10:21:53 AM	37148
EPA METHOD 8015D: GASOLINE RANG	GE .				Analyst	NSB
Gasoline Range Organics (GRO)	85	15	mg/Kg	5	3/21/2018 9:57:00 AM	G49962
Surr: BFB	270	15-316	%Rec	5	3/21/2018 9:57:00 AM	G49962
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.074	mg/Kg	5	3/21/2018 9:57:00 AM	B49962
Toluene	ND	0.15	mg/Kg	5	3/21/2018 9:57:00 AM	B49962
Ethylbenzene	ND	0.15	mg/Kg	5	3/21/2018 9:57:00 AM	B49962
Xylenes, Total	ND	0.30	mg/Kg	5	3/21/2018 9:57:00 AM	B49962
Surr: 4-Bromofluorobenzene	93.3	80-120	%Rec	5	3/21/2018 9:57:00 AM	B49962

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Cł	nain-c	of-Cus	stody Record	Turn-Around	Time:	SAME					AL		=	KI\.	/TE	20	a.	ME	RIT	AL
Client:	BLAG	G ENGR.	/ BP AMERICA	☐ Standard	✓ Rush	DAY)	-		K											ORY
		,		Project Name				7.0		-						ntal				
Mailing Ac	dress:	P.O. BO	X 87	-	BOLACK E	#1		40	01 L	اسدا										
			FIELD, NM 87413	Project #:				4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107												
Phone #:		(505) 63						10	JI. 30	03-3	45-5					ques			-	1 2
email or Fa	ax#:	(,		Project Manag	ger:		i and			-									T	
QA/QC Pac	kage:				EDIN CADI	FALOS	- m	-	6					504	PCB's			300.1)		
✓ Standa	ard		Level 4 (Full Validation)		ERIN GARI	FALUS	₹ (8021B)	on	(MRO)			(S)		PO4,	2 PC			1 1		e le
Accreditati	ion:			Sampler:	NELSON VI	ELEZ	1 (%)	(Gas	/ DRO /	ਜ਼	1	8270SIMS)		102,	808			/ water		ldm
□ NELAP		□ Other		On Ice:	THE PERSON NAMED OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN THE PERSON N	ENO NY	1	TPH	0/0	418	504	827	5	03,	ss/s		(AC	0.00		e sa
□ EDD (T	ype)	Т		Sample Temp	erature: 0		#	3E +	(GR(por	poc		etal	N,	cide	(A)	i-VC	- 3il		osit o
Date	Time	Matrix	Sample Request ID	Container Type and # Mrouked	Preservative Type	HEALNO. 1803-841	BTEX +-NATE	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0		Grab sample 5 pt. composite sample
3/20/18	1300	SOIL	5PC-TB@ 5' (95)-A	4 oz 1	Cool	701	V	_	٧	<u> </u>	_	_	_		-			V		V
																			\top	+
3/-6/10		- sou	EPC TD @ 5 ' (4E) B	1	Cool		./		1									-1		-
	1312		3 (1)			-	-		-				-			_		•	-	-
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3/20/18	Time:	Relinquish	they	Received by:	he	Date Time 3/20/18 1720 Date Time			ACT:	& RE	FEREN	RIFA	WHE	N APP	LICA			VITH C	ORRES	PONDIN
3/20/18	1851	1/2	4 Walts Highwithout in Hall Environmental may he e	Con.	annedited laboratorie	J-3/2/1/8		feren	ice#	_	P-	960	_	od Ilia	alcari	, notat	an ha	the en	ah tigal	nonet .

Hall Environmental Analysis Laboratory, Inc.

WO#: 1803B41

22-Mar-18

Client:

Blagg Engineering

Project:

BOLACK E 1

Sample ID MB-37158

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 37158

RunNo: 49959

Prep Date: 3/21/2018

Analysis Date: 3/21/2018

Units: mg/Kg

PQL

SeqNo: 1618491

%RPD

HighLimit

RPDLimit

Analyte Chloride

ND 1.5

Sample ID LCS-37158 LCSS

3/21/2018

SampType: Ics

Batch ID: 37158

TestCode: EPA Method 300.0: Anions

SPK value SPK Ref Val %REC LowLimit

RunNo: 49959

Units: mg/Kg

Result

Analysis Date: 3/21/2018

SeqNo: 1618492

HighLimit

%RPD

RPDLimit Qual

Analyte

SPK value SPK Ref Val %REC PQL

Chloride

Client ID:

Prep Date:

Result 14

1.5

15.00

91.7

LowLimit

110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

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

Page 3 of 6

P Sample pH Not In Range

Reporting Detection Limit RL

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1803B41

22-Mar-18

Client:

Blagg Engineering

Project:

BOLACK E 1

Sample ID LCS-37148	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 37148 Runh			RunNo: 49954						
Prep Date: 3/21/2018	Analysis D	ate: 3/	21/2018	S	SeqNo: 1	617422	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.7	70	130			
Surr: DNOP	4.3		5.000		85.4	70	130			
Sample ID MB-37148	SampT	уре: МЕ	MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics							
0										

Sample ID MB-37148	SampTy	ype: M B	BLK	Test	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch	ID: 371	148	R	RunNo: 4	9954				
Prep Date: 3/21/2018	Analysis Da	ate: 3/2	21/2018	S	SeqNo: 1	617423	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	9.8		10.00		98.0	70	130			

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 4 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: **1803B41**

22-Mar-18

Client:

Blagg Engineering

Project:

BOLACK E 1

Sample ID RB	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch	ID: G4	9962	R	lunNo: 4	9962				
Prep Date:	Analysis Da	te: 3/2	21/2018	S	SeqNo: 1	618119	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		95.4	15	316			

Sample ID 2.5UG GRO LCS SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: G49962 RunNo: 49962 Prep Date: SeqNo: 1618120 Analysis Date: 3/21/2018 Units: mg/Kg Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte PQL LowLimit Qual Gasoline Range Organics (GRO) 27 0 75.9 5.0 25.00 107 131 Surr: BFB 1100 1000 111 15 316

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 5 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1803B41

22-Mar-18

Client:

Blagg Engineering

Project:

BOLACK E 1

Sample ID RB	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: B49962			F	RunNo: 49962					
Prep Date:	Analysis D	oate: 3/	21/2018	8	SeqNo: 1	618155	Units: mg/K	g		
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	0.89		1.000		89.0	80	120			

Sample ID 100NG BTEX LC	S SampT	SampType: LCS			TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Batch	Batch ID: B49962			RunNo: 4					
Prep Date:	Analysis Date: 3/21/2018			SeqNo: 1618156 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.0	77.3	128			
Toluene	0.95	0.050	1.000	0	95.2	79.2	125			
Ethylbenzene	0.95	0.050	1.000	0	95.2	80.7	127			
Xylenes, Total	2.9	0.10	3.000	0	97.9	81.6	129			
Surr: 4-Bromofluorobenzene	0.93		1.000		92.7	80	120			

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 6 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	BLAGG	Work Order Num	ber: 1803B41		RcptNo: 1		
Received By:	Anne Thorne	3/21/2018 7:00:00	AM .	anne Am			
Completed By:	Anne Thorne	3/21/2018 7:26:30	AM	anne Han			
Reviewed By:	AL 3/21/18			Clare Sin		end .	
Chain of Cus	stody						
	Custody complete?		Yes 🗸	No 🗌	Not Present		
	sample delivered?	*	Courier				
		*			**		
Log In 3. Was an atter	mpt made to cool the san	nples?	Yes 🗸	No 🗌	NA 🗆		
4. Were all sam	ples received at a tempe	rature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆		
5. Sample(s) in	proper container(s)?		Yes 🗸	No 🗌			
6. Sufficient san	nple volume for indicated	test(s)?	Yes 🗹	No 🗆		*	
7. Are samples	(except VOA and ONG)	properly preserved?	Yes 🗹	No 🗌			
8. Was preserva	ative added to bottles?	*	Yes	No 🗹	NA \square	*	
9. VOA vials ha	ve zero headspace?		Yes 🗌	No 🗆	No VOA Vials		
10. Were any sa	mple containers received	broken?	Yes	No 🗹	# of preserved		
	ork match bottle labels?	*	Yes 🗸	No 🗆	bottles checked for pH:	12 unless noted)	
	ancies on chain of custoo		Yes 🗸	No 🗌	Adjusted?	12 unless noted)	
	correctly identified on Ch at analyses were requeste		Yes 🗹	No 🗆			
14. Were all hold	ing times able to be met?		Yes 🗹	No 🗆	Checked by:		
	sustomer for authorization	.)					
Special Hand	ling (if applicable)		_	· <u>·</u>			
15. Was client no	otified of all discrepancies	s with this order?	Yes	No 🗌	NA 🗹		
Person	Notified:	Date					
By Wh	om:	Via:	eMail F	hone Fax	n Person	*	
Regard	ling:						
Client	nstructions:						
16. Additional re	emarks:						
17. Cooler Info		n Seal Intact Seal No	Seal Date	Signed By			
1	1.0 Good	Yes		and Marian de Contraction			



