District I
1625 N. French Dr., Hobbs, NM 88240
Listrict 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.

Pit, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan 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 Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances. Operator: BP America Production Company Address: 200 Energy Court, Farmington, NM 87401 Facility or well name: STATE GC BQ 001 API Number: 3004523662 OCD Permit Number: County: San Juan Township 29N Range 13W U/L or Qtr/Qtr Section 32 Longitude -108.22410 Center of Proposed Design: Latitude 36.68130 Surface Owner: Federal State Private Tribal Trust or Indian Allotment Pit: Subsection F, G or J of 19.15.17.11 NMAC Temporary: Drilling Workover ☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid yes no ☐ Lined ☐ Unlined Liner type: Thickness mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other String-Reinforced Liner Seams: Welded Factory Other bbl Dimensions: L TANK A Below-grade tank: Subsection I of 19.15.17.11 NMAC bbl Type of fluid: Produced Water Volume: 95 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/ Single bottom; sidewalls visible Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)

Alternate. Please specify

Four foot height, four strands of barbed wire evenly spaced between one and four feet

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)	
5. 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	
8. Variances and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: □ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. □ Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
9. Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of 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 ☐ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ☐ No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	☐ Yes ☐ No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - 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. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
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. W- 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 NI 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 19.15.17.12 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 19.1 and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	NMAC 5.17.9 NMAC
11.	
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doct 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 19.1 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:	

12.	
<u>Permanent Pits Permit Application Checklist</u> : Subsection B of 19.15.17.9 NMAC <u>Instructions</u> : Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the	documents are
attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including 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	aocuments are
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.	
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method	luid Management Pit
14.	
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be 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
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. *- Wriften 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 plans to 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 Site Reclamation 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 believe the complete to the best of my knowledge and believe the complete to the best of my knowledge and believe the complete to the best of my knowledge and believe the complete to the best of my knowledge and believe the complete to the best of my knowledge and believe the complete to the best of my knowledge and believe the complete to the best of my knowledge and believe the complete to the best of my knowledge and believe the complete to the best of my knowledge and believe the complete to the best of my knowledge and believe the complete to the best of my knowledge and believe the complete to the best of my knowledge and believe the complete to the best of my knowledge and believe the complete to the best of my knowledge and believe the complete to the best of my knowledge and believe the complete to the best of my knowledge and believe the complete to the best of my knowledge and believe the complete to the best of my knowledge and believe the complete the complete to the best of my knowledge and believe the complete the complete to the best of my knowledge and believe the complete th	
Signature: Date:	
e-mail address:	
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 511 Title: OCD Permit Number:	5/2018
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: 3/14/2018	
Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-lo If different from approved plan, please explain.	op systems only)
21. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please in mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure for private land only) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable)	dicate, by a check

22.	
Operator Closure Certification:	
	abmitted 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 a	applicable closure requirements and conditions specified in the approved closure plan.
Name (Print): Erin Garifalos	Title: Field Environmental Coordinator
vain garifialas	
Signature:	Date: May 8, 2018
e-mail address: erin.garifalos@bp.com	Telephone: (832) 609-7048

BP AMERICA PRODUCTION COMPANY

SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

STATE GC BQ 001

API No. 3004523662

Unit Letter I Section 32 T 29N R 13W

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	< 0.022
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	<0.090
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	86
Chlorides	US EPA Method 300.0 or 4500B	620	90

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 and chlorides. 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. The release 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. The release 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 the BGT location's surface is clear but within the site's operational area. The location will be reclaimed once the well is plugged and abandoned.

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

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

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

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

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

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

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

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

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

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

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

Certification section of C-144 has been completed.

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

State of New Mexico Energy Minerals and Natural Resources

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.

			Kele	ease Notific	ation	and Co	orrective A	ction	l			
						OPERA'	ΓOR		■ Initia	al Report		Final Report
Name of Co	mpany BF	America	Produc	tion Company		Contact Eri	Garifalos			*		•
Address 20	0 Energy	Court, Fa	rmingto	n, NM 87401		Telephone 1	No. (832) 609-	7048				
Facility Nar	ne STAT	E GC BQ (001			Facility Typ	e: Natural Ga	as We	ll			
Surface Ow	ner: Stat	е		Mineral O	wner:	State			API No	.300452	3662	
				•		OF RE	LEASE					
Unit Letter	Section	Township	Range			South Line	Feet from the	East/\	West Line	County		
I	32	29N			Sou	ıth	870	Eas		S	an	Juan
			Latitud	e 36.68130	Lo	ongitude1	08.22410	NAD	83			
				NAT	URE	OF REL						
Type of Rele	ase:: none)					Release:: unkno			decovered::		
Source of Re	^{lease:} belo	w grade ta	nk - 95	bbl		Date and H	lour of Occurrence	e:	Date and I	Hour of Disc	covery:	
Was Immedia						If YES, To	Whom?		11/4			
			Yes 🗸	No Not Red	quired							
By Whom?						Date and H						
Was a Water	course Read		Yes 🗸	N-		If YES, Vo	lume Impacting t	he Wate	ercourse.			
If a Watercou	irse was Im	pacted, Descri	ibe Fully.*									
Describe Cau	se of Probl	em and Remed	dial Action	Sampiir			ath the BGT was					
				The rele	ease w		sed following th					
Describe Are	a Affected	and Cleanup A	Action Tak	en.*								
				Final labo	orato	ry analys	is attached.					
regulations al public health should their o	l operators or the envir perations h nment. In a	are required to conment. The ave failed to a ddition, NMO	o report an acceptance dequately CD accep	is true and completed/or file certain rele of a C-141 report investigate and restance of a C-141 restance of a C-141 restance.	ease not t by the nediate	otifications ar NMOCD ma contamination	nd perform correct arked as "Final Roon that pose a three	tive act eport" d eat to gr	ions for rele oes not relic ound water,	eases which is eve the operation, surface wat	may end ator of l ter, hum	danger liability nan health
l	rung	orifalo	4				OIL CONS	SERV	ATION	DIVISIO	N .	
						Approved by	Environmental Sp	pecialist	:			
Printed Name												
Title: Field	Enviro	onmenta	l Coor	dinator	F	Approval Date	e:]	Expiration I	Date:		
E-mail Addre	ss: erin.	garifalos	@bp.	com		Conditions of	Approval:			Attached		
Date: May 8	3, 2018		Phone:	(832) 609-704	18							1

^{*} Attach Additional Sheets If Necessary



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

March 9, 2018

State Land Office Brandon Foley PO Box 3170 Farmington, NM 87402

VIA EMAIL

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

Well Name: STATE GC BQ 001

API #: 3004523662

Dear Mr. Foley,

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 12, 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 - STATE GC BQ 001 Friday, March 09, 2018 11:35:33 AM

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

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

March 9, 2018

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

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

STATE GC BQ 001 API 30-045-23662 (I) Section 32 – T29N – R13W 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 March 12, 2018.

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

Sincerely,

Erin Garifalos

Field Environmental Coordinator – San Juan Cell: 832-609-7048

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

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

CLIENT: BP	P.O. BOX 87, E	BLOOMFIELD, NN		API #: 30045 TANK ID (if applicble):	523662 A						
FIELD REPORT:	(circle one): BGT CONFIRMATION]/ RELEASE INVESTIGATION / C	THER:	PAGE #: 1	of1						
DATE STATE GC BQ #1 DUAD/UNIT: I SEC: 32 TWP: 29N RNG: 13W PM: NM CNTY: SJ ST: NM M4-1/4/FOOTAGE: 1,850'S / 870'E NE/SE LEASE TYPE: FEDERAL STATE FEE / INDIAN EASE #: - PROD. FORMATION: DK CONTRACTOR: BP - J. GONZALES REFERENCE POINT: WELL HEAD (W.H.) GPS COORD.: 36.68093 X 108.22375 GL ELEV: 5,867' 95 BGT (SW/SB) GPS COORD.: 36.68130 X 108.22410 DISTANCE/BEARING FROM W.H.: GPS COORD.: DISTANCE/BEARING FROM W.H.: SAMPLE ID: SAMPLE ID: SAMPLE ID: SAMPLE ID: SAMPLE TIME LAB ANALYSIS: BO15B/8021B/300.0 (CI) NA SAMPLE ID: SAMPLE ID: SAMPLE ID: SAMPLE TIME LAB ANALYSIS: SAMPLE TIME LAB ANALYSIS: SAMPLE ID:											
		and the control of th	ST: NM								
FIELD REPORT: (drole one): BGT CONFIRMATION] RELEASE INVESTIGATION / OTHER: SITE INFORMATION: SITE INSECTION / OTHER: SITE INFORMATION: SITE INSECTION / OTHER: QUADIUNIT: I SEC. 32 TAMP. 29N RNG. 13W PM. NM CNTY. SJ. ST. NM 1/M -1/MFOOTAGE: 1,850'S / 870'E NE/SE LEASE TYPE: FEDERAL (STATE) FEE / INDIAN EASE # - PROD. FORMATION: DK. CONTRACTOR: BPJ. GONZALES PREFERENCE POINT: WELL HEAD (W.H.): GPS COORD: 36.68093 X 108.22375 GL ELEV: 5,867' 1) 95 BGT (SW/SB) GPS COORD: 36.68130 X 108.22410 BTANCESSE/RNG FROM WH: 2) GPS COORD: DETANCESSE/RNG FROM WH: 3) GPS COORD: DETANCESSE/RNG FROM WH: 4) GPS COORD: DETANCESSE/RNG FROM WH: SAMPLE IND. SPACE ONE DETANCESSE/RNG FROM WH: SAMPLE ID: DETANCESSE/RNG FROM WH:											
LEASE #: - PROD. FORMATION: DK CONTRACTOR: BP - J. GONZALES SPECIALIST(S): NJ											
	AND STREET		(0.00, 0.00,								
				RING FROM W.H.:	OVM						
					READING (ppm)						
				15B/8021B/300.0 (CI)	NA NA						
		STATE SALE PROPERTY OF THE PRO									
5) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:	LAB ANALYSIS:								
COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY CONSISTENCY (NON COHESIVE SOILS): LC MOISTURE: DRY SLIGHTLY MOIST MOIST / WE SAMPLE TYPE: GRAB COMPOSITE - #	COHESIVE / COHESIVE / HIGHLY COHESIVE COSE FIRM DENSE / VERY DENSE ET / SATURATED / SUPER SATURATED OF PTS5	DENSITY (COHESIVE CLAYS & HC ODOR DETECTED: YES NO	SILTS): SOFT / FIRM / S	STIFF / VERY STIFF / HARI							
SITE OBSERVATION APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA:	S: LOST INTEGRITY OF EQUIPMEN D AND/OR OCCURRED: YES NO EXP YES NO EXPLANATION -	PLANATION:									
			EXCAVATION EST	TIMATION (Cubic Yards) :							
	EAREST WATER SOURCE: >1,000) NEAREST SURFACE WATER:	<1,000' NMOC	D TPH CLOSURE STD:	1,000 ppm						
		$\overline{}$	A		111 -1.00						
	*	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	N TIME:	: NA am/pm DATE:	NA						
FENCE	$(\widehat{x} \times \widehat{x})$,	'		OTES						
PRCTI	X										
T.B. ~ 8'					/D2						
B.G.	// >>	ENCE			DZ						
	// () -//				2/1/1/11						
	TANK			0.0							
BEF	M M			k OVM = Organic Vapo	or Meter						
	~	To the state of th	A								
		TO V.H.	(- S.P.D.	BGT Sidewalls Visible:							
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATIO				BGT Sidewalls Visible:	Y / N						
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELC APPLICABLE OR NOT AVAILABLE; SW - SINGLE	OW-GRADE TANK LOCATION; SPD = SAMPLE	POINT DESIGNATION; R.W. = RETAINING		agnetic declination:	10° E						
NOTES: GOOGLE EARTH IMAGE		ONSITE: 03/12/1	18								

Analytical Report

Lab Order 1803645

Date Reported: 3/14/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 5PC-TB @ 8' (95)

STATE GC BQ 1 Project:

Collection Date: 3/12/2018 12:05:00 PM

Lab ID: 1803645-001

Matrix: SOIL

Received Date: 3/13/2018 6:55:00 AM

Analyses	Result	PQL Qua	l Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	90	30	mg/Kg	20	3/13/2018 11:19:58 AM	36988
EPA METHOD 8015M/D: DIESEL RAN	NGE ORGANICS				Analyst	TOM
Diesel Range Organics (DRO)	25	9.3	mg/Kg	1	3/13/2018 11:30:17 AM	36977
Motor Oil Range Organics (MRO)	61	46	mg/Kg	1	3/13/2018 11:30:17 AM	36977
Surr: DNOP	94.5	70-130	%Rec	1	3/13/2018 11:30:17 AM	36977
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.5	mg/Kg	1	3/13/2018 8:54:21 AM	36964
Surr: BFB	96.2	15-316	%Rec	1	3/13/2018 8:54:21 AM	36964
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.022	mg/Kg	1	3/13/2018 8:54:21 AM	36964
Toluene	· ND	0.045	mg/Kg	1	3/13/2018 8:54:21 AM	36964
Ethylbenzene	ND	0.045	mg/Kg	1	3/13/2018 8:54:21 AM	36964
Xylenes, Total	ND	0.090	mg/Kg	1	3/13/2018 8:54:21 AM	36964
Surr: 4-Bromofluorobenzene	93.1	80-120	%Rec	1	3/13/2018 8:54:21 AM	36964

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
- Н 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
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 5
- P Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

C	hain-c	of-Cus	stody Record	Turn-Around Time: SAME				HALL ENVIRONMENTAL													
Client:	BLAG	G ENGR.	/ BP AMERICA	☐ Standard	☑ Rush _	DAY			H										TO		,
				Project Name							www								*		
Mailing A	ddress:	P.O. BO	X 87	S	TATE GC B	Q #1		49	01 H	lawk	ins N	E -	Albu	quei	rque	e, NN	<i>1</i> 87	109			
		BLOOM	FIELD, NM 87413	Project #:				Te	1. 50)5-34	15-39	75	Fa	x 50	05-3	45-4	107	,			
Phone #:		(505) 63	32-1199		_		dt		Jane 1			A	nalys	sis R	equ	iest					
email or F	ax#:			Project Manag	ger:							\neg	7	4	T			ਜ			
QA/QC Pad Standa			Level 4 (Full Validation)		ERIN GARI	FALOS	MB's (8021B)	+ TPH (Gas only)	/ MRO)			(S)		PO4,50	Z PCB'S		- 1	ter - 300.1)		9	
Accreditat	tion:			Sampler:	NELSON V	ELEZ	F (8)	(Gas	DRO,	1	ਜ਼	OSIN	!	000	8082			/ water		dmi	
□ NELAP		□ Other		On ice	XYes	in No and My	#	TPH	_	418.1)	504	827	S	03	-	1	NA N	300.0		te sa	Sr N
	Гуре)				eature //		4	BE +	(GRO	poq	pou	0	etal	Z, Z		<u> </u>	-	-10	ple	oosi	2
Date	Time	Matrix	Sample Request ID	Type and #	Preservative Type	HEAP No.	BTEX +MF	BTEX + MTBE	TPH 8015B	TPH (Method	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0	Grab sample		Air Bubbles (Y or N)
3/12/18	1205	SOIL	5PC-TB@ 8' (95)	4 oz 1	Cool	180364520	-		٧								-	٧	1	٧	
												\forall	\top				\top	\top	\top		
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												7	\dashv	\top	+	\top	+	\top	T		
												\forall	\top	\top	\top		\top		\top		
												1	\top	\top	\top		T		\top		
												7	1	\top	_		+	1	\top		\vdash
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-												1	_	_	+	+	十	+	\top		Г
Date:	Time:	Relinquish	ad by:	Received by:		Date Time	Rem	narks						-			TWI	TH COI	RRESPO	NDING	VID
3/12/18	1710	1	my	Christ	1201-	3/12/18 1710	0	ONT			ERENC	_									
Date:	Time:	Relinquish	ed by:	Received by:	12-51	Date Time	1 ~				CONE										
3/12/18	1813	tho	est / Scele	Con	1	0655		eren			P-9										
	If necessa	ry, samples s	ubmitted to Hall Environmental may be	subcontracted to other	accredited laboratorie	es. This serves as notice of	f this p	ossibil	ity. A	ny sub-	-contra	cted d	ata will	be cle	arly n	notated	on th	e analy	tical rep	ort.	

Hall Environmental Analysis Laboratory, Inc.

WO#:

1803645

14-Mar-18

Client:

Blagg Engineering

Project:

STATE GC BQ 1

Sample ID MB-36988

Sample ID LCS-36988

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

Batch ID: 36988

RunNo: 49743

Prep Date: 3/13/2018

Analysis Date: 3/13/2018

SeqNo: 1610364

Units: mg/Kg

RPDLimit

Qual

Analyte Chloride

Result

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

PQL ND 1.5

SampType: Ics

TestCode: EPA Method 300.0: Anions RunNo: 49743

LowLimit

Client ID:

LCSS

Batch ID: 36988

Analyte

Prep Date: 3/13/2018

Analysis Date: 3/13/2018

SeqNo: 1610365

Units: mg/Kg

PQL

Chloride

110

15

90

15.00

%REC 98.4

HighLimit

1.5

SPK value SPK Ref Val

%RPD

RPDLimit

Qual

Н

- Qualifiers: Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- ND Not Detected at the Reporting Limit
- **PQL** Practical Quanitative Limit % Recovery outside of range due to dilution or matrix

Holding times for preparation or analysis exceeded

- В Analyte detected in the associated Method Blank
- Ε Value above quantitation range
- Analyte detected below quantitation limits P Sample pH Not In Range
- RL Reporting Detection Limit Sample container temperature is out of limit as specified

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1803645

14-Mar-18

Client: Project: Blagg Engineering STATE GC BQ 1

Sample ID LCS-36977	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 36977	RunNo: 49732						
Prep Date: 3/13/2018	Analysis Date: 3/13/2018	SeqNo: 1608801 Units: mg/Kg						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						
Diesel Range Organics (DRO)	46 10 50.00	0 91.7 70 130						
Surr: DNOP	3.5 5.000	70.5 70 130						
Sample ID MB-36977 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 36977	RunNo: 49732						
Prep Date: 3/13/2018	Analysis Date: 3/13/2018	SeqNo: 1608802 Units: mg/Kg						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						
Diesel Range Organics (DRO)	ND 10							
Motor Oil Range Organics (MRO)	ND 50							
Surr: DNOP	8.3 10.00	82.6 70 130						
Sample ID LCS-36968	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 36968	RunNo: 49732						
Prep Date: 3/12/2018	Analysis Date: 3/13/2018	SeqNo: 1609428 Units: %Rec						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						
Surr: DNOP	3.8 5.000	76.0 70 130						

Sample ID MB-36968	SampType: MBL	(Tes	tCode: EPA Method	8015M/D: Die:	sel Rang	e Organics	
Client ID: PBS	Batch ID: 36968	F	RunNo: 49732				
Prep Date: 3/12/2018	Analysis Date: 3/13/	2018	SeqNo: 1609429	Units: %Rec			
Analyte	Result PQL S	PK value SPK Ref Val	%REC LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.3	10.00	93.4 70	130			

9.3

93.4

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

Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 3 of 5

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#:

1803645

14-Mar-18

Client:

Blagg Engineering

Project:

STATE GC BQ 1

Sample ID MB-36964

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

%REC

Client ID:

Batch ID: 36964

PQL

5.0

RunNo: 49750

Prep Date: 3/12/2018

SPK value SPK Ref Val

SeqNo: 1609795

Analyte

Analysis Date: 3/13/2018

Units: mg/Kg

Result ND

LowLimit

LowLimit

15

HighLimit

%RPD **RPDLimit**

RPDLimit

Qual

Gasoline Range Organics (GRO)

Surr: BFB

930

1000

92.8

316

%RPD

Sample ID LCS-36964

Prep Date: 3/12/2018

Client ID: LCSS

SampType: LCS Batch ID: 36964

TestCode: EPA Method 8015D: Gasoline Range

RunNo: 49750

Analysis Date: 3/13/2018

SeqNo: 1609796

0

%REC

Units: mg/Kg

HighLimit

Qual

Analyte Gasoline Range Organics (GRO) Result 26 PQL SPK value SPK Ref Val 5.0 25.00

105 104 75.9

Surr: BFB

1000 1000

131 15 316

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Page 4 of 5

- P Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1803645

14-Mar-18

Client: Project: Blagg Engineering STATE GC BQ 1

Sample ID MB-36964 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: Batch ID: 36964 RunNo: 49750 Prep Date: 3/12/2018 Analysis Date: 3/13/2018 SeqNo: 1609836 Units: mg/Kg %REC LowLimit **RPDLimit** Analyte Result **PQL** SPK value SPK Ref Val HighLimit ND 0.025 Benzene ND 0.050 Toluene 0.050 Ethylbenzene ND Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 0.90 1.000 89.8 80 120

Sample ID LCS-36964	SampType: LCS Batch ID: 36964 Analysis Date: 3/13/2018			TestCode: EPA Method 8021B: Volatiles									
Client ID: LCSS				F									
Prep Date: 3/12/2018				SeqNo: 1609837			Units: mg/k	(g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	1.0	0.025	1.000	0	105	77.3	128						
Toluene	1.0	0.050	1.000	0	104	79.2	125						
Ethylbenzene	1.0	0.050	1.000	0	103	80.7	127						
Xylenes, Total	3.1	0.10	3.000	0	105	81.6	129						
Surr: 4-Bromofluorobenzene	0.95		1.000		95.3	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 5 of 5

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



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

Website: www.hallenvironmental.com

Albuquerque, NM 87109 Sample Log-In Check List

Client Name:	BLAGG		Work	nber: 18036	45		RcptNo: 1					
Received By:	Anne Tho	Thorne 3/13/2018 6:55:00 A					1	V				
Completed By:	Anne The						ann s	N				
, ,					AWI		ame s	ham	•			
Reviewed By:	Me	'	3/13/1	8								
Chain of Cus		olete?			Yes 5		No [Not Present			
2. How was the sample delivered?					Courie	r.						
Log In												
3. Was an attempt made to cool the samples?					Yes 🛚		No 🗆]	NA			
4. Were all samples received at a temperature of >0° C to 6.0°C					Yes 🖳		No 🗆]	NA			
5. Sample(s) in proper container(s)?					Yes Y		No 🗆]				
6. Sufficient sample volume for indicated test(s)?					Yes 🗸	7	No 🗌					
7. Are samples (except VOA and ONG) properly preserved?					Yes 🗹		No 🗆					
8. Was preservative added to bottles?					Yes]	No 🗸		NA			
9. VOA vials have zero headspace?					Yes [_	No 🗆	N	o VOA Vials	V		
10. Were any sample containers received broken?					Yes	J	No 🗹	#	of preserved	d	-	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)					Yes 🗹]	No 🗆		r pH:		>12 unless noted)	
12. Are matrices correctly identified on Chain of Custody?					Yes 🗸]	No 🗌		Adjusted	?		
13. Is it clear what analyses were requested?					Yes 🗹		No 🗌					
14. Were all holding times able to be met? (If no, notify customer for authorization.)							No 🗌		Checked	by:		
Special Handl	ing (if apı	olicable)										
15. Was client notified of all discrepancies with this order?							No []	NA	V		
Person	Notified:	A CHINA PAR LADALANA AND		Date	1	tubleum tung	ARRESTANTO	MAY .				
By Whom: Via:						Ph	one 🔲 Fa	ax 🗌	In Person			
Regardi	ng:	- AND CONTRACTOR OF THE PARTY O	A STATE OF THE PARTY OF THE PAR				TO THE PERSON NAMED AS A STATE OF			NAME OF THE OWNER, WHEN PERSON PROPERTY.		
Client Instructions:						-		SAMONDO	CONTRACTOR AND	MARKET .		
16. Additional rer	narks:											
17. Cooler Inform	mation											
Cooler No	-		Seal Intact	Seal No	Seal Date	5	Signed By	_				
[1	1.0	Good	Yes								¥	



