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

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

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-144 Revised April 3, 2017

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.

For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

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 OGRID #: 778
Address: 200 Energy Court, Farmington, NM 87401
0011000
API Number: 3004506918 OCD Permit Number: U/L or Qtr/Qtr C Section 06 Township 27N Range 12W County: San Juan [7]
Center of Proposed Design: Latitude 36.60826 Longitude -108.15563 NAD83
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
Pit: Subsection F, G or J of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: 21
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)
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)
Four foot height, four strands of barbed wire evenly spaced between one and four feet

Alternate. Please specify

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

Within 100 feet of a wetland. • US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit Non-low chloride drilling fluid	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Permanent Pit or Multi-Well Fluid Management Pit	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 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 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 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
III.	
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	15.17.9 NMAC
Previously Approved Design (attach copy of design) API Number: or Permit Number:	

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the	documents are
	documents are
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
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be a closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. F 19.15.17.10 NMAC for guidance.	
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	Yes No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	□ Vas □ Na
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	Yes No

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. • Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ☐ No
Within a 100-year floodplain FEMA map	Yes No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17. Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards 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 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 beling the complete to the best of my knowledge and beli	
Signature: Date:	
e-mail address: Telephone:	
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 5	598
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: 3/2/2018	
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)
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please incommark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure for private land only) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation	dicate, by a check

22.	
Operator Closure Certification:	
I hereby certify that the information and attachments submit	ted 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 applic	cable closure requirements and conditions specified in the approved closure plan.
Name (Print): Erin Garifalos	Title: Field Environmental Coordinator
Atim a Atish A.	
em garifalos	Date: April 26, 2018
Signature:	Date: April 20, 2010
e-mail address: erin.garifalos@bp.com	(832) 600 7049
e-mail address: emi.gamaios@bp.com	Telephone: (832) 609-7048

BP AMERICA PRODUCTION COMPANY

SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

GCU 089

API No. 3004506918

Unit Letter C Section 06 T 27N R 12W

This plan will address the standard protocols and procedures for closure of below-grade tanks (BGTs) on BP America Production Company (BP) well sites. As stipulated in Paragraph A of 19.15.17.13 NMAC, BP shall close a BGT within the time periods provided in 19.15.17.13 NMAC, or by an earlier date that the New Mexico Oil Conservation Division (NMOCD) requires because of imminent danger to fresh water, public health, safety or the environment. If deviations from this plan are necessary, any specific changes will be included on form C-144 and approved by the NMOCD. BP shall close an existing BGT that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years after June 16, 2008, if not retrofit with a BGT that complies with the BP NMOCD approved BGT design attached to the BP Design and Construction Plan. BP shall close an existing BGT that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC, if not previously retrofitted to comply with the BP NMOCD approve BGT Design attached to the BP Design and Construction Plan, prior to any sale or change in operator pursuant to 19.15.9.9 NMAC. BP shall close the permitted BGT within 60 days of cessation of the BGTs operation or as required by the transitional provisions of Subsection B, D, or E of 19.15.17.17 NMAC.

General Closure Plan

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

Notice is attached.

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

Notice was provided and is attached.

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

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

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

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

The BGT was transported for recycling.

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

All equipment associated with the BGT has been removed.

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

Constituents	Testing Method	Release Verification	Sample
	21 bbl BGT	(mg/Kg)	results
Benzene	US EPA Method SW-846 8021B or 8260B	10	<0.018
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.073
TPH	US EPA Method SW-846 418.1 or <u>8015</u> extended	100	<49
Chlorides	US EPA Method 300.0 or 4500B	620	<30

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

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

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

C-141 is attached.

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

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

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

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

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

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

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

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

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

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

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

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

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

The area has been backfilled and BGT location's surface condition is clear, but within the site's operational area. The location will be reclaimed when the well is plugged & 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 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 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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

			Rele	ease Notific	cation	and Co	rrective A	ction	ı			
						OPERA			Initia	al Report		Final Report
				tion Compan			Garifalos	7040				
Facility Nar			rmingto	n, NM 87401			^{√o.} (832) 609- e: Natural Ga		all			
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Surface Ow	ner: Fed	erai		Mineral (API No	.300450	6918	3
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Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the		West Line	County	an	Juan
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				NAT	URE	OF RELI	EASE					
Type of Rele	ase:: none	9				Volume of	Release:: unkno			Recovered::		
Source of Re	lease: belo	w grade ta	nk - 21	bbl		Date and H	our of Occurrence	e:	Date and I	Hour of Dis	covery:	
Was Immedia		Given?				If YES, To	Whom?		11/4			
			Yes ✓	No Not R	equired							
By Whom? Was a Water	Pourse Read	shed?				Date and H	our lume Impacting t	he Wat	ercourse			
was a water	course Read		Yes 🗸	No		11 1125, 40	rume impacting t	iic wat	creourse.			
If a Watercou	rse was Im	pacted, Descri	be Fully.*									
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Describe Cat	se of Floor	em and Kemed	nai Actioi	Sam			beneath the					
					-		d for Chlorid		-			
				closu	ire sta	ndards. F	ield reports	and I	aborator	ry results	are	attached.
Describe Are	a Affected	and Cleanup A	Action Tak	en.* No actio	n nec	essary F	inal laborate	orv ai	nalveis d	letermin	ed no)
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				Torriodia	· dollo	o.roqui						
I hereby certi	fy that the	information gi	ven above	is true and comp	lete to th	ne best of my	knowledge and u	ndersta	nd that purs	uant to NMO	OCD ru	les and
regulations a	1 operators	are required to	report an	d/or file certain r	elease no	otifications ar	d perform correc	tive act	ions for rele	eases which	may en	danger
							arked as "Final Roon that pose a thro					
or the environ	nment. In a	ddition, NMO	CD accep				e the operator of					
federal, state,	or local lav	ws and/or regu	lations.				OIL CONS	SFRV	ATION	DIVISIO	N	
1	Tino	Willalo	4				OIL COIL	JLIC V	7111011	DIVISIO	11	- 1
Signature:	and 8	or office				A	Environmental S	!.1!	4.			
Signature:	Erin C	arifalos			1	Approved by	Environmental S	pecialis	ι.			
		onmenta		rdinator					D 1			
					1	Approval Dat	e:		Expiration I	Date:		
E-mail Addre	ss: erin.	garifalos	@pp.	com	(Conditions of	Approval:			Attached		
Date: April	26, 2018	}	Phone:	(832) 609-70)48							

^{*} Attach Additional Sheets If Necessary



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

February 23, 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: GALLEGOS CANYON UNIT 089 API #: 3004506918

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 February 26, 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: Subject: jeffcblagg@aol.com; blagg_njv@yahoo.com; Garifalos, Erin RE: BP Pit Close Notification - GALLEGOS CANYON UNIT 089

Date:

Friday, February 23, 2018 2:13:26 PM

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>

February 23, 2018

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

RE:

Notice of Proposed Below-Grade Tank (BGT) Closure

GALLEGOS CANYON UNIT 089 API 30-045-06918 (C) Section 06 – T27N – R12W

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 February 26, 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.

RD				300450	16918
CLIENT:		7	VI 87413	TANKLID	
FIELD REPORT:	(circle one): BGT CONFIRMATION	/ RELEASE INVESTIGATION /	OTHER:	PAGE #: 1	of 1
FIELD REPORT: (circle one): BGTCONFRMATION: Circle one): BGTCONFRMATION: PRELASE INVESTIGATION / OTHER: PAGE #: 1 of 1 DATE TIME OF 27N RNG. 12W PM. NM. CNITY. S.J. ST. NM. NM. PARCE #: 1 of 1 DATE STATED 02/27/18 DATE STATED 02/27/18 DATE FINISHED. LESSER #S 5080111 PROD FORMATION: DK CONTROL BP. J.					
QUAD/UNIT: C SEC: 6 TWP:			ST: NM		
P.O. BOX 87, BLOOMFIELD, NM 87413 (GO5) 632-1199 FIELD REPORT: (circle one): BGTCONFRMATION: RELAKE INVESTIGATION / OTHER SITE INFORMATION: STEMANE GCU #89 QLADADINT C SEC 6 TAPE 27N RNC: 12W PM NM CNTY SJ ST NM 1/4-1/4/FOOTAGE: 990'N / 1,650'W NE/NW LEASE TYPE: FEDERAL/STATE / FEE / INDIAN 1/4-1/4/FOOTAGE: 990'N / 1,650'W NE/NW LEASE TYPE: FEDERAL/STATE / FEE / INDIAN 1/4-1/4/FOOTAGE: 990'N / 1,650'W NE/NW LEASE TYPE: FEDERAL/STATE / FEE / INDIAN 1/4-1/4/FOOTAGE: 990'N / 1,650'W NE/NW LEASE TYPE: FEDERAL/STATE / FEE / INDIAN 1/4-1/4/FOOTAGE: 990'N / 1,650'W NE/NW LEASE TYPE: FEDERAL/STATE / FEE / INDIAN 1/4-1/4/FOOTAGE: 990'N / 1,650'W NE/NW LEASE TYPE: FEDERAL/STATE / FEE / INDIAN 1/4-1/4/FOOTAGE: 990'N / 1,650'W NE/NW LEASE TYPE: FEDERAL/STATE / FEE / INDIAN 1/4-1/4/FOOTAGE: 990'N / 1,650'W NE/NW LEASE TYPE: FEDERAL/STATE / FEE / INDIAN 1/4-1/4/FOOTAGE: 990'N / 1,650'W NE/NW LEASE TYPE: FEDERAL/STATE / FEE / INDIAN 1/4-1/4/FOOTAGE: 990'N / 1,650'W NE/NW LEASE TYPE: FEDERAL/STATE / FEE / INDIAN 1/4-1/4/FOOTAGE: 990'N / 1,650'W NE/NW LEASE TYPE: FEDERAL/STATE / FEE / INDIAN 1/4-1/4/FOOTAGE: 990'N / 1,650'W NE/NW LEASE TYPE: FEDERAL/STATE / FEE / INDIAN 1/4-1/4/FOOTAGE: 990'N / 1,650'W NE/NW LEASE TYPE: FEDERAL/STATE / FEE / INDIAN 1/4-1/4/FOOTAGE: 990'N / 1,650'W NE/NW LEASE TYPE: FEDERAL/STATE / FEE / INDIAN 1/4-1/4/FOOTAGE: 990'N / 1,650'W NE/NW LEASE TYPE: FEDERAL/STATE / FEE / INDIAN 1/4-1/4/FOOTAGE: 990'N / 1,650'W NE/NW LEASE TYPE: FEDERAL/STATE / FEE / INDIAN 1/4-1/4/FOOTAGE: 990'N / 1,650'W NE/NW LEASE TYPE: FEDERAL/STATE / FEE / INDIAN 1/4-1/4/FOOTAGE: 990'N / 1,650'W NE/NW LEASE TYPE: FEDERAL/STATE / INDIAN 1/4-1/4/FOOTAGE: 990'N / 1,650'W NE/NW LEASE TYPE: FEDERAL/STATE / INDIAN 1/4-1/4/FOOTAGE: 990'N / 1,650'W NE/NW LEASE TYPE:					
	_				
,					
FIELD REPORT: Continue to the continue to t					
		DRIABIISED: LIAII		KING FROM W.H.:	
				15B/8021B/300.0 (CI)	(ppm)
	•		5071021010.	TODIOUZ IDIOUTIO (C.)	101
3) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:	LAB ANALYSIS:		
	asparent set activities :				
SOIL COLOR: MODE COHESION (ALL OTHERS): NON COHESIVE SLIGHTL' CONSISTENCY (NON COHESIVE SOILS): LC MOISTURE: DRY (SLIGHTLY MOIST) MOIST / W SAMPLE TYPE: GRAB COMPOSITE :	RATE BROWN Y COHESIVE COHESIVE / HIGHLY COHESIVE DOSE FIRM DENSE / VERY DENSE ET / SATURATED / SUPER SATURATED # OF PTS. 5	PLASTICITY (CLAYS): NON PLASTI DENSITY (COHESIVE CLAYS & HC ODOR DETECTED: YES NO	IC / SLIGHTLY PLASTIC / C SILTS): SOFT / FIRM / EXPLANATION -	STIFF / VERY STIFF / HARD	GHLY PLASTIC
SITE OBSERVATION APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA:	LOST INTEGRITY OF EQUIPMENT ED AND/OR OCCURRED: YES NO EXPL YES NO EXPLANATION -	ANATION: POSSIBLE - (base			d).
EXCAVATION DIMENSION ESTIMATION:	NA ft. X NA	ft. X NA ft.	EXCAVATION EST	TIMATION (Cubic Yards) :	NA
1001				,	000
SITE SKETCH	BGT Located: off on sit	e PLOT PLAN cir	cle: attached OVM	I CALIB. READ. = NA	nom DE =1.00
			A .		111 -1.00
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	$\left(\begin{array}{c} \left(\begin{array}{c} x \\ x \\ x \end{array}\right) \end{array}\right)$	STEEL			
	PROD.	CONTAINMENT	P	ermit date(s): 06/	02/10
	IANK	Tuito			
			IC	ppm = parts per million	n
			X - S.P.D.		
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BEL		POINT DESIGNATION; R.W. = RETAINING	NAME AND THE PARTY OF		
NOTES: GOOGLE EARTH IMAG		ONSITE: 02/27/	/18		

Analytical Report

Lab Order 1802E16

Date Reported: 3/2/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 5PC-TB @ 6' (21)-B

Project: GCU 89

Collection Date: 2/27/2018 10:45:00 AM

Lab ID:

1802E16-001

Matrix: SOIL

Received Date: 2/28/2018 7:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	CJS
Chloride	ND	30	mg/Kg	20	2/28/2018 11:09:50 AM	36768
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst:	AG
Gasoline Range Organics (GRO)	ND	3.6	mg/Kg	1	2/28/2018 10:04:39 AM	G49442
Surr: BFB	119	70-130	%Rec	1	2/28/2018 10:04:39 AM	G49442
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst:	TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	2/28/2018 9:49:05 AM	36765
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/28/2018 9:49:05 AM	36765
Surr: DNOP	107	70-130	%Rec	1	2/28/2018 9:49:05 AM	36765
EPA METHOD 8260B: VOLATILES S	HORT LIST				Analyst:	AG
Benzene	ND	0.018	mg/Kg	1	2/28/2018 10:04:39 AM	S49442
Toluene	ND	0.036	mg/Kg	1	2/28/2018 10:04:39 AM	S49442
Ethylbenzene	ND	0.036	mg/Kg	1	2/28/2018 10:04:39 AM	S49442
Xylenes, Total	ND	0.073	mg/Kg	1	2/28/2018 10:04:39 AM	S49442
Surr: 4-Bromofluorobenzene	111	70-130	%Rec	1	2/28/2018 10:04:39 AM	S49442
Surr: Toluene-d8	93.6	70-130	%Rec	1	2/28/2018 10:04:39 AM	S49442

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

Qualifiers:

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

CI	nain-c	of-Cus	stody Record	Turn-Around T	ime:	SAME	١.	,		L	AL		E	NIV.	/TE	20	RI I	M E	NT	ra!	
Client:	BLAG	G ENGR.	/ BP AMERICA	☐ Standard	✓ Rush _	DAY			H										\T		
				Project Name:													.com			7	
Mailing Ad	dress:	P.O. BO	X 87	,	GCU #89	9		49	01 H	ławk									9		
		BLOOM	FIELD, NM 87413	Project #:						05-3							-410				
Phone #:		(505) 63	2-1199					Š. 2	AŽ.		AL.	F	Anal	ysis	Red	ques	st			S	
email or F	ax#:			Project Manag	jer:									~				1)			\Box
QA/QC Pad Standa	_		Level 4 (Full Validation)		ERIN GARII	FALOS	MB ⁺ s (8021B)	(Gas only)	MRO)			(SI		04,50,	PCB's			er - 300.1)			0
Accreditat	ion:		v	Sampler:	NELSON VE	LEZ)8) F	(Gas	DRO /	ਜ	(T	SIN		102,	8082			/ wat			ldu
□ NELAP		☐ Other		On lide	Francis (AT No. 1990	1	TPH	~	418	504	827(03,1	_		(A)	0.00			e sa
□ EDD (T	ype)	· · · · · · · · · · · · · · · · · · ·		Sample Temp	erature 10			+	(GR(por	pou	or	etals	N,	cide	F	i-VC	il - 3		e	osit
Date	Time	Matrix	Sample Request ID	Container Type and # MCOHKE	Preservative Type	HEALING HEALING	BTEX +-MTE	BTEX + MTBE	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 82705IMS)	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0 / water		Grab sample	5 pt. composite sample
2/27/18	1045	SOIL	5PC-TB@ 6 / (21)-B	4 oz 1	Cool	-10	٧		٧									٧			٧
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Date:	Time:	Relinquish	ed by:	Received by:	<u> </u>	Date Time	Ren	narks	<u></u>	BILL	DIREC	TLYT	OBP	USING	THE	CONT	ACT V	VITH (ORRE	SPON	DING
2/27/18	1537	70	la V	Mut (Received by:	Dack	2/27/18 1537 Date Time		ONT	ACT:	& RE	FEREN	ICE#	WHE	N APP	LICA	BLE;					
a) 27 18	1817	Relinquish	at Walter	Col	za h	62/28/18 - 07d		feren	ce #	_	Р-	937	_								

Hall Environmental Analysis Laboratory, Inc.

WO#:

1802E16

02-Mar-18

Client:

Blagg Engineering

Project:

GCU 89

Sample ID MB-36768

SampType: mblk

TestCode: EPA Method 300.0: Anions

PBS Client ID:

Batch ID: 36768

RunNo: 49447

Prep Date: 2/28/2018

Analysis Date: 2/28/2018

PQL

Batch ID: 36768

1.5

1.5

SeqNo: 1598319

Units: mg/Kg

Analyte

Result

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDLimit** Qual

Chloride

ND

SampType: Ics

TestCode: EPA Method 300.0: Anions RunNo: 49447

Prep Date: 2/28/2018

Client ID: LCSS

Sample ID LCS-36768

SeqNo: 1598320

Units: mg/Kg

Analyte

Analysis Date: 2/28/2018

HighLimit

RPDLimit

SPK value SPK Ref Val

%REC

90

%RPD

Chloride

14

95.7

Qual

Result **PQL**

15.00

LowLimit

110

Qualifiers:

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

Reporting Detection Limit

Page 2 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1802E16

02-Mar-18

Client:

Blagg Engineering

Project:

GCU 89

Sample ID LCS-36765	SampT	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics										
Client ID: LCSS	Batch ID: 36765 RunNo: 49443											
Prep Date: 2/28/2018	Analysis Da	ate: 2/	28/2018	S	SeqNo: 1	597059	Units: mg/k	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	46	10	50.00	0	92.5	70	130					
Surr: DNOP	4.7		5.000		93.2	70	130					

Sample ID MB-36765 SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: PBS	Batcl	n ID: 36	765	F	RunNo: 4	9443						
Prep Date: 2/28/2018	2018 Analysis Date: 2/28/2018				SeqNo: 1597060			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	10		10.00		103	70	130					

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 3 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1802E16

02-Mar-18

Client:

Blagg Engineering

Project:

GCU 89

Project: GCU 8	9									
Sample ID 100ng Ics	SampType: LCS4			Tes	TestCode: EPA Method 8260B: Volatiles Short List					
Client ID: BatchQC	Batc	h ID: S4	9442	F						
Prep Date:	Analysis [Date: 2/	28/2018	S	SeqNo: 1	597052	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	98.0	80	120			
Toluene	0.98	0.050	1.000	0	98.4	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.3	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.7	80	120			
Surr: 4-Bromofluorobenzene	0.46		0.5000		92.7	70	130			
Surr: Toluene-d8	0.48		0.5000		96.6	70	130			
Sample ID rb	Samp	Туре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List	
Client ID: PBS	Batc	h ID: S4	9442	F	RunNo: 4	9442				
Prep Date:	Analysis [Date: 2/	28/2018	S	SeqNo: 1	597054	Units: mg/F	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	NĎ	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.53		0.5000		107	70	130			
Surr. Toluene-d8	0.47		0.5000		94.8	70	130		<u> </u>	
Sample ID 1802e16-001am	s Samp1	Гуре: М.	<u> </u>	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List	_
Client ID: 5PC-TB @ 6' (2'	1)-B Batcl	h ID: S4	9442	RunNo: 49442						
Prep Date:	Analysis [Date: 2/	28/2018	S	SeqNo: 1	597615	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.66	0.018	0.7252	0	91.6	80	120			
Toluene	0.66	0.036	0.7252	0	91.6	80	120			
Ethylbenzene	0.65	0.036	0.7252	0	90.1	80	120			
Xylenes, Total	2.1	0.073	2.176	0	94.3	80	120			
1,2,4-Trimethylbenzene	0.69	0.036	0.7252	0	95.3	80	120			
1,3,5-Trimethylbenzene	0.66	0.036	0.7252	0	91.4	80	120			
Surr: 4-Bromofluorobenzene	0.35		0.3626		96.5	70	130			
Surr: Toluene-d8	0.34		0.3626		93.2	70	130			
Sample ID 1802E16-001AM	ISD Sampi	Type: MS	SD4	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List	
Client ID: 5PC-TB @ 6' (2'	1)-B Batcl	h ID: S4	9442	R	RunNo: 49	9442				
Prep Date:	Analysis E	Date: 2/	28/2018	S	SeqNo: 1	597616	Units: mg/K	(g		
		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte	Result								•	
Analyte Benzene	0.64 0.63	0.018 0.036	0.7252	0	87.7 87.1	80 80	120	4.33	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Page 4 of 6

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1802E16

02-Mar-18

Client:

Blagg Engineering

Project:

GCU 89

Sample ID 1802E16-001AMS	ID 1802E16-001AMSD SampType: MSD4				TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: 5PC-TB @ 6' (21))-B Batch	ID: S4	9442	F	RunNo: 4	9442					
Prep Date:	Analysis D	ate: 2/	28/2018	S	SeqNo: 1	597616	Units: mg/l	⟨g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Ethylbenzene	0.63	0.036	0.7252	0	87.4	80	120	2.98	0		
Xylenes, Total	1.9	0.073	2.176	0	86.1	80	120	9.05	0		
Surr: 4-Bromofluorobenzene	0.34		0.3626		95.0	70	130	0	0		
Surr: Toluene-d8	0.34		0.3626		92.9	70	130	0	0		

Qualifiers:

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

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1802E16

02-Mar-18

Client:

Blagg Engineering

Project:

GCU 89

Sample ID 2.5ug gro ics	SampType: LCS			Tes	TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: LCSS	Batch ID: G49442			F	RunNọ: 49442						
Prep Date:	Analysis D	ate: 2/	28/2018	8	SeqNo: 1	597049	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	30	5.0	25.00	0	118	70	130				
Surr: BFB	520		500.0		103	70	130				
Sample ID rb	SampType: MBLK			Tes	TestCode: EPA Method 8015D Mod: Gasoline Range						

Sample ID rb	SampT	SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch	1D: G 4	19442	R	RunNo: 4	9442				
Prep Date:	Analysis D	ate: 2/	28/2018	S	SeqNo: 1	597050	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	570		500.0		115	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

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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: 1802E16	· ·	RcptNo: 1			
Received By: Completed By: Reviewed By:	Anne Thome Anne Thome	2/28/2018 7:00:00 2/28/2018 7:10:20 2/28/18		Aone Ha	-			
Chain of Cus	stody ustody complete?		Yes ⊻	No 🗆	Not Present □			
	sample delivered?	/	Courier	NO L		•		
Log In 3. Was an atten	npt made to cool the sa	mples?	Yes 🗹	No 🗆	NA 🗆			
4. Were all samp	ples received at a temp	erature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆			
5. Sample(s) in	proper container(s)?		Yes 🗹	No 🗆				
	nple volume for indicate except VOA and ONG)		Yes ☑ Yes ☑	No 🗆				
_	tive added to bottles?		Yes 🗌	No 🗹	NA 🗆			
	re zero headspace? nple containers receive	d broken?	Yes 🗌 Yes 🗆	No □ No ☑ ┌	No VOA Vials			
	ork match bottle labels? ancies on chain of custo		Yes 🗹	No 🗆	bottles checked for pH:	>12 unless noted)		
	correctly identified on C		Yes 🗹	No 🗆	Adjusted?			
14. Were all holding	t analyses were reques ng times able to be met ustomer for authorizatio	?	Yes ☑ Yes ☑	No □ □	Checked by:			
•	ing (if applicable)				·			
15. Was client no	tified of all discrepancie	es with this order?	Yes 🗆	No 🗆	NA 🗹			
By Who Regard		Date Via:		hone Fax	☐ In Person	,		
16. Additional rea	marks:			· · ·				
17. <u>Cooler Information</u>	Temp °C Condition		Seal Date	Signed By				
Ľ	1.0 Good	Yes						



