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 1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-144 Revised April 3, 2017 s, below-grade tanks, and

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.

16	30	6

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

NMOCD

Type of action: Below grade tank registration Permit of a pit or proposed alternativ Closure of a pit, below-grade tank, of Modification to an existing permit/o Closure plan only submitted for an expression or proposed alternative method	or proposed alternative method
Instructions: Please submit one application (Form C-144) per	er individual pit, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability shenvironment. Nor does approval relieve the operator of its responsibility to comply with	should operations result in pollution of surface water, ground water or the
Operator: BP America Production Company	OGRID #: 778
Address: 200 Energy Court, Farmington, NM 87401	
Facility or well name: GARTNER A 005A	
API Number: 3004522368 OCD PG	Permit Number:
API Number: 3004522368 OCD Po	Range 08W County: San Juan
Center of Proposed Design: Latitude 36.78566 Longit	itude -107.66692 NAD83
Surface Owner: 🔳 Federal 🗌 State 🗌 Private 🗌 Tribal Trust or Indian Allotmer	ent
☐ Pit: Subsection F, G or J of 19.15.17.11 NMAC Temporary: ☐ Drilling ☐ Workover ☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Mana ☐ Lined ☐ Unlined Liner type: Thickness mil ☐ LLDPE ☐ H ☐ String-Reinforced Liner Seams: ☐ Welded ☐ Factory ☐ Other Vo	HDPE PVC Other
3. Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: 21 bbl Type of fluid: Produced Water Tank Construction material: Steel	В
Secondary containment with leak detection Visible sidewalls, liner, 6-incl	ch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ■ Other Single wa	all/ Double bottom; sidewalls not visible
Liner type: Thicknessmil	
4. Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the	ne Santa Fe Environmental Bureau office for consideration of approval.
5. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporal Chain link, six feet in height, two strands of barbed wire at top (Required if local institution or church) Four foot height, four strands of barbed wire evenly spaced between one and for Alternate. Please specify	cated within 1000 feet of a permanent residence, school, hospital,

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								
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. <u>Siting Criteria (regarding permitting)</u> : 19.15.17.10 NMAC <i>Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below.</i> Siting criteria does not apply to drying pads or above-grade tanks.								
General siting								
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No							
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								
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 "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									
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									
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.	□ v□ v-								
- 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 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC									
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC									

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the	documents are							
### 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 H₂S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC								
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.								
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well 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 attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. □ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC □ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC □ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) □ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC □ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC								
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.	rce material are Please refer to							
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA							
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No							
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA							
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No							
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image								
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	U V U V-							
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 Ye Within an unstable area									
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map									
Within a 100-year floodplain FEMA map Yes									
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. 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 19.15.17.11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved) 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									
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 to the least of my know									
Signature: Date:									
e-mail address:									
18. OCD Approval: Permit Application (including closure plan) Closure Handonly OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 3/3 Title: Evolution worked Spec. OCD Permit Number:	0/18								
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. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: 1/24/2018									
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 in mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure for private land only) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude 36.78566 Longitude 1.07.66692	dicate, by a check								

	tted with this closure report is true, accurate and complete to the best of my knowledge and
Name (Print): Erin Garifalos	cable closure requirements and conditions specified in the approved closure plan. Title: Field Environmental Coordinator
Signature: UTIN gwiffalos	Date: March 20, 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

GARTNER A 005A

API No. 3004522368

Unit Letter F Section 27 T 30N R 08W

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

General Closure Plan

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

Notice is attached.

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

Notice was provided and is attached.

- 3. BP shall remove liquids and sludge from the BGT prior to implementing a closure method and dispose of the liquids and sludge in a NMOCD's division-approved facility. The facilities to be used are:
 - a. BP Crouch Mesa Landfarm, Permit NM-02-003 (Solids)
 - b. JFJ Landfarm, Permit NM-01-010(B) (Solids and Sludge)
 - c. Basin Disposal, Permit NM-01-0005 (Liquids)
 - 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	< 0.020
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.080
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	< 50
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.

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 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 BGT location's surface condition 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 BGT location's surface condition 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 BGT location's surface condition 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 BGT location's surface condition 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.

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

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

Form C-141 Revised April 3, 2017

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

Release Notification and Corrective Action														
						OPERATOR								
			Production C			Contact Erin Garifalos								
Address 20 Facility Na			rmington, NN	<i>I</i> 1 87401			No. (832) 609- ne : Natural Ga							
							c. Natural G	25 VVE		000450				
Surface Ow	mer: Fede	ral	l I	Mineral Ow	ner:	Federal			API No	.300452	2368	3		
						OF RE								
Unit Letter	0-									an	luan			
F	27	30N	08W 1,5		vor	tn	1,500	We	est		all	Juan		
			Latitude 36.7	78566	_ Lo	ngitude1	07.66692	NAD	83					
				NATU	RE	OF REL	EASE							
Type of Rele	ase:: none					Volume of	Release:: unkno			Recovered::				
Source of Re	lease: below	grade tai	nk - 21 bbl			Date and H	Iour of Occurrence	e:	Date and n/a	Hour of Dis	covery:			
Was Immedi		ven?				If YES, To	Whom?		1					
		Ш	Yes V No	Not Requ	ired									
By Whom? Was a Water	course Reach	ed?				Date and H	lour olume Impacting t	he Wat	ercourse					
Was a Water	course reach		Yes 🗸 No			11 120, 11	rume impacting t	110 11 41	ereo arbe.					
If a Watercon	urse was Impa	acted, Descri	be Fully.*											
Describe Car	ise of Probler	n and Remed	lial Action Taken	*										
				Sampli			beneath the							
					-		d for Chlorid							
70 11 1	1.00	1.01		Closure	Sia	nuarus. r	Field reports	anu	aborato	ry results	are	allached.		
Describe Are	a Affected ar	nd Cleanup A	ction Taken.*	o action	nec	essary. F	inal laborate	ory a	nalysis d	determin	ed no			
				emedial a		7.		,	,					
							knowledge and u							
regulations a	Il operators as or the enviro	re required to nment. The	report and/or file acceptance of a C	e certain relea C-141 report l	ase no	otifications as NMOCD m	nd perform correct arked as "Final R	tive act	ions for relations not relations	eases which leve the oper	may end	danger liability		
should their	operations have	ve failed to a	dequately investi	gate and rem	ediate	contaminati	on that pose a thre	eat to g	round water	, surface wa	ter, hun	nan health		
federal, state				1 a C-141 rep	ort do	bes not reliev	e the operator of	respons	ibility for c	ompliance w	ith any	otner		
						OIL CONSERVATION DIVISION								
· ·	run go	Villalo	4											
Signature:						Approved by	Environmental S	pecialis	t:					
Signature:	Erin G	arifalos												
Title: Field	d Enviro	nmenta	l Coordina	ator		Approval Dat	e:		Expiration Date:					
E-mail Addre	ess: erin.g	arifalos	@bp.com			Conditions of Approval:				Aurabad 🗆				
							* *			Attached				
Date: Marc * Attach Addi			Phone: (832)	009-7040	0									

bp



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

January 12, 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: GARTNER A 005A API #: 3004522368

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 January 17, 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:

ieffcblagq@aol.com; blagq_niv@yahoo.com; Garifalos, Erin

Subject:

RE: BP Pit Close Notification - GARTNER A 005A

Date: Frid

Friday, January 12, 2018 5:07:32 PM

This site has been rescheduled to start on Monday January 15th. The pit is scheduled to be removed at 12pm.

Thanks,

Farrah

From: Buckley, Farrah (CH2M HILL) Sent: Friday, January 12, 2018 2:44 PM

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

Cc: 'jeffcblagg@aol.com'; 'blagg_njv@yahoo.com'; Garifalos, Erin

Subject: BP Pit Close Notification - GARTNER A 005A

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

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

January 12, 2018

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

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

GARTNER A 005A API 30-045-22368 (F) Section 27 – T30N – R08W San Juan County, New Mexico

Dear Mr. Cory Smith and Mrs. Vanessa Fields,

In regards to the captioned subject and requirements of the NMOCD pit rule, this letter is notification that BP is planning to a 95bbl and a 21bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around January 17, 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	F.O. BOX 87, BEOGIVII TEED, 14141 87413							
. (,	(50	05) 632-1199		TANK ID (if applicble):	В			
FIELD REPORT:	THER:	PAGE #: 1	of					
SITE INFORMATION	I: SITE NAME: GARTN	NER A #5A		DATE STARTED: 01	/18/18			
QUAD/UNIT: F SEC: 27 TWP:	30N RNG: 8W PM	: NM CNTY: SJ	ST: NM	DATE FINISHED:				
1/4 -1/4/FOOTAGE: 1,515'N / 1,5		ENVIRONMENTAL SPECIALIST(S):	NJV					
REFERENCE POINT	PROD. FORMATION: MV C	s coord.: 36.7858		CI ELEV:	E 001'			
	GPS COORD.: 36			RING FROM W.H.:100',	-			
	GPS COORD.:							
3)				RING FROM W.H.:				
4)	GPS COORD.:		DISTANCE/BEA					
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) #			TANOT NOW VET II.	OVM READING			
5AIVIPLING DATA: 1) SAMPLE ID: 5PC - TB @ 6' (2				15B/8021B/300 0 (CI)	(ppm)			
1) SAMPLE ID:			LAB ANALYSIS:	135/002 15/300.0 (01)	IVA			
3) SAMPLE ID:								
4) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:	LAB ANALYSIS:					
SOIL DESCRIPTION								
SOIL COLOR: MODE COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY CONSISTENCY (NON COHESIVE SOILS): LC MOISTURE: DRY / SLIGHTLY MOIST / MOIST / W SAMPLE TYPE: GRAB / COMPOSITE - # DISCOLORATION/STAINING OBSERVED: YES / M	DOSE FIRM DENSE / VERY DENSE ET / SATURATED / SUPER SATURATED # OF PTS	·	SILTS): SOFT / FIRM / EXPLANATION -	STIFF / VERY STIFF / HARD	GHLY PLASTIC			
SITE OBSERVATION APPARENT EVIDENCE OF A RELEASE OBSERVE	S: LOST INTEGRITY OF EQUIPMENT							
EQUIPMENT SET OVER RECLAIMED AREA: OTHER: NMOCD OR BLM REPS. NOT PR	YES NO EXPLANATION -							
EXCAVATION DIMENSION ESTIMATION:	NA ft. XNA	ft. X NA ft.	EXCAVATION EST	TIMATION (Cubic Yards) :	NA			
	IEAREST WATER SOURCE: >1,000		.0001	1	100 ppm			
SITE SKETCH	BGT Located: off on si							
	DOT ECOCICO. OIL / OIL OIL	PLOTTENIA CITC	V	CALIB. READ. = NA	ppm RF =1.00			
	то			CALIB. GAS = NA : NA am/pm DATE: _	ppm NA			
	V.H.		N TIME					
				MISCELL. NO	IES			
		FENOR		/O:				
		FENCE		EF#: P-918	10			
В	ERM //		_	D: VHIXONEVE	52			
		PROD.	1 -	J#:	14/10			
		TANK		201	07/17			
	PBGTL T.B. ~ 6'		Tan	k OVM = Organic Vapor	Meter			
	B.G.		B	ppm = parts per million BGT Sidewalls Visible: Y				
		V		BGT Sidewalls Visible: Y				
NOTES: DOT - DELON/ODADE TANK E.D EVON/ATIO	ON DEDDESSION: D.C DELOWODADE, D		- S.P.D.	BGT Sidewalls Visible: Y				
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION T.B. = TANK BOTTOM; PBGTL = PREVIOUS BEL			AULI ALL MOT		0°E			
APPLICABLE OR NOT AVAILABLE; SW - SINGLE	E WALL; DW - DOUBLE WALL; SB - SINGLE BO	TTOM; DB - DOUBLE BOTTOM.	101	agricus decimation.				
NOTES: GOOGLE EARTH IMAGE	ERY DATE: 10/5/2016.	ONSITE: 01/18/1	8					

Analytical Report

Lab Order 1801957

Date Reported: 1/24/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering **Project:** GARTNER A 5A

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

Collection Date: 1/18/2018 12:55:00 PM

Lab ID: 1801957-002 Matrix: SOIL Received Date: 1/19/2018 7:50:00 AM

Analyses	rses Result PQL Qual Uni		al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	ND	30	mg/Kg	20	1/19/2018 1:16:50 PM	36110
EPA METHOD 8015D MOD: GASOLI	NE RANGE				Analyst:	AG
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	1/19/2018 11:21:54 AM	G48563
Surr: BFB	105	70-130	%Rec	1	1/19/2018 11:21:54 AM	G48563
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst:	TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	1/19/2018 11:40:39 AM	36104
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/19/2018 11:40:39 AM	36104
Surr: DNOP	99.8	70-130	%Rec	1	1/19/2018 11:40:39 AM	36104
EPA METHOD 8260B: VOLATILES S	HORT LIST				Analyst:	AG
Benzene	ND	0.020	mg/Kg	1	1/19/2018 11:21:54 AM	R48563
Toluene	ND	0.040	mg/Kg	1	1/19/2018 11:21:54 AM	R48563
Ethylbenzene	ND	0.040	mg/Kg	1	1/19/2018 11:21:54 AM	R48563
Xylenes, Total	ND	0.080	mg/Kg	1	1/19/2018 11:21:54 AM	R48563
Surr: 4-Bromofluorobenzene	110	70-130	%Rec	1	1/19/2018 11:21:54 AM	R48563
Surr: Toluene-d8	96.8	70-130	%Rec	1	1/19/2018 11:21:54 AM	R48563

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 2 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Cl	nain-c	of-Cus	stody Record	Turn-Around 1	ime:	SAME				Н	AI		EN	V	D		IM	EN.	TA	1	
Client:	BLAG	G ENGR.	/ BP AMERICA	☐ Standard	☐ Standard ☑ RushDAY													AT			
				Project Name:												tal.c					
Mailing Ad	dress:	P.O. BO	X 87	G	ARTNER A	# 5A		49	01 H								1 871	.09			
		BLOOM	FIELD, NM 87413	Project #:						5-34						345-4					
Phone #:		(505) 63	2-1199									Ar	nalys	is R	equ	ıest					
email or F	ax#:			Project Manag	jer:						T		-	4			=	Ţ			
QA/QC Pad Standa			Level 4 (Full Validation)		ERIN GARI	FALOS	(80218)	+ TPH (Gas only)	(MRO)			15)		04,50	L PCB'S		2001	200		e	
Accreditati	ion:		,	Sampler:	NELSON VI	ELEZ] ®	(Gas	RO/	1	F.	OSIN	9	2 8	8087		/ umbor	8		sample	
□ NELAP		□ Other	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLU	ASSESSMENT PROPERTY AND ADDRESS OF THE PERSON OF THE PERSO	Z/Yes	E Ne I 7/y	1	TPH	0/0	418	504	827	5	03,	Se	13	A 6	9		te sa	r N
□ EDD (T	ype)			Sample Temp	erature 2.9	CE TOSA ?	i i	3E +	(GR(poc	pou	or	etal	2 3	Cide	<u>a</u>	<u> </u>		elc	osit	30
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALING MAI 957	BTEX +***	BTEX + MTBE	TPH 8015B (GRO / DRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,CJ,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082	8260B (VOA)	82/0 (Semi-VOA)	or o	Grab sample	5 pt. composite	Air Bubbles (Y or N)
1/13/10	1240	SOIL	500 TD @ 3 (05)-A	402. 1	Cool	100	4		4						-		-		\Box	4	-
													1			\top					
1/18/18	1255	5012	5PC-TB @ 6' (Z1)-B	402,-1	CooL	702	·V		1		1						V	1		V	
			. /.												I						
			<i>'</i>								_										
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							+				+	+	+	+	+	+	+	+	H		H
Date:	Time: 153	Relinquish	ed by:	Received by:		Date Time	Ren	narks									TWIT	H CORR	ESPON	IDING	VID
1/15/18	/18/18	1	luVj_	Museul	ublte	/18/18 153-	2 0		ACT:		GAR	IFAL				<u>e;</u> IIXON	ı				
Date:	Time:	Relinquish	od by:	Received by:	Minor	Date Time	Re	feren		VHD	ONE P-9										
- 10/18	If necessa	ary, samples s	submitted to Half Environmental may be su	ubcontracted to other	accredited laboratorie	es. This serves as notice	of this p	ossibil	ity. Ar	ny sub-	contrac	cted da	ata will	be cle	early n	notated	on the	analytic	al repo	rt.	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1801957

24-Jan-18

Client:

Blagg Engineering

Project:

GARTNER A 5A

Sample ID MB-36110

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 36110

RunNo: 48569

Prep Date: 1/19/2018

Analysis Date: 1/19/2018

SeqNo: 1563719

Units: mg/Kg

RPDLimit

Qual

Analyte Chloride

Client ID:

Result ND PQL SPK value SPK Ref Val %REC LowLimit 1.5

TestCode: EPA Method 300.0: Anions

HighLimit

%RPD

Sample ID LCS-36110

SampType: Ics Batch ID: 36110

RunNo: 48569

Prep Date: 1/19/2018

LCSS

Analysis Date: 1/19/2018

SeqNo: 1563721

Units: mg/Kg

SPK value SPK Ref Val %REC

Qual

14

Page 3 of 6

%RPD

Analyte Chloride

93.2

RPDLimit

PQL 1.5

15.00

HighLimit 110

Value exceeds Maximum Contaminant Level.

Holding times for preparation or analysis exceeded H

PQL

Analyte detected in the associated Method Blank

RL

E Value above quantitation range Analyte detected below quantitation limits

P Sample pH Not In Range

Reporting Detection Limit

Sample container temperature is out of limit as specified

Qualifiers:

D Sample Diluted Due to Matrix

Not Detected at the Reporting Limit ND Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1801957

24-Jan-18

Client:

Blagg Engineering

Project:

GARTNER A 5A

Sample ID LCS-36104	SampType: LCS			Test	TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch II	D: 36 1	104	RunNo: 48560						
Prep Date: 1/19/2018	Analysis Dat	te: 1/	19/2018	2018 SeqNo: 1561811 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	91.4	70	130			
Surr: DNOP	4.4		5.000		88.8	70	130			

Sample ID MB-36104	SampT	ype: ME	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch	ID: 36	104	F	RunNo: 4	8560				
Prep Date: 1/19/2018	Analysis D	ate: 1/	19/2018	S	SeqNo: 1	561812	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		93.4	70	130			

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 4 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

- QC-SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1801957

24-Jan-18

Client:

Blagg Engineering

Project:

GARTNER A 5A

Sample ID rb	Samp	Гуре: МЕ	BLK	TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: PBS	Batcl	h ID: R4	8563	RunNo: 48563							
Prep Date:	Analysis Date: 1/19/2018			S	SeqNo: 1561917			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	0.53		0.5000		106	70	130				
Surr: Toluene-d8	0.49		0.5000		97.8	70	130				
Sample ID 100ng btex lcs	SampT	Type: LC	: LCS4 TestCode: EPA Method 8260B: Volatiles Short List					List			
01 110 51100	D. L. L. D. D. C.			-	Duralles 10000						

Sample ID 100ng btex Ics	SampType: LCS4 TestCode: EPA Method 8260B: Volatiles Short List							List		
Client ID: BatchQC	Batcl	n ID: R4	8563	RunNo: 48563						
Prep Date:	Analysis [ate: 1/	1/19/2018 SeqNo: 1563035 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	84.9	80	120			
Toluene	0.92	0.050	1.000	0	92.1	80	120			
Ethylbenzene	0.90	0.050	1.000	0	90.2	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.9	80	120			
Surr: 4-Bromofluorobenzene	0.47		0.5000		93.9	70	130			
Surr: Toluene-d8	0.49		0.5000		98.5	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

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 5 of 6

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

480

WO#:

Page 6 of 6

1801957

24-Jan-18

Client:

Blagg Engineering

Project:

Surr: BFB

GARTNER A 5A

Sample ID 2.5ug gro lcs SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range Client ID: LCSS Batch ID: G48563 RunNo: 48563 Prep Date: Analysis Date: 1/19/2018 SeqNo: 1561861 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 70 Gasoline Range Organics (GRO) 25 5.0 25.00 0 98.4 130

500.0

Sample ID rb SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range Client ID: PBS Batch ID: G48563 RunNo: 48563 Prep Date: Analysis Date: 1/19/2018 SeqNo: 1561862 Units: mg/Kg Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual ND 5.0 Gasoline Range Organics (GRO) 510 Surr: BFB 500.0 101 70 130

95.1

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

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	BLAGG	Work Order Numb	er: 1801957	RcptNo: 1						
Received By:	Erin Melendrez	1/19/2018 7:50:00 A	м	u us	_					
				ans Ihm						
Completed By:	Anne Thome	1/19/2018 8:02:14 A	M Am Show							
Reviewed By:	17125	1/19/18								
	ustody complete?		Yes 🗹	No 🗆	Not Present					
Z. How was the	sample delivered?		Courier							
Log In 3. Was an attern	npt made to cool the s	amples?	Yes 🔽	No 🗆	NA 🗆					
4. Were all samp	oles received at a tem	perature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆					
5. Sample(s) in	proper container(s)?		Yes 🗹	No 🗌						
6. Sufficient sam	ple volume for indicate	ed test(s)?	Yes 🗹	No 🗆						
7. Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🗆						
8. Was preserval	tive added to bottles?		Yes	No 🗹	NA 🗆					
9. VOA vials hav	e zero headspace?		Yes	No 🗆	No VOA Vials 🗹					
10. Were any san	nple containers recelv	ed broken?	Yes 🗀	No 🗹	# of preserved bottles checked					
	ork match bottle labels ancies on chain of cus		Yes 🗹	No 🗆	for pH:	>12 unless noted)				
	correctly identified on 0	**	Yes 🗸	No 🗆	Adjusted?					
	analyses were reque		Yes 🗹	No 🗆						
	ng times able to be me		Yes 🗹	No 🗆	Checked by:					
(If no, notify cu	ustomer for authorizati	on.)				A STATE OF THE STA				
Special Handli	ing (if applicable	2								
15. Was client no	tified of all discrepand	ies with this order?	Yes	No 🗆	NA 🗹					
Person	Notified:	Date	MARKET CO. O CONTROL AND CO.	第1AMASidaMinenessasiones						
By Who	m:	Via:	eMail I	Phone Fax	☐ In Person					
Regardi										
Client In	nstructions:									
16. Additional remarks:										
17. Cooler Information Cooler No Temp C Condition Seal Intact Seal No Seal Date Signed By										
1	1.9 Good	Yes								
		The second secon								



