E- .

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

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-G	rade Tank, or		
Proposed Alternative Method Pe	rmit or Closure Pl	an Application	
Type of action: Below grade tank registration Permit of a pit or proposed altern Closure of a pit, below-grade tan Modification to an existing perm Closure plan only submitted for or proposed alternative method	k, or proposed alternativ it/or registration		low-grade tank,
Instructions: Please submit one application (Form C-144)	per individual pit, below-g	rade tank or alternativ	e request
Please be advised that approval of this request does not relieve the operator of liabili environment. Nor does approval relieve the operator of its responsibility to comply		•	, 0
		OII •	cons. DIV DIST. 3
Operator: BP America Production Company Address: 200 Energy Court, Farmington, NM 87401	OGRID #: 778	3	ONS. DIV DIST 6
Address: 200 Energy Court, Farmington, NM 87401			- 3
Facility or well name: GARTNER LS 007		JAI	V 1 0 71118
API Number: 3004509103	D Permit Number:		
U/L or Qtr/Qtr N Section 26 Township 30N	Range 08W	County: San Juan	
Center of Proposed Design: Latitude 36.77944	ngitude -107.64861		JAD83
Surface Owner: Federal State Private Tribal Trust or Indian Allo			- Phone -
2.			
Pit: Subsection F, G or J of 19.15.17.11 NMAC			
Temporary: Drilling Workover			
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid M	fanagement Lov	w Chloride Drilling Flu	id 🗌 yes 🔲 no
☐ Lined ☐ Unlined Liner type: Thickness mil ☐ LLDPE [] HDPE ☐ PVC ☐ Otho	er	
☐ String-Reinforced			
Liner Seams: Welded Factory Other	Volume:bbl	Dimensions: L	x W x D
TAN Wolume: 95 bbl Type of fluid: Produced Water Tank Construction material: Steel	KA		
Secondary containment with leak detection Usisible sidewalls, liner, 6	inch lift and automatic over	rflow shut-off	
☐ Visible sidewalls and liner ☐ Visible sidewalls only ■ Other Single	wall/ Double bottom; s	idewalls visible	
Liner type: Thickness mil			
4.			
Alternative Method:			
Submittal of an exception request is required. Exceptions must be submitted t	o the Santa Fe Environment	al Bureau office for con	nsideration of approval.
5.			
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, tem	porary pits, and below-grad	de tanks)	



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

institution or church)

Alternate. Please specify

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,

) ~							
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							
Nation State Stat							
9. Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of 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						
<u>Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.</u> 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. Viewel inspection (contification) of the proposed sites April photos Setallite image.	☐ 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								
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								
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No							
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No							
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	NMAC 15.17.9 NMAC							
11. Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC								
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	15.17.9 NMAC							

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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					
attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC						
 Nuisance or Hazardous Odors, including H₂S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization 						
☐ Monitoring and Inspection Plan ☐ Erosion Control 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	luid Management Pit					
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						
14. 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 ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC						
15.						
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. In 19.15.17.10 NMAC for guidance.						
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA					
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA					
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA					
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes No					
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No					
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	Yes No					
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No					
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Yes \sum No						
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance						

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No								
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division Yes No									
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 N Yes N									
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 19.15.17.13 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 Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	11 NMAC 15.17.11 NMAC								
Operator Application Certification:									
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and believe	ef.								
Name (Print): Title:									
Signature: Date:									
e-mail address:									
OCD Approval: Permit Application (including closure plan) Closure Plan (enly): OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 2 13 Title: OCD Permit Number:	19018								
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: 11/14/2017									
Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-lo If different from approved plan, please explain.	op systems only)								
21. <u>Closure Report Attachment Checklist</u> : <u>Instructions</u> : Each of the following items must be attached to the closure report. Please incomark in the box, that the documents are attached.	dicate by a check								

22.	
Operator Closure Certification:	
I hereby certify that the information and attachments submi	itted with this closure report is true, accurate and complete to the best of my knowledge and
belief. I also certify that the closure complies with all appl	icable closure requirements and conditions specified in the approved closure plan.
Erin Carifalas	Field Environmental Coordinator
Name (Print): Erin Garifalos	Title: Field Environmental Coordinator
erin garifialos	
Signature:	Date: January 8, 2018
e-mail address: erin.garifalos@bp.com	Telephone: (832) 609-7048

BP AMERICA PRODUCTION COMPANY

SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

GARTNER LS 007

API No. 3004509103

Unit Letter N Section 26 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)
 - d. Envirotech Inc Soil Remediation Facility, Permit NM-01-0011 (Solids and Sludge)
 - e. BP Operated E.E. Elliott SWD #1, API 30-045-27799 (Liquids)

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

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

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

The BGT was transported for recycling.

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

All equipment associated with the BGT has been removed.

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

Constituents	Testing Method	Release Verification	Sample
	95 bbl BGT	(mg/Kg)	results
Benzene	US EPA Method SW-846 8021B or 8260B	10	< 0.018
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.071
TPH	US EPA Method SW-846 418.1 or 8015 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 a 105 BBL shallow low profile above-grade tank set atop BGT location. The location will be reclaimed once the well is plugged and abandoned.

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

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

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

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

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

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

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

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

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

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

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

Certification section of C-144 has been completed.

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

Contact Erin Garifalos Address 200 Energy Court, Farmington, NM 87401 Telephone No. (832) 699-7048 Facility Name GARTNER LS 007 Facility Type: Natural Gas Well Surface Owner; Federal Mineral Owner; Federal API No. 3004509103 CATTON OF RELEASE Feet from the Cattor No. (832) 609-7048 Facility Type: Natural Gas Well SarJWest Line County Cattor No. (832) 609-7048 Facility Type: Natural Gas Well SarJWest Line County Cattor No. (832) 609-7048 Facility Type: Natural Gas Well SarJWest Line County Cattor No. (832) 609-7048 Facility Type: Natural Gas Well SarJWest Line County Cattor No. (832) 609-7048 Facility Type: Natural Gas Well SarJWest Line County Cattor No. (832) 609-7048 Facility Type: Natural Gas Well SarJWest Line County Cattor No. (832) 609-7048 Facility Type: Natural Gas Well SarJWest Line County Cattor No. (832) 609-7048 Facility Type: Natural Gas Well SarJWest Line County Cattor No. (832) 609-7048 Facility Type: Natural Gas Well SarJWest Line County Cattor No. (832) 609-7048 Facility Type: Natural Gas Well SarJWest Line County Cattor No. (832) 609-7048 Facility Type: Natural Gas Well SarJWest Line County Cattor No. (832) 609-7048 Facility Type: Natural Gas Well SarJWest Line County Cattor No. (832) 609-7048 Facility Type: Natural Gas Well SarJWest Line County Cattor No. (832) 609-7048 Facility Type: Natural Gas Well SarJWest Line County Cattor No. (832) 609-7048 Facility Type: Natural Gas Well SarJWest Line County Cattor No. (832) 609-7048 Facility Type: Natural Gas Well SarJWest Line County Cattor No. (832) 609-7048 Facility Type: Natural Gas Well SarJWest Line County Cattor No. (832) 609-7048 Facility Type: Natural Gas Well SarJWest Line County Cattor No. (832) 609-7048 Facility Type: Nat				Rele	ease Notific	cation	and Co	orrective A	ctioi	1			
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Address 200 Energy Court, Farmington, NM 87401 Telephone No. (832) 609-7048 Facility Type: Natural Gas Well	Name of Co	mpany BF	² America	Produc	tion Compan	У							•
Mineral Owner: Federal API No. 3004509103							Telephone l	No. (832) 609-	-7048				
Location of Release: County Range Feet from the North North 1,650 West San Juar	Facility Na	me GART	NER LS 0	07			Facility Typ	e: Natural Ga	as We	ell			
Location of Release: County Range Feet from the North North 1,650 West San Juar	Surface Ow	ner: Fed	eral		Mineral (Owner:	Federal			API No	.300450	9103	}
Latitude Section Annual Section Section Section Section Section Section Annual Section Section								LEACE					
Name 1,190 North 1,650 West San Juar	Unit Latter	Section	Toymohin	Dange					Fact/	West Line	County		
Latitude 36.77944 Longitude -107.64861 NAD83									2 2 2			an	Juan
NATURE OF RELEASE Type of Release:; none Source of Release: below grade tank - 95 bbl Was Immediate Notice Given? Yes	IN	20	3011		,				VVE	Si		Jan	ouaii
Type of Release: unknown Volume of Release: unknown Date and Hour of Discovery: N/A				Latitud	_{le} 36.77944	L	ongitude1	07.64861	NAD	83			
Type of Release: unknown Volume of Release: unknown Date and Hour of Discovery: N/A					NAT	THRE	OF REL	EASE					
Date and Hour of Occurrence: Date and Hour of Discovery: n/a	Type of Rele	ase:: none	9		1424.	CICE			own	Volume F	Recovered::	N/A	
Was Immediate Notice Given? Yes No Not Required	Source of Re	lease:	w grade ta	nk - 05	hhl		Date and H				Hour of Dis	covery:	
By Whom? Was a Watercourse Reached? Yes No Not Required				IIIK - 33	DDI			Whom?		n/a			
By Whom? Was a Watercourse Reached? Wes Was a Watercourse Reached? Wes Was a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* Sampling of the soil beneath the BGT was done during removal. Soil analysis resulted for Chlorides, TPH and BTEX below BGT closure standards. Field reports and laboratory results are attached Describe Area Affected and Cleanup Action Taken.* No further action necessary. Final laboratory analysis determined no remedial action is required. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Approved by Environmental Specialist: Printed Name: Erin Garifalos Title: Field Environmental Coordinator E-mail Address: erin.garifalos@bp.com Date: January 8, 2018 Phone: (832) 609-7048	was immedi	ate Notice (Yes 🗸	No □ Not R	equired	11 1 E S, 10	whom?					
Was a Watercourse Reached?	By Whom?					-	Date and H	Iour					
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Signature: Printed Name: Erin Garifalos Title: Field Environmental Coordinator E-mail Address: erin.garifalos@bp.com Date: January 8, 2018 Approved by Environmental Specialist: Expiration Date: Expiration Date: Attached Attached Attached Approval:	regulations a public health should their of or the environment	Il operators or the envi operations h nment. In a	are required to ronment. The nave failed to addition, NMC	o report are acceptance acceptanc	nd/or file certain in the of a C-141 report investigate and in	release no ort by the remediate	otifications as NMOCD m e contaminati	nd perform correct arked as "Final R on that pose a thr	ctive act eport" of eat to g	ions for rele loes not reli round water	eases which eve the oper , surface wa	may en rator of iter, hur	danger liability nan health
Printed Name: Erin Garifalos Title: Field Environmental Coordinator E-mail Address: erin.garifalos@bp.com Date: January 8, 2018 Phone: (832) 609-7048 Approval Date: Conditions of Approval: Attached Attached								OIL CON	SERV	ATION	DIVISIO	N	
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E-mail Address: erin.garifalos@bp.com Date: January 8, 2018 Phone: (832) 609-7048 Conditions of Approval: Attached Attached	Printed Name	Erin G	arifalos				-pprovou by	Zarnomientai o	Poolario				
Date: January 8, 2018 Phone: (832) 609-7048	Title: Field	d Envir	onmenta	al Coo	rdinator		Approval Dat	e:		Expiration 1	Date:		
	E-mail Addre	ess: erin.	garifalos	@bp.	com		Conditions of Approval: Attached □						
Attach Additional Sheets If Necessary					(832) 609-70	048							

bp



BP America Production Company 200 Energy Court Farmington, NM 87401

November 6, 2017

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

VIA EMAIL

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

Well Name: GARTNER LS 007

API#: 3004509103

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 November 10, 2017. If there aren't any unforeseen problems, the work should be completed within 10 working days.

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

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

Sincerely,

Erin Garifalos

BP America Production Company

From:

Buckley, Farrah (CH2M HILL)

To:

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

Cc:

jeffcblagg@aol.com; blagg_njv@yahoo.com; Garifalos, Erin

Subject: Date: BP Pit Close Notification - GARTNER LS 007 Monday, November 06, 2017 3:52:01 PM

BP America Production Company

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

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

November 6, 2017

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

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

GARTNER LS 007 API 30-045-09103 (N) Section 26 – 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 close a 95bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around November 10, 2017.

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

CHENTE BP		NGINEERING, IN		API#: 300450	9103
CLIENT: DF	P.O. BOX 87, B	LOOMFIELD, NM	187413	TANKID	_
	(50	5) 632-1199		(if applicble):	A
FIELD REPORT:	(circle one): BGT CONFIRMATION	RELEASE INVESTIGATION / OT	THER:	PAGE #: 1	of
SITE INFORMATION	I: SITE NAME: GARTN	FR IS #7		DATE STARTED: 11	/10/17
QUAD/UNIT: N SEC: 26 TWP:	30N RNG: 8W PM:		ST: NM		710/17
1/4 -1/4/FOOTAGE: 1,190'N / 1,6		YPE: FEDERAL / STATE /		DATE FINISHED:	
		STRIKE ONTRACTOR: BP - J. GO		ENVIRONMENTAL SPECIALIST(S):	NJV
REFERENCE POINT	: WELL HEAD (W.H.) GPS	COORD.: 36.77957	7 X 107.64867	GL ELEV.:	5,909'
1) 95 BGT (SW/DB)	GPS COORD.: 36				27.5E
2)				RING FROM W.H.:	
<u> </u>				RING FROM W.H.:	
3)				1000 000 000000000000000000000000000000	
	GPS COORD.:		DISTANCE/BEA	RING FROM W.H.:	OVM
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # C				READING (ppm)
	(95) SAMPLE DATE: 11/10			15B/8021B/300.0 (CI)	0.0
	95) SAMPLE DATE: 11/10			15B/8021B/300.0 (CI)	0.0
SAMPLE ID: SAMPLE ID:	SAMPLE DATE:SAMPLE DATE:		LAB ANALYSIS:		
5) SAMPLE ID:	SAMPLE DATE:		LAB ANALYSIS:		
SOIL DESCRIPTION					
	RATE BROWN Y COHESIVE / COHESIVE / HIGHLY COHESIVE	PLASTICITY (CLAYS): NON PLASTIC DENSITY (COHESIVE CLAYS & S	/ SLIGHTLY PLASTIC / CO	STIFF / VERY STIFF / HARD	GHLY PLASTIC
MOISTURE: DRY/SLIGHTLY MOIST (W	ET SATURATED / SUPER SATURATED	110 00011101111111111111111111111111111			
SAMPLE TYPE: GRAB / COMPOSITE - #		ANY AREAS DISPLAYING WETNESS	S: YES / NO EXPLAN	NATION - DIRECTLY BENE	EATH BGT
DISCOLORATION/STAINING OBSERVED: YES		'		(grab sample o	collected)
SITE OBSERVATION					
APPARENT EVIDENCE OF A RELEASE OBSERVE					TI CONTION
EQUIPMENT SET OVER RECLAIMED AREA: OTHER: NMOCD OR BLM REPS. NOT PR	YES NO EXPLANATION - 105 BBI	L SHALLOW LOW PROFILE A TION SAMPLING.	BOVE-GRADE IAI	NK TO BE SET ATOP BG	LOCATION.
Official distribution of the control	COLITY TO THITTED COLITY IS ALL.	THOR OTHER BUTTON			
EXCAVATION DIMENSION ESTIMATION:	NA ft. XNA	ft. X <u>NA</u> ft.	EXCAVATION EST	TIMATION (Cubic Yards) :	NA
DEPTH TO GROUNDWATER: <50' N	EAREST WATER SOURCE: >1,000	NEAREST SURFACE WATER:	<1,000' NMOO	D TPH CLOSURE STD:	100 ppm
SITE SKETCH	BGT Located: off on site	e PLOT PLAN circle	e: attached OVM	CALIB. READ. = 100.0	ppm RF=1.00
	•		A		ppm RF =1.00
	W.H.			: _11:50 (am/pm DATE: _	11/10/17
			IN	<u> </u>	
	SE	PARATOR		MISCELL. NO)IES
BERM			_	/O:	
7/				EF#: P-871	-
PROD. TANK	PBGTL T.B. ~ 5'	^		ID: VHIXONEVB	32
	B.G.	COMPRESSOR	<u> P.</u>	J#:	
	/ //				14/10
FENCE -			O		09/17
T bell O'be	// XXX	BERM	ID	ppm = parts per million	1
	FENCE - X		A		
		X	- S.P.D.	BGT Sidewalls Visible: Y	/ N
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION		ELOW; T.H. = TEST HOLE; ~= APPROX.; W	V.H. = WELL HEAD;	BGT Sidewalls Visible: Y	
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BEL	OW-GRADE TANK LOCATION; SPD = SAMPLE P E WALL; DW - DOUBLE WALL; SB - SINGLE BOT		NALL; NA - NOT N	lagnetic declination: 1	0°E
NOTES: GOOGLE EARTH IMAGI		ONSITE: 11/10/1	7		
NOTES. COCOLL LAKTITIMA	INI DAIL. 10/0/2010.	ONSITE: TI/TU/T	1		

Analytical Report

Lab Order 1711645

Received Date: 11/11/2017 10:45:00 AM

Date Reported: 11/14/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: 5PC-TB@5'(95)

Gartner LS 7 Collection Date: 11/10/2017 11:40:00 AM Project: Matrix: MEOH (SOIL)

Analyses Result **PQL Qual Units DF** Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 30 mg/Kg 11/13/2017 1:05:37 PM 34962 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: MAB Diesel Range Organics (DRO) 9.7 mg/Kg 11/13/2017 12:18:14 PM 34954 Motor Oil Range Organics (MRO) ND 49 mg/Kg 11/13/2017 12:18:14 PM 34954 Surr DNOP 98.2 70-130 %Rec 11/13/2017 12:18:14 PM 34954 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 3.6 11/13/2017 12:21:46 PM G47077 mg/Kg Surr: BFB 11/13/2017 12:21:46 PM G47077 95.6 15-316 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: NSB 11/13/2017 12:21:46 PM B47077 Benzene ND 0.018 mg/Kg Toluene ND 0.036 mg/Kg 11/13/2017 12:21:46 PM B47077 Ethylbenzene ND 0.036 mg/Kg 11/13/2017 12:21:46 PM B47077 Xylenes, Total ND 0.071 mg/Kg 11/13/2017 12:21:46 PM B47077 Surr: 4-Bromofluorobenzene 99.1 80-120 %Rec 11/13/2017 12:21:46 PM B47077

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

Qualifiers:

Lab ID:

1711645-001

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

Analytical Report

Lab Order 1711645

Date Reported: 11/14/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: Grab @5'(95)

Project: Gartner LS 7

Collection Date: 11/10/2017 11:35:00 AM

Lab ID: 1711645-002

Matrix: MEOH (SOIL) Received Date: 11/11/2017 10:45:00 AM

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	ND	30	mg/Kg	20	11/13/2017 1:18:02 PM	1 34962
EPA METHOD 8015M/D: DIESEL RANGI	ORGANICS				Analys	t: MAB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	11/13/2017 12:40:10 P	M 34954
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/13/2017 12:40:10 P	M 34954
Surr: DNOP	98.9	70-130	%Rec	1	11/13/2017 12:40:10 P	M 34954
EPA METHOD 8015D: GASOLINE RANG	Ε				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.2	mg/Kg	1	11/13/2017 12:45:08 P	M G47077
Surr: BFB	94.5	15-316	%Rec	1	11/13/2017 12:45:08 P	M G47077
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.021	mg/Kg	1	11/13/2017 12:45:08 P	M B47077
Toluene	ND	0.042	mg/Kg	1	11/13/2017 12:45:08 P	M B47077
Ethylbenzene	ND	0.042	mg/Kg	1	11/13/2017 12:45:08 P	M B47077
Xylenes, Total	ND	0.083	mg/Kg	1	11/13/2017 12:45:08 P	M B47077
Surr: 4-Bromofluorobenzene	97.6	80-120	%Rec	1	11/13/2017 12:45:08 P	M B47077

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
- N Sample container temperature is out of limit as specified

Chain-of-Custody Record				Tum-Around	Time:	SAME	١,		1	-	IAI	ı	ER	uw.	TE	20	NI B	A E	NT	FÁI	Ĺ	*		
Client:	BLAG	G ENGR.	/ BP AMERICA	☐ Standard	☑ Rush _	DAY)	-															7		
				Project Name:					ANALYSIS LABORATORY www.hallenvironmental.com										8					
Mailing A	ddress:	P.O. BO	X 87	- G	ARTNER LS	S # 7	4901 Hawkins NE - Albuquerque, NM 87109																	
		BLOOM	FIELD, NM 87413	Project #:			Tel. 505-345-3975 Fax 505-345-4107																	
Phone #:		(505) 63					Analysis Request										1 22		. E					
email or F	ax#:			Project Mana	ger:		(1)																	
QA/QC Pa	_		Level 4 (Full Validation)		NELSON V	ELEZ	(80218)	TPH (Gas only)	/ MRO)	-	/ MRO)			(2)		PO4,504	/ 8082 PCB's			water - 300.1)			9	
Accreditat	tion:			Sampler:	NELSON V	ELEZ ny	8) SE	(Ga	/ DRO	1)	1	SIS		102,	3082						sample			
□ NELAF		□ Other		Color and the second se	⊠CYes -	Application of the second second section in the State of the Second Second Section Sec	1	표	1/0	418.	504	8270SIMS)	S	0,5	ss / 8		(AC	300.0 /				N		
□ EDD (Type)			Sample Temp	erature:	1. 1-1	4	MTBE +	(GR	bot	bot	ō	etal	S,	icide	(A)	i-V			ole	osit	٤		
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALNO.	BTEX +-MF	BTEX + MT	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil		Grab sample	5 pt. composite	Air Bubbles (Y or N)		
11/10/17	1140	SOIL	5PC - TB @ 5 '(95)	4 oz 1	Cool	-001	٧		٧									٧			٧			
1/10/17	1135	2017	GRAS e 5' (95)	4021	COGL	-002	\checkmark		V									Y		V		4		
													-											
														7.										
Date: "// 0//7	Time: 1402	Relinquish	ad by:	Received by:	Jack)	Date Time VID 17 1402	Remarks: BILL DIRECTLY TO BP USING THE CONTACT WITH CORRESPONDING VII 8. REFERENCE # WHEN APPLICABLE; CONTACT: ERIN GARIFALOS / VANCE HIXON							VID										
Date:	Time:	Relinquishe	ed by:	Received by:		Date Time 7 11/1/17 10 45			/ID:	VHI)		VB2												
		samples sub	mitted to Hall Environmental may be su	bcontracted to other	accredited laboratorie		of this	possib	ility. A	Any sui	b-contr	racted	data	will b	e clea	arly no	tated o	on the	analyt	ical re	port.			

- .

Hall Environmental Analysis Laboratory, Inc.

WO#:

1711645

14-Nov-17

Client:

Blagg Engineering

Project:

Gartner LS 7

Sample ID MB-34962

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 34962

RunNo: 47079

Prep Date:

11/13/2017

SegNo: 1503057

Units: mg/Kg

Analysis Date: 11/13/2017

Qual

Analyte Chloride

Result ND

PQL

1.5

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDLimit**

SampType: Ics

TestCode: EPA Method 300.0: Anions

Sample ID LCS-34962

LCSS

Batch ID: 34962

RunNo: 47079

Units: mg/Kg

Analyte

11/13/2017

Analysis Date: 11/13/2017

SeqNo: 1503058

%RPD

94.8

HighLimit 110

Chloride

14

RPDLimit

Qual

Client ID:

Prep Date:

1.5

PQL

15.00

SPK value SPK Ref Val %REC

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit Practical Quanitative Limit **PQL**

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 3 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

46

4.6

10

50.00

5.000

WO#:

1711645 14-Nov-17

Client:

Blagg Engineering

Project:

Diesel Range Organics (DRO)

Surr: DNOP

Gartner LS 7

Sample ID MB-34954	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 34954	RunNo: 47072
Prep Date: 11/13/2017	Analysis Date: 11/13/2017	SeqNo: 1501804 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	9.8 10.00	98.3 70 130
Sample ID LCS-34954	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 34954	RunNo: 47072
Prep Date: 11/13/2017	Analysis Date: 11/13/2017	SeqNo: 1501812 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

92.0

70

130

Qualifiers:

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

P

Sample container temperature is out of limit as specified

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Hall Environmental Analysis Laboratory, Inc.

WO#:

RPDLimit

1711645

14-Nov-17

Qual

Client:

Blagg Engineering

Project:

Gartner LS 7

Sample ID	RB	SampTyp	e: MI	BLK	Tes	tCode:	EPA Method	8015D: Gasol	ine Range	•
Client ID:	PBS	Batch I	D: G 4	47077	F	RunNo:	47077			
Prep Date:		Analysis Dat	e: 1	1/13/2017		SeqNo:	1502175	Units: mg/Kg	9	
Analyte		Result	PQL	SPK value	SPK Ref Val	%RE	C LowLimit	HighLimit	%RPD	F

Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 940 1000 94.5 15 316

Sample ID 2.5UG GRO LCS	SampT	ype: LC	S	Test	tCode: E	PA Method	8015D: Gaso	line Rang	е	
Client ID: LCSS	Batch	ID: G4	7077	R	RunNo: 4	7077				
Prep Date:	Analysis D	ate: 11	/13/2017	S	SeqNo: 1	502176	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.7	75.9	131			
Surr: BFB	990		1000		99.3	15	316			

Qualifiers:

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

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1711645

14-Nov-17

Client:

Blagg Engineering

Project:

Gartner LS 7

Sample ID RB	SampT	уре: МЕ	BLK	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	n ID: B4	7077	F	RunNo: 4	7077				
Prep Date:	Analysis D	Date: 11	1/13/2017	8	SeqNo: 1	502207	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.6	80	120			

Sample ID 100NG BTEX LC	Samn	Type: LC	9	Tes	tCode: F	PA Method	8021B: Vola	tilos		
Gample ID TOOKS BIEX LO	Samp	Type. Lo	3	103	loode. L	Aimethod	OUZ ID. VOIA	tiles		
Client ID: LCSS	Batc	h ID: B4	7077	F	RunNo: 4	7077				
Prep Date:	Analysis [Date: 11	1/13/2017	5	SeqNo: 1	502208	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.8	77.3	128			
Toluene	0.95	0.050	1.000	0	94.6	79.2	125			
Ethylbenzene	0.94	0.050	1.000	0	94.0	80.7	127			
Xylenes, Total	2.9	0.10	3.000	0	95.2	81.6	129			
Surr: 4-Bromofluorobenzene	0.98		1.000		97.5	80	120			

Qualifiers:

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

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1 N

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 Number: 1711645	1711645		RcptNo: 1	
Received By:	Anne Thorne	11/11/2017 10:45:00 AM	2	ann Ihan		
Completed By:	Erin Melendrez	11/13/2017 8:41:51 AM		L'AR		
Reviewed By:	DPS	11/13/17				
Chain of Custody	<u>Υροή</u>					
1. Custody seal	 Custody seals intact on sample bottles? 		Yes	8 □	Not Present	
2. Is Chain of C	Is Chain of Custody complete?		Yes	No	Not Present	
3. How was the	How was the sample delivered?		Courier			
Log In						
4. Was an atter	4. Was an attempt made to cool the samples?	~	Yes ▼	No	NA	
5. Were all sam	Were all samples received at a temperature of >0° C to 6.0°C		Yes	№	NA 🗆	
6. Sample(s) in	Sample(s) in proper container(s)?		Yes 	№		
7. Sufficient sar 8. Are samples 9. Was preservi	7. Sufficient sample volume for indicated test(s)?8. Are samples (except VOA and ONG) properly preserved?9. Was preservative added to bottles?	s)? Ily preserved?	es es es	\$ \$ \$ 6	₹	
10.VOA vials ha	10.VOA vials have zero headspace? 11. Were any sample containers received broken?	en?	Yes	No No □	No VOA Vials	
12.Does paperw (Note discrep	12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes <	No	for pH: (<2 or >12 unless noted)	(ted)
13. Are matrices 14. Is it clear who	 Are matrices correctly identified on Chain of Custody? Is it clear what analyses were requested? 	Custody?	Yes es	₩ ₩	Adjusted?	1
15. Were all hold (If no, notify o	15. Were all holding times able to be met? (If no, notify customer for authorization.)			\[\]	Checked by:	
Special Handl	Special Handling (if applicable)					
To, was client no	O, was client notified of all discrepancies with this order?	INIS ORDER?	Yes [No [3	
Person No By Whom:	Person Notified: By Whom:	Date Via:	eMail Pi	Phone Fax	In Person	
Regarding	ing:					
Client	Client Instructions:					
17. Additional remarks:	marks:			e		
18. Cooler Information Cooler No Tem	p °C Condition	ealintact Seal No S	eal Date	Signed By		
-	4.7 Good Yes		7 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			



