District I 1 1625 N. French Dr., Hobbs, NM 88240 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 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

OIL CONS. DIV DIST. 3



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.

Form C-144

	Pit, Below-Grade Tank, or
Propo	sed Alternative Method Permit or Closure Plan Application
Type of action:	 □ Below grade tank registration □ Permit of a pit or proposed alternative method □ Closure of a pit, below-grade tank, or proposed alternative method

Modification to an existing permit/or registration

Modification to an existing permit/or registration Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank,
or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator: BP America Production Company OGRID #: 778
Address: 200 Energy Court, Farmington, NM 87401
Facility or well name: SCHWERDTFEGER A LS 001
API Number: 3004506958 OCD Permit Number:
U/L or Qtr/Qtr M Section 36 Township 28N Range 09W County: San Juan
Center of Proposed Design: Latitude 36.61384 Longitude -107.74561 NAD83
Surface Owner: Federal State Tribal Trust or Indian Allotment
Pit: Subsection F, G or J of 19.15.17.11 NMAC
Temporary: Drilling Workover
□ Permanent □ Emergency □ Cavitation □ P&A □ Multi-Well Fluid Management Low Chloride Drilling Fluid □ yes □ no
Lined Unlined Liner type: Thickness mil LLDPE PVC Other
String-Reinforced
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
Emer Seams. Wedget Tactory Other Volume. Other Oth
3. TANK A
Volume: 95 bbl Type of fluid: Produced Water
Tank Construction material: Steel
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other Single wall/ Double bottom; sidewalls not visible
Liner type: Thickness mil
Emertype. Thickness
Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.
5.
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital,
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)



7									
6.° Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)									
Screen Netting Other									
☐ Monthly inspections (If netting or screening is not physically feasible)									
7.									
Signs: Subsection C of 19.15.17.11 NMAC									
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers									
Signed in compliance with 19.15.16.8 NMAC									
Variances and Exceptions: Variance 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	☐ Yes ☐ No								
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No								
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ☐ No								
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	☐ Yes ☐ No								
Below Grade Tanks									
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No								
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No								
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)									
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No								
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ☐ No								
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image									
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No								

Within 10@feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No										
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes No										
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No										
hin 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock ering 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											
ithin 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site											
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										
nin 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											
Vithin 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of nitial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site											
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site											
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 Previously Approved Design (attach copy of design) API Number: or Permit Number:											
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										

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 H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC									
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F	luid Management Pit								
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									
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. F 19.15.17.10 NMAC for guidance.									
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA								
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA								
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No								
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									
Within incorporated municipal houndaries or within a defined municipal fresh water well field covered under a municipal ordinance	☐ Yes ☐ No								

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes No									
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No									
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 										
Within a 100-year floodplain FEMA map										
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. 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 Site Reclamation 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 beli-	ef.									
Name (Print): Title:										
Signature: Date:										
e-mail address: Telephone:										
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 010	219018									
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: 12/12/2017										
Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop) If different from approved plan, please explain.	op systems only)									
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please incommark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure for private land only) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure)	licate, 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	licable closure requirements and conditions specified in the approved closure plan.
Y Chin Carifolos	Title: Field Environmental Coordinator
Name (Print): Erin Garifalos	Title: Tield Environmental Coordinator
vun garifalos	
Signature:	Date: February 7, 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

SCHWERDTFEGER A LS

Unit Letter M Section 36 T 28N R 09W

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	< 0.012
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.046
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	137
Chlorides	US EPA Method 300.0 or 4500B	620	<30

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

Soil under the BGT was sampled for chloride, TPH and BTEX with all concentrations below the stated limits, except TPH. The release will be addressed following the spill and release guidelines. The field report and laboratory reports are attached.

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

C-141 is attached.

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

Sampling results indicate a release has occurred and will be addressed following the spill and release guidelines. Attached is a laboratory report and C-141.

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

Sampling results indicate a release has occurred and will be addressed following the spill and release guidelines. Attached is a laboratory report and field report. The location will be reclaimed when the well is plugged and abandoned.

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

The area has been backfilled and a 105 BBL shallow low profile above-grade tank set atop BGT location. The 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 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Revised April 3, 2017

Form C-141

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

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

			Kele	ease Notific	atior	i and Co	orrective A	ction							
						OPERA	ΓOR		■ Initia	al Report		Final Report			
Name of Co	mpany BF	² America	Produc	tion Company	/	Contact Erin Garifalos									
Address 200	0 Energy	Court, Fa	ırmingto	n, NM 87401		Telephone No. (832) 609-7048									
Facility Nan	ne SCHV	/ERDTFE	GER A	LS 001		Facility Typ	e: Natural Ga	as We							
Surface Ow	ner: Fede	eral		Mineral O	wner:	Federal			API No	.300450	6958				
						OF RE	FASE								
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/W	Vest Line	County					
M	36	28N	09W		Sou		990	We			an	Juan			
			Latitud	36.61384	Lo	ongitude1	07.74561	NAD8	33						
				NAT	URE	OF REL	EASE								
Type of Relea	ase:: none)					Release:: unkno			Recovered::					
Source of Rel	lease: belo	w grade ta	nk - 95	bbl		Date and H	lour of Occurrenc		Date and I	Hour of Disc	covery:				
Was Immedia						If YES, To	Whom?		11/4						
			Yes 🗸	No Not Re	quired										
By Whom?						Date and H			7						
Was a Watero	course Read		Yes 🗸	No		If YES, Vo	lume Impacting t	he Wate	rcourse.						
If a Watercou	rse was Im	pacted, Descr	ibe Fully.*	*											
Describe Cau	se of Probl	em and Reme	dial Action	for Chl	orides, addres	BTEX, and sed followin	ath the BGT was TPH below BGT g the spill and re	closure	e standard	ds except T	PH. Tr	ne release			
Describe Area	a Affected	and Cleanup A	Action Tak	en.*	200 11	ill bo ode	record follo	wina	the enill	and rale					
							lressed follo					action io			
				required.		iai iabora	tory analysi	s dete	erriinea	no reme	eulai	action is			
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.										danger liability nan health					
							OIL CONS	SERV	ATION	DIVISIO	N				
l	run g	wifale	4												
					Approved by	Environmental Sp	pecialist	1							
Printed Name	Erin G	arifalos							a	ي کي	5				
Title: Field	Enviro	onmenta	d Coo	rdinator		Approval Dat	e:3)32130	18 E	Expiration I	Date:					
E-mail Addre	ss: erin.	garifalos	@bp.	com		Conditions of Approval:									
Date: Febru				(832) 609-70	48		-			- Triadiled					
Attach Addit	tional Shee	ets If Necess	ary			NVF	18053	334	105						

bp



BP America Production Company 200 Energy Court Farmington, NM 87401

December 4, 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: SCHWERDTFEGER A LS 001 API #: 3004506958

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 December 7, 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: Subject: jeffcblagg@aol.com; blagg_njv@yahoo.com; Garifalos, Erin BP Pit Close Notification - SCHWERDTFEGER A LS 001

Date:

Monday, December 04, 2017 4:01:33 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>

December 4, 2017

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

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

SCHWERDTFEGER A LS 001 API 30-045-06958 (M) Section 36 – T28N – R09W 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 December 7, 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.

CLIENT: , BP	BLAG P.O. BOX 8	G ENGIN 7, BLOOM (505) 63	WFIELD,		13	API #: 300 TANK ID (if applicble):)45069 A	958
FIELD REPORT:	(circle one): BGT CONFIRM	ATION / RELEASE	E INVESTIGATION	/ OTHER:		PAGE #:	1 of	_1_
SITE INFORMATION		DATE STARTED:	12/0	7/17				
QUAD/UNIT: M SEC: 36 TWP:	28N RNG: 9W	PM: NM	CNTY: S	J ST:	NM	DATE FINISHED:		
1/4 - 1/4/FOOTAGE: 990'S / 990'\ LEASE #: SF079319	N SW/SW L PROD. FORMATION: PC/I	EASE TYPE: FI	STDIK	_		ENVIRONMENTAL SPECIALIST(S):	NJ	IV
REFERENCE POINT						CL EL	EV.: 5,	010'
OF DCT (CM/DD)	GPS COORD.:					RING FROM W.H.:		
,		30.01304	X 107.7430					
2)								
3)						RING FROM W.H.:		
	GPS COORD.:				DISTANCE/BEA	RING FROM W.H.:		OVM
SAMPLING DATA:	CHAIN OF CUSTODY RECOR	RD(S) # OR LAB USE	ED: H /	ALL	_			READING (ppm)
1) SAMPLE ID: 5PC - TB @ 5'	(95) SAMPLE DATE:	12/07/17 sa	MPLE TIME: 125	5 LAB ANALYS	ıs:801	15B/8021B/300.0	(CI)	711
			MPLE TIME:					
na sananani an		SA SA		LAB ANALYS				
SAMPLE ID: SAMPLE ID:	SAMPLE DATE:			LAB ANALYS				
SOIL DESCRIPTION					7			
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 N SITE OBSERVATION APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA: OTHER: NMOCD OR BLM REPS. NOT PR	OSE FIRM / DENSE VERY DET / SATURATED / SUPER SATUR OF PTS. 5 O EXPLANATION - LIGHT ME LOST INTEGRITY OF EQU DAND/OR OCCURRED: YES NO YES NO EXPLANATION - 1	DENSE HC ODOR AT 5 - 8 ANY AREA DIUM GRAY TO L JIPMENT: YES NO O EXPLANATION: 105 BBL SHALLO	DETECTED: YES 5 FT. BELOW O S DISPLAYING WE IGHT GRAY BE EXPLANATION - PHYSICALLY; D W LOW PROF	NO EXPLANA GRADE TIMESS: YES TWEEN 5 - 8.5 DISCOLORATE FILE ABOVE-	NO EXPLANT FT. BELOW	V GRADE, OLIVE G PARENT HYDROCA NK TO BE SET ATO	RAY BELO ARBON OF	OW 8.5 FT.
EXCAVATION DIMENSION ESTIMATION:		NA ft. X	NA ft.			TIMATION (Cubic Ya		NA
	EAREST WATER SOURCE:>	>1,000' NEARE	ST SURFACE WAT	TER: <1,00	O' NMOC	D TPH CLOSURE STI	D: 1,00	0 ppm
SITE SKETCH	/ то w.н.	on site F	PLOT PLAN	circle: atta	_ ↑ OVM	CALIB. GAS = 1		2/07/18
	FENCE	TANK			W	<i>I</i> O:		
SEPARATOR					R	EF#: P-854		
<u> </u>	*		STEEL		V	ID: VHIXON	NEVB2	
	(xxx)	CON	TAINMENT RING		P.	J#:		
	X			ENTERROPICE	Pe	ermit date(s):	06/14	/10
COMPRESSOR →				PIPELINE		CD Appr. date(s):	10/19	/17
	PBGTL BERM				Tan ID	ppm = parts p	er million	
	T.B. ~ 5' B.G.				Α	BGT Sidewalls Vis	ible: Y / N)
	5.0.			X - S.	P.D.	BGT Sidewalls Vis	ible: Y / N	
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION				ROX.; W.H. = WELL	HEAD;	BGT Sidewalls Vis		
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BEL APPLICABLE OR NOT AVAILABLE; SW - SINGLI	OW-GRADE TANK LOCATION; SPD = 5	SAMPLE POINT DESIGN	NATION; R.W. = RETAI			lagnetic declinat	ion: 10°	E
NOTES: GOOGLE EARTH IMAG			ONSITE: 12/	07/17				

Analytical Report

Lab Order 1712471

Date Reported: 12/12/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

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

Project: SCHWERDTFEGER A LS 1

Collection Date: 12/7/2017 12:55:00 PM

Lab ID: 1712471-001

Matrix: SOIL

Received Date: 12/8/2017 7:55:00 AM

Analyses	Result PQL Qua		al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CJS
Chloride	ND	30	mg/Kg	20	12/8/2017 12:27:56 PM	35404
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	MAB
Diesel Range Organics (DRO)	110	9.4	mg/Kg	1	12/8/2017 10:35:21 AM	35399
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/8/2017 10:35:21 AM	35399
Surr: DNOP	90.5	70-130	%Rec	1	12/8/2017 10:35:21 AM	35399
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	NSB
Gasoline Range Organics (GRO)	27	23	mg/Kg	5	12/8/2017 10:37:59 AM	35387
Surr: BFB	139	15-316	%Rec	5	12/8/2017 10:37:59 AM	35387
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.12	mg/Kg	5	12/8/2017 10:37:59 AM	35387
Toluene	ND	0.23	mg/Kg	5	12/8/2017 10:37:59 AM	35387
Ethylbenzene	ND	0.23	mg/Kg	5	12/8/2017 10:37:59 AM	35387
Xylenes, Total	ND	0.46	mg/Kg	5	12/8/2017 10:37:59 AM	35387
Surr: 4-Bromofluorobenzene	94.8	80-120	%Rec	5	12/8/2017 10:37:59 AM	35387

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Chain-of-Custody Record			Turn-Around 7	ime:	SAME				L	IAI		E	NI L	TE	200	AIA	AE	'B.F"	ra!			
Client:	Client: BLAGG ENGR. / BP AMERICA			Standard (Rush DAY)				HALL ENVIRONMENTAL ANALYSIS LABORATORY														
					Project Name:				www.hallenvironmental.com										MP E T		4	
Mailing A	ddress:	P.O. BO	X 87	SCHWI	ERDTFEGER	A LS #1	4901 Hawkins NE - Albuquerque, NM 87109															
		BLOOM	FIELD, NM 87413	Project #:			Tel. 505-345-3975 Fax 505-345-4107															
Phone #:		(505) 63	2-1199	1				Analysis Request														
email or F	ax#:			Project Manag	jer:			(2) (F)												\Box		
QA/QC Par	-		Level 4 (Full Validation)		NELSON VI	ELEZ	(80218)	only)	MRO)			S)		04,50,	PCB's			er - 300.1)			61	
Accreditat	tion:			Sampler:	NELSON VI	ELEZ	8) 84	(Gas	DRO /	7	1)	8270SIMS)		02,6	1082			/ water			du	
□ NELAP)	□ Other		Order Cart	· 图点情		1	TPH	-	118.	504.	3270		03,N	8/8		(A)	0.00			6 53	2 Z
□ EDD (1	ype)			Servicia Tempe		民族政治政策	1	+	(GRO	pol	po	or 8	tals	N,I	cide	(A)	<u>۱-۲</u>	ii - 3(e	osit	٥
Date	Timė	Matrix	Sample Request ID	A 12/08/17 Container Type and # Mearly A	Type	HAINO L 1812211	BTEX +-MTE	BTEX + MTBE	TPH 8015B	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0		Grab sample	5 pt. composite sample	Air Bubbles (Y or N)
12/7/17	1255	SOIL	5PC - TB @ 5' (95)	4 oz 1	Cool	-01	٧		٧	,								٧			٧	
											*											
			,																			
							٠.															
						. *				•												
			AREA CONTROL C												_							
									-													
Date: 12/7/17	Time: 1936	Relinquishe	Mela Vy	Received by:	-Ward,	Date Time		ONT		-	FERE	NCE#	WHE	N APP	LICA	BLE:		MITH	CORR	ESPOI	NDING	SVID
Date: 12/7/7	Time: 2003	Relinquish	Lukt	Received by:	m -	Date Time 12/08/17	Re	ferer	VID:	VHI	XON P -	854	2									
,	If necessary	, samples sul	omitted to Hall Environmental may be su	ibcontracted to other	accredited laboratoric	es. This serves as notice of	of this	possit	olity.	Any su	ib-cor	ntracte	ed data	a will b	e clea	ariy no	stated	on the	e analy	tical re	eport.	

Hall Environmental Analysis Laboratory, Inc.

WO#:

1712471

12-Dec-17

Client:

Blagg Engineering

Project:

SCHWERDTFEGER A LS 1

Sample ID MB-35404

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

Prep Date: 12/8/2017

Sample ID LCS-35404

PBS

Batch ID: 35404

RunNo: 47637

Analysis Date: 12/8/2017

SeqNo: 1523421

Units: mg/Kg

HighLimit

Analyte Result PQL

SPK value SPK Ref Val %REC LowLimit

%RPD **RPDLimit** Qual

Chloride

ND

SampType: Ics

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Batch ID: 35404

RunNo: 47637

Prep Date: 12/8/2017

Analysis Date: 12/8/2017

SeqNo: 1523422

Units: mg/Kg

Analyte

PQL SPK value SPK Ref Val %REC

90

HighLimit %RPD

110

Chloride

14

0

93.1

Qual

RPDLimit

Page 2 of 5

1.5

15.00

H

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

Holding times for preparation or analysis exceeded

- 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
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1712471

12-Dec-17

Client:

Blagg Engineering

Project:

SCHWERDTFEGER A LS 1

Sample ID MB-35399	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch	1D: 35	399	R	RunNo: 47624					
Prep Date: 12/8/2017	Analysis D	rsis Date: 12/8/2017 SeqNo: 1521657 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.8		10.00		87.5	70	130			

Sample ID LCS-35399	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organi						e Organics			
Client ID: LCSS	Batch	ID: 35	399	R	lunNo: 4	7624				
Prep Date: 12/8/2017	Analysis Da	ate: 12	2/8/2017	7 SeqNo: 1521778 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	91.9	73.2	114			
Surr: DNOP	4.1		5.000		81.2	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 3 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1712471

12-Dec-17

Client:

Blagg Engineering

Project:

SCHWERDTFEGER A LS 1

Sample ID MB-35387 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 35387 RunNo: 47630 Prep Date: 12/7/2017 Analysis Date: 12/8/2017 SeqNo: 1522746 Units: mg/Kg PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Result LowLimit Analyte Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 1000 1000 102 15 316

Sample ID LCS-35387	SampT	ype: LC	S	TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch	ID: 35	387	RunNo: 47630							
Prep Date: 12/7/2017	Analysis D	ate: 12	2/8/2017	SeqNo: 1522747			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	28	5.0	25.00	0	113	75.9	131				
Surr: BFB	1200		1000		116	15	316				

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1712471

12-Dec-17

Client:

Blagg Engineering

Project:

SCHWERDTFEGER A LS 1

Sample ID MB-35387	SampType: MBLK			Tes							
Client ID: PBS	Batch ID: 35387			RunNo: 47630							
Prep Date: 12/7/2017	Analysis D	ate: 12	2/8/2017	SeqNo: 1522757			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	0.99		1.000		99.3	80	120				

Sample ID LCS-35387	SampT	ype: LC	S	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch	ID: 35	387	RunNo: 47630						
Prep Date: 12/7/2017	Analysis D	ate: 12	2/8/2017	S	SeqNo: 1	522758	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.7	77.3	128			
Toluene	0.94	0.050	1.000	0	94.2	79.2	125			
Ethylbenzene	0.93	0.050	1.000	0	93.4	80.7	127			
Xylenes, Total	2.8	0.10	3.000	0	94.8	81.6	129			
Surr: 4-Bromofluorobenzene	0.95		1.000		94.9	80	120			

Qualifiers:

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

Page 5 of 5



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 Nam	ne: BLAGG	Work Or	der Number:	1712471		RcptNo:	1
Received I	By: Anne Tho	me 12/8/2017	7:55:00 AM		Om Ha	_	
Completed	By: Anne Thor	rne 12/8/2017	8:17:00 AM		Ame Sh.		
Reviewed E		The state of the s	8/17		Clare Som		
			*				
Chain of	Custody						
1. Custod	y seals intact on s	ample bottles?		Yes	No 🗆	Not Present	
2. Is Chair	n of Custody comp	elete?		Yes 🗹	No 🗌	Not Present	
3. How wa	es the sample deliv	vered?		Courier			
Log In							
4. Was an	attempt made to	cool the samples?		Yes 🗹	No 🗆	NA 🗆	
5. Were a	Il samples receive	d at a temperature of >0° C to	6.0°C	Yes 🗹	No 🗆	NA 🗆	
6. Sample	e(s) in proper conta	ainer(s)?		Yes 🗹	No 🗆		
_							
		for indicated test(s)?		Yes 🗹	No 🗆	<u>«</u>	
		and ONG) properly preserved	1?	Yes 🗹	No ☑ No ☑	NA 🗆	
9. Was pre	eservative added to	o bottles?	*	Yes 📙	No 💌 .	NA L	
10. VOA via	als have zero head	space?		Yes 🗌	No 🗆	No VOA Vials 🗹	
11. Were a	ny sample contain	ers received broken?	: .	Yes	No 🗹	# of preserved	
*						bottles checked	
	sperwork match bo screpancies on ch			Yes 🗸	No 📙	for pH: (<2 or	>12 unless noted)
		ntified on Chain of Custody?		Yes 🗸	No 🗆	Adjusted?	
4	r what analyses w			Yes 🗹	No 🗆		
	holding times abl			Yes 🗸	No 🗆	Checked by:	
· (IT NO, N	otify customer for	authorization.)					
Special Ha	andling (if app	olicable)					
		screpancies with this order?		Yes	No 🗆	NA 🗹	i,
Pe	erson Notified:		Date				
Ву	/ Whom:		Via:	eMail	Phone Fax	☐ In Person	
Re	egarding:					The state of the s	
CI	ient Instructions:					Management of the Commission o	
17. Addition	nai remarks:						
	Information						
-	er No Temp °C		Seal No Se	eal Date	Signed By		
1	1.0	Good Yes					



