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.

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.

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

Santa Fe, NM 87505

Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank,
or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator: BP America Production Company OGRID #: 778
Address: Address: OGRID #: 170 OIL CONS. DIV DIST. 3
Facility or well name: SCHWERDTFEGER A LS 010
API Number: 3004506959 OCD Permit Number:
U/L or Qtr/Qtr L Section 31 Township 28N Range 08W County: San Juan
Center of Proposed Design: Latitude 36.61378 Longitude -107.72892 NAD83
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
□ Pit: Subsection F, G or J of 19.15.17.11 NMAC Temporary: □ Drilling □ Workover □ Permanent □ Emergency □ Cavitation □ P&A □ Multi-Well Fluid Management □ Low Chloride Drilling Fluid □ yes □ no □ Lined □ Unlined □ Liner type: Thicknessmil □ LLDPE □ HDPE □ PVC □ Other □ String-Reinforced Liner Seams: □ Welded □ Factory □ Other Volume: bbl Dimensions: L x W x D
Below-grade tank: Subsection I of 19.15.17.11 NMAC TANK A
Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: 95
Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: 95

4	
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: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank:	
 □ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. □ Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. 	
9. Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes No
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ☐ No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	☐ Yes ☐ No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured	
from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ☐ No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No

Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No								
Temporary Pit Non-low chloride drilling fluid									
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site									
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	Yes No								
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No								
Permanent Pit or Multi-Well Fluid Management Pit									
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site									
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No								
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site									
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. and 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:									

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 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 Lak 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	documents are
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.	luid Managamant Dit
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well Florative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method	luid Management Pit
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be a closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
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. P. 19.15.17.10 NMAC for guidance.	
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
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	☐ 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. - 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									
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 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. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cann Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	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 believes	ief.								
Name (Print): Title:									
Signature: Date:									
e-mail address: Telephone:									
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)									
OCD Representative Signature: Approval Date: 22	1.12								
Approvar Date.	6/2018								
Title: Nicomental Specialist OCD Permit Number:	6/2018								
Title: OCD Permit Number: OCD Permit Number:	complete this								

22.	
Operator Closure Certification:	
	ed with this closure report is true, accurate and complete to the best of my knowledge and able closure requirements and conditions specified in the approved closure plan.
Name (Print): Erin Garifalos	Title: Field Environmental Coordinator
Signature: Utin gwifalos	Date: February 19, 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

API No. 3004506959

Unit Letter L Section 31 T 28N 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	< 0.019
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.077
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	<46
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.

District I f 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

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised April 3, 2017 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

	OPERATOR										Final Report				
		America		n Garifalos											
				n, NM 87401		Telephone No. (832) 609-7048 Facility Type: Natural Gas Well									
		/ERDTFE(JER A L				e: Natural Ga	as vve							
Surface Ow	ner: Fede	eral		Mineral O	Federal			API No	.300450	<u>6959</u>)				
						OF REI									
Unit Letter	Section	Township	Range	Feet from the	_				West Line	County	on	luon			
L	31 28N 08W 1,180 South 475 West San C										Juan				
	Latitude 36.61378 Longitude -107.72892 NAD83														
	NATURE OF RELEASE														
Type of Rele	ase:: none)					Release:: unkno			Recovered::					
Source of Re	lease: belo	w grade ta	nk - 95 t	obl		n/a	lour of Occurrenc	e:	n/a	Hour of Disc	covery:				
Was Immedi	ate Notice (Yes 🗸	No Not Re	quired	If YES, To	Whom?								
By Whom?						Date and H	Iour								
Was a Water	course Reac		Yes 🗸	No		If YES, Vo	lume Impacting t	he Wat	ercourse.						
YC XY		pacted, Descri													
Describe Cau	ise of Proble	em and Remed	dial Action	Samp	_		beneath the				_	and the same of th			
					-		Field reports								
Describe Are	a Affected	and Cleanup A	action Tak	No action remedial		-	inal laborato	ory ai	nalysis c	determin	ed no)			
regulations a public health should their or or the environ	Il operators or the envir operations h nment. In a	are required to ronment. The ave failed to a	report an acceptance dequately CD accept	is true and compl d/or file certain re e of a C-141 repoi investigate and re tance of a C-141 r	lease no rt by the mediate	otifications are NMOCD made contamination	nd perform correct arked as "Final Ro on that pose a thre	tive act eport" of eat to g	ions for rele loes not reli round water	eases which is eve the operation, surface was	may end ator of ter, hun	danger liability nan health			
							OIL CONS	SERV	ATION	DIVISIO	N				
Signature:	run g	oribalo	4				F :								
		arifalos			The state of the s	Approved by	Environmental S _I	pecialis	t:						
		onmenta	l Coor	dinator	1	Approval Dat	e:		Expiration I	Date:					
E-mail Addre	ess: erin.	garifalos	@bp.d	com	(Conditions of Approval:									
Date: Febru				(832) 609-70	48					Attached					
* Attach Addi	tional Shee	ets If Necessa	ary												

bp



BP America Production Company 200 Energy Court Farmington, NM 87401

December 16, 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 010

API #: 3004506959

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 20, 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

Garifalos, Erin

From:

Buckley, Farrah (CH2M HILL)

Sent:

Saturday, December 16, 2017 11:47 AM

To:

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

Cc:

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

Subject:

BP Pit Close Notification - SCHWERDTFEGER A LS 010

BP America Production Company

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

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

December 16, 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 010 API 30-045-06959 (L) Section 31 – T28N – 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 December 20, 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

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CHENT: BP		NGINEERING, IN		API#: 30045	06959
CLIENT:	P.O. BOX 87, B	LOOMFIELD, NI	<i>I</i> I 87413	TANK ID	_
	(50	5) 632-1199		(if applicble):	Α
FIELD REPORT:	(circle one): BGT CONFIRMATION	/ RELEASE INVESTIGATION / C	OTHER:	PAGE#: 1	of1
SITE INFORMATION	SITE NAME: SCHWE	RDTFEGER A LS	8 # 10	DATE STARTED: 12	2/19/17
	28N RNG: 8W PM:	NID O I	ST: NM	DATE FINISHED:	
1/4 -1/4/FOOTAGE: 1,180'S / 47!		TYPE: FEDERAL/STATE			
	PROD. FORMATION: PC/MV C	CTDIVE		ENVIRONMENTAL SPECIALIST(S):	NJV
REFERENCE POINT		36.6136		GL ELEV.:	5.916'
	GPS COORD.: 36				', N7E
				RING FROM W.H.:	•
,					
3)			bandonii obedani araba	RING FROM W.H.:	
4)				RING FROM W.H.:	OVM
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # C				READING (ppm)
1) SAMPLE ID: 5PC - TB @ 5'	23			15B/8021B/300.0 (CI)	NA
2) SAMPLE ID:					
SAMPLE ID: SAMPLE ID:					
5) SAMPLE ID:	SAMPLE DATE:				
SOIL DESCRIPTION					
SOIL DESCRIPTION		SILT / SILTY CLAY / CLAY / GRAVE 	EL/OTHER		
	RATE BROWN	PLASTICITY (CLAYS): NON PLASTIC			
COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY CONSISTENCY (NON COHESIVE SOILS): LC		DENSITY (COHESIVE CLAYS & HC ODOR DETECTED: YES NO		STIFF / VERY STIFF / HARD)
MOISTURE: DRY/SLIGHTLY MOIST/ MOIST/ W		HC ODOR DETECTED. YES VINO	EXPLANATION -		
SAMPLE TYPE: GRAB COMPOSITE #		ANY AREAS DISPLAYING WETNES	SS: YES NO EXPLAN	NATION -	
DISCOLORATION/STAINING OBSERVED: YES / N		744774 E TO DIOI E TIMO WE INC.	00. TEO 110 EXTEN		
SITE OBSERVATION		: YES NO EXPLANATION -			
APPARENT EVIDENCE OF A RELEASE OBSERVE					
EQUIPMENT SET OVER RECLAIMED AREA:	YES NO EXPLANATION - 105 BB	L SHALLOW LOW PROFILE	ABOVE-GRADE TAI	NK TO BE SET ATOP BO	ET LOCATION.
OTHER: NMOCD OR BLM REPS. NOT PR	RESENT TO WITNESS CONFIRMA	ATION SAMPLING.			
EXCAVATION DIMENSION ESTIMATION:	NA ft. X NA	ft. X NA ft.	EXCAVATION EST	TIMATION (Cubic Yards) :	NA
.4001	EAREST WATER SOURCE: >1,000			CD TPH CLOSURE STD:	100 ppm
SITE SKETCH					ррп
SITE SKETCH	BGT Located: off I on sit	e PLOT PLAN circ	cle: attached OVM	CALIB. READ. = NA	ppm RF =1.00
		STEEL		CALIB. GAS = NA	_ppm
		NTAINMENT RING	TIME	: NA am/pm DATE:	NA
	ROD.	Tanto	'	MISCELL. NO	OTES
			l w	/O:	
		PBGTL T.B. ~ 5'		EF#: P-906	
		B.G.		ID: VHIXONEVI	D 2
	BERM (XXX)		_		DZ
				J#:	IAAIAO
		CEDADATOD		- 10	/14/10
	FENCE	← SEPARATOR	O		/07/17 Meter
	1		ID	ppm = parts per millio	on
	ТО		A		
	W.H.)	(- S.P.D.	BGT Sidewalls Visible: \	/ / N
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION		ELOW; T.H. = TEST HOLE; ~ = APPROX.;	W.H. = WELL HEAD;	BGT Sidewalls Visible: Y	
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BEL			WALL; NA - NOT	lagnetic declination:	10° E
	EWALL; DW - DOUBLE WALL; SB - SINGLE BOT				
NOTES: GOOGLE EARTH IMAGE	_INI DAIL. 10/3/2010.	ONSITE: 12/19/	17		

Analytical Report

Lab Order 1712B60

Date Reported: 12/21/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

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

SCHWERDTFEGER A LS 10 Project:

Collection Date: 12/19/2017 2:20:00 PM

Lab ID: 1712B60-001 Matrix: SOIL

Received Date: 12/20/2017 6:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Anal	yst: CJS
Chloride	ND	30	mg/Kg	20	12/20/2017 12:47:59	PM 35626
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analy	yst: TOM
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	12/20/2017 11:13:25	AM 35622
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	12/20/2017 11:13:25	AM 35622
Surr: DNOP	101	70-130	%Rec	1	12/20/2017 11:13:25	AM 35622
EPA METHOD 8015D: GASOLINE RAN	IGE				Analy	st: NSB
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	12/20/2017 10:40:43	AM G47914
Surr: BFB	93.4	15-316	%Rec	1	12/20/2017 10:40:43	AM G47914
EPA METHOD 8021B: VOLATILES					Analy	/st: NSB
Benzene	ND	0.019	mg/Kg	1	12/20/2017 10:40:43	AM B47914
Toluene	ND	0.039	mg/Kg	1	12/20/2017 10:40:43	AM B47914
Ethylbenzene	ND	0.039	mg/Kg	1	12/20/2017 10:40:43	AM B47914
Xylenes, Total	ND	0.077	mg/Kg	1	12/20/2017 10:40:43	AM B47914
Surr: 4-Bromofluorobenzene	113	80-120	%Rec	1	12/20/2017 10:40:43	AM B47914

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
 - % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 5 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

CI	hain-c	of-Cus	stody Record	dy Record Turn-Around Time: SAME HALL ENVIRONMENT									-									
Client:			/ BP AMERICA	☐ Standard	☑ Rush _	DAY	-															
				Project Name:	ruon	Rush DAY ANALYSIS LABORAT www.hallenvironmental.com											JR					
Mailing Ad	ddress:	P.O. BO	X 87	SCHWE	RDTFEGER	A IS # 10		40	01 LI										^			
			FIELD, NM 87413	Project #:		A 13 # 10	1											3710	3			
							Tel. 505-345-3975 Fax 505-345											Name and Address of the Owner, where the Party of the Owner, where the Party of the Owner, where the Owner, which is				
Phone #: email or F	and.	(505) 63	32-1199	Desired Manage			Analysis Request															
				Project Manag	jer.									040	S			300.1)				
QA/QC Pad			lavel 4 (Full) (statetion)		NELSON VI	LEZ	118)	nly)	MRO))4,S(PCB's					-		
☑ Standa			Level 4 (Full Validation)		NELCONIV	7.57	(8021B)	as o	_			IMS		2,PC	82 F			water			ple	
Accreditat		C 0#		Sampler:	NELSON VE		J-E	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)		Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082			70			5 pt. composite sample	
□ NELAP		□ Other		On ice		i No. 20	ŧ	+ TPI	30/	41	150	82	Is	Š	les /		8270 (Semi-VOA)	Chloride (soil - 300.0 /			ite	
□ EDD (T	ype)			12/20/17		CP-10= UT	4	BE.	3 (G	thoc	thoc	0 0	leta	D	ticic	(A)	ni-V	- lio		ple	sod	
Date	Time	Matrix	Sample Request ID	Container	Preservative	HEALNO	ł	Σ	0151	Me	Me	831	RCRA 8 Metals	IS (F	Pes	8260B (VOA)	(Sei	de (s		Grab sample	Com	
Date	Tarie	IVIALITA	Sample Request ID	Type and #	Type	一种人们的	втех	EX	H 8	H.)B(AH (CRA	nior	381	560	270	lori		rab	pt.	
	111		/ /	Me cat Kit		11/2/8/0		8		F	ᇤ	P/	×	Ā	8	00	00	-			_	
12/19/17	1420	SOIL	5PC-TB@ 5 (95)	4 oz 1	Cool	102	٧		٧					_	_			٧		\dashv	٧	
																					一	
				 											\vdash					\dashv	\forall	
				-						-		_		_				Н	\dashv	\dashv	+	
-				 				_	\vdash	-		-		-	-	-	_		_	-	\dashv	
							_								_	_				_	_	
																				\neg	_	
													-								\top	
Date:	Time:	Relinquish	ed by/	Received by:		Date Time	Ren	l narks	-	BILL	DIREC	TLYT	O BP	USING	G THE	CONT	ACT V	WITH C	ORRE	SPON	DING	
12/19/17	1522	91	In VI	01 11	1 - 15-	12/19/1 1537				& RE	FEREN	ICE#	WHE	N APE	PLICA	BLE;						
Date:	1005 Time:	Relinquish	ed by:	Received by:	~ac	Date Time	C		ACT: VID:					/ VA	NCE	HIX	N					
21011	1000	1	1 1/2	(1)	1 R1	120/17	Ref	eren		J110		906	•									
PULL	If necessor	nd eamnlies e	uhmitted to Hall Environmental may be	subcontracted to other		643 b				nv suh			data v	vill he	clear	v nota	ted on	the an	alvtics	I renor	nt	

Hall Environmental Analysis Laboratory, Inc.

WO#:

1712B60

21-Dec-17

Client:

Blagg Engineering

Project:

SCHWERDTFEGER ALS 10

Sample ID MB-35626

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

12/20/2017

Batch ID: 35626 Analysis Date: 12/20/2017

1.5

1.5

RunNo: 47918

SeqNo: 1535014

Units: mg/Kg

RPDLimit

Qual

Analyte Chloride

Result PQL

SPK value SPK Ref Val %REC LowLimit

TestCode: EPA Method 300.0: Anions

LowLimit

HighLimit

%RPD

Prep Date:

Sample ID LCS-35626

SampType: Ics

RunNo: 47918

Client ID: LCSS Prep Date: 12/20/2017 Batch ID: 35626

Analysis Date: 12/20/2017

SeqNo: 1535015

Units: mg/Kg

%RPD **RPDLimit**

Analyte

PQL

15.00

HighLimit

Qual

Page 2 of 5

Chloride

SPK value SPK Ref Val

%REC 90.2

110

0

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1712B60

21-Dec-17

Client:

Blagg Engineering

Project: SCHWI	ERDTFEGER A LS 10	
Sample ID LCS-35622	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 35622	RunNo: 47873
Prep Date: 12/20/2017	Analysis Date: 12/20/2017	SeqNo: 1534671 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 91.8 73.2 114
Surr: DNOP	4.7 5.000	93.8 70 130
Sample ID MB-35622	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 35622	RunNo: 47873
Prep Date: 12/20/2017	Analysis Date: 12/20/2017	SeqNo: 1534672 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	9.5 10.00	95.1 70 130
Sample ID LCS-35589	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 35589	RunNo: 47873
Prep Date: 12/19/2017	Analysis Date: 12/20/2017	SeqNo: 1535639 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.9 5.000	97.8 70 130
Sample ID MB-35589	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 35589	RunNo: 47873
Prep Date: 12/19/2017	Analysis Date: 12/20/2017	SeqNo: 1535640 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	10 10.00	102 70 130

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Page 3 of 5

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1712B60

21-Dec-17

Client: Project:

Blagg Engineering

SCHWERDTFEGER A LS 10

Sample ID RB	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: G47914	RunNo: 47914					
Prep Date:	Analysis Date: 12/20/2017	SeqNo: 1535211 Units: mg/Kg					
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %F	RPD RPDLimit Qual				
Gasoline Range Organics (GRO)	ND 5.0						
Surr: BFB	970 1000	96.7 15 316					
Sample ID 2.5UG GRO LCS SampType: LCS TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: G47914	RunNo: 47914					
Prep Date:	Analysis Date: 12/20/2017	SeqNo: 1535212 Units: mg/Kg					
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %F	PD RPDLimit Qual				
Gasoline Range Organics (GRO)	24 5.0 25.00	0 94.1 75.9 131					
Surr: BFB	1100 1000	111 15 316					
Sample ID MB-35606	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 35606	RunNo: 47914					
Prep Date: 12/19/2017	Analysis Date: 12/20/2017	SeqNo: 1535215 Units: %Rec					
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %R	PD RPDLimit Qual				
Surr: BFB	860 1000	85.8 15 316					
Sample ID LCS-35606	SampType: LCS	TestCode: EPA Method 8015D: Gasoline I	Range				

ı	oumpic ib	E00-33000	Cump Type.	200	100	loode. L	Ametriou	0010D. Ga301	ine range			1
	Client ID:	LCSS	Batch ID:	35606	R	RunNo: 4	7914					
	Prep Date:	12/19/2017	Analysis Date:	12/20/2017	S	SeqNo: 1	535216	Units: %Rec				
	Analyte		Result Po	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
	Surr: BFB		1100	1000		105	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

Page 4 of 5

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1712B60

21-Dec-17

Client: **Project:** Blagg Engineering

SCHWERDTFEGER A LS 10

Sample ID RB	SampT	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batch ID: B47914		RunNo: 47914							
Prep Date:	Analysis Date: 12/20/2017		SeqNo: 1535274			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	1.1		1.000		112	80	120			

Sample ID 100NG BTEX LO	S SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch	Batch ID: B47914			RunNo: 4					
Prep Date:	Analysis D	ate: 12	2/20/2017	S	SeqNo: 1	535275	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.0	77.3	128			
Toluene	0.91	0.050	1.000	0	90.8	79.2	125			
Ethylbenzene	0.90	0.050	1.000	0	89.7	80.7	127			
Xylenes, Total	2.8	0.10	3.000	0	91.7	81.6	129			
Surr: 4-Bromofluorobenzene	1.1		1.000		114	80	120			

Sample ID MB-35606	SampType: ME	BLK	TestCode: EPA Method	8021B: Volati	les		
Client ID: PBS	Batch ID: 356	606	RunNo: 47914				
Prep Date: 12/19/2017	Analysis Date: 12	2/20/2017	SeqNo: 1535278	Units: %Rec			
Analyte	Result PQL	SPK value SPK Ref V	/al %REC LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0	1.000	101 80	120			

Sample ID LCS-35606	SampType: I	TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID:	35606	F	RunNo: 4	7914				
Prep Date: 12/19/2017	Analysis Date:	12/20/2017	8	SeqNo: 1	535279	Units: %Re	С		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: A Bromofluorobenzene	1.2	1 000		110	80	120			

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded H

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

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

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 Name:	BLAGG	Work Order Numbe	r. 1712B	30	RcptNo	1
Received By:	Anne Thorne	12/20/2017 6:30:00 A	М	anne S	h_	¥
Completed By:	Anne Thorne	12/20/2017 6:49:12 A	M	ann I	1	
	17P 5	12/20/1		Clone S		
Reviewed By:	1216 2	12/0011				
Chain of Cus	<u>tody</u>				*	
1. Custody sea	ls intact on sample bot	tles?	Yes [No [Not Present ✓	
2. Is Chain of C	Custody complete?		Yes [✓ No □	Not Present	
	sample delivered?		Courie	Ţ		
Log In						
4. Was an atte	mpt made to cool the s	samples?	Yes	✓ No [NA 🗆	
5. Were all san	nples received at a tem	perature of >0° C to 6.0°C	Yes 5	No 🗆	NA 🗆	
	,	. ,				
6. Sample(s) in	proper container(s)?		Yes	✓ No L]	
7 Sufficient sa	mple volume for indica	ted test(s)?	Yes [✓ No □	j	
	(except VOA and ONG		Yes 6		_].	
	vative added to bottles?		-	No ✓	na □	
10. VOA vials ha	ave zero headspace?		Yes	□ No □	No VOA Vials ✓	
11. Were any sa	ample containers receiv	ved broken?	Yes	□ No ₩	# of preserved	
	,		` r		bottles checked	
	vork match bottle labels pancies on chain of cus		Yes	☑ No L	for pH:(<2-	or >12 unless noted)
	correctly identified on		Yes	✓ No □	Adjusted?	
14. Is it clear who	at analyses were reque	ested?	Yes 5	Ø No □]	
	ding times able to be m		Yes	No 🗆	Checked by:	
(If no, notify	customer for authorizat	ion.)				
Constal Hand						
	ling (if applicable		[🖼	
16. Was client no	otifled of all discrepand	ies with this order?	Yes	│ No └	NA ☑	7
Person	Notified:	Date				
By Who	-	Via:	eMail	☐ Phone ☐ Fa	ax In Person	•
Regard						
17. Additional re	nstructions:					
18. Cooler Info	1	ion Seal Intact Seal No	Seal Date	Signed By	1	
1	1.7 Good	Yes				



