District I 16; § N. 1. ench 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

Type of action:

State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-144 Revised April 3, 2017

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

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

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

Below grade tank registration

Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator: BP America Production Company OGRID #: 778
Address: 200 Energy Court, Farmington, NM 87401
Facility or well name: MUDGE B 058
API Number: 3004527815 OCD Permit Number:
Center of Proposed Design: Latitude 36.916674 Longitude -108.010369 NAD83
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
Temporary: Drilling Workover Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D Selow-grade tank: Subsection I of 19.15.17.11 NMAC TANK A NMOCD Volume: 95 bbl Type of fluid: Produced Water Tank Construction material: Steel APR 1 3 2018 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 R C Tank Single wall/ Double bottom; sidewalls not visible R C Tank Single wall/ Double bottom; sidewalls not visible R C Tank Visible sidewalls not visible R C Tank Visible Single wall/ Double bottom; sidewalls not visible R C Tank Visible Single wall/ Double bottom; sidewalls not visible R C Tank Visible Single wall/ Double bottom; sidewalls Single wall/ Double Visible Single wall/ Double Single wall/ Double Single wall/ Double Visible Single wall/ Double Visible
Liner type: Thicknessmil
4. Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.
5. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)



Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other	
☐ Monthly inspections (If netting or screening is not physically feasible)	
Signs: Subsection C of 19.15.17.11 NMAC 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers Signed in compliance with 19.15.16.8 NMAC	
8. Variances and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
9. <u>Siting Criteria (regarding permitting)</u> : 19.15.17.10 NMAC <i>Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptate are provided below.</i> 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. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No

Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit Non-low chloride drilling fluid	98
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).	
- Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Permanent Pit or Multi-Well Fluid Management Pit	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 Naturations: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the docattached. 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.	cuments are
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	.15.17.9 NMAC
Previously Approved Design (attach copy of design) API Number: or Permit Number:	

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H2S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan 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. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method	luid Management Pit
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be 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.	cce material are Please refer to
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	Yes No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	
	☐ Yes ☐ No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	
Society; Topographic map	☐ Yes ☐ No
Within a 100-year floodplain FEMA map	☐ Yes ☐ No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17. Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards 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
17. 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:	
18.	
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)	
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)	012018
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)	0/2018
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 4	the closure report.
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Title: OCD Permit Number: OCD Permit Number: OCD Permit Number: 19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report 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.	the closure report. complete this

22.	
Operator Closure Certification:	
	ted with this closure report is true, accurate and complete to the best of my knowledge and cable closure requirements and conditions specified in the approved closure plan.
Name (Print): Erin Garifalos	Title: Field Environmental Coordinator
Signature:Unin garifialos	Date: April 12, 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

MUDGE B 058

API No. 3004527815

Unit Letter B Section 8 T 31N R 11W

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	< 0.022
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.088
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	< 50
Chlorides	US EPA Method 300.0 or 4500B	620	<30

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

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

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 when 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 when 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 when 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 when 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 when the well is plugged and abandoned.

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

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

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

Certification section of C-144 has been completed.

District I

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

* Attach Additional Sheets If Necessary

State of New Mexico Energy Minerals and Natural Resources

Form C-141
Revised April 3, 2017
mit 1 Copy to appropriate District Office in

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.

			Rele	ease Notific	atior	and Co	orrective A	ction	1			
						OPERA'	ГOR		Initia	al Report	■ Fir	nal Report
				tion Company			n Garifalos			*		
			rmingto	n, NM 87401			No. (832) 609-			4		
Facility Nar	ne MUDO	BE B 058				Facility Typ	e: Natural Ga	as We	ell			
Surface Ow	ner: Fede	eral		Mineral O	wner:	Federal			API No	3004527	7815	
					TIOI	OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/	West Line	County		
В	8	31N	11W	1,240	Nor	th	1,720	Eas	st	S	an J	luan
			Latitud	_e 36.916674	Lo	ongitude -1	08.010369	NAD	83			
						OF REL						
Type of Rele	ase:: none)			CICE		Release:: unkno	own	Volume F	Recovered:: N	V/A	
Source of Re	lease: helo	w grade ta	nk - 95 l	phl		Date and H	lour of Occurrence		Date and	Hour of Disco		
Was Immedia			1110 00 1	351		n/a If YES, To	Whom?		n/a			
was infinedia	ate Notice (Yes 🗸	No Not Re	quired	11 1123, 10	whom:					
By Whom?						Date and H						
Was a Water	course Read		Yes 🗸	No		If YES, Vo	lume Impacting t	he Wat	ercourse.			
If a Watercon	irse was Im	pacted, Descr	he Fully *									
Describe Cau	use of Probl	em and Reme	dial Action	n Taken.* Samp	oling o	of the soil	beneath the	BGT	was do	ne during	remov	val.
				Soil a	nalys	is resulte	d for Chlorid Field reports	les, E	TEX, an	nd TPH be	elow Bo	GT
		and Cleanup A		No action remedial	actio	n is requ						
regulations al public health should their of 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 compled/or file certain re e of a C-141 report investigate and re tance of a C-141 re	lease no t 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 meve the operator, surface water	nay endan tor of liab er, human	ger ility health
							OIL CONS	SERV	ATION	DIVISION	N	
Signature:	run g	Wilfalo	4									
Printed Name	Erin G	arifalos				Approved by	Environmental Sp	pecialis	t:			
		onmenta	l Coor	dinator		Approval Dat	e.		Expiration I	Date:		
		garifalos							EXPITATION I	Jaic.		
E-mail Addre	ess: Cilii.	garnaios	⊕up.(50111	(Conditions of	Approval:			Attached		
Date: April	12, 2018		Phone:	(832) 609-704	48							

bp



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

February 2, 2018

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

VIA EMAIL

Re: Notification of plans to close/remove a below grade tank Well Name: MUDGE B 058 API #: 3004527815

Dear Mrs. Thomas,

As part of the NM "Pit Rule": 19.15.17.13 Closure Requirements, Paragraph J. BP America Production Company (BP) is required to notify the surface owner of BP's plans to close/remove a below grade tank. BP wishes to inform you of our plans to close/remove the below grade tank on its well pad located on your surface. BP plans to commence this work on or about February 8, 2018. If there aren't any unforeseen problems, the work should be completed within 10 working days.

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

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

Sincerely,

Erin Garifalos

BP America Production Company

From:

Buckley, Farrah (CH2M HILL)

To:

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

Cc:

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

Subject: Date: BP Pit Close Notification - MUDGE B 058 Friday, February 02, 2018 11:01:28 AM

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

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

February 2, 2018

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

RE:

Notice of Proposed Below-Grade Tank (BGT) Closure

MUDGE B 058 API 30-045-27815 (B) Section 8 – T31N – R11W San Juan County, New Mexico

Dear Mr. Cory Smith and Mrs. Vanessa Fields,

In regards to the captioned subject and requirements of the NMOCD pit rule, this letter is notification that BP is planning to a 95bbl and a 21bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around February 8, 2018.

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

Sincerely,

Erin Garifalos

Field Environmental Coordinator - San Juan

Cell: 832-609-7048

Farrah Buckley BGT Project Support 970-946-9199 -cell

This email and any attachments are intended only for the addressee(s) listed above and may contain confidential, proprietary, and/or privileged information. If you are not an intended recipient, please immediately advise the sender by return email, delete this email and any attachments, and destroy any copies of same. Any unauthorized review, use, copying disclosure or distribution of this email and any attachments is prohibited.

,CLIENT: , BP	P.O. BOX 87, B	LOOMFIELD, NM		TANK ID	_
	(50	05) 632-1199		(if applicble):	A
FIELD REPORT:	THER:	PAGE #: 1	of		
SITE INFORMATION	I: SITE NAME: MUDGE	E B # 58		DATE STARTED: 02	2/12/18
QUAD/UNIT: B SEC: 8 TWP:	31N RNG: 11W PM:	NM CNTY: SJ	ST: NM	DATE FINISHED:	
1/4 -1/4/FOOTAGE: 1,240'N / 1,7 2	20'E NW/NE LEASE T	TYPE: FEDERAL/STATE/	FEE / INDIAN		
		STRIKE		SPECIALIST(S):	NJV
REFERENCE POINT				GL ELEV.:	6.106'
1) 95 BGT (SW/DB) - A				=01	
2)	GPS COORD.:		DISTANCE/BEA	RING FROM W.H.:	
FIELD REPORT: (circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / OTHER: PAGE #: 1 of 1 SITE INFORMATION: SITE NAME: MUDGE B # 58 QUAD/UNIT: B SEC: 8 TWP: 31N RNG: 11W PM: NM CNTY: SJ ST: NM 1/4 - 1/4/F00TAGE: 1,240'N / 1,720'E NW/NE LEASE TYPE: FEDERAL/ STATE / FEE / INDIAN LEASE #: SF078096 PROD. FORMATION: FT CONTRACTOR: BP - J. GONZALES REFERENCE POINT: WELL HEAD (W.H.) GPS COORD.: 36.91660 X 108.01057 GL ELEV.: 6,106' 1) 95 BGT (SW/DB) - A GPS COORD.: 36.916674 X 108.010369 DISTANCE/BEARING FROM WH.: 70', N67E					
4)	GPS COORD.:		DISTANCE/BEA	RING FROM W.H.:	
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # (OR LAB USED: HALL			READING
1) SAMPLE ID: 5PC - TB @ 5' (9	5) - A SAMPLE DATE: 02/12	2/18 SAMPLE TIME:1220	LAB ANALYSIS: 80°	15B/8021B/300.0 (CI)	
SOIL DESCRIPTION	SOIL TYPE SAND SILTY SAND	SILT / SILTY CLAY / CLAY / GRAVE	L OTHER IMPORT	ED GRAVEL BENEATH	BGT.
		DENSITY (COHESIVE CLAYS & S	SILTS): SOFT/FIRM/	STIFF / VERY STIFF / HARD)
		HC ODOR DETECTED: YES NO	EXPLANATION -		
		ANY AREAS DISPLAYING WETNES	S: YES NO EXPLA	NATION -	
DISCOLORATION/STAINING OBSERVED: YES	O EXPLANATION -				
			APOVE CRADE TA	NIC TO BE SET ATOR BO	CT L OCATION
			ABOVE-GRADE IA	NK TO BE SET ATOP BO	31 LOCATION.
EVOAVATIONI DINAENICIONI ECTIMATIONI	NA A V NA	a V NA a	EVCAVATION EST	FIMATION (Cubic Vordo)	NA
				,	400
02 02.0	DOT ESCALEGY. OIL TOTAL SIG	PLOTTEAN CITC	A		111 -1.00
	SEPARATOR		IN		
	OLI AIGHOR				OTES
			_		
		3. ~ 5'			R2
		3.G.	_		
	FENCE		-		6/14/10
	FENCE -		0	CD Appr. date(s): 05	5/02/16
				OVM = Organic Vapo ppm = parts per milli	r Meter on
\forall			A		
		Х	- S.P.D.		- 120 (498
		ELOW; T.H. = TEST HOLE; ~ = APPROX.; V	N.H. = WELL HEAD;		
			WALL; NA - NOT N	lagnetic declination:	10 E
NOTES: GOOGLE EARTH IMAG		ONSITE: 02/12/1	18		

Analytical Report

Lab Order: 1802688

Date Reported: 2/15/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT:

Blagg Engineering

Project:

MUDGE B 58

Lab Order:

1802688

Lab ID:	1802688-001			Collect	ion Date: 2/12/20	018 12:20:00 PM
Client Sample ID:	5PC-TB @ 5' (95)-A				Matrix: SOIL	
Analyses		Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015	M/D: DIESEL RANGE	ORGANICS				Analyst: TOM
Diesel Range Organic	s (DRO)	ND	10	mg/Kg	1	2/13/2018 9:30:50 AM
Motor Oil Range Orga	anics (MRO)	ND	50	mg/Kg	1	2/13/2018 9:30:50 AM
Surr: DNOP		98.2	70-130	%Rec	1	2/13/2018 9:30:50 AM
EPA METHOD 8015	D: GASOLINE RANGE	•				Analyst: NSB
Gasoline Range Orga	nics (GRO)	ND	4.4	mg/Kg	1	2/13/2018 9:27:22 AM
Surr: BFB		91.9	15-316	%Rec	1	2/13/2018 9:27:22 AM
EPA METHOD 8021	B: VOLATILES					Analyst: NSB
Benzene		ND	0.022	mg/Kg	1	2/13/2018 9:27:22 AM
Toluene		ND	0.044	mg/Kg	1	2/13/2018 9:27:22 AM
Ethylbenzene		ND	0.044	mg/Kg	1	2/13/2018 9:27:22 AM
Xylenes, Total		ND	0.088	mg/Kg	1	2/13/2018 9:27:22 AM
Surr: 4-Bromofluore	obenzene	90.4	80-120	%Rec	1	2/13/2018 9:27:22 AM
EPA METHOD 300.0	: ANIONS					Analyst: MRA
Chloride		ŅD	30	mg/Kg	20	2/13/2018 10:43:00 AM

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- Analyte detected in the associated Method Blank
- Value above quantitation range Ε
- Analyte detected below quantitation limits Page 1 of 5 J
- Sample pH Not In Range
- RL Reporting Detection Limit

C	hain-c	of-Cus	stody Record	Turn-Around	Time:	SAME	١.			1	44		E	NV	TE	20	RI	ME	N'	TA		
Client:	BLAG	G ENGR	. / BP AMERICA	Standard Project Name	Rush _	DAY				A	N	AL	Y:	SIS	S L	A	ВС	R	AT		-	
Mailing A	ddress:	P.O. BO	X 87	-	MUDGE B	# 58		40	01 F								l.con		0			
			FIELD, NM 87413	Project #:			1					975					-410		3			
Phone #:		(505) 63	32-1199	7										ysis								
email or F	Fax#:			Project Mana	ger:													1)				
QA/QC Pa			Level 4 (Full Validation)		ERIN GARI	FALOS	WB5 (8021B)	+ TPH (Gas only)	MRO)			15)		204,504	PCB's			er - 300.1)			a	
Accreditat	tion:			Sampler:	NELSON V	ELEZ	₩. 14. (%)	(Gas	DRO /	1	1)	8270SIMS)		102	/ 8082			/ water			mpl	
□ NELAF		□ Other		Ontice 4:45	ZMLYreis	E No 777		TPH	-	418.1)	504	827(S	03,1	ss/s		(A)	0.00			e sa	L N
	Гуре)	T	T		erature, 4.6		1	3E +	(GR	por	poc	o	etal	CI,N	icide	A	i-V	il-3		e e	osit	30
Date	Time	Matrix	Sample Request ID	Container Type and # Mcotket	Preservative Type	HEAL NO	BTEX +**	BTEX + MTBE	TPH 8015B (GRO	TPH (Method	EDB (Method 504.1)	PAH (8310	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0 /		Grab sample	5 pt. composite sample	Air Bubbles (Y or N)
2/12/18	1220	SOIL	5PC-TB@ 5' (95)-A		Cool	-70	٧		٧									٧			٧	
2/12/10	1605	SOIL	5PG TD @ 6 (24)	402. 1	Cool	we	4		4									4			4	-
							\vdash															
							Т														\Box	
							\vdash															
							T		_				4			_						
																						一
Date: 2/17/18	Time:	Relinquish	Men V	Received by:	Jack)	Date Time 2/12/13 1325 Date Time	c		ACT: VID:	& RE ERIP VHI	FEREI N GA XON	RIFA EVB2	WHE	USING N APP / VA	LICA	BLE;		WITH	CORRE	SPON	IDING	VID
412/18	2012	11 h	submitted to Hall Environmental may b	a subcontracted to other	Mhu Sh	02/3//8 04.4.5		ferer				927	data	will he	dear	v nota	ted on	the a	nalytic	al reno	ort	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1802688 15-Feb-18

Client:

Blagg Engineering

Project:

MUDGE B 58

Sample ID MB-36495

Prep Date: 2/13/2018

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 36495 Analysis Date: 2/13/2018 RunNo: 49085

SeqNo: 1583564

Units: mg/Kg

RPDLimit

Analyte

Result ND

PQL SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

Qual

Chloride

Sample ID LCS-36495

SampType: Ics

TestCode: EPA Method 300.0: Anions RunNo: 49085

LowLimit

Client ID: Prep Date:

LCSS

Batch ID: 36495

Analysis Date: 2/13/2018

SeqNo: 1583565

Units: mg/Kg

%RPD **RPDLimit**

Qual

Analyte

2/13/2018

PQL

SPK value SPK Ref Val %REC 15.00

92.3

HighLimit

Chloride

14

1.5

110

Qualifiers:

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

Page 2 of 5

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1802688

15-Feb-18

Client:

Blagg Engineering

Project:

MUDGE B 58

Sample ID LCS-36489	SampTy	pe: LC	S	Test	Code: El	PA Method	8015M/D: Die	esel Rang	e Organics			
Client ID: LCSS	Batch ID: 36489 RunNo: 49069											
Prep Date: 2/13/2018	Analysis Da	ite: 2/	: 2/13/2018 SeqNo: 1579514 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	46	10	50.00	0	91.4	70	130					
Surr: DNOP	4.4		5.000		87.3	70	130					

Sample ID MB-36489	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch	ID: 364	489	R	tunNo: 4	9069				
Prep Date: 2/13/2018	Analysis D	ate: 2/	13/2018	SeqNo: 1579515			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	9.3		10.00		93.0	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

QČ SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1802688

15-Feb-18

Client:

Blagg Engineering

Project:

MUDGE B 58

Sample ID RB

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS**

Batch ID: G49081

PQL

5.0

RunNo: 49081

Prep Date:

Analysis Date: 2/13/2018

SeqNo: 1581197

Units: mg/Kg

Analyte

ND

SPK value SPK Ref Val

%REC LowLimit HighLimit

%RPD

Qual

Gasoline Range Organics (GRO) Surr: BFB

940

Result

1000

94.4

15 316

RPDLimit

Sample ID 2.5UG GRO LCS

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS

Batch ID: G49081

RunNo: 49081

Prep Date:

Analysis Date: 2/13/2018

SeqNo: 1581198

Units: mg/Kg

Analyte

PQL 5.0

SPK value SPK Ref Val %REC 0

LowLimit 101 75.9 HighLimit

RPDLimit Qual

Gasoline Range Organics (GRO) Surr. BFB

25 1100

Result

25.00 1000

113

15

%RPD 131 316

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н 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

В Analyte detected in the associated Method Blank

Ε Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Detection Limit RL

Sample container temperature is out of limit as specified

Page 4 of 5

ÖČ SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1802688

15-Feb-18

Client:

Blagg Engineering

Project:

MUDGE B 58

Sample ID RB

SampType: MBLK

TestCode: EPA Method 8021B: Volatiles

Client ID:

Batch ID: **B49081**

PQL

0.025

RunNo: 49081

SPK value SPK Ref Val %REC LowLimit

Prep Date:

Analysis Date: 2/13/2018

HighLimit

Analyte

Result

ND

0.94

Result

0.89

0.84

0.88

2.7

1.0

SeqNo: 1581204

Units: mg/Kg

%RPD

%RPD

RPDLimit

RPDLimit Qual

Qual

Benzene Toluene Ethylbenzene Xylenes, Total

Surr: 4-Bromofluorobenzene

Surr: 4-Bromofluorobenzene

ND 0.050 0.050 ND ND 0.10

SampType: LCS

PQL

0.025

0.050

0.050

0.10

1.000

1.000

1.000

1.000

3.000

1.000

94.3

80 120

Sample ID 100NG BTEX LCS

Client ID: LCSS

Batch ID: **B49081**

RunNo: 49081

101

TestCode: EPA Method 8021B: Volatiles

Units: mg/Kg

120

Prep Date:

Analyte

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Analysis Date: 2/13/2018

SeqNo: 1581205

0

0

0

0

SPK value SPK Ref Val %REC LowLimit HighLimit 77.3 88.6 128 79.2 84.3 125

88.3 80.7 127 88.8 81.6 129 80

Oualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit **PQL**
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Ε Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RLReporting 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 Ord	er Number: 1802688		RcptNo: 1							
Received By: Anne The	ome 2/13/2018 6	:45:00 AM	On Ho								
Completed By: Anne The			an In								
	. 1		Clare Stran	,							
Reviewed By: M 1	110/18		**								
Chain of Custody											
1. Is Chain of Custody com	plete?	Yes 🗸	No 🗆	Not Present							
2. How was the sample deli	vered?	Courier									
Log in											
3. Was an attempt made to	cool the samples?	Yes 🗹	No 🗆	NA 🗆							
4. Were all samples receive	d at a temperature of >0° C to 6.	0°C Yes ✓	No 📙	NA 🗆							
5. Sample(s) in proper conta	ainer(s)?	Yes 🗸	No 🗌								
	, ,										
6. Sufficient sample volume	for indicated test(s)?	Yes 🗹	No 🗆								
7. Are samples (except VOA	and ONG) properly preserved?	Yes 🗹	No 🗆	<u>.</u>							
8. Was preservative added to	o bottles?	Yes	No 🗹	NA 🗆							
9. VOA vials have zero head	space?	Yes	No 🗆 N	lo VOA Vials 🗹							
10. Were any sample contain	ers received broken?	Yes	No 🗹								
		_	b	of preserved ottles checked							
 Does paperwork match be (Note discrepancies on ch 		Yes 🗸	No 🗌 fo	or pH: (<2 or >12 unless noted)							
12. Are matrices correctly ide		Yes 🗸	No 🗆	Adjusted?							
13. Is it clear what analyses w		Yes 🗹	No 🗆								
14. Were all holding times abl	e to be met?	Yes 🗸	No 🗆	Checked by:							
(If no, notify customer for authorization.)											
Special Handling (if ap	plicable)										
15. Was client notified of all of	liscrepancies with this order?	Yes 🗌	No 🗆	NA 🗹							
Person Notified:		Date									
By Whom: Via:											
Regarding:											
Client Instructions:											
16. Additional remarks:											
17. Cooler Information	ark. See a Co. you a possible of the control of the										
Cooler No. Temp °C 1 1.0	Condition Seal Intact Seal Good Yes	al No Seal Date S	Signed By								
[]1.0	168										



