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

State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-144 Revised April 3, 2017

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office. For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or OIL CONS, DIV D
Proposed Alternative Method Permit or Closure Plan Application
Type of action: 📃 Below grade tank registration
 Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method
Modification to an existing permit/or registration
$\Box Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank,$
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 ordinance
Deperator: BP America Production Company OGRID #: 778
Address: 200 Energy Court, Farmington, NM 87401
Facility or well name: McCULLEY LS 003
API Number: 3004507295 OCD Permit Number:
OCD Permit Number: U/L or Qtr/Qtr L Section 24 Township 28N Range 09W County: San Juan
Center of Proposed Design: Latitude 36.64555 Longitude -107.74580 NAD83
Surface Owner: 🗌 Federal 🗌 State 🔲 Private 🔳 Tribal Trust or Indian Allotment
2.
Pit: Subsection F, G or J of 19.15.17.11 NMAC
Temporary: Drilling Workover
Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no
Lined Unlined Liner type: Thickness mil LLDPE 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
Volume: 95 bbl Type of fluid: Produced Water
Tank Construction material: Steel
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
Visible sidewalls and liner Visible sidewalls only Other Single wall/ Double bottom; sidewalls not visible
Liner type: 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 (<i>Required if located within 1000 feet of a permanent residence, school, hospital, institution or church</i>)
Four foot height, four strands of barbed wire evenly spaced between one and four feet
Alternate. Please specify

Oil Conservation Division

6. Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
☐ 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 	
 8. <u>Variances and Exceptions</u>: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. <i>Please check a box if one or more of the following is requested, if not leave blank:</i> 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 acce 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	☐ Yes ☐ No ☐ NA
<u>Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.</u> NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
 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 ² 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes No								
Temporary Pit Non-low chloride drilling fluid									
 Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	Yes No								
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	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 									
 Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	Yes No								
Permanent Pit or Multi-Well Fluid Management Pit									
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa									
 lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	Yes No								
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application Visual inspection (certification) of the proposed site; Aerial photo; Satellite image									
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.									
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes No								
 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	Yes No								
10. Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: or Permit Number:									
11. <u>Multi-Well Fluid Management Pit Checklist</u> : Subsection B of 19.15.17.9 NMAC									
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC									
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC									
Previously Approved Design (attach copy of design) API Number: or Permit Number:									

12. -1 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 Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 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 Oil Field Waste Stream Characterization Monitoring and Inspection Plan Errosion Control Plan Closure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC	documents are						
13. 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						
14. Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC							
15. <u>Siting Criteria (regarding on-site closure methods only)</u> : 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. If 19.15.17.10 NMAC for guidance.	rce material are Please refer to						
 Ground water is less than 25 feet below the bottom of the buried waste. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells 	□ Yes □ No □ NA						
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ Yes □ No □ 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 houndaries or within a defined municipal fact water will Gald and the land to the							
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance							
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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							
16. 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.	.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 bel	ief.							
Name (Print): Title:								
Signature: Date:								
18. OCD Approval: Permit Application (including closure plan) M Closure Plan (only) OCD Conditions (see attachment)								
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) OCD Representative Signature: Approval Date: 000000000000000000000000000000000000								
OCD Approval: Permit Application (including Closure plan) Closure Plan (only) OCD Conditions (see attachment)								
OCD Approval: Permit Application (including crossice plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: Approval Date: OCD Title: OCD Permit Number: OCD Permit Number: Image: 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.	13 2018.							
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: OCD Title: 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.	13 2018.							
OCD Approval: Permit Application (including crossice plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: Approval Date: OCD Title: OCD Permit Number: OCD Permit Number: Image: 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.							

Oil Conservation Division

22. Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): Erin Garifalos

Signature:

Title: Field Environmental Coordinator

erin garifialos

Date: February 9, 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

McCULLEY LS 003

API No. 3004507295

Unit Letter L Section 24 T 28N R 09W

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

General Closure Plan

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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	< 0.078
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	<47
Chlorides	US EPA Method 300.0 or 4500B	620	<30

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

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

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

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

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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-ground 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-ground 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-ground 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-ground 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-ground 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

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- 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.

BP BGT Closure Plan 04-01-2010

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 Initial Report						Final Report		
Name of Company BP America Production Company						Contact Erin Garifalos								
Address 20	D Energy	/ Court, Fa	rmingto	n, NM 87401		Telephone No. (832) 609-7048								
Facility Nar	ne McCU	LLEY LS (003]	Facility Typ	e: Natural Ga	as We						
Surface Ow	ner: India	an		Mineral O	wner:	Indian			API No	.300450	7295	5		
				LOCA	TION	N OF REI	LEASE							
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/	West Line	County		1		
L	24	28N	09W	1,951	Sou	ıth	1,020	We	st	5	an	Juan		
			Latitud	e 36.64555	Lo	ongitude ⁻¹	07.74580	NAD	83					
				NAT	URE	OF RELI								
Type of Relea	ase:: none	9					Release: unkno			lecovered: :				
Source of Re	lease: belo	w grade ta	nk - 95 k	bl		Date and H	lour of Occurrenc	e:	n/a	Hour of Dis	covery:			
Was Immedia		Given?		No 🗌 Not Re	quired	If YES, To	Whom?							
By Whom?						Date and H	lour							
Was a Water	course Read		Yes 🗸	No		If YES, Vo	lume Impacting t	the Wat	ercourse.					
If a Watercou	irse was Im	pacted, Descr	ibe Fully.*											
Describe Cau	se of Probl	em and Reme	dial Action	Taken.* Samp	oling c	of the soil	beneath the	BGT	was do	ne durin	g ren	noval.		
					0		d for Chloric				0			
				closu	re sta	ndards. F	ield reports	and I	aborator	ry results	are	attached.		
Describe Are	a Affected	and Cleanup A	Action Tak	en.*		-								
				No action		-	inal laborate	ory ar	nalysis c	letermin	ed no	0		
				remedial	actio	n is requ	ired.							
				is true and compl d/or file certain re										
				e of a C-141 repor										
should their o	perations h	ave failed to a	dequately	investigate and re	emediate	e contaminati	on that pose a thr	eat to g	round water	, surface wa	ter, hui	man health		
or the environ	or local lay	iddition, NMC ws and/or regu	CD accept	ance of a C-141 r	eport do	bes not reliev	e the operator of	respons	ibility for co	ompliance w	oth any	other		
							OIL CON	SERV	ATION	DIVISIC	N			
l	Ting	wilfald	A											
Signature:	0	U				Approved by	Environmental S	pagialia	+•					
Printed Name: Erin Garifalos Approved by Environmental Specialist:														
Title: Field	Envir	onmenta	l Coor	dinator	I	Approval Dat	e:		Expiration I	Date:				
E-mail Addre	ss: erin.	garifalos	@bp.o	com	(Conditions of	Approval:			Attached				
Date: Febru	ary 9, 2	018	Phone:	(832) 609-70	48									

* Attach Additional Sheets If Necessary

bp



BP America Production Company 200 Energy Court Farmington, NM 87401

December 8, 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: MCCULLEY LS 003 API #: 3004507295

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 13, 2017. If there aren't any unforeseen problems, the work should be completed within 10 working days.

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

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

Sincerely,

Erin Garifalos

BP America Production Company

From: To: Cc: Subject: Date: Buckley, Farrah (CH2M HILL) Smith, Cory, EMNRD; Fields, Vanessa, EMNRD (Vanessa, Fields@state.nm.us) jeffcblagg@aol.com; blagg_njv@yahoo.com; Garifalos, Erin BP Pit Close Notification - MCCULLEY LS 003 Friday, December 08, 2017 11:22:43 AM

> BP America Production Company 200 Energy Court Farmington, NM 87401 Phone: (505) 326-9200

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

December 8, 2017

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

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

MCCULLEY LS 003 API 30-045-07295 (L) Section 24 – T28N – R09W San Juan County, New Mexico

Dear Mr. Cory Smith and Mrs. Vanessa Fields,

In regards to the captioned subject and requirements of the NMOCD pit rule, this letter is notification that BP is planning to close a 95bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around December 13, 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



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BP BLAGG ENGINEERING, INC. API #:30045072 CLIENT: P.O. BOX 87, BLOOMFIELD, NM 87413 TANK ID (505) 632-1199 (if applicble):A	95							
FIELD REPORT: (circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / OTHER: PAGE #: 1 of	_1_							
SITE INFORMATION: SITE NAME: McCULLEY LS # 3 DATE STARTED: 12/14 QUAD/UNIT: L SEC: 24 TWP: 28N RNG: 9W PM: NM CNTY: SJ ST: NM DATE STARTED: DATE FINISHED: DATE FINISHED:								
LEASE #: NM04208 PROD. FORMATION: MV CONTRACTOR: BP - J. GONZALES SPECIALIST(S): NJ REFERENCE POINT: WELL HEAD (W.H.) GPS COORD.: 36.64569 X 107.74561 GL ELEV.: 5,9	79'							
95 BGT (SW/DB) GPS COORD.: 36.64555 X 107.74580 DISTANCE/BEARING FROM WH.: 74', S44. 2) GPS COORD.: DISTANCE/BEARING FROM WH.:	5VV							
	OVM READING							
SAMPLE ID: 5PC - TB @ 5' (95) SAMPLE DATE: 12/14/17 SAMPLE TIME: 1150 LAB ANALYSIS: 8015B/8021B/300.0 (CI) 2) SAMPLE ID: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS: 40 3) SAMPLE ID: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS: 40 4) SAMPLE ID: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS: 5) SAMPLE ID: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS:	(ppm) NA							
SOIL DESCRIPTION: SOIL TYPE: SAND SILTY SAND; SILT SILTY CLAY; CLAY; CLAY; GRAVEL OTHER BEDROCK (CLAYSTONE/SHALE) SOIL COLOR: MOSTLY OLIVE GRAY PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE; MEDIUM PLASTIC / HIGHLY PLASTIC COHESION (ALL OTHERS): NON COHESIVE (SLIGHTLY COHESIVE) COHESIVE (SLIGHTLY COHESIVE) COHESIVE (SLIGHTLY COHESIVE) CONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM; DENSE / VERY DENSE PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / HIGHLY PLASTIC MOISTURE: DRY / SLIGHTLY MOIST; MOIST / WET / SATURATED / SUPER SATURATED MOISTURE: DRY / SLIGHTLY MOIST; MOIST / WET / SATURATED / SUPER SATURATED ANY AREAS DISPLAYING WETNESS: YES NO EXPLANATION- DISCOLORATION/STAINING OBSERVED: YES NO EXPLANATION- 5 ANY AREAS DISPLAYING WETNESS: YES NO EXPLANATION- SITE OBSERVATIONS: LOST INTEGRITY OF EQUIPMENT: YES NO EXPLANATION- EXPLANATION- APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED : YES NO EXPLANATION: EQUIPMENT SET OVER RECLAIMED AREA: YES NO EXPLANATION-								
DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1,000' NEAREST SURFACE WATER: <1,000' NMOCD TPH CLOSURE STD: 1,000	NA ppm							
MISCELL. NOTI	RF = 1.00 NA ES							
PROD. TANK FENCE FENCE PROD. TANK FENCE PROD. TANK FENCE PROD. TANK FENCE PROD. TANK FENCE PROD. TANK SOUND WALLS SOUND WALLS COMPRESSOR SEPARATOR WO: REF #: P-817 VID: VHIXONEVB2 PJ #: Permit date(s): 06/09/ OCD Appr. date(s): 03/03/ Tank OVM Organic Vapor Meter D ppm = parts per million A BGT Sidewalls Visible: Y /(N)	17							
NOTES: BGT Sidewalls Visible: Y / N NOTES: BGT Sidewalls Visible: Y / N Magnetic declination: 10° NOTES: GOOGLE EARTH IMAGERY DATE: 10/5/2016. ONSITE: 12/14/17	E							

revised: 11/26/13

Analytical	Report
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Lab Order 1712909

Date Reported: 12/18/2017

Hall Environmental Analysis Laboratory, Inc.

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

 Project: McCULLEY LS 3
 Collection Date: 12/14/2017 11:50:00 AM

 Lab ID: 1712909-001
 Matrix: SOIL
 Received Date: 12/15/2017 7:30:00 AM

 Analyses
 Result
 PQL Qual Units
 DF Date Analyzed
 Batch

T Minut J 505	ittouit	r Qu Qu	an emits	DI	Dute i that y Dea	Duttin
EPA METHOD 300.0: ANIONS		5a			Analys	st: MRA
Chloride	ND	30	mg/Kg	20	12/15/2017 11:07:31	AM 35535
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	1			Analys	st: TOM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	12/15/2017 12:05:32 F	PM 35531
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/15/2017 12:05:32 F	PM 35531
Surr: DNOP	93.1	70-130	%Rec	1	12/15/2017 12:05:32 F	PM 35531
EPA METHOD 8015D: GASOLINE RAN	IGE				Analys	st: NSB
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	12/15/2017 11:46:01 A	AM 35517
Surr: BFB	86.4	15-316	%Rec	1	12/15/2017 11:46:01 A	AM 35517
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	ND	0.019	mg/Kg	1	12/15/2017 11:46:01 A	AM 35517
Toluene	ND	0.039	mg/Kg	1	12/15/2017 11:46:01 A	AM 35517
Ethylbenzene	ND	0.039	mg/Kg	1	12/15/2017 11:46:01 A	AM 35517
Xylenes, Total	ND	0.078	mg/Kg	1	12/15/2017 11:46:01 A	AM 35517
Surr: 4-Bromofluorobenzene	107	80-120	%Rec	1	12/15/2017 11:46:01 A	M 35517

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

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

Chain-of-Custody Record		Turn-Around T	Time:	SAME				H				/TE	20	NI		NT		-		
Client:	Client: BLAGG ENGR. / BP AMERICA		SAME ANALYSIS LABORA									_								
				Project Name:	www.hallenvironmental.com															
Mailing A	ddress:	P.O. 80	X 87	N	4901 Hawkins NE - Albuquerque, NM 87109															
		BLOOM	FIELD, NM 87413	Project #:					Tel. 505-345-3975 Fax 505-345-4107											
Phone #:	Phone #: (505) 632-1199			1			Analysis Request													
email or F	ax#:			Project Manag	ler:						Γ		2				-		T	
QA/QC Pa	-		Level 4 (Full Validation)		NELSON VI	ELEZ	48's (8021B)	only)	MRO)		S)		04,504	PCB's			er - 300.1)			
Accreditat	tion:			Sampler:	ampler: NELSON VELEZ			Gas	2		SIM		02,P	082			wat		· ·	sample v)
	b	D Other		Ön lice:	Yes	No 20		HAL		118	3270		03,N	s / 8		(Y	0.0			N)
	Type)			Sample Temp	erature: 1/2			+ 3	GRO	po	or	etals	N,N	cide	(A	i-VC	il - 30		e i	Osit (Y or
Date	Time	Matrix	Sample Request ID	12 (15//2 th Container Type and # Mr aff v. f	Preservative Type	HEAL NO	BTEX + MTE	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0 / water			5 pt. composite so Air Bubbles (Y or N)
12/14/17	1150	SOIL	5PC-TB@ 5' (95)	4 oz 1	Cool	-201	V		V								V			V
										Τ										
										T									+	-
										1	1-							-	+	-
									+	+		-						+	+	
									+	+	+							+	+	+
									+	+	+							+	+	.
									+	+-	+							+	+	+
									+	-		-						+	+	+
-									-+-	+	+	-						+	+	
									-	+	-		-					+	+	
Date:	Time:	Relinguishe	ad þy:	Received by:	1	Date Time	Rem	arks:	B	LL DIRE	CTLYT	OBP	USING	THE	CONT	ACT V	VITH	ORRES	PONE	DING VID
12/14/17	1421	90	hulf	MA	Nata	MAKA NYU			8	REFER	ENCE #	WHE	N APP	LICA	BLE;					
Date:	Time:	Relinquishe		Received by:		Date Time	CONTACT: ERIN GARIFALOS / VANCE HIXON VID: VHIXONEVB2									× .				
12/14/15/1911 Mat Walt			Up	in To	12/151/7	Ref	erenc	e#	P	- 817	_								1	

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Blagg Engineering **Client:** P

	MD 25525	SampTupo: mblk	
Project:	McCU	LLEY LS 3	
Chent.	D1455 1	Singinicering	

Sample ID MB-35535	SampType: mblk	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 35535	RunNo: 47816		
Prep Date: 12/15/2017	Analysis Date: 12/15/2017	SeqNo: 1531039	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Sample ID LCS-35535	SampType: Ics	TestCode: EPA Method	300.0: Anions	
Sample ID LCS-35535 Client ID: LCSS	SampType: Ics Batch ID: 35535	TestCode: EPA Method RunNo: 47816	300.0: Anions	
	1 31		300.0: Anions Units: mg/Kg	
Client ID: LCSS	Batch ID: 35535 Analysis Date: 12/15/2017	RunNo: 47816		RPDLimit Qual

Qualifiers:

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

Page 2 of 5

1712909

18-Dec-17

WO#:

Client: Blagg Engineering Project: McCULLEY LS 3

Sample ID LCS-35531 SampType: LCS			Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS Batch ID: 35531			RunNo: 47811							
Prep Date: 12/15/2017 Analysis Date: 12/15/2017			S	SeqNo: 1529467 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	73.2	114			
Surr: DNOP	4.6		5.000		91.2	70	130			
Sample ID MB-35531	SampT	ype: ME	3LK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Sample ID MB-35531 Client ID: PBS		ype: ME			tCode: El RunNo: 4		8015M/D: Die	esel Range	e Organics	
		ID: 35	531	R		7811	8015M/D: Die Units: mg/K	0	e Organics	
Client ID: PBS	Batch	ID: 35	531 2/15/2017	R	RunNo: 4	7811		0	e Organics	Qual
Client ID: PBS Prep Date: 12/15/2017	Batch Analysis D	ID: 35 ate: 12	531 2/15/2017	R	RunNo: 4 SeqNo: 1	7811 529468	Units: mg/K	g	5	Qual
Client ID: PBS Prep Date: 12/15/2017 Analyte	Batch Analysis D Result	ID: 35: ate: 12 PQL	531 2/15/2017	R	RunNo: 4 SeqNo: 1	7811 529468	Units: mg/K	g	5	Qual

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

WO#: 1712909 18-Dec-17

Client: Blagg Engineering

Project: McCULLEY LS 3

Sample ID MB-35517	SampTy	pe: ME	BLK	Test	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch	ID: 35	517	R	RunNo: 4	7817				
Prep Date: 12/14/2017	Analysis Da	ite: 12	2/15/2017	S	eqNo: 1	530380	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	960		1000		96.2	15	316			
Sample ID LCS-35517	SampTy	pe: LC	s	Test	Code: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch	ID: 35	517	R	unNo: 47	7817				
Prep Date: 12/14/2017	Analysis Da	ite: 12	/15/2017	S	eqNo: 1	530381	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte Gasoline Range Organics (GRO)	Result 27	PQL 5.0	SPK value 25.00	SPK Ref Val 0	%REC 107	LowLimit 75.9	HighLimit 131	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Η 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 S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

WO#: 1712909

18-Dec-17

Page 4 of 5

WO#: 1712909

Page 5 of 5

18-Dec-17

Client: Blagg Engineering

Project: McCULLEY LS 3

Sample ID MB-35517	SampT	уре: МЕ	BLK	Tes	tCode: E	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batch	n ID: 35	517	F	RunNo: 4	7817				
Prep Date: 12/14/2017 Analysis Date: 12/15/2017		SeqNo: 1530395 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		114	80	120			
Sample ID LCS-35517	SampT	ype: LC	S	Tes	tCode: E	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batch	n ID: 35	517	F	RunNo: 4	7817				
Prep Date: 12/14/2017	Prep Date: 12/14/2017 Analysis Date: 12/15/2017		SeqNo: 1530396 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.8	77.3	128			
Toluene	0.97	0.050	1.000	0	96.6	79.2	125			
Ethylbenzene	0.97	0.050	1.000	0	97.0	80.7	127			
Xylenes, Total	3.0	0.10	3.000	0	98.5	81.6	129			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

Qualifiers:

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

	ANALY	ONMENTAL SIS Atory	Hall Environmenta Alb TEL: 505-345-397: Website: www.hu	4901 Hawkin uquerque, NM 8 5 FAX: 505-345-	13 NE 17109 Sam	ple Log-In C	heck List
Clie	ent Name:	BLAGG	Work Order Number	: 1712909		RcptNo:	1
Rec	eived By:	Anne Thorne	12/15/2017 7:30:00 A	м	ame Am	~	
Con	npleted By:	Anne Thorne	12/15/2017 8:15:55 A	M	Anne Hanne		
Rev	iewed By:	5005	12/15/17		Ulle Arm		
Cha	in of Cust	ody					
1.	Custody seals	s intact on sample bottle	es?	Yes	No 🗆	Not Present	
2.	Is Chain of Cu	ustody complete?		Yes 🔽	No.	Not Present	
3.	How was the	sample delivered?	÷	Courier	•		
Log	<u>a In</u>						
4.	Was an atten	npt made to cool the sa	mples?	Yes 🗹	No 🗌	NA 🗌	
5.	Were all sam	ples received at a temp	erature of >0° C to 6.0°C	Yes 🗹	No 🗌		
6.	Sample(s) in	proper container(s)?		Yes 🗹	No 🗌		· · · ·
7 9	Sufficient ear	ple volume for indicate	teet/c)?	Yes 🗹	No 🗌	. · · ·	
		except VOA and ONG)		Yes 🗹	No 🗌		
		tive added to bottles?		Yes	No 🗹	NA 🗌	
10.1	VOA vials hav	e zero headspace?		Yes 🗌	No 🗌	No VOA Vials	
		nple containers receive	d broken?	Yes	No 🗹		
		ork match bottle labels?		Yes 🗹	No 🗌	# of preserved bottles checked for pH:	
		ancies on chain of custo					>12 unless noted)
		correctly identified on Cl		Yes 🗹		Adjusted?	
		t analyses were request ng times able to be met		Yes 🗹	No 🗌	Checked by:	
		ustomer for authorizatio					
-	alal Handli	ma //f annlinghia)				*	
		ng (if applicable)	11 AL	× □			
16.	Nas client not	tified of all discrepancies	s with this order?	Yes	No 🗆	NA 🗹	
	Person I		Date				
	By Who		Via:	eMail 🔲 I	Phone 🗌 Fax	In Person	
	Regardin	ACCORDING TO A DESCRIPTION OF A DESCRIPR	No. In the second s	AND INCOMENTS			
17.	Additional ren	structions:					
18.	Cooler Inform	nation │ Temp ºC │ Condition	n Seal Intact Seal No	Seal Date	Signed By		
	1	1.0 Good	Yes		orgined by		
	······				······		

•



