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

State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr.

Form C-144 Revised June 6, 2013

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.

Proposed Alternative Method Permit or Closure Plan Application

Santa Fe, NM 87505

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 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.
I. Comp. # 779
Operator: BP America Production Company Address: 200 Energy Court, Farmington, NM 87401 OGRID #: 778 OGRID #: 778 OGRID #: 778
Facility or well name: Fields Com LS #5A Fields Com LS #5A
API Number: 3004522461 OCD Permit Number:
U/L or Qtr/Qtr F Section 28 Township 32N Range 11W County: San Juan
Center of Proposed Design: Latitude 36.958556 Longitude -107.997417 NAD: □1927 ⋈ 1983
Surface Owner: Federal State Tribal Trust or Indian Allotment
DIL CONS. DIV DIST. 3 Pit: Subsection F, G or J of 19.15.17.11 NMAC
Temporary: Drilling Workover OCT 12 2017
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 Other
String-Reinforced
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
3.
Below-grade tank: Subsection I of 19.15.17.11 NMAC TANK A
Volume:bbl Type of fluid:Produced water
Tank Construction material: Steel
Talk Constitution material. Steel
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
□ Secondary containment with leak detection □ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off □ Visible sidewalls and liner □ Visible sidewalls only □ Other <u>Single wall/ Double bottom; sidewalls not visible</u>

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, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify Alternate.	hospital,
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other Monthly inspections (If netting or screening is not physically feasible)	
Signs: Subsection C of 19.15.17.11 NMAC 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers Signed in compliance with 19.15.16.8 NMAC	
Variances and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
9. Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptance are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
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 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. Not Office of the State Engineer - i WATERS database search; Visual inspection (certification) of the proposed site within 100 set of a weland.	Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial	Yes No
watering purposes, or 300fect of any other fresh water well or spring, in existence at the time of the initial application. NO files of the State Engineer - iWATERS database search, Visual inspection (certification) of the proposed site Within 100 fect of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Temporary Pit Non-low chloride drilling fluid Within 300 fect of a continuously flowing watercourse, or any other significant watercourse, or within 200 fect of any lakebed, sinkhole, or playa lake (measured 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; Statellite image Within 500 fect of any other fresh water well or spring, in the existence at the time of initial application. - Within 500 fect of any other fresh water well or spring, in the existence at the time of initial application. - Within 500 fect of any other fresh water well or spring, in the existence at the time of the initial application. - Within 500 fect of any other fresh water well or spring, in the existence at the time of the initial application. - Within 500 fect of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site - Within 500 fect of a wetland. - US Fish and Wildlife Wetland Identification of the proposed site - Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Within 1000 feet for the spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - Within 500 feet of a welland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site - Within 500 feet of the State Engineer - iWATERS database search; Visu	 application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	
Temporary Pit Non-low chloride drilling fluid Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site within 300 feet of any 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 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of hintial application; Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 for of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 fortonal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within 500 fortonal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within 500 fortonal feet of a wetland. US Fish and Wildlife Wetland Identification map; Topog	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
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- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 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
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- 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 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
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 No 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 Stiting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC 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 19.15.17.12 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Design 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 Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC	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
US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 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
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC Previously Approved Design (attach copy of design) API Number:	Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
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 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	Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC	NMAC
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 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	Previously Approved Design (attach copy of design) API Number: or Permit Number:	
☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC	attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC	
Previously Approved Design (attach copy of design) API Number: or Permit Number:	☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC ☐ Previously Approved Design (attach copy of design) API Number: or Permit Number:	

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the	documents are
attached. ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC ☐ Climatological Factors Assessment ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Quality Control/Quality Assurance Construction and Installation Plan ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC ☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Nuisance or Hazardous Odors, including H₂S, Prevention Plan ☐ Emergency Response Plan ☐ Oil Field Waste Stream Characterization ☐ Monitoring and Inspection Plan ☐ Erosion Control Plan ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.	
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well Find 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 a closure plan. Please indicate, by a check mark in the box, that the documents are attached. □ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC □ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC □ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) □ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC □ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. P. 19.15.17.10 NMAC for guidance.	
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	Yes No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	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 plans 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 19.15.17.13 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 Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	11 NMAC 15.17.11 NMAC
0perator 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 Representative Signature: Approval Date:	2-12-
Title: Environmental Specialist OCD Permit Number:	9 1/301
P	the closure report.
Title: 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.

22.	
Operator Closure Certification:	
	bmitted with this closure report is true, accurate and complete to the best of my knowledge and
belief. I also certify that the closure compiles with all ap	pplicable closure requirements and conditions specified in the approved closure plan.
Name (Print): Erin Garifalos	Title: Field Environmental Coordinator
Timbe (Time):	
17: 10 0 117: 1 D.	
Signature: Win garifalos	Date: September 18, 2017
oigitatore	
ii ii anin amifalas@hn aam	Taladama (822) 600 7048
e-mail address: <u>erin.garifalos@bp.com</u>	Telephone:(832) 609-7048

BP AMERICA PRODUCTION COMPANY

SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

Fields Com LS #5A API No. 3004522461 Unit Letter F, Section 28, T32N, R11W

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

- 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)
 - 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
	21 bbl BGT	(mg/Kg)	results
Benzene	US EPA Method SW-846 8021B or 8260B	10	< 0.024
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.097
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	51
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 occurred but is below regulatory standards. Attached is a laboratory report and C-141.
- 9. If the sampling demonstrates that a release has not occurred or that any release does not exceed the concentrations specified above, then BP shall backfill the excavation, with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover, re-contour and re-vegetate the location. The location will be reclaimed if it is not with in the active process area
 - Sampling results indicate a release has occurred but is below regulatory standards. Attached is a laboratory report and field report.
- 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. 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. 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. 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. 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. The location will be reclaimed once the well is plugged and abandoned.
- 15. Within 60 days of closure completion, BP shall submit a closure report on NMOCD's form C-144, and will include the following;
 - a. proof of closure notification (surface owner and NMOCD)
 - b. sampling analytical reports; information required by 19.15.17 NMAC;
 - c. disposal facility name and permit number
 - d. details on back-filling, capping, covering, and where applicable re-vegetation application rates and seeding techniques and
 - e. site reclamation, photo documentation.

 BP did not meet the 60 closure completion requirement due to an error in internal tracking. 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

State of New Mexico Energy Minerals and Natural Resources

Revised August 8, 2011

Form C-141

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notificati	on and Corrective Action									
	OPERATOR									
Name of Company: BP	Contact: Erin Garifalos									
Address: 200 Energy Court, Farmington, NM 87401	Telephone No.: 832-609-7048									
Facility Name: Fields Com LS #5A	Facility Type: Natural gas well									
Surface Owner: Federal Mineral Owner	r: Federal API No. 3004522461									
LOCATI	ON OF RELEASE									
Unit Letter Section Township Range Feet from the F 28 32N 11W 1,765 No	rth/South Line Feet from the East/West Line County: San Juan Feet from the Feet from the Feet from the Feet from the East/West Line County: San Juan Feet from the Feet									
Latitude 36.958556	° Longitude -107.997417°									
NATUR	E OF RELEASE									
Type of Release: none	Volume of Release: unknown Volume Recovered: N/A									
Source of Release: below grade tank – 21 bbl	Date and Hour of Occurrence: Date and Hour of Discovery: none									
Was Immediate Notice Given? ☐ Yes ☑ No ☐ Not Require	If YES, To Whom?									
By Whom?	Date and Hour									
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.									
If a Watercourse was Impacted, Describe Fully.*										
Describe Cause of Problem and Remedial Action Taken.* Sampling of Chlorides, BTEX, and TPH below BGT closure standards. Field repo	the soil beneath the BGT was done during removal. Soil analysis resulted for rts and laboratory results are attached.									
Describe Area Affected and Cleanup Action Taken.* No action necess	ary. Final laboratory analysis determined no remedial action is required.									
regulations all operators are required to report and/or file certain releas public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remed	the best of my knowledge and understand that pursuant to NMOCD rules and enotifications and perform corrective actions for releases which may endanger the NMOCD marked as "Final Report" does not relieve the operator of liability iate contamination that pose a threat to ground water, surface water, human health t does not relieve the operator of responsibility for compliance with any other									
Signature: Viin garifalos	OIL CONSERVATION DIVISION									
Printed Name: Erin Garifalos	Approved by Environmental Specialist:									
Title: Field Environmental Coordinator	Approval Date: Expiration Date:									
E-mail Address: erin.garifalos@bp.com	Conditions of Approval: Attached									
Date: September 18, 2017 Phone: 832-609-7048										
Attach Additional Sheets If Necessary	Please Submit-Final C-141 With analytical results. NVF 1730029024									
	With analytical results.									
	NVF1730029024									

bp



BP America Production Company 200 Energy Court Farmington, NM 87401

June 23, 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: FIELDS COM LS 005A

API#: 3004522461

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 June 29, 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 (505)-326-9497.

Sincerely,

Steven Moskal

BP America Production Company

Garifalos, Erin

From:

Buckley, Farrah (CH2M HILL)

Sent:

Friday, June 23, 2017 6:56 AM

To:

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

Cc:

'ieffcblagg@aol.com'; 'blagg niv@yahoo.com'; Moskal, Steven

Subject:

BP Pit Close Notification - FIELDS COM LS 005A

BP America Production Company

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

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

June 23, 2017

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

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

FIELDS COM LS 005A API 30-045-22461 (F) Section 28 – T32N – 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 close a 45bbl BGT and a 21bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around June 29, 2017.

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

Sincerely,

Steven Moskal BP Field Environmental Coordinator

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	NGINEERING, INC LOOMFIELD, NM 5) 632-1199		API #: 30045 TANK ID (if applicble):	22461 B
FIELD REPORT:	(circle one): BGT CONFIRMATION /	RELEASE INVESTIGATION / OT	THER:	PAGE #: 1	of 1
SITE INFORMATION QUAD/UNIT: F SEC: 28 TWP:	1: <u>SITE NAME:</u> FIELDS 32N RNG: 11W PM:	COM LS #5A NM CNTY: SJ	ST: NM	DATE STARTED: 0	7/05/17
1/4-1/4/FOOTAGE: 1,765'N / 1,5 LEASE #: NM010989	500'W SE/NW LEASE T PROD. FORMATION: MV CO	YPE: FEDERAL/STATE/I STRIKE ONTRACTOR: MBF-R.PG		ENVIRONMENTAL SPECIALIST(S):	NJV
REFERENCE POINT 1) 21 BGT (SW/DB) 2) 3)	WELL HEAD (W.H.) GPS GPS COORD.: GPS COORD.:	COORD.: 36.95829 058556 X 107.997417	DISTANCE/BEAL DISTANCE/BEAL	RING FROM W.H.: 111.	5', N4W
SAMPLING DATA: 1) SAMPLE ID:	CHAIN OF CUSTODY RECORD(S) # 0 11) - B SAMPLE DATE: SAMPLE DATE: SAMPLE DATE: SAMPLE DATE:	HALL	LAB ANALYSIS: 801 LAB ANALYSIS: LAB ANALYSIS: LAB ANALYSIS: LAB ANALYSIS:	15B/8021B/300.0 (CI)	OVM READING (ppm) NA
SOIL DESCRIPTION SOIL COLOR: DARK YEL COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY CONSISTENCY (NON COHESIVE SOILS): LC MOISTURE: DRY / SLIGHTLY MOIST / MOIST / W SAMPLE TYPE: GRAB / COMPOSITE - # DISCOLORATION/STAINING OBSERVED: YES / M SITE OBSERVATION APPARENT EVIDENCE OF A RELEASE OBSERVE	LOWISH ORANGE COHESIVE / COHESIVE / HIGHLY COHESIVE COSE FIRM DENSE / VERY DENSE ET / SATURATED / SUPER SATURATED OF PTS. EXPLANATION - LOST INTEGRITY OF EQUIPMENT:	PLASTICITY (CLAYS): NON PLASTIC DENSITY (COHESIVE CLAYS & SHOOD DETECTED: YES NO EASY AREAS DISPLAYING WETNESS YES NO EXPLANATION -	/SLIGHTLY PLASTIC / CO SILTS): SOFT / FIRM / EXPLANATION -	STIFF / VERY STIFF / HARD)
EQUIPMENT SET OVER RECLAIMED AREA: OTHER: NMOCD OR BLM NOT PRESEN EXCAVATION DIMENSION ESTIMATION: DEPTH TO GROUNDWATER: >100' N		ft. X NA ft. NEAREST SURFACE WATER:		FIMATION (Cubic Yards) :	NA
SITE SKETCH [21 (B) PBGTL	BGT Located : off on site	PLOT PLAN circle	e: attached OVM	CALIB. READ. = NA CALIB. GAS = NA : NA am/pm DATE:	ppm
T.B. ~ 6' B.G.	PROD. TANK	BERM	R VI P.	MISCELL. NO NO: EF#: P-825 ID: VHIXONEVI J#:	B2
	W.H. ⊕	X	O(Tan ID	CD Appr. date(s): 04	y /N
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATIC T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELO APPLICABLE OR NOT AVAILABLE; SW-SINGLE NOTES: GOOGLE EARTH IMAGE	ON DEPRESSION; B.G. = BELOW GRADE; B = BE OW-GRADE TANK LOCATION; SPD = SAMPLE PO E WALL; DW - DOUBLE WALL; SB - SINGLE BOTT	LOW; T.H. = TEST HOLE; ~ = APPROX.; W. DINT DESIGNATION; R.W. = RETAINING W	/H. = WELL HEAD; VALL; NA - NOT <u>M</u>	BGT Sidewalls Visible: Yagnetic declination:	

Analytical Report

Lab Order 1707166

Date Reported: 7/10/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

FIELDS COM LS 5A

Client Sample ID: 5PC-TB@6'(21)-B

Collection Date: 7/5/2017 2:30:00 PM

Lab ID: 1707166-002

Project:

Matrix: MEOH (SOIL) Recei

Received Date: 7/6/2017 7:35:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	30	mg/Kg	20	7/6/2017 12:05:05 PM	32655
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S			Analyst	TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/6/2017 9:32:58 AM	32650
Motor Oil Range Organics (MRO)	51	49	mg/Kg	1	7/6/2017 9:32:58 AM	32650
Surr: DNOP	111	70-130	%Rec	1	7/6/2017 9:32:58 AM	32650
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/6/2017 9:56:55 AM	32630
Surr: BFB	107	54-150	%Rec	1	7/6/2017 9:56:55 AM	32630
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	7/7/2017 3:41:48 PM	32652
Toluene	ND	0.048	mg/Kg	1	7/7/2017 3:41:48 PM	32652
Ethylbenzene	ND	0.048	mg/Kg	1	7/7/2017 3:41:48 PM	32652
Xylenes, Total	ND	0.097	mg/Kg	1	7/7/2017 3:41:48 PM	32652
Surr: 4-Bromofluorobenzene	130	66.6-132	%Rec	1	7/7/2017 3:41:48 PM	32652

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

C	nain-c	of-Cus	tody Record	Turn-Around	IIIIe:	SAME				L	A	11	E	NIV	TE	20	TARE	ME	NT	AI	
Client:	BLAG	G ENGR.	/ BP AMERICA	Standard Project Name		DAY				A	N	AL	Y	SIS	SL	A	-	RA	TC	4	_
Mailing A	ddress:	P.O. BO	X 87	FIE	LDS COM L	S # 5A		49	01 H	awk	ins	NE -	Alt	ouqu	ierq	ue, l	IMI	87109	9		
		BLOOM	FIELD, NM 87413	Project #:										To see	4 -7		410				
Phone #:		(505) 63	2-1199					Ŧ.					The second	ysis	No. of Lot		-			W.	
email or l				Project Mana	ger:	,	1	5.5			Fig.		1.1	-			11 5	7		T	
QA/QC Package: Standard Level 4 (Full Validation)			NELSON VI	ELEZ	80218)	(Aluo s	/MRO)		The second second	(5)		PO4,50.	/ 8082 PCB's			water - 300.1)			w l		
Accredita	tion:			Sampler:	NELSON VI	ELEZ 97V	38	Ga	/ DRO	F	Ŧ	8270SIMS)		102,	3082			/ wa			sample N)
D NELA	2	☐ Other		On Ice:	XYes	□ No	#	TPH	1/0	418.1)	504	8270	10	Osh			JA)	300.0 /			e sa
□ EDD (Type)			Sample Temp	perature: 4,3		4	BE +	GR	pou	pat	ō	etal	C,N	cide	FA	i-K	18.		e	(Y o
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	=41100 HEAL No. 1707166	BTEX +- WIF	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO	TPH (Method	EDB (Method 504.1)	PAH (8310	RCRA 8 Metals	Anions (F,CI,NO ₅ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil		de l	5 pt. composite sa Air Bubbles (Y or N)
7/8/17	1110	SOIL	EDC TR @ -1/451 A	401.1	Cool	GOL	1	7	A.T		- 1							4		1	4
	1110		- 5						77				0.1						+	+	+
7/5/17	1430	SOIL	5PC-TB@ 6 '(21)-B	4 oz 1	Cool	-002	٧		٧			-						٧		1	٧
												1 0		4				\vdash	+	+	
						-									7					7	
																			#	#	1
									l la											\pm	
					1												,			+	+
Date: 7/5/17	Time:	Relinquishe	he S	Received by:	hv-	Date Time 7 (6 (17 0735	Rem			& REF	EREP	VCE#	WHE	4 APP	LICA	BLE;	17	VITH CO	ORRES	POND	ING VID
Date:	Time:	Relinquishe	ed by:	Received by		Date Time		4	VID: ce#	VHD	KON	EVB2	2								5 54

Hall Environmental Analysis Laboratory, Inc.

WO#:

1707166 10-Jul-17

Client:

Blagg Engineering

Project:

FIELDS COM LS 5A

Sample ID MB-32655

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 32655

RunNo: 44023

Prep Date: 7/6/2017

Analysis Date: 7/6/2017

SeqNo: 1389461

Units: mg/Kg

HighLimit

RPDLimit

Qual

Analyte Chloride

Result PQL ND 1.5

Sample ID LCS-32655

SampType: Ics

RunNo: 44023

TestCode: EPA Method 300.0: Anions

Units: mg/Kg

Client ID: Prep Date:

LCSS 7/6/2017 Batch ID: 32655

Analysis Date: 7/6/2017

SeqNo: 1389462

SPK value SPK Ref Val %REC LowLimit

%RPD

%RPD

RPDLimit

Analyte

Result

SPK value SPK Ref Val %REC 1.5

Chloride

14

93.3

HighLimit

PQL

15.00

Qual

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- 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
- 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 3 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: 1

1707166 10-Jul-17

Client:

Blagg Engineering

Project:

FIELDS COM LS 5A

Project: FIELDS	COM LS 5A								
Sample ID MB-32650	SampType: N	IBLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch ID: 3	2650	F	RunNo: 4	4012				
Prep Date: 7/6/2017	Analysis Date:	7/6/2017	5	SeqNo: 1	387850	Units: mg/k	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10		0.111101101	701120			70111		
Motor Oil Range Organics (MRO)	ND 50)							
Surr: DNOP	10	10.00		104	70	130			
Sample ID LCS-32650 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: LCSS	Batch ID: 3	2650	F	RunNo: 4	4012				
Prep Date: 7/6/2017	Analysis Date:	7/6/2017	S	SeqNo: 1	387854	Units: mg/k	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48 10	50.00	0	96.5	73.2	114			
Surr: DNOP	5.0	5.000		101	70	130			
Sample ID 1707166-001AMS	SampType: N	IS	Tes	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: 5PC-TB@5'(45)-A	Batch ID: 3	2650	F	RunNo: 44	4012				
Prep Date: 7/6/2017	Analysis Date:	7/6/2017	S	SeqNo: 13	388176	Units: mg/k	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56 9.7	48.50	3.520	108	55.8	122			
Surr: DNOP	5.1	4.850		105	70	130			
Sample ID 1707166-001AMS	SampType: M	ISD	Tes	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: 5PC-TB@5'(45)-A	Batch ID: 3:	2650	F	RunNo: 44	4012				
Prep Date: 7/6/2017	Analysis Date: 7	7/6/2017	S	SeqNo: 1	388177	Units: mg/K	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51 10	49.75	3.520	94.8	55.8	122	10.1	20	
Surr: DNOP	5.1	4.975		103	70	130	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Page 4 of 6

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1707166 10-Jul-17

Client:

Blagg Engineering

Project:

FIELDS COM LS 5A

Sample ID MB-32630	SampT	mpType: MBLK TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch	ID: 32	630	RunNo: 44020						
Prep Date: 7/5/2017	Analysis D	ate: 7/	6/2017	5	SeqNo: 1	388606	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	1100		1000		106	54	150			
Sample ID LCS-32630	SampType: LCS TestCode: EPA Method 8015D: Gasoline Range									
Client ID: LCSS	Batch	ID: 32	630	F	RunNo: 4	4020				
Prep Date: 7/5/2017	Analysis Da	ate: 7/	6/2017	S	SeqNo: 1	388607	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.2	76.4	125			
Surr: BFB			4000		447	E 4	450			
Suil. BFB	1200		1000		117	54	150			
Sample ID MB-32652	1200 SampTy	ype: ME		Tes			8015D: Gaso	line Rang	e	

Prep Date: 7/6/2017	Analysis Date: 7/7/2017	SeqNo: 1390847	Units: %Rec			
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual		
Surr: BFB	990 1000	99.3 54	150			
Sample ID LCS-32652	SampType: LCS TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Ratch ID: 32652 PunNo: 44055					

Sample ID	LU3-32032	Samprype	LUS	168	sicoue.	EPA Wethou	0015D. G	asoline Rang	е	
Client ID:	LCSS	Batch ID:	32652	F	RunNo:	44055				
Prep Date:	7/6/2017	Analysis Date:	7/7/2017	;	SeqNo:	1390848	Units: %	Rec		
Analyte		Result P	QL SPK valu	e SPK Ref Val	%REC	LowLimit	HighLim	nit %RPD	RPDLimit	Qual
Surr: BEB		1100	100	10	113	54	15	50		

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 5 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1707166

10-Jul-17

Client:

Blagg Engineering

Project:

FIELDS COM LS 5A

Sample ID LCS-32652	SampT	Type: LCS TestCode: EPA Method 8021B: Volatiles								
Surr: 4-Bromofluorobenzene	1.3		1.000		129	66.6	132			
Xylenes, Total	ND	0.10								
Ethylbenzene	ND	0.050								
Toluene	ND	0.050								
Benzene	ND	0.025								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Prep Date: 7/6/2017	Analysis Date: 7/7/2017 SeqNo: 1390864		alysis Date: 7/7/2017 SeqNo: 1390864 Units:		SeqNo: 1390864		Units: mg/Kg			
Client ID: PBS	Batch	1D: 32	652	RunNo: 44055						
Sample ID MB-32652	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							

	1 21									
Client ID: LCSS	Batch	1D: 32	652	R	tunNo: 4	4055				
Prep Date: 7/6/2017	Analysis D	ate: 7/	7/2017	S	eqNo: 1	390865	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	106	80	120			
Toluene	1.1	0.050	1.000	0	106	80	120			
Ethylbenzene	1.1	0.050	1.000	0	107	80	120			
Xylenes, Total	3.3	0.10	3.000	0	110	80	120			
Surr: 4-Bromofluorobenzene	1.3		1.000		130	66.6	132			

Sample ID MB-32630	SampTyp	e: ME	BLK	TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch II): 32	32630 RunNo: 44055								
Prep Date: 7/5/2017	Analysis Date	e: 7 /	7/2017	5	SeqNo:	1390879	Units: %Red	:			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 4-Bromofluorobenzene	1.3		1.000		126	66.6	132				

Sample ID LCS-32630	SampType	: LCS	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID	32630	RunNo: 44055						
Prep Date: 7/5/2017 Analysis Date: 7/7/2017			S	eqNo: 1	390880	Units: %Re	С		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.3	1.000		132	66.6	132			S

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 6 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG	Work Order Numbe	er: 1707166		RcptNo:	1
Received By: Andy Jansson	7/6/2017 7:35:00 AM		myron		
Completed By: Andy Jansson	7/6/2017 7:44:20 AM		my now		
Reviewed By:	7/6/17				
Chain of Custody					
1. Custody seals intact on sample bottles?		Yes	No 🗌	Not Present 🗹	
2. Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present	
3. How was the sample delivered?		Courier			
Log In					
4. Was an attempt made to cool the sample	s?	Yes 🗹	No 🗆	NA 🗆	
5. Were all samples received at a temperature	re of >0° C to 6.0°C	Yes 🗸	No 🗆	NA 🗆	
6. Sample(s) in proper container(s)?		Yes 🗹	No 🗆		
7. Sufficient sample volume for indicated tes	t(s)?	Yes 🗸	No 🗆		
8. Are samples (except VOA and ONG) prop	erly preserved?	Yes 🗹	No 🗌		
9. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗆	
10.VOA vials have zero headspace?		Yes	No 🗆	No VOA Vials	
11. Were any sample containers received bro	ken?	Yes	No 🗹	# of preserved	
12. Does paperwork match bottle labels?		Yes 🗹	No 🗔	bottles checked for pH:	
(Note discrepancies on chain of custody)				201 100 M	>12 unless noted)
13. Are matrices correctly identified on Chain	of Custody?	Yes 🗹	No 🗆	Adjusted?	
14. Is it clear what analyses were requested?		Yes 🗹	No U	Charled by	
15. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗸	No L	Checked by:	
Special Handling (If applicable)					
16. Was client notified of all discrepancies with	h this order?	Yes	No 🗆	NA 🗹	
Person Notified:	Date		***************************************		
By Whom:	Via:	eMail F	Phone Fax	in Person	
Regarding:				7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
Client Instructions:		3200 (278-4-1230) (4-120) (4-1	2 CONTRACTOR OF THE PROPERTY O	AND THE CONTROL OF THE PROPERTY OF THE PROPERT	
17. Additional remarks:					
18. Cooler Information		-			
	Seal Intact Seal No	Seal Date	Signed By		
1 4.1 Good Y	es		ı		



