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
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 Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator: BP America Production Company OGRID #: 778
Operator: BP America Production Company OGRID #: 778 Address: 200 Energy Court, Farmington, NM 87401
Facility or well name: JAQUEZ GC A 001A
API Number: 3004522296 OCD Permit Number:
API Number: 3004522296 OCD Permit Number: U/L or Qtr/Qtr O Section 05 Township 29N Range 09W County: San Juan
00.75000
Center of Proposed Design: Latitude 36.75806 Longitude -107.80942 NAD83 Surface Owner: Federal State Private Tribal Trust or Indian Allotment OIL CONS. DIV DIST. 3
2. □ Pit: Subsection F, G or J of 19.15.17.11 NMAC DEC 2 2 2017
Temporary: Drilling Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management ☐ Low Chloride Drilling Fluid ☐ yes ☐ no
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other
☐ String-Reinforced
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
3.
Below-grade tank: Subsection I of 19.15.17.11 NMAC
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 visible
Liner type: Thicknessmil

5.

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)

Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)

Four foot height, four strands of barbed wire evenly spaced between one and four feet

Alternate. Please specify______

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

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Alternative Method:

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

Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit Non-low chloride drilling fluid	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Permanent Pit or Multi-Well Fluid Management Pit	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).	
- Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N. Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.1 and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	numents are
11. Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc	uments 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. and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	15.17.9 NMAC

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the	documents are
attached. ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC ☐ Climatological Factors Assessment ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Quality Control/Quality Assurance Construction and Installation Plan ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC ☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Nuisance or Hazardous Odors, including 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 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 closure plan. Please indicate, by a check mark in the box, that the documents are attached. □ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC □ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC □ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) □ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC □ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
15	
15. Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Fig. 15.17.10 NMAC for guidance.	
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 300 feet of a wetland.	
US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

 adopted pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality; Written approval obtained from the municipality 	
- Written committation of vermeation from the mannerparty, written approval contained from the mannerparty	☐ Yes ☐ No
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ☐ No
Within a 100-year floodplain FEMA map	Yes No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17. Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot 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
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 believe	ef.
Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	
OCD Approval: Permit Application (including closure plan) Closure Plan (only). OCD Conditions (see attachment)	
OCD Representative Signature: Approval Date: 1212	16/2017
Title: - Nikanner 2 Decalist OCD Permit Number:	•
The: Chord the Col Perint 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. Closure Completion Date: 10/26/2017	
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.	complete this

22.	
Operator Closure Certification:	
	his closure report is true, accurate and complete to the best of my knowledge and ure requirements and conditions specified in the approved closure plan.
Name (Print): Erin Garifalos	Title: Field Environmental Coordinator
Signature: Utin garifialos	Date: December 19, 2017
e-mail address: erin.garifalos@bp.com	Telephone: (832) 609-7048

BP AMERICA PRODUCTION COMPANY SAN JUAN BASIN, NORTHWEST NEW MEXICO

JAQUEZ GC A 001A API No. 3004522296

BELOW-GRADE TANK CLOSURE PLAN

Unit Letter O Section 05 T 29N R 09W

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

General Closure Plan

1. BP shall notify the surface owner by certified mail that it plans to close a BGT. Evidence of mailing of the notice to the address of the surface owner shown in the county tax records demonstrates compliance with this requirement.

Notice is attached.

2. BP shall notify the division District III office verbally or by other means at least 72 hours, but not more than one (1) week, prior to any closure operation. The notice shall include the operator's name, and the location to be closed by unit letter, section, township and range. If the BGT closure is associated with a particular well, then the notice shall also include the well's name, number and API number.

Notice was provided and is attached.

- 3. BP shall remove liquids and sludge from the BGT prior to implementing a closure method and dispose of the liquids and sludge in a NMOCD's division-approved facility. The facilities to be used are:
 - a. BP Crouch Mesa Landfarm, Permit NM-02-003 (Solids)
 - b. JFJ Landfarm, Permit NM-01-010(B) (Solids and Sludge)
 - c. Basin Disposal, Permit NM-01-0005 (Liquids)
 - d. Envirotech Inc Soil Remediation Facility, Permit NM-01-0011 (Solids and Sludge)
 - e. BP Operated E.E. Elliott SWD #1, API 30-045-27799 (Liquids)

- f. BP Operated 13 GCU SWD #1, API 30-045-28601 (Liquids)
- g. BP Operated GCU 259 SWD, API 30-045-20006 (Liquids)
- h. BP Operated GCU 306 SWD, API 30-045-24286 (Liquids)
- i. BP Operated GCU 307 SWD, API 30-045-24248 (Liquids)
- j. BP Operated GCU 328 SWD, API 30-045-24735 (Liquids)
- k. BP Operated Pritchard SWD #1, API 30-045-28351 (Liquids)

All liquids and sludge in the BGT were removed and sent to one of the above NMOCD approved facilities for disposal.

4. BP shall remove the BGT and dispose of it in a NMOCD approved facility or recycle, reuse, or reclaim it in a manner that the NMOCD approves. If a liner is present and must be disposed of it will be cleaned by scraping any soils or other attached materials on the liner to a de minimus amount and disposed at a permitted solid waste facility, pursuant to Subparagraph (m) of Paragraph (1) of Subsection C of 19.15.35.8 NMAC. Documentation as to the final disposition of the removed BGT will be provided in the final closure report.

The BGT was transported for recycling.

5. BP shall remove any on-site equipment associated with a BGT unless the equipment is required for well production.

All equipment associated with the BGT has been removed.

6. BP shall test the soils beneath the BGT to determine whether a release has occurred. BP shall collect at a minimum: a five (5) point composite sample and individual grab samples from any area that is wet, discolored or showing other evidence of a release and analyze for BTEX, TPH and chlorides. The testing methods for those constituents are as follows;

Constituents	Testing Method	Release Verification	Sample
	95 bbl BGT	(mg/Kg)	results
Benzene	US EPA Method SW-846 8021B or 8260B	10	< 0.020
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.082
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.

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

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

Sampling results indicate a release has not occurred. Attached is a laboratory report and C-141.

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

Sampling results indicate a release has not occurred. Attached is a laboratory report and field report. The location will be reclaimed when the well is plugged and abandoned.

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

The area has been backfilled and a 105 BBL shallow low profile above-grade tank set atop BGT location. The location will be reclaimed once the well is plugged and abandoned.

11. The soil cover for closures where the BGT has been removed or remediated to the NMOCD's satisfaction shall consist of the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater. The soil cover will be constructed to the site's existing grade and all practicable efforts will be made to prevent ponding of water and erosion of the cover material.

The area has been backfilled and a 105 BBL shallow low profile above-grade tank set atop BGT location. The location will be reclaimed once the well is plugged and abandoned.

12. BP shall seed the disturbed area the first growing season after closure of the BGT. Seeding will be accomplished by drilling on the contour whenever practical or by other division-approved methods. Vegetative cover will be, at a minimum, 70% of the native perennial vegetative cover (un-impacted by overgrazing, fire or other intrusion damaging to native vegetation), consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintenance of that cover through two successive growing seasons. During the two growing seasons that prove viability, there shall be no artificial irrigation of the vegetation.

The area has been backfilled and a 105 BBL shallow low profile above-grade tank set atop BGT location. The location will be reclaimed once the well is plugged and abandoned.

13. BP shall seed, plant and re-seed pursuant to Paragraph (3) of Subsection I of 19.15.17.13 NMAC, until the location successfully achieves the required vegetative cover.

The area has been backfilled and a 105 BBL shallow low profile above-grade tank set atop BGT location. The location will be reclaimed once the well is plugged and abandoned.

14. Pursuant to Paragraph (5) of Subsection I of 19.15.17.13 NMAC, BP shall notify the NMOCD when it has seeded or planted and when it successfully achieves revegetation.

The area has been backfilled and a 105 BBL shallow low profile above-grade tank set atop BGT location. The location will be reclaimed once the well is plugged and abandoned.

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

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

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

Certification section of C-144 has been completed.

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

State of New Mexico Energy Minerals and Natural Resources

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

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

Form C-141 Revised April 3, 2017

			Rele	ease Notific	eatior	and Co	rrective A	ction	1	
						OPERA	ГOR		Initia	al Report 🔳 Final Report
		America Produc		ny		Contact Erin				
Facility Nar		t, Farmington, N	M 87401			_	No. (832) 609-7048 e: Natural Gas Wel	II.		
		donom		100			e Haiarar dao 1101		ADVAL	
Surface Ow	ner: Fee			Mineral ()wner: F	Fee			API No	.3004522296
						OF RE				
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the		West Line	San Juan
O	05	29N		1,100	Nor	tn	1,000	We	Sī	Sali Juali
			Latitud	_e 36.75806	Lo	ongitude -1	07.80942	NAD	83	
						OF REL				
Type of Rele	ase:: none)					Release:: unkno			Recovered:: N/A
Source of Re	lease: belo	w grade ta	nk - 95	bbl		Date and Final	Iour of Occurrence	e:	Date and n/a	Hour of Discovery:
Was Immedia		Given?				If YES, To	Whom?			
D 1111 0			Yes ✓	No Not R	equired					
By Whom? Was a Water	course Reac	ched?				Date and H	lour lume Impacting t	he Wat	ercourse.	
			Yes 🗸	No			anne ampue amg e			
If a Watercou	rse was Im	pacted, Descr	ibe Fully.*	:						
	CD 111	1.0								
Describe Cau	se of Proble	em and Reme	dial Action	Sam Soil a	analys	is resulte	d for Chlorid	les, E	STEX, an	ne during removal. Id TPH below BGT ry results are attached.
Describe Are	a Affected	and Cleanup A	Action Tak	No actio		essary. F on is requ		ory a	nalysis d	determined no
regulations al public health should their o	l operators or the envir perations h ment. In a	are required to ronment. The ave failed to a ddition, NMC	acceptance acceptance adequately OCD accep	d/or file certain r e of a C-141 repo investigate and r	elease no ort by the emediate	otifications are NMOCD made contamination	nd perform correct arked as "Final Ro on that pose a thre	tive act eport" of eat to g	ions for rele loes not reli round water	uant to NMOCD rules and eases which may endanger eve the operator of liability , surface water, human health ompliance with any other
							OIL CONS	SERV	ATION	DIVISION
Signature:	run g	Willald	4							
Signature:	Erin G	arifalos			1	Approved by	Environmental S ₁	pecialis	t:	
Title: Field				rdinator	1	Approval Dat	e:		Expiration I	Date:
E-mail Addre	ss: erin.	garifalos	@bp.	com	(Conditions of	Approval:			Attached
Date: Decem	nber 19, 20	017	Phone:	(832) 609-7048						_

^{*} Attach Additional Sheets If Necessary

bp



BP America Production Company 380 Airport Road Durango, CO 81303

October 20, 2017

Henrietta Hays 2483 N Strawberry Way Flagstaff, AZ 86004-7614

Re: Notification of plans to close/remove a below grade tank Well Name: JAQUEZ GC A 001A

To Whom it May Concern,

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 October 24, 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.

Sincerely,

Erin Garifalos

BP America Production Company

From:

Buckley, Farrah (CH2M HILL)

To:

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

Cc:

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

Subject: Date: BP Pit Close Notification - JAQUEZ GC A 001A Friday, October 20, 2017 12:07:03 PM

BP America Production Company

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

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

October 20, 2017

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

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

JAQUEZ GC A 001A API 30-045-22296 (D) Section 5– T29N – 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 October 24, 2017.

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

Sincerely,

Erin Garifalos

Field Environmental Coordinator - San Juan

Cell: 832-609-7048

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

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

CLIENT: BP	P.O. BOX 87, B	NGINEERING, INC LOOMFIELD, NM		API #: 300452	
	(50	5) 632-1199		(if applicble):	4
FIELD REPORT:	(circle one): BGT CONFIRMATION	/ RELEASE INVESTIGATION / OTH	HER:	PAGE #:	of
SITE INFORMATION	I: SITE NAME: JAQUE	Z GC A #1A		DATE STARTED: 10/	24/17
QUAD/UNIT: 0 SEC: 5 TWP:	29N RNG: 9W PM:	NM CNTY: SJ	ST: NM	DATE FINISHED:	
1/4-1/4/FOOTAGE: 1,100'N / 1,0		TYPE: FEDERAL/STATE F	EE/ INDIAN	ENVIRONMENTAL	
LEASE #:	PROD. FORMATION: MV C	ONTRACTOR: BP - J. GON	IZALES	SPECIALIST(S):	IJV
REFERENCE POINT		36.75816			
1) 95 BGT (SW/DB)	GPS COORD.: 36	5.75806 X 107.80942	DISTANCE/BEA	RING FROM W.H.: 110', S	69.5W
2)	GPS COORD.:		DISTANCE/BEA	RING FROM W.H.:	
3)				RING FROM W.H.:	
	GPS COORD.:		DISTANCE/BEA	RING FROM W.H.:	OVM
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # (READING (ppm)
1) SAMPLE ID: 5PC - TB @ 5' 2) SAMPLE ID:			AB ANALYSIS: 801	15B/8021B/300.0 (CI)	NA
SAMPLE ID:			AB ANALYSIS:		
4) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME: LA	AB ANALYSIS:		
5) SAMPLE ID:		SAMPLE TIME: LA			
SOIL DESCRIPTION		SILT / SILTY CLAY / CLAY / GRAVEL /	OTHER ROAD E	BASE GRAVEL BENEATH E	BGT.
SOIL COLOR: MODE	RATE BROWN	PLASTICITY (CLAYS): NON PLASTIC /	SLIGHTLY PLASTIC / C	OHESIVE / MEDIUM PLASTIC / HIG	
COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY CONSISTENCY (NON COHESIVE SOILS): LC		DENSITY (COHESIVE CLAYS & SIL HC ODOR DETECTED: YES NO EX			
MOISTURE: DRY/SLIGHTLY MOIST MOIST/W		HC ODOK DETECTED: TESTINO E	XPLANATION -		
SAMPLE TYPE: GRAB COMPOSITE #	OF PTS5	ANY AREAS DISPLAYING WETNESS:	YES NO EXPLAN	NATION -	
DISCOLORATION/STAINING OBSERVED: YES			-		
SITE OBSERVATION					
APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA:			BOVE-GRADE TAI	NK TO BE SET ATOP BGT	LOCATION.
OTHER: NMOCD REP. NOT PRESENT TO	MINESS CONFIRMATION SAM	PLING.	JOYL-OIVIDE IV	MICTO DE GET ATOT EG.	LOGATION
EXCAVATION DIMENSION ESTIMATION:	NA ft. X NA	ft. X NA ft.	FXCAVATION EST	FIMATION (Cubic Yards) :	NA
	EAREST WATER SOURCE: >1,000			,	00 ppm
SITE SKETCH	BGT Located: off on sit				
					ppm RF =1.00
		⊕ W.H.	NTTIME		NA
	DDEN W.	¥¥.11.	141	MISCELL. NO	
			\ \ \		IES
FENCE	To a second	SEPARATOR	_	/O: EF #: P-892	
\	(x x x)			ID: VHIXONEV11	
1				J#:	
PROD. TANK	PE	GTL	-		4/10
		. ~ 5' .G.	0	CD Appr. date(s): 08/2	29/17
BERM			Tar ID		eter
	COMPRESSOR		Α	<u> </u>	N
		X	- S.P.D.	BGT Sidewalls Visible: Y /	
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATIO		ELOW; T.H. = TEST HOLE; ~ = APPROX.; W.H	H. = WELL HEAD;	BGT Sidewalls Visible: Y /	
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BEL APPLICABLE OR NOT AVAILABLE; SW - SINGLE			ALL; NA - NOT <u>M</u>	lagnetic declination: 10) E
NOTES: GOOGLE EARTH IMAGE		ONSITE: 10/24/17			

Analytical Report

Lab Order 1710C93

Date Reported: 10/26/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

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

Project: Jaquez GC A 1A

Collection Date: 10/24/2017 2:45:00 PM

Lab ID: 1710C93-001

Matrix: MEOH (SOIL) Received Date: 10/25/2017 8:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	30	mg/Kg	20	10/25/2017 9:51:46 AM	34619
EPA METHOD 8015D MOD: GASOLIN	E RANGE				Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	10/25/2017 1:22:34 PM	G46636
Surr: BFB	85.1	70-130	%Rec	1	10/25/2017 1:22:34 PM	G46636
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	10/25/2017 11:22:55 Al	M 34618
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/25/2017 11:22:55 Al	M 34618
Surr: DNOP	77.0	70-130	%Rec	1	10/25/2017 11:22:55 Al	M 34618
EPA METHOD 8260B: VOLATILES SH	ORT LIST				Analyst	DJF
Benzene	ND	0.020	mg/Kg	1	10/25/2017 1:22:34 PM	34583
Toluene	ND	0.041	mg/Kg	1	10/25/2017 1:22:34 PM	34583
Ethylbenzene	ND	0.041	mg/Kg	1	10/25/2017 1:22:34 PM	34583
Xylenes, Total	ND	0.082	mg/Kg	1	10/25/2017 1:22:34 PM	34583
Surr: 1,2-Dichloroethane-d4	100	70-130	%Rec	1	10/25/2017 1:22:34 PM	34583
Surr: 4-Bromofluorobenzene	87.9	70-130	%Rec	1	10/25/2017 1:22:34 PM	34583
Surr: Dibromofluoromethane	106	70-130	%Rec	1	10/25/2017 1:22:34 PM	34583
Surr: Toluene-d8	101	70-130	%Rec	1	10/25/2017 1:22:34 PM	34583

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
- Analyte detected below quantitation limits Page 1 of 5 J
- Sample pH Not In Range P
- RL Reporting Detection Limit
 - Sample container temperature is out of limit as specified

Cr	nain-c	of-Cus	stody Record	Turn-Around	Time:	SAME	١.				AL			M	/T 5	20	NI	ME	NI	ra!	`
Client: BLAGG ENGR. / BP AMERICA		☐ Standard	☑ Rush _	DAY			H									R/					
				Project Name											nme						-
Mailing Ad	dress:	P.O. BO	X 87	JA	QUEZ GC	4 # 1A		49	01 F									37109	9		
		BLOOM	FIELD, NM 87413	Project #:			1			05-3				-	505						
Phone #:		(505) 63	32-1199									-	Anal	ysis	Red	ques	st	17	71	feli	1
email or Fa	ax#:			Project Manag	ger:													1)			П
QA/QC Pac	kage:				NELSON V	FLF7	(B)	2	MRO)					200,	PCB's			300.1)			
✓ Standa	ard		Level 4 (Full Validation)				(8021B)	s on	-			MS)		04	2 PC			ter-			<u>e</u>
Accreditation:		Sampler:	NELSON V	ELEZ 97V) sign	(Ga	8	(1)	1)	OSI		NO2	808			/ wa			amp		
□ NELAP		□ Other		On Ice		, No	1	THE	0/1	418	504	827	S	03,	es/		OA)	300.0			te s
□ EDD (T	ype)			Sample Remp	erature 1-4 +		1	BE +	(GR	hod	hod	Oor	etal	CL	icid	P	N-i-V	oil-		ble	posi
Date	Time	Matrix	Sample Request iD	Container Type and #	Preservative Type	以为2000年2月2日的中国的1000年2月2日中国的1000年2月2日 1000年2月2日日 - 1000年2月2日 - 1000年2月1日 - 100	BTEX +**	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0 / water		Grab sample	5 pt. composite sample
10/24/17	1445	SOIL	5PC - TB @ 5 1 (95)	4 oz 1	Cool	-001	V	_	٧			_	-		55	-		٧	\neg		V
	1710					1															
				1																	+
									-					\vdash							-
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																-					
10/24/17	Time:	Relinquish	Mny	Received by:	Was	Date Time			ACT:		FEREI	RIFA	WHE	N API	PLICA	BLE;		VITH C	CORRE	SPON	DING
ohula	1921	Mh	A COLL Submitted to Hall Environmental may be:	Sophi C		25/17 0800		feren	ice#	_	P-	892	_								

Hall Environmental Analysis Laboratory, Inc.

WO#:

1710C93

26-Oct-17

Client:

Blagg Engineering

Project:

Jaquez GC A 1A

Sample ID MB-34619

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

Batch ID: 34619

RunNo: 46627

Prep Date:

10/25/2017

Analysis Date: 10/25/2017 PQL

SeqNo: 1486632

Units: mg/Kg

SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit**

Qual

Analyte Chloride

Result

ND

TestCode: EPA Method 300.0: Anions

Sample ID LCS-34619 LCSS

SampType: Ics

RunNo: 46627

Prep Date: 10/25/2017

Analysis Date: 10/25/2017

SeqNo: 1486633

Units: mg/Kg

HighLimit

RPDLimit

Chloride

14

1.5

Batch ID: 34619

90

PQL

0

110

Qual

15.00

96.0

%RPD

Client ID:

SPK value SPK Ref Val

%REC

Η

Qualifiers: Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Holding times for preparation or analysis exceeded

Analyte detected in the associated Method Blank E Value above quantitation range

Analyte detected below quantitation limits P Sample pH Not In Range

RL Reporting Detection Limit Sample container temperature is out of limit as specified Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1710C93

26-Oct-17

Client:

Blagg Engineering

Project:

Jaquez GC A 1A

Sample ID LCS-34618	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: LCSS	Batch	n ID: 34	618	F	RunNo: 4	6629				
Prep Date: 10/25/2017	Analysis D	Date: 10	0/25/2017	8	SeqNo: 1	485341	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.5	73.2	114			
Surr: DNOP	4.0		5.000		79.6	70	130			
Sample ID MB-34618	SampT	уре: МЕ	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	n ID: 34	618	F	RunNo: 4	6629				
Prep Date: 10/25/2017	Analysis D	oate: 10	0/25/2017	8	SeqNo: 1	485342	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.5		10.00		74.6	70	130			
Sample ID 1710C93-001AM	S SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics									

Sample id 1710c93-001AMS SampType. MS							PA Wethod	9019M/D; DI	eser Kang	organics	
Client ID:	5PC-TB@5'(95)	Batch	ID: 34	618	R	tunNo: 4	6629				
Prep Date:	10/25/2017	Analysis Da	ate: 10	10/25/2017 SeqNo: 1486088 Units: mg/Kg							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	49	10	50.25	0	98.1	55.8	122			
Surr: DNOP		4.1		5.025		82.3	70	130			

Sample ID	1710C93-001AMS	Samply	e: M	SD	les	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	5PC-TB@5'(95)	Batch I	D: 34	618	F	RunNo: 4	6629				
Prep Date:	10/25/2017	Analysis Dat	e: 1	0/25/2017	8	SeqNo: 1	486089	Units: mg/h	⟨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	49	9.7	48.36	0	102	55.8	122	0.0511	20	
Surr: DNOP		4.1		4.836		85.0	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
- % 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
- P
- Sample pH Not In Range Reporting Detection Limit
- Sample container temperature is out of limit as specified

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

0.50

0.43

0.46

0.51

0.5000

0.5000

0.5000

0.5000

WO#:

1710C93

26-Oct-17

Client:

Blagg Engineering

Project:

Surr: 1.2-Dichloroethane-d4

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

Jaquez GC A 1A

Benzene													
Prep Date: 10/24/2017 Analysis Date: 10/25/2017 SeqNo: 1486152 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit 0 Benzene ND 0.025	Sample ID mb-34583	SampType:	MBLK	Tes	tCode: El	PA Method	8260B: Volat	tiles Shor	t List				
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit 0 Benzene ND 0.025 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 Surr: 1,2-Dichloroethane-d4 0.50 0.5000 99.8 70 130 Surr: 2-Bromofluorobenzene 0.44 0.5000 88.0 70 130 Surr: Dibromofluoromethane 0.53 0.5000 106 70 130 Surr: Toluene-d8 0.51 0.5000 102 70 130 Sample ID Ics-34583 SampType: LCS TestCode: EPA Method 8260B: Volatiles Short List Client ID: LCSS Batch ID: 34583 RunNo: 46636 Prep Date: 10/24/2017 Analysis Date: 10/25/2017 SeqNo: 1486153 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit 0 Benzene 0.96 0.025 1.000 0 95.9 70 130	Client ID: PBS	PBS Batch ID: 34583				RunNo: 46636							
Renzene	Prep Date: 10/24/2017	Analysis Date:	SeqNo: 1486152			Units: mg/Kg							
Toluene	Analyte	Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 Surr: 1,2-Dichloroethane-d4 0.50 0.5000 99.8 70 130 Surr: 4-Bromofluorobenzene 0.44 0.5000 88.0 70 130 Surr: Dibromofluoromethane 0.53 0.5000 106 70 130 Surr: Toluene-d8 0.51 0.5000 102 70 130 Sample ID Ics-34583 SampType: LCS TestCode: EPA Method 8260B: Volatiles Short List Client ID: LCSS Batch ID: 34583 RunNo: 46636 Prep Date: 10/24/2017 Analysis Date: 10/25/2017 SeqNo: 1486153 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit of Benzene 0.96 0.025 1.000 0 95.9 70 130	Benzene	ND 0.0	25										
Xylenes, Total ND 0.10 Surr: 1,2-Dichloroethane-d4 0.50 0.5000 99.8 70 130 Surr: 4-Bromofluorobenzene 0.44 0.5000 88.0 70 130 Surr: Dibromofluoromethane 0.53 0.5000 106 70 130 Surr: Toluene-d8 0.51 0.5000 102 70 130 Sample ID Ics-34583 SampType: LCS TestCode: EPA Method 8260B: Volatiles Short List Client ID: LCSS Batch ID: 34583 RunNo: 46636 Prep Date: 10/24/2017 Analysis Date: 10/25/2017 SeqNo: 1486153 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit of the policy of the polic	Toluene	ND 0.0	50										
Surr: 1,2-Dichloroethane-d4 0.50 0.5000 99.8 70 130 Surr: 4-Bromofluorobenzene 0.44 0.5000 88.0 70 130 Surr: Dibromofluoromethane 0.53 0.5000 106 70 130 Surr: Toluene-d8 0.51 0.5000 102 70 130 Sample ID Ics-34583 SampType: LCS TestCode: EPA Method 8260B: Volatiles Short List Client ID: LCSS Batch ID: 34583 RunNo: 46636 Prep Date: 10/24/2017 Analysis Date: 10/25/2017 SeqNo: 1486153 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Colspan="6">RPDLimit Colspan="6">Colspa	Ethylbenzene	ND 0.0	50										
Surr: 4-Bromofluorobenzene 0.44 0.5000 88.0 70 130 Surr: Dibromofluoromethane 0.53 0.5000 106 70 130 Surr: Toluene-d8 0.51 0.5000 102 70 130 Sample ID Ics-34583 SampType: LCS TestCode: EPA Method 8260B: Volatiles Short List Client ID: LCSS Batch ID: 34583 RunNo: 46636 Prep Date: 10/24/2017 Analysis Date: 10/25/2017 SeqNo: 1486153 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit ORD Benzene 0.96 0.025 1.000 0 95.9 70 130	Xylenes, Total	ND 0	.10										
Surr: Dibromofluoromethane 0.53 0.5000 106 70 130 Surr: Toluene-d8 0.51 0.5000 102 70 130 Sample ID Ics-34583 SampType: LCS TestCode: EPA Method 8260B: Volatiles Short List Client ID: LCSS Batch ID: 34583 RunNo: 46636 Prep Date: 10/24/2017 Analysis Date: 10/25/2017 SeqNo: 1486153 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit ORD Benzene 0.96 0.025 1.000 0 95.9 70 130	Surr: 1,2-Dichloroethane-d4	0.50	0.5000		99.8	70	130						
Surr: Toluene-d8 0.51 0.5000 102 70 130 Sample ID Ics-34583 SampType: LCS TestCode: EPA Method 8260B: Volatiles Short List Client ID: LCSS Batch ID: 34583 RunNo: 46636 Prep Date: 10/24/2017 Analysis Date: 10/25/2017 SeqNo: 1486153 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit One of the properties	Surr: 4-Bromofluorobenzene	0.44	0.5000		88.0	70	130						
Sample ID Ics-34583 SampType: LCS TestCode: EPA Method 8260B: Volatiles Short List Client ID: LCSS Batch ID: 34583 RunNo: 46636 Prep Date: 10/24/2017 Analysis Date: 10/25/2017 SeqNo: 1486153 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit C Benzene 0.96 0.025 1.000 0 95.9 70 130	Surr: Dibromofluoromethane	0.53	0.5000		106	70	130						
Client ID: LCSS Batch ID: 34583 RunNo: 46636 Prep Date: 10/24/2017 Analysis Date: 10/25/2017 SeqNo: 1486153 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit C Benzene 0.96 0.025 1.000 0 95.9 70 130	Surr: Toluene-d8	0.51	0.5000		102	70	130						
Prep Date: 10/24/2017 Analysis Date: 10/25/2017 SeqNo: 1486153 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit 0 Benzene 0.96 0.025 1.000 0 95.9 70 130	Sample ID Ics-34583 SampType: LCS TestCode: EPA Method 8260B: Volatiles Short List												
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit 0 Benzene 0.96 0.025 1.000 0 95.9 70 130	Client ID: LCSS	Batch ID:	34583	RunNo: 46636									
Benzene 0.96 0.025 1.000 0 95.9 70 130	Prep Date: 10/24/2017	Analysis Date: 10/25/2017 SeqNo: 1486153 Units: mg/Kg											
	Analyte	Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Toluene 0.96 0.050 1.000 0 95.8 70 130	Benzene	0.96 0.0	25 1.000	0	95.9	70	130						
	Toluene	0.96 0.0	1.000	0	95.8	70	130						

101

86.5

93.0

102

70

70

70

70

130

130

130

130

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1710C93

26-Oct-17

Client:

Blagg Engineering

Project:

Jaquez GC A 1A

Sample ID rb SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range Client ID: PBS Batch ID: G46636 RunNo: 46636 Prep Date: Analysis Date: 10/25/2017 SeqNo: 1486155 Units: mg/Kg **RPDLimit** Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 410 500.0 81.1 70 130

Sample ID 2.5ug gro lcs SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range LCSS Client ID: Batch ID: **G46636** RunNo: 46636 Prep Date: Analysis Date: 10/25/2017 SeqNo: 1486156 Units: mg/Kg SPK value SPK Ref Val %REC %RPD Analyte Result PQL LowLimit HighLimit **RPDLimit** Qual Gasoline Range Organics (GRO) 26 5.0 25.00 0 103 70 130 Surr: BFB 410 500.0 82.7 70 130

Sample ID 1710c93-001ams TestCode: EPA Method 8015D Mod: Gasoline Range SampType: MS Client ID: 5PC-TB@5'(95) Batch ID: G46636 RunNo: 46636 Prep Date: Analysis Date: 10/25/2017 SeqNo: 1486157 Units: mg/Kg SPK value SPK Ref Val Analyte Result PQL %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 21 20.38 105 64.7 142 Surr: BFB 330 407.5 130 81 0 70

Sample ID 1710c93-001amsd SampType: MSD TestCode: EPA Method 8015D Mod: Gasoline Range Client ID: 5PC-TB@5'(95) Batch ID: G46636 RunNo: 46636 Prep Date: Analysis Date: 10/25/2017 SeqNo: 1486158 Units: mg/Kg SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result PQL LowLimit Qual 21 4.1 20.38 0 102 Gasoline Range Organics (GRO) 64.7 142 3.45 20 Surr: BFB 330 407.5 0.08 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
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Client Name: BLAGG	Work Ord	er Number: 1710	C93		RcptNo:	1
Received By: Sophia Ca	mpuzano 10/25/2017	8:00:00 AM	Sop	hi ing.		
Completed By: Erin Melen		8:16:23 AM	U	as		
Reviewed By: 2	[0/25/17					
Chain of Custody					_	
1. Custody seals intact on sa	ample bottles?	Yes	_	No 🗆	Not Present	
2. Is Chain of Custody comp	lete?	Yes	✓	No L	Not Present	
3. How was the sample deliv	ered?	Cou	<u>rier</u>			
Log In						
4. Was an attempt made to	cool the samples?	Yes	✓	No 🗌	NA 🗆	
			_			
Were all samples received	d at a temperature of >0° C to	6.0°C Yes	✓	No 🗌	NA 🗌	
6. Sample(s) in proper conta	niner(s)?	Yes	✓	No 🗌		
7. Sufficient sample volume	for indicated test(s)?	Yes	✓	No 🗆		
8. Are samples (except VOA	and ONG) properly preserved?	Yes	✓	No 🗆		
9. Was preservative added to	o bottles?	Yes		No 🗸	NA 🗆	
10.VOA vials have zero head	enace?	Yes		No 🗆	No VOA Vials ✓	
11. Were any sample contain	•	Yes		No 🗹		
11. Word any dample defically	orbitodorod brokeni	100		_	# of preserved bottles checked	
12. Does paperwork match bo	ottle labels?	Yes	V	No 🗆	for pH:	1000
(Note discrepancies on ch					(<2 o	r >12 unless noted)
13. Are matrices correctly iden		Yes	_	No 🗆	Aujustou:	
14. Is it clear what analyses w 15. Were all holding times able		Yes Yes		No 🗆	Checked by:	
(If no, notify customer for		165				
Special Handling (if app	olicable)					
16. Was client notified of all di	screpancies with this order?	Yes		No 🗆	NA 🗹	
Person Notified:		Date:	ACALADA AL CLICA AL ACACACACACACACACACACACACACACACACAC	enemonium and and		
By Whom:	183 Mill Melleth and Austrangern Ampril (1920) Austri (1920) (1921) Austri (1920) (1921) Mill Melleth and an ann ann ar	Via: eM	ail Phone	Fax [_ In Person	
Regarding:						
Client Instructions:						
17. Additional remarks:						
18. Cooler Information		,				
Cooler No Temp °C		eal No Seal D	ate Signe	ed By		
1 1.2	Good Yes		L.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			



