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.

Proposed Alternativ	Pit, Below-Grade Tank, or e Method Permit or Closure Plan Application Cons. DIV DIST. 3
Permit of a pit	ank registration or proposed alternative method t, below-grade tank, or proposed alternative method o an existing permit/or registration nly submitted for an existing permitted or non-permitted pit, below-grade tank,
or proposed alternative method	ny submitted for an existing permitted of non permitted pit, onlow grade tank,
Instructions: Please submit one applic	ation (Form C-144) per individual pit, below-grade tank or alternative request
environment. Nor does approval relieve the operator of its resp	the operator of liability should operations result in pollution of surface water, ground water or the onsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
<sup>1.</sup> Operator: BP America Production Company	OGRID #: 778
Address: 200 Energy Court, Farmington, NM 8740	)1
Facility or well name: HARDIE LS 002	
API Number: 3004507761	OCD Permit Number:
U/L or Qtr/Qtr M Section 25	OCD Permit Number: Township 29N Range 08W County: San Juan
Center of Proposed Design: Latitude 36.69217	Longitude -107.63355 NAD83
Surface Owner: 🔳 Federal 🗌 State 🗌 Private 🗌 Tribal	
2.	
Difference Pit: Subsection F, G or J of 19.15.17.11 NMAC	
Temporary: Drilling Workover	
Permanent Emergency Cavitation P&A	Multi-Well Fluid Management Low Chloride Drilling Fluid 🗌 yes 🗌 no
Lined Unlined Liner type: Thickness	mil LLDPE HDPE PVC Other
String-Reinforced	
Liner Seams: Welded Factory Other	Volume: bbl Dimensions: L x W x D
3.	TANK A
Below-grade tank: Subsection I of 19.15.17.11 NM	
Volume: <u>95</u> bbl Type of fluid: <u>Pr</u> Tank Construction material: Steel	
	le sidewalls, liner, 6-inch lift and automatic overflow shut-off Other Single wall/ Double bottom; sidewalls not visible
Liner type: Thicknessmil L Hi	DPE         PVC         Other
4. Alternative Method:	
	must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.
	must be submitted to the Santa re Environmental Bureau office for consideration of approval.
s. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to	permanent nits temporary nits and helow-grade tanks)
	e at top (Required if located within 1000 feet of a permanent residence, school, hospital,
Four foot height, four strands of barbed wire evenly spa	ced between one and four feet
Alternate. Please specify	
L	
Form C-144	Oil Conservation Division Page 1 of 6 $(23)$

6.         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)	
<ul> <li>7.</li> <li>Signs: Subsection C of 19.15.17.11 NMAC</li> <li>12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers</li> <li>Signed in compliance with 19.15.16.8 NMAC</li> </ul>	
<ul> <li>8.</li> <li><u>Variances and Exceptions:</u> Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.</li> <li><i>Please check a box if one or more of the following is requested, if not leave blank:</i> <ul> <li>Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.</li> <li>Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.</li> </ul> </li> </ul>	
9. <u>Siting Criteria (regarding permitting)</u> : 19.15.17.10 NMAC <i>Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptate are provided below.</i> Siting criteria does not apply to drying pads or above-grade tanks.	ptable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank □ NM Office of the State Engineer - iWATERS database search; □ USGS; □ Data obtained from nearby wells	□ Yes □ No □ NA
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 □ NA
<ul> <li>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)</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within the area overlying a subsurface mine. (Does not apply to below grade tanks)</li> <li>Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division</li> </ul>	Yes No
<ul> <li>Within an unstable area. (Does not apply to below grade tanks)</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	🗌 Yes 🗌 No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	🗌 Yes 🗌 No
Below Grade Tanks	
<ul> <li>Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	Yes No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
<ul> <li>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.)</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	🗌 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

<ul> <li>Within 100<sup>e</sup> feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	Yes No
Temporary Pit Non-low chloride drilling fluid	
<ul> <li>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).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	🗌 Yes 🗌 No
<ul> <li>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;</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within 300 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	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	
<ul> <li>lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	Yes No
<ul> <li>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.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
10.         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 NMAC         Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC         Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC         Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC         Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC         Previously Approved Design (attach copy of design)       API Number: or Permit Number:	cuments are NMAC 15.17.9 NMAC
11.	
Multi-Well Fluid Management Pit Checklist:       Subsection B of 19.15.17.9 NMAC         Instructions:       Each of the following items must be attached to the application.       Please indicate, by a check mark in the box, that the doc         attached.       Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC         Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC         A List of wells with approved application for permit to drill associated with the pit.         Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.         and 19.15.17.13 NMAC         Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC         Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC         Previously Approved Design (attach copy of design)       API Number: or Permit Number:	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	
<ul> <li>Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <li>Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <li>Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <li>Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <li>Quality Control/Quality Assurance Construction and Installation Plan</li> <li>Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC</li> </ul>	
<ul> <li>Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <li>Nuisance or Hazardous Odors, including H<sub>2</sub>S, Prevention Plan</li> <li>Emergency Response Plan</li> </ul>	
<ul> <li>Oil Field Waste Stream Characterization</li> <li>Monitoring and Inspection Plan</li> <li>Erosion Control Plan</li> </ul>	
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
13. <u>Proposed Closure</u> : 19.15.17.13 NMAC <i>Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.</i>	
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F	luid Management Pit
Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only)	
<ul> <li>On-site Closure Method (Only for temporary pits and closed-loop systems)</li> <li>In-place Burial</li> <li>On-site Trench Burial</li> <li>Alternative Closure Method</li> </ul>	
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             Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
<sup>15.</sup> 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. If 19.15.17.10 NMAC for guidance.	
<ul> <li>Ground water is less than 25 feet below the bottom of the buried waste.</li> <li>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</li> </ul>	□ Yes □ No □ NA
<ul> <li>Ground water is between 25-50 feet below the bottom of the buried waste</li> <li>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</li> </ul>	□ Yes □ No □ NA
<ul> <li>Ground water is more than 100 feet below the bottom of the buried waste.</li> <li>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</li> </ul>	□ Yes □ No □ NA
<ul> <li>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).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	🗌 Yes 🗌 No
<ul> <li>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.</li> <li>NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site</li> </ul>	🗌 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	
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adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes No
<ul> <li>Within the area overlying a subsurface mine.</li> <li>Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division</li> </ul>	Yes No
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	Yes No
Within a 100-year floodplain.	
- FEMA map	Yes No
<ul> <li>16.</li> <li>On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plane by a check mark in the box, that the documents are attached.</li> <li>Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC</li> <li>Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC</li> <li>Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.1</li> <li>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</li> <li>Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>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</li> <li>Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> </ul>	1 NMAC 5.17.11 NMAC
Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belie:	f.
Name (Print):	
Signature: Date:	
e-mail address: Telephone:	
18. OCD Approval: Permit Application (including closure plan) D Closure Plan (only) OCD Conditions (see attachment)	,
OCD Representative Signature: Approval Date: 2/3	118
Title: Environmental Spec. OCD Permit Number:	
19.	
<u>Closure Report (required within 60 days of closure completion)</u> : 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting to The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not consection of the form until an approved closure plan has been obtained and the closure activities have been completed.	
Closure Completion Date: 12/1/2017	
<ul> <li>20.</li> <li>Closure Method:</li> <li>Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loo If different from approved plan, please explain.</li> </ul>	op systems only)
<ul> <li>21.</li> <li><u>Closure Report Attachment Checklist</u>: <i>Instructions: Each of the following items must be attached to the closure report. Please india mark in the box, that the documents are attached.</i> <ul> <li>Proof of Closure Notice (surface owner and division)</li> <li>Proof of Deed Notice (required for on-site closure for private land only)</li> <li>Plot Plan (for on-site closures and temporary pits)</li> </ul> </li> </ul>	icate, by a check

Oil Conservation Division

4 k-1 22. *		
Operator Closure Certific	ation:	
5 5		this closure report is true, accurate and complete to the best of my knowledge and sure requirements and conditions specified in the approved closure plan.
Name (Print): Erin Garifa	OS	Title: Field Environmental Coordinator
Signature:	garifialas	Date: January 22, 2018

e-mail address: erin.garifalos@bp.com

Telephone: (832) 609-7048

#### BP AMERICA PRODUCTION COMPANY SAN JUAN BASIN, NORTHWEST NEW MEXICO

#### **BELOW-GRADE TANK CLOSURE PLAN**

#### HARDIE LS 002

API No. 3004507761

#### Unit Letter M Section 25 T 29N R 08W

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

#### **General Closure Plan**

1.1

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	< 0.018
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.074
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	<46
Chlorides	US EPA Method 300.0 or 4500B	620	<30

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

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

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

12

- 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.

#### State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

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

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

			Rele	ease Notific	cation	and Co	orrective A	ctior	1	
						<b>OPERA</b>			🗌 Initia	al Report 🔳 Final Report
Name of Co Address 200				ny		Contact Erin	Garifalos No. (832) 609-7048	_		
Facility Nan			IVI 87401				e : Natural Gas Wel	1		
Surface Own				Mineral C	)wner · F	Federal			API No	. 3004507761
Surface Own	IICI . Federa					N OF RE	FASE		MITHO	
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	West Line	County	
M	25	29N	08W	990	Sou	ith	990	We	st	San Juan
		1	Latitud	e 36.69217	Lo	ongitude -1	07.63355	NAD	83	
				NAT		OF REL				
Type of Relea	ase:: none	)					Release: : unkno			Recovered: : N/A
Source of Rel	ease: belo	w grade ta	nk - 95	bbl		Date and H	our of Occurrenc	e:	Date and n/a	Hour of Discovery:
Was Immedia		Given?		No 🗌 Not Re	eauired	If YES, To	Whom?			
By Whom?					1	Date and H	our			
Was a Watero	course Read		Yes 🗸	No		If YES, Vo	lume Impacting t	he Wat	ercourse.	
If a Watercou	rse was Im	pacted Descr	ibe Fully *							
Describe Cau	se of Probl	em and Reme	dial Action	Samı Soil a	analys	is resulte	d for Chlorid	les, B	TEX, an	ne during removal. Id TPH below BGT ry results are attached.
Describe Area	a Affected :	and Cleanup A	Action Tak	No actio		essary. F n is requ		ory ar	nalysis c	letermined 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 addition, NMC	o report an acceptance adequately OCD accep	d/or file certain r e of a C-141 repo investigate and r	elease no ort by the emediate	NMOCD ma contaminati	ad perform correct arked as "Final Roon that pose a three	tive act eport" c 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
l	rina	wihald	25				OIL CONS	SERV	ATION	DIVISION
Signature:	0	orifald				Approved by	Environmental S	necialis	+•	
Printed Name	Erin G	arifalos			1	Approved by	Environmental 5	pecialis		
Title: Field	l Envire	onmenta	al Coo	rdinator	1	Approval Dat	e:		Expiration I	Date:
E-mail Addre	ss: erin.	garifalos	@bp.	com	(	Conditions of	Approval:			Attached
Date: Januar				(832) 609-7048						
Attach Addit	ional Shee	ets If Necess	ary							



1 12



BP America Production Company 200 Energy Court Farmington, NM 87401

November 22, 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: HARDIE LS 002 API #: 3004507761

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 November 27, 2017. If there aren't any unforeseen problems, the work should be completed within 10 working days.

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

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

Sincerely,

Erin Garifalos

BP America Production Company

Buckley, Farrah (CH2M HILL) From: Smith, Corv. EMNRD; Fields, Vanessa, EMNRD (Vanessa, Fields@state.nm.us) jeffcblagg@aol.com; blagg\_njv@yahoo.com; Garifalos, Erin Subject: RE: BP Pit Close Notification - HARDIE LS 002 Wednesday, November 22, 2017 10:25:05 AM

> **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

November 22, 2017

1 1 4

To:

Cc:

Date:

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

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

HARDIE LS 002 API 30-045-07761 (M) Section 25-T29N - R08W San Juan County, New Mexico

Dear Mr. Cory Smith and Mrs. Vanessa Fields,

In regards to the captioned subject and requirements of the NMOCD pit rule, this letter is notification that BP is planning to close a 95bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around November 27, 2017.

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

Sincerely,

Erin Garifalos

Field Environmental Coordinator - San Juan

a's i the

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.

BP		GG ENGINEERI 87, BLOOMFIE		API #: 300450	7761
CLIENT:	P.U. BUA	(505) 632-119		TANK ID (if applicble):	4
FIELD REPORT:	(circle one): BGT CONFIR	MATION / RELEASE INVESTI	GATION / OTHER:	PAGE #: 1	of _1
SITE INFORMATION	: SITE NAME: H	ARDIE LS #2		DATE STARTED: 11	/28/17
QUAD/UNIT: M SEC: 25 TWP:	29N RNG: 8V	PM: NM CNT	Y: <b>SJ</b> ST: <b>NN</b>	DATE FINISHED:	
1/4 -1/4/FOOTAGE: 990'S / 990'		C	STATE / FEE / INDIAN	ENVIRONMENTAL	1.15.7
LEASE #: SF078416A	PROD. FORMATION:	CONTRACTOR: B	P - J. GONZALES	SPECIALIST(S):	JV
REFERENCE POINT	WELL HEAD (M			66 GL ELEV.:	
1) 95 BGT (SW/DB)	GPS COORD .:	36.69217 X 107.	63355 DISTANCE	BEARING FROM W.H.: 91', S	33.5E
2)					
3)				BEARING FROM W.H.:	
				/BEARING FROM W.H.:	OVM
SAMPLING DATA: 1) SAMPLE ID: 5PC - TB @ 5'		ORD(S) # OR LAB USED:	HALL	8015B/8021B/300 0 (CI)	READING (ppm)
1) SAMPLE ID:      2) SAMPLE ID:				00100/00210/000.0 (01)	
3) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:	LAB ANALYSIS:		
4) SAMPLE ID:      5) SAMPLE ID:			LAB ANALYSIS:		
SOIL DESCRIPTION	IVE GRAY			C / COHESIVE / MEDIUM PLASTIC / HI	
COHESION (ALL OTHERS): NON COHESIVE SLIGHTL					SHEFFEASTIC
CONSISTENCY (NON COHESIVE SOILS): LO			D: YES NO EXPLANATION -		
MOISTURE: DRY / SLIGHTLY MOIST / MOIST / W SAMPLE TYPE: GRAB COMPOSITE #			YING WETNESS: YES NO EX	PLANATION -	
DISCOLORATION/STAINING OBSERVED: YES					
SITE OBSERVATION			TION -		
APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA:		NO EXPLANATION:			
OTHER: NMOCD OR BLM REPS. NOT PR	ESENT TO WITNESS CO	ONFIRMATION SAMPLING.			
EXCAVATION DIMENSION ESTIMATION:	NA ft. X	NA ft. X NA	ft. EXCAVATION	ESTIMATION (Cubic Yards) :	NA
	EAREST WATER SOURCE:	>1,000' NEAREST SURFA			000 ppm
SITE SKETCH	BGT Located : off	on site PLOT P	AN circle: attached	ovm calib. Read. = NA	
	то				opm RF =1.00
	W.H.		N	TIME: NA am/pm DATE:	NA
	001110			MISCELL. NO	TES
	SOUND			WO:	
FENCE				REF #: P-876	
		SEPARATOR		VID: VHIXONEVB	2
PROD.				PJ #:	
TANK		(x x x) ◄ PBGTL (x x x) ◄ T.B. ~ 5'			4/10
		B.G.		Tank OVM = Organic Vapor N	0/17 leter
BERM -	FENCE ->			ID         ppm = parts per million           A         BGT Sidewalls Visible: Y	(N)
		BERM	X - S.P.D.	BGT Sidewalls Visible: Y	
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATIO	N DEPRESSION; B.G. = BELOW GR	RADE; B = BELOW; T.H. = TEST HOLE;		BGT Sidewalls Visible: Y	
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BEL APPLICABLE OR NOT AVAILABLE; SW - SINGLE	OW-GRADE TANK LOCATION; SPD	= SAMPLE POINT DESIGNATION; R.W	K = RETAINING WALL; NA - NOT	Magnetic declination: 1	0°E
NOTES: GOOGLE EARTH IMAGE			11/27/17, 11/28/17		
revised: 11/26/13				BEI	005E-6 SKE

Hall Environmental Analys		Lab Order <b>1711D26</b> Date Reported: <b>12/1/2017</b>					
CLIENT: Blagg Engineering Project: Hardie LS 2 Lab ID: 1711D26-001	Matrix: 1	C MEOH (SOIL)	Collection	Date: 11/	C-TB @ 5' (95) 28/2017 10:50:00 AM 29/2017 7:30:00 AM		
Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	MRA	
Chloride	ND	30	mg/Kg	20	11/29/2017 10:32:27 AM	1 35213	
EPA METHOD 8015M/D: DIESEL RANG	<b>GE ORGANICS</b>				Analyst	TOM	
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	11/29/2017 9:51:45 AM	35209	
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/29/2017 9:51:45 AM	35209	
Surr: DNOP	92.7	70-130	%Rec	1	11/29/2017 9:51:45 AM	35209	
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	NSB	
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	11/29/2017 9:48:34 AM	35190	
Surr: BFB	93.4	15-316	%Rec	1	11/29/2017 9:48:34 AM	35190	
EPA METHOD 8021B: VOLATILES					Analyst	NSB	
Benzene	ND	0.018	mg/Kg	1	11/29/2017 9:48:34 AM	35190	
Toluene	ND	0.037	mg/Kg	1	11/29/2017 9:48:34 AM	35190	
Ethylbenzene	ND	0.037	mg/Kg	1	11/29/2017 9:48:34 AM	35190	
Xylenes, Total	ND	0.074	mg/Kg	1	11/29/2017 9:48:34 AM	35190	
Surr: 4-Bromofluorobenzene	91.4	80-120	%Rec	1	11/29/2017 9:48:34 AM	35190	

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

Qualifiers:

1 4 3 1 1 4

- \* 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 1 of 5

**Analytical Report** 

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

If necessar	28	Date: Time:	Date; Time:				-					1050 10/22/11	Date Time	EDD (Type)	D NELAP	Accreditation:	<ul> <li>✓ Standard</li> </ul>	OA/OC Parkana	email or Fax#:	Phone #:		Mailing Address:		Client: BLA	Cnain-
y, samples su	B	Relinquished by:	Relinquished by									SOIL	Matrix		Other					(505) 6	BLOON	P.O. BOX 87		GG ENG	ot-Cu
Hall Enviror	Mital Dates	(Nor v)	The way									5PC-TB @ 5'(95)	Sample Request ID		)r		Level 4 (Full Validation)			(505) 632-1199	BLOOMFIELD, NM 87413	DX 87		BLAGG ENGR. / BP AMERICA	Unain-of-Custody Record
contracted to other	Sipli	Received by:	Received by:									4 oz 1	Container Type and #	Sample Temperature 2.4	Onlice	Sampler:			Project Manager:		Project #:		Project Name:	Standard	
accredited laboratorie	C 11/2	Malter										Cool	e	2. F 3	XYes	<b>NELSON VELEZ</b>	NELSON VELEZ		ger:			HARDIE LS		Rush	IIIIe:
	1	Date Time	Date Time									- 00/	HEAL No.	-0.Step-1.9	D No.	116	IEZ					#2		DAY	SAME
of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	Refe	8	Remarks:									<	BTEX + MTB				8021	3)	_						
ossibili	Reference #	CONTACT:	arks:	<u> </u>							_	_	BTEX + MTB					_			Tel.	490:			
ty. Am			20 8	-				_	-		_	<	TPH 8015B	-	-	-	/ MR	0)	-		Tel. 505-345-3975	4901 Hawkins NE -	12		
sub-c	P		REFER	-				-					EDB (Meth	-	-	-		_	-	T1	345	vkin	¥	2	I
ontrac	P - 876	ERIN GARIFA	ENCE	$\vdash$	-			-					PAH (8310			-	AS)				397	NE	ww.t	Z	
ted da	1. 1	ALO	TO BP				-						RCRA 8 Me				-	_	-	Ana			alle	3	
ta will		ERIN GARIFALOS / VANCE HIXON	BILL DIRECTLY TO BP USING THE CONTACT WITH CORRESPONDING VID & REFERENCE # WHEN APPLICABLE;		-								Anions (F,C		-	NO <sub>2</sub> ,	PO4,	SO4	)	Analysis	Fax	Albuquerque, NM 87109	www.hallenvironmental.com	NALYSIS LABORATORY	ENVIRONMENTAL
be clea		ANCE	G THE										8081 Pestic	cide	s/	808	2 PCE	3's			Fax 505-345-4107	lerqu	nme	SL	
arly no		HIX	CONT.										8260B (VO	A)						Request	345-	ue, N	ental	A	õ
tated o		NO	ACTW										8270 (Semi	-VC	DA)					ŧ	410	8 MI	.con	ö	2
in the a			THO									<	Chloride (so	il - 3	00.0	)/wa	ater -	300.	.1)		7	7109	-	R	
analyti			ORRES					_											_			9		E	2
cal rep			POND		-	·	_						Grab samp	_					_					R	P.
ort.			UNG	-									5 pt. comp		_		e		_					<b>K</b>	
			ID						1				Air Bubbles	(Y o	r N)	)							~		2

WO#: 1711D26

01-Dec-17

Client: Project:	Blagg I Hardie	Engineering LS 2								
Sample ID	MB-35213	SampType: mbll	< C	Test	Code: EPA	A Method	300.0: Anion	S		
Client ID:	PBS	Batch ID: 3521	3	R	unNo: 473					
Prep Date:	11/29/2017	Analysis Date: 11/2	29/2017	S	eqNo: 151	13692	Units: mg/K	g		
Analyte		Result PQL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.5								
Sample ID	LCS-35213	SampType: Ics		Test	Code: EPA	A Method	300.0: Anion	S		
Client ID:	LCSS	Batch ID: 3521	3	R	unNo: 473	395				
Prep Date:	11/29/2017	Analysis Date: 11/2	29/2017	S	eqNo: 151	3693	Units: mg/K	g		
Analyte		Result PQL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 1.5	15.00	0	94.1	90	110			

Qualifiers:

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

- Page 2 of 5

WO#: 1711D26

01-Dec-17

20	ngineering									
Project: Hardie	LS 2									
Sample ID LCS-35209	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	n ID: 35	209	F	unNo: 4	7389				
Prep Date: 11/29/2017	Analysis D	ate: 11	1/29/2017	S	eqNo: 1	512108	Units: mg/k	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.4	73.2	114			
Surr: DNOP	4.4		5.000		88.5	70	130			
Sample ID MB-35209	SampT	ype: ME	BLK	Tes	Code: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	n ID: 35	209	R	unNo: 4	7389				
Prep Date: 11/29/2017	Analysis D	ate: 11	1/29/2017	S	eqNo: 1	512109	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	9.1		10.00		91.0	70	130			

Qualifiers:

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

- Page 3 of 5

WO#: 1711D26

Page 4 of 5

01-Dec-17

Client: Blagg E Project: Hardie	Engineering LS 2									
Sample ID MB-35190	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch	ID: 35	190	F	unNo: 4	7399				
Prep Date: 11/28/2017	Analysis D	ate: 11	/29/2017	S	eqNo: 1	512977	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		100	15	316			
Sample ID LCS-35190	SampT	ype: LC	s	Tes	Code: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch	ID: 35	190	F	unNo: 47	7399				
Prep Date: 11/28/2017	Analysis Da	ate: 11	/29/2017	S	eqNo: 1	512978	Units: mg/k	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.2	75.9	131			
Surr: BFB	1100		1000		106	15	316			

Qualifiers:

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

**Client:** Blagg Engineering **Project:** Hardie LS 2

Troject. Thardie	202									
Sample ID MB-35190	SampT	ype: ME	BLK	Tes						
Client ID: PBS	Batch	n ID: 35	190	F	RunNo: <b>47399</b>					
Prep Date: 11/28/2017	Analysis D	ate: 11	1/29/2017	5	SeqNo: 1	512999	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.98		1.000		97.7	80	120			
Sample ID LCS-35190	SampT	SampType: LCS TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch	n ID: 35	190	F	RunNo: 4	7399				
Prep Date: 11/28/2017	Analysis D	ate: 11	1/29/2017	S	eqNo: 1	513000	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	96.8	77.3	128			
Toluene	0.95	0.050	1.000	0	95.4	79.2	125			
Ethylbenzene	0.94	0.050	1.000	0	94.4	80.7	127			
Kylenes, Total	2.9	0.10	3.000	0	95.1	81.6	129			
Surr: 4-Bromofluorobenzene	0.95		1.000		94.8	80	120			

Qualifiers:

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

WO#: 1711D26

01-Dec-17

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ANALY	ONMENTAL /SIS LATORY	Hall Environmental Albu TEL: 505-345-3975 Website: www.hai	4901 querqu FAX: 5	Hawkins N ue, NM 8710 505-345-410		Sample Log-In Check List			
Client Name:	BLAGG	Work Order Number:	1711	D26		RcptNo: 1			
Received By:	Sophia Campuzano	11/29/2017 7:30:00 AM	I		Sophia Caya-				
Completed By:	Sophia Campuzano	11/29/2017 7:47:47 AM			Sophie Comp-				
Reviewed By:	DDS	11/29/17			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Chain of Cus	tody								
1. Custody sea	is intact on sample bottles?		Yes		No 🗌	Not Present			
2. Is Chain of C	sustody complete?		Yes	$\checkmark$	No 🗆	Not Present			
3. How was the	sample delivered?		<u>Cou</u>	rier					
Log In									
4. Was an atte	mpt made to cool the samp	les?	Yes		No 🗌				
5. Were all sam	ples received at a tempera	ture of >0° C to 6.0°C	Yes		No 🗌				
6. Sample(s) in	proper container(s)?		Yes	V	No 🗌				
7. Sufficient sar	mple volume for indicated te	est(s)?	Yes		No 🗌				
8. Are samples	(except VOA and ONG) pro	perly preserved?	Yes	$\checkmark$	No 🗌				
9. Was preserve	ative added to bottles?		Yes		No 🗹	NA 🗌			
10.VOA vials ha	ve zero headspace?		Yes		No 🗌	No VOA Vials			
11. Were any sa	mple containers received b	roken?	Yes		No 🗹	# of preserved			
	vork match bottle labels? pancies on chain of custody)	)	Yes		No 🗆	bottles checked for pH: (<2 or >12 unless	s note		
	correctly identified on Chair		Yes		No 🗆	Adjusted?			
	at analyses were requested		Yes		No 🗆				
	ling times able to be met? customer for authorization.)		Yes		No 🗆	Checked by:			

### Special Handling (if applicable)

Vas client notified of all dis	screpancies with this order?	Yes	No 🗔	NA 🗹
Person Notified:		Date:		
By Whom:	alaan ah a majada ay ay ah ak ta daga ah in sa daga ah ay ay ah a	Via: eMail F	Phone 🗌 Fax 📋	In Person
Regarding:	and a factor of the second	an general distant and general and distant and general distant and general distant and general distant and gene	and the local design of the second states of the second states of the second states of the second states of the	
Client Instructions:	a na 1999 na haran na haran an haran na	a and a manufacture of the second		

17. Additional remarks:

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18. Cooler Information

Cooler N	o Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.9	Good	Yes			

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