Form C-144 State of New Mexico July 21, 2008

District I 1625 N. French Dr., Hobbs, NM 88240

1301 W. Grand Avenue, Artesia, NM 8 AAR 1 2 2015 District III

1000 Rio Brazos Road, Azted, NM 87410

RECEIVED

Energy Minerals and Natural Resources Department Oil Conservation Division 1/220 South St. Francis Dr.

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and

| Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application  Type of action:   Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method   Modification to an existing permit   Closure plan only submitted for an existing permit   Closure plan only submitted for an existing permit do non-permitted in, closed-loop system, below-grade tank, or proposed alternative method   Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request   Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request   Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request   Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request   Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative method   Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative method   Instructions: Please submit one application or one proposed alternative method   Instructions: Please submit one application or one proposed of please submit one application or one proposed of the submit one application or one proposed please tank or alternative request   Please submit one application or of the require request   Please submit one application or one proposed Design: Latitude   36.548622   Longitude   107.173653   NAD: \[ \] 1927 \[ \] 1983 \[ \] Sufface Owner: \[ \] Private \[ \] Tribal Trust or Indian Allotment   Please   Private \[ \] Tribal Trust or Indian Allotment   Please   Private \[ \] Tribal Trust or Indian Allotment   Please   Private \[ \] Tribal Trust or Indian Allotment   Please   Private \[ \] Tribal Trust or Indian Allotment | Santa Fe, NM 87505  DISTRICT L.1  Santa Fe, NM 87505  District Office.   |
|--|--|
| Type of action:    Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method   Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method   Modification to an existing permit   Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method   Mostification to an existing permitted or non-permitted pit, closed-loop system, below-grade tank or alternative request   |  |
| Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method   Modification to an existing permit   Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method   Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, 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 firs responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.   Po Box 640/721 S Main   | Proposed Alternative Method Permit or Closure Plan Application   |
| 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.    Description   Williams Operating Co. LLC  | 39-29944 Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method  Modification to an existing permit  Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system,   |
| environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.    Coperator:   |  |
| Operator: Williams Operating Co. LLC OGRID #: 120782  Address PO Box 640 / 721 S Main  |  |
| Address PO Box 640 / 721 S Main  |  |
| Facility or well name: Jicarilla 92 #2A  API Number: 30-039-29944 OCD Permit Number:  U/L or Qtr/Qtr D Section 29 Township 27N Range 03W County: Rio Arriba  Center of Proposed Design: Latitude 36.548622 Longitude -107.173653 NAD: \$\infty\$1927   1983  Surface Owner: \$\  \text{Federal} \  \text{State} \  \text{Private} \  \text{Tribal Trust or Indian Allotment}  \[ \text{Pit: Subsection F or G of 19.15.17.11 NMAC} \]  Temporary: \$\  Drilling   Workover   Permanent   Emergency   Cavitation   P&A   Lined   Unlined Liner type: Thickness mil   LLDPE   HDPE   PVC   Other    \[ \text{String-Reinforced   String-Reinforced   Pack   Drilling a new well   Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)   Drying Pad   Above Ground Steel Tanks   Haul-off Bins   Other    \[ \text{Lined   Unlined Liner type: Thickness   mil   LLDPE   HDPE   PVC   Other    \[ \text{Liner Seams:   Welded   Factory   Other   Drying Pad   Above Ground Steel Tanks   Haul-off Bins   Other    \[ \text{Liner Seams:   Welded   Factory   Other   Drying Pad   Above Ground Steel Tanks   Haul-off Bins   Other    \[ \text{Liner Seams:   Welded   Factory   Other   Drying Pad   Above Ground Steel Tanks   Haul-off Bins   Other    \[ \text{Liner Seams:   Welded   Factory   Other   Drying Pad   Above Ground Steel Tanks   Haul-off Bins   Other    \[ \text{Liner Seams:   Welded   Factory   Other   Drying Pad   Above Ground Steel Tanks   Haul-off Bins   Other    \[ \text{Liner Seams:   Welded   Factory   Other   Drying Pad   Above Ground Steel Tanks   Produced Water    \[ \text{Liner Seams:   Welded   Factory   Other   Drying Pad   Above Ground Steel Tanks   Produced Water    \[ \text{Liner Seams:   Welded   Factory   Other   Drying Pad   Above Ground Steel Tanks   Produced Water    \[ \text{Liner Seams:   Welded   Factory   Other   Drying Pad   Produced Water   Drying Pad     |  |
| U/L or Qtr/Qtr D Section 29 Township 27N Range 03W County: Rio Arriba  Center of Proposed Design: Latitude 36.548622 Longitude -107.173653 NAD: \[ \text{NAD:} \] \[ \text{P1:} \] Subsection F or G of 19.15.17.11 NMAC  Temporary: \[ \text{Drilling} \] Workover  \[ \text{Permanent} \] Energency \[ \text{Catosed-loop System:} Subsection H of 19.15.17.11 NMAC  Type of Operation: \[ \text{P&A} \] Drilling a new well \[ \text{Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) \[ \text{Driving Pad} \] Above Ground Steel Tanks \[ \text{Haul-off Bins} \] Other  \[ \text{Lined} \] Unlined Liner type: Thickness \[ \text{mill   Haul-off Bins} \] Other  \[ \text{Lined} \] Unlined Liner type: Thickness \[ \text{mill   LLDPE} \] HDPE \[ \text{PVC} \] Other  \[ \text{Lined} \] Unlined Liner type: Thickness \[ \text{mill   LLDPE} \] HDPE \[ \text{PVC} \] Other  \[ \text{Lined} \] Unlined Liner type: Thickness \[ \text{mill   LLDPE} \] HDPE \[ \text{PVC} \] Other  \[ \text{Lined} \] Unlined Liner type: Thickness \[ \text{mill   LLDPE} \] HDPE \[ \text{PVC} \] Other  \[ \text{Lined} \] Unlined Liner type: Thickness \[ \text{mill   LLDPE} \] HDPE \[ \text{PVC} \] Other  \[ \text{Liner Seams:} \] Welded \[ \text{Factory} \] Other  \[ \text{Liner Seams:} \] Subsection I of 19.15.17.11 NMAC  \[ \text{Volume:} \] 120 \[ \text{bbl Type of fluid:} \] Produced Water  \[ \text{Tank Construction material:} \] Single Wall Steel   |  |
| Center of Proposed Design: Latitude 36,548622 Longitude -107,173653 NAD: \[ \] 1927 \[ \] 1983  Surface Owner: \[ \] Federal \[ \] State \[ \] Private \[ \] Tribal Trust or Indian Allotment    \] Pit: Subsection F or G of 19,15,17,11 NMAC  Temporary: \[ \] Drilling \[ \] Workover \[ \] Permanent \[ \] Emergency \[ \] Cavitation \[ \] P&A \[ \] Lined \[ \] Unlined \[ \] Unlined \[ \] Liner type: Thickness \[ \] mil \[ \] LLDPE \[ \] HDPE \[ \] PVC \[ \] Other \[ \] String-Reinforced  Liner Seams: \[ \] Welded \[ \] Factory \[ \] Other \[ \] Volume: \[ \] bbl Dimensions: \[ \] x W x D    \] Closed-loop System: Subsection H of 19,15,17,11 NMAC  Type of Operation: \[ \] P&A \[ \] Drilling a new well \[ \] Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) \[ \] Drying Pad \[ \] Above Ground Steel Tanks \[ \] Haul-off Bins \[ \] Other \[ \] Liner Seams: \[ \] Welded \[ \] Factory \[ \] Other \[ \] Liner Seams: \[ \] Welded \[ \] Factory \[ \] Other \[ \] Other \[ \] And \[ \] Produced Water  Tank Construction material: \[ \] Single Wall Steel   | API Number: <u>30-039-29944</u> OCD Permit Number:   |
| Surface Owner:   Federal   State   Private   Tribal Trust or Indian Allotment    Pit:   Subsection F or G of 19.15.17.11 NMAC  | U/L or Qtr/Qtr D Section 29 Township 27N Range 03W County: Rio Arriba  |
| Pit: Subsection F or G of 19.15.17.11 NMAC     Temporary:   Drilling   Workover     Permanent   Emergency   Cavitation   P&A     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     Closed-loop System: Subsection H of 19.15.17.11 NMAC     Type of Operation:   P&A   Drilling a new well   Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)     Drying Pad   Above Ground Steel Tanks   Haul-off Bins   Other     Lined   Unlined Liner type: Thickness   mil   LLDPE   HDPE   PVC   Other     Liner Seams:   Welded   Factory   Other     A   Below-grade tank: Subsection I of 19.15.17.11 NMAC     Volume:   120   bbl Type of fluid:   Produced Water     Tank Construction material:   Single Wall Steel  |  |
| Pit: Subsection F or G of 19.15.17.11 NMAC   Temporary:   Drilling   Workover     Permanent   Emergency   Cavitation   P&A     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     String-Reinforced   Subsection H of 19.15.17.11 NMAC     Closed-loop System: Subsection H of 19.15.17.11 NMAC     Type of Operation:   P&A   Drilling a new well   Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)     Drying Pad   Above Ground Steel Tanks   Haul-off Bins   Other     Lined   Unlined Liner type: Thickness   mil   LLDPE   HDPE   PVC   Other     Liner Seams:   Welded   Factory   Other     Melow-grade tank: Subsection I of 19.15.17.11 NMAC     Volume:   120   bbl Type of fluid:   Produced Water     Tank Construction material:   Single Wall Steel   | Surface Owner:  Federal State Private Tribal Trust or Indian Allotment   |
| Type of Operation:  P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)  Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other Liner Seams: Welded Factory Other  4.  Below-grade tank: Subsection I of 19.15.17.11 NMAC  Volume: 120 bbl Type of fluid: Produced Water  Tank Construction material: Single Wall Steel  | ☐ Pit:       Subsection F or G of 19.15.17.11 NMAC         Temporary:       ☐ Drilling       ☐ Workover         ☐ Permanent       ☐ Emergency       ☐ Cavitation       ☐ P&A         ☐ Lined       ☐ Unlined       Liner type:       Thickness _mil       ☐ LLDPE       ☐ HDPE       ☐ PVC       ☐ Other         ☐ String-Reinforced |
| intent)  Drying Pad Above Ground Steel Tanks Haul-off Bins Other  Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other  Liner Seams: Welded Factory Other  4.  Below-grade tank: Subsection I of 19.15.17.11 NMAC  Volume: 120 bbl Type of fluid: Produced Water  Tank Construction material: Single Wall Steel  | Closed-loop System: Subsection H of 19.15.17.11 NMAC   |
| Drying Pad   |  |
| Liner Seams: Welded Factory Other  4.  Below-grade tank: Subsection I of 19.15.17.11 NMAC  Volume: 120 bbl Type of fluid: Produced Water  Tank Construction material: Single Wall Steel  |  |
| 4.  Below-grade tank: Subsection I of 19.15.17.11 NMAC  Volume:120   | Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other  |
| Below-grade tank: Subsection I of 19.15.17.11 NMAC  Volume:120bbl Type of fluid:Produced Water  Tank Construction material:Single Wall Steel   | Liner Seams:  Welded Factory Other   |
| ✓ Secondary containment with leak detection       ✓ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off         ✓ Visible sidewalls and liner       ✓ Visible sidewalls only       ✓ Other         Liner type:       Thickness      mil       ☐ HDPE       ☐ PVC       ☐ Other   | Below-grade tank: Subsection I of 19.15.17.11 NMAC  Volume:120   |

C-144

Alternative Method:

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

| G 4   |                             |
|---|-----------------------------|
| Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)  |                             |
| Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, institution or church)  | hospital,                   |
| ☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet   |                             |
| ☐ Alternate. Please specify Per Tribal Specifications   |                             |
| 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)  |                             |
| 8.  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 19.15.3.103 NMAC  |                             |
| Administrative Approvals 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:  Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau consideration of approval.  Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.   | office for                  |
| 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. Requests regarding changes to certain siting criteria may require administrative approval from the approoffice or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above-grade tanks associated with a closed-loop system. | priate district<br>pproval. |
| Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells  | ☐ Yes ☐ No                  |
| Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site  | ☐ Yes ☐ No                  |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks)  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image  | ☐ Yes ☐ No<br>☐ NA          |
| Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  (Applies to permanent pits)  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image  | ☐ Yes ☐ No<br>☐ NA          |
| Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, 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 incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written approval obtained from the municipality   | Yes No                      |
| Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site   | ☐ 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                  |

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| Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are  |
| attached.  ☐ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC ☐ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC ☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC ☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC   |
| Previously Approved Design (attach copy of design) API Number: or Permit Number:   |
| Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.   |
| Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9  Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC  Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC  |
| Previously Approved Design (attach copy of design)  API Number:  |
| Previously Approved Operating and Maintenance Plan API Number: (Applies only to closed-loop system that use  |
| above ground steel tanks or haul-off bins and propose to implement waste removal for closure)  |
| 13.  |
| Proposed Closure: 19.15.17.13 NMAC  Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.  Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System 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 (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)   |
| Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.  □ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  □ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F 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 G of 19.15.17.13 NMAC |

| Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.1 Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if facilities are required.   |                       |
|---|-----------------------|
| Disposal Facility Name: Disposal Facility Permit Number:  |                       |
| Disposal Facility Name: Disposal Facility Permit Number:  |                       |
| Will any of the proposed closed-loop system operations and associated activities occur on or in areas that <i>will not</i> be used for future ser   Yes (If yes, please provide the information below)  No  | vice and operations?  |
| Required for impacted areas which will not be used for future service and operations:  Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection H of 19.15.17.13 NMA Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC  | C                     |
| 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 may require administrative approval from the appropriate dist considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justi demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.   | rict office or may be |
| Ground water is less than 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<br>☐ NA    |
| Ground water is between 50 and 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<br>☐ 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<br>☐ NA    |
| 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 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 private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, 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                |
| Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written approval obtained from the municipality   | ☐ Yes ☐ No            |
| Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site   | ☐ 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            |
| <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            |
| 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 F of 19.15.17.13 NMAC  Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC  Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.  Protocols and Procedures - based upon the appropriate requirements of 9.15.17.13 NMAC  Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cann Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC | 15.17.11 NMAC         |

C-144 Page 4 of 8 Jicarilla 92 #2A

| 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 belief.  |
|--|
| 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: 4/27/15   |
| Title: Fransonmental Spec. OCD Permit Number:  |
| Closure Report (required within 60 days of closure completion): Subsection K of 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.  The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.   |
| Closure Completion Date:   |
| 22.  Closure Method:  Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only) ☐ If different from approved plan, please explain.   |
| Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.   |
| Disposal Facility Name: Disposal Facility Permit Number:   |
| Disposal Facility Name: Disposal Facility Permit Number:   |
| Were the closed-loop system operations and associated activities performed on or in areas that <i>will not</i> be used for future service and operations?  Yes (If yes, please demonstrate compliance to the items below)  No  |
| Required for impacted areas which will not be used for future service and operations:  Site Reclamation (Photo Documentation)  Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technique  |
| 24. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.  □ Proof of Closure Notice (surface owner and division) □ Proof of Deed Notice (required for on-site closure) □ Plot Plan (for on-site closures and temporary pits) □ Confirmation Sampling Analytical Results (if applicable) □ Waste Material Sampling Analytical Results (required for on-site closure) □ Disposal Facility Name and Permit Number □ Soil Backfilling and Cover Installation □ Re-vegetation Application Rates and Seeding Technique □ Site Reclamation (Photo Documentation) □ On-site Closure Location: Latitude 36.548622 Longitude -107.173653 NAD: □ 1983 |
| 25.  |
| Operator Closure Certification:  I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.  Name (Print):  Vanessa Fields  Title:Environmental Specialist   |
| Signature: Date: 03-10-2015  |
| e-mail address:vanessa.fields@wpxenergy.comTelephone:505-33 <b>3</b> -1880   |

C-144 Page 5 of 8 Jicarilla 92 #2A

### WPX Energy Company. LLC San Juan Basin: New Mexico Assets

Below-Grade Tank Removal Closure Report

Well: (Jicarilla 92 #002A)
API No: 30-039-29944

Location: D-S29-T27N-R05W, NMPM

In accordance with Rule 19.15.17.13 NMAC, the following report describes the general closure of the referenced below-grade tanks (BGT) on WPX Energy Co, LLC (WPX) location in the San Juan Basin of New Mexico. The closure follows this WPX's standard closure procedure for all BGTs regulated under Rule 19.15.17 NMAC and operated by WPX. For those closures which do not conform to the standard closure plan, a separate well/pit specific closure plan will be developed and utilized.

#### **Closure Conditions and Timing:**

Pursuant to 19.15.17.13 (A) NMAC, WPX will initiate closure of any BGT should any one of these conditions occur:

- The Division requires closure because of imminent danger to fresh water, public health or the environment.
- The integrity of the BGT fails. Notification will be within 48 hours to the Division and closure will be schedule as specified in 19.15.17.12 (A) (5) NMAC.
- WPX chooses to take the BGT out-of-service due to operational needs. Closure under these conditions will be initiated within 60 days of cessation of the BGT's operation.
- BGTs installed prior to June 16, 2008 that do not meet the requirements under 19.15.17.11.1(6) NMAC and WPX chooses not to retrofit or upgrade. Closure under these conditions will be completed within five years (by June 16, 2013).

#### General Plan Requirements:

 Prior to initiating any BGT Closure except in the case of an emergency, WPX will review County Tax Records for the current landowner of record. The landowner of record will be notified of the intent to closure the BGT by certified mail and a copy of this notification will be included in the closure report. In the case of an emergency, the landowner of record will be notified as soon as practical.

WPX Energy notified the SMA of its intent to clean close the BGT via Certified Mail on March 10, 2009. No return receipt required per BLM:FFO/NMOCD MOU dated 5/4/09.

- 2. Notice of Closure will be given to the Aztec District office between 72 hours and one week of the scheduled closure via email or phone. The notification of closure will include the following:
  - a. Operators Name (WPX)
  - b. Well Name and API Number
  - c. Location (USTR)

Notification was made via e-mail to the NMOCD and the Jicarilla Tribe on December 22, 2015(see attached e-mail).

3. All piping will be rerouted to an alternative produced water storage/disposal location (e.g. surface tanks, temporary frac tank ...). The well will be temporarily shut-in until the rerouting is completed.

WPX Energy closed the BGT used by the separator and piped all liquids to the Jicarilla 92 #002A Produced Water Storage Tank.

4. All produced water will be removed from the BGT following discharge-pipe rerouting. Produced water will be disposed at one of the following NMOCD approved facilities depending on the proximity of the BGT site: Rosa Unit SWD #1 (Order: SWD-916, API: 30-039-27055), Rosa Unit #94 (Order: SWD-3RP-1003-0, API: 30-039-23035), Jillson Fed. SWD #001

(Order: R10168/R10168A, API: 30-039-25465), Middle Mesa SWD #001 (Order: SWD-350-0, API: 30-045-27004) and/or Basin Disposal (Permit: NM-01-0005).

<u>Produced water in the BGT prior to closures was removed by vacuum truck and hauled to the Rosa Unit disposal wells listed.</u>

5. Solids and sludges will be shoveled and /or vacuumed out for disposal at Envirotech (Permit Number NM-01-0011).

<u>Solids or sludge required removal prior to excavation and removal of the tank. Tank bottoms</u> were removed and disposed of at Envirotech Land Farm (see attached C-138).

6. WPX Energy will obtain prior approval from NMOCD to dispose, recycle, reuse, or reclaim the BGT and provide documentation of the disposition of the BGT in the closure report. Steel materials will be recycled or reused as approved by the Division. Fiberglass tanks will be empty, cut up or shredded, and EPA cleaned for disposal as solid waste. Liners materials will be cleaned without soils or contaminated material for disposal as solid waste. Fiberglass tanks and liner materials will meet the conditions of paragraph 1 subsection D or 19.15.9.712 NMAC. Disposal will be at a licensed disposal facility, presently San Juan Regional Landfill operated by Waste Management under NMED Permit SWM-052426.

The single wall steel tank and plastic liner was disposed of at the San Juan Regional Landfill.

- 7. Any equipment associated with the BGT that is no longer required for some other purpose, following the closure will be removed from the location.

  The steel tank and plastic liner were removed offsite. All other piping and equipment remains in use as a new double wall double bottom steel tank was installed.
- 8. Following removal of the tank and any liner material, a five-point composite sample will be taken of the excavation and tested per 19.15.17.13(E)(4) NMAC as identified in Table 1. Grab samples will be collected from any area that is wet, discolored or showing other evidence of a release. Results will be report to the Division following receipt from the lab on Form C-141.

Table 1: Closure Criteria for BGTs

| Components | Testing Methods                  | Closure Limits<br>(mg/Kg) | Sample<br>Results<br>(mg/Kg) |
|------------|----------------------------------|---------------------------|------------------------------|
| Benzene    | EPA SW-846 Method 8021B or 8260B | 0.2                       | ND                           |
| BTEX       | EPA SW-846 Method 8021B or 8260B | 50                        | ND                           |
| TPH        | EPA SW-846 Method 418.1(1)       | 100                       | ND                           |
| Chlorides  | EPA SW-846 Method 300.1(1)       | 250(2)                    | ND                           |

<sup>(1)</sup> Method modified for solid waste.

9. If the Division and/or WPX Energy determine there is a release, WPX Energy will comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC.

Release was not detected per NMOCD pit rule soil samples were taken with the 418.1 method and transferred to the spill rule with results of non-detect. No further action required.

10. Upon completion of the tank removal, and any necessary soil remediation, the excavation will be backfilled with non-waste earthen material compacted to native and covered with a minimum of one foot of top soil or background thickness. The surface will be recontoured to match the native grade.

A new double wall double bottom steel tank was instaled following sample results. No contaminated soil taken off site.

11. For those portions of the former pit area no longer required for production activities, WPX will seed the disturbed areas the first growing season after the pit is covered. Seeding will be accomplished via drilling on the contour whenever practical, or by other Division-approved methods. Vegetative cover will equal 70% of the native perennial vegetative cover (unimpacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintained that cover through two successive growing

<sup>[2]</sup> If background concentration of Chlorides greater than 250 mg/Kg, then higher concentration will be used for closure.

seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs. Note: WPX assumes the seeding stipulations including mix and seeding methods specified by the Surface Management Agency (BLM, BOR, USFS, Tribal, etc.) APD are Division-approved methods unless notified by the Division of their unacceptability. If a landowner agreement requires reseeding or other surface restoration that does not meet the revegetation requirements of 19.15.17.13., I then WPX will submit the proposed alternative with written documentation that the landowner agrees to the alternative, for Division approval.

<u>Pit area along with unused portions of well pad interim reclaimed and following P&A entire</u> <u>location to be reclaimed and recontoured in accordance with Surface Management Agency requirements in APD-COAs and per BLM:FFO/NMOCD MOU dated 5/4/09.</u>

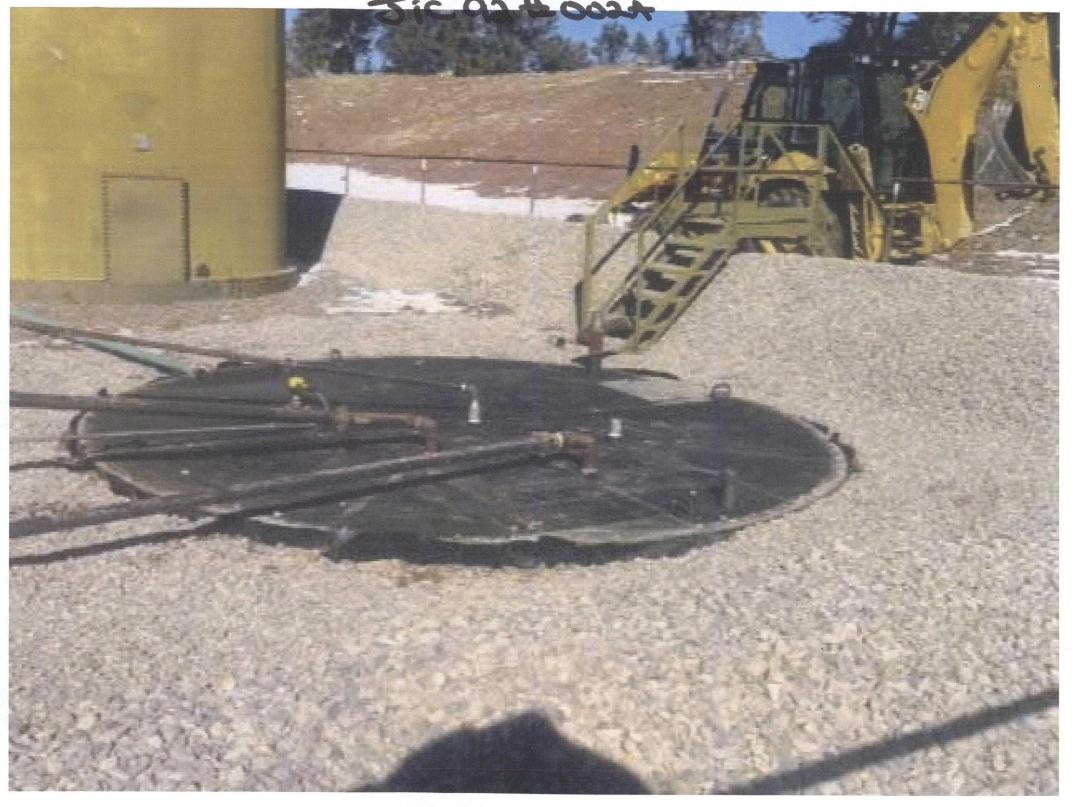
**12.** For those portions of the former pit area required for production activities, reseeding will be done at well abandonment, and following the procedure noted above. See above notes.

### Closure Report:

All closure activities will include proper documentation and will be submitted to OCD within 60 days of the BGT closure on a Closure Report using Division Form C-144. The Report will include the following:

- Proof of Closure Notice (surface owner & NMOCD)
- Backfilling & Cover Installation
- Site Diagram with coordinates
- Available Inspection reports

- Confirmation Sampling Analytical Results
- Disposal Facility Name(s) and Permit Number(s)
- Re-vegetation Application Rate & Seeding techniques
- Photo Documentation of Reclamation



### Fields, Vanessa

From:

Bradshaw, Rob

Sent:

Monday, December 22, 2014 7:11 AM

To:

Fields, Vanessa; Lepich, Mark

Cc:

BryceHammond@jicarillaoga.com; Powell, Brandon, EMNRD; Smith, Cory, EMNRD;

Heckman, Curt

Subject:

Re: Jicarilla 92 #002A BGT replacement

All,

Our schedule is to deliver the new BGT to location 12/22 and begin excavation and removal of existing BGT 12/23 after removal of Jic 92-17A BGT. At that time we will collect soil samples. Please contact me with any questions or concerns.

Thank you.

Robert Bradshaw
Construction Specialist
WPX Energy
(505) 386-8887
robert.bradshaw@wpxenergy.com

On Dec 21, 2014, at 8:16 AM, Fields, Vanessa < Vanessa. Fields@wpxenergy.com > wrote:

Good Morning,

WPX Energy will be removing the existing single wall steel tank and replacing to a double wall double bottom steel tank on the Jicarilla 92 #002A Monday December 22,2014 around 2:00pm. Please contact Construction Specialist Rob Bradshaw (505-386-8887) for an exact time of the BGT modification if you request to be onsite.

| API#         | SEC | TWN | RNG |
|--------------|-----|-----|-----|
| 30-039-29944 | D29 | 27N | 03W |

Please let me know if you have any questions and/or concerns.

Thank you,

Vanessa Fields
Environmental Specialist
Office# 505-333-1880
Fax# 505-333-1805
Cell# 505-419-6219
vanessa.fields@wpxenergy.com
<imageO01.jpg>



# **Analytical Report**

### **Report Summary**

Client: WPX Energy, Inc.

Chain Of Custody Number: 17424

Samples Received: 12/24/2014 7:15:00AM

Job Number: 04108-0136

Work Order: P412080

Project Name/Location: BGT Removal/ Jicarilla

92-2A

Entire Report Reviewed By:

Date:

1/5/15

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



PO Box 21218

Tulsa OK, 74121-1358

Project Name:

BGT Removal/ Jicarilla 92-2A

Project Number: Project Manager: 04108-0136

Vanessa Fields

Reported:

05-Jan-15 11:17

# **Analyical Report for Samples**

| Client Sample ID                 | Lab Sample ID | Matrix | Sampled  | Received | Container        |
|----------------------------------|---------------|--------|----------|----------|------------------|
| Lat:36.54497 N Long: 107.17692 W | P412080-01A   | Soil   | 12/23/14 | 12/24/14 | Glass Jar, 4 oz. |

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Project Name:

BGT Removal/ Jicarilla 92-2A

PO Box 21218 Tulsa OK, 74121-1358 Project Number: Project Manager: 04108-0136 Vanessa Fields

**Reported:** 05-Jan-15 11:17

### Lat:36.54497 N Long: 107.17692 W P412080-01 (Solid)

| Acaba                                 | Donale | Reporting | 11-24- | Dilution | Datab   | D        | A I I    | Mada      | Neter |
|---------------------------------------|--------|-----------|--------|----------|---------|----------|----------|-----------|-------|
| Analyte                               | Result | Limit     | Units  | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
| Volatile Organics by EPA 8021         |        |           |        |          |         |          |          |           |       |
| Benzene                               | ND     | 0.10      | mg/kg  | 1        | 1452013 | 12/24/14 | 12/24/14 | EPA 8021B |       |
| Toluene                               | ND     | 0.10      | mg/kg  | 1        | 1452013 | 12/24/14 | 12/24/14 | EPA 8021B |       |
| Ethylbenzene                          | ND     | 0.10      | mg/kg  | 1        | 1452013 | 12/24/14 | 12/24/14 | EPA 8021B |       |
| p,m-Xylene                            | ND     | 0.20      | mg/kg  | 1        | 1452013 | 12/24/14 | 12/24/14 | EPA 8021B |       |
| o-Xylene                              | ND     | 0.10      | mg/kg  | 1        | 1452013 | 12/24/14 | 12/24/14 | EPA 8021B |       |
| Total Xylenes                         | ND     | 0.10      | mg/kg  | 1        | 1452013 | 12/24/14 | 12/24/14 | EPA 8021B |       |
| Total BTEX                            | ND     | 0.10      | mg/kg  | 1        | 1452013 | 12/24/14 | 12/24/14 | EPA 8021B |       |
| Surrogate: 4-Bromochlorobenzene-PID   |        | 103 %     | 50-    | 150      | 1452013 | 12/24/14 | 12/24/14 | EPA 8021B |       |
| Nonhalogenated Organics by 8015       |        |           |        |          |         |          |          |           |       |
| Gasoline Range Organics (C6-C10)      | ND     | 10.0      | mg/kg  | 1        | 1452013 | 12/24/14 | 12/24/14 | EPA 8015D |       |
| Diesel Range Organics (C10-C28)       | ND     | 30.0      | mg/kg  | 1        | 1452012 | 12/24/14 | 12/24/14 | EPA 8015D |       |
| Surrogate: o-Terphenyl                |        | 100 %     | 50-    | 200      | 1452012 | 12/24/14 | 12/24/14 | EPA 8015D |       |
| Surrogate: 4-Bromochlorobenzene-FID   |        | 93.1 %    | 50-    | 150      | 1452013 | 12/24/14 | 12/24/14 | EPA 8015D |       |
| Total Petroleum Hydrocarbons by 418.1 |        |           |        |          |         |          |          |           |       |
| Total Petroleum Hydrocarbons          | ND     | 35.0      | mg/kg  | 1        | 1453001 | 12/29/14 | 12/29/14 | EPA 418.1 |       |
| Cation/Anion Analysis                 |        |           |        |          |         |          |          |           |       |
| Chloride                              | ND     | 9.81      | mg/kg  | Í        | 1452014 | 12/24/14 | 12/24/14 | EPA 300.0 |       |
|                                       |        |           |        |          |         |          |          |           |       |

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Project Name:

BGT Removal/ Jicarilla 92-2A

PO Box 21218 Tulsa OK, 74121-1358 Project Number: Project Manager: 04108-0136 Vanessa Fields **Reported:** 05-Jan-15 11:17

### Volatile Organics by EPA 8021 - Quality Control

#### **Envirotech Analytical Laboratory**

|         |        | Reporting |       | Spike | Source |      | %REC   |     | RPD   |       |
|---------|--------|-----------|-------|-------|--------|------|--------|-----|-------|-------|
| Analyte | Result | Limit     | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |

| Batch 1452013 - Purge and Trap EPA 5 | 5030A  |            |       |            |           |             |        |      |    |  |
|--------------------------------------|--------|------------|-------|------------|-----------|-------------|--------|------|----|--|
| Blank (1452013-BLK1)                 |        |            |       | Prepared & | Analyzed  | : 24-Dec-14 | 4      |      |    |  |
| Benzene                              | ND     | 0.10       | mg/kg |            |           |             |        |      |    |  |
| Toluene                              | ND     | 0.10       | 11    |            |           |             |        |      |    |  |
| Ethylbenzene                         | ND     | 0.10       | 11    |            |           |             |        |      |    |  |
| p,m-Xylene                           | ND     | 0.20       | 11    |            |           |             |        |      |    |  |
| o-Xylene                             | ND     | 0.10       | 11    |            |           |             |        |      |    |  |
| Total Xylenes                        | ND     | 0.10       | 11    |            |           |             |        |      |    |  |
| Total BTEX                           | ND     | 0.10       | 0     |            |           |             |        |      |    |  |
| Surrogate: 4-Bromochlorobenzene-PID  | 0.410  |            | "     | 0.399      |           | 103         | 50-150 |      |    |  |
| LCS (1452013-BS1)                    |        |            |       | Prepared & | Analyzed  | : 24-Dec-14 | 4      |      |    |  |
| Benzene                              | 19.0   | 0.10       | mg/kg | 19.9       |           | 95.1        | 75-125 |      |    |  |
| Toluene                              | 19.3   | 0.10       | 9     | 19.9       |           | 96.9        | 70-125 |      |    |  |
| Ethylbenzene                         | 19.7   | 0.10       | Ü     | 19.9       |           | 98.7        | 75-125 |      |    |  |
| p,m-Xylene                           | 40.2   | 0.20       | 11    | 39.9       |           | 101         | 80-125 |      |    |  |
| o-Xylene                             | 20.0   | 0.10       | 11    | 19.9       |           | 100         | 75-125 |      |    |  |
| Surrogate: 4-Bromochlorobenzene-PID  | 0.435  |            | 11    | 0.399      |           | 109         | 50-150 |      |    |  |
| Matrix Spike (1452013-MS1)           | Source | : P412078- | -01   | Prepared & | Analyzed  | 24-Dec-14   | 1      |      |    |  |
| Benzene                              | 20.8   | 0.10       | mg/kg | 20.0       | ND        | 104         | 75-125 |      |    |  |
| Toluene                              | 21.3   | 0.10       | 0     | 20.0       | ND        | 107         | 70-125 |      |    |  |
| Ethylbenzene                         | 21.6   | 0.10       | 0     | 20.0       | ND        | 108         | 75-125 |      |    |  |
| p,m-Xylene                           | 44.0   | 0.20       | ti .  | 39.9       | ND        | 110         | 80-125 |      |    |  |
| o-Xylene                             | 21.6   | 0.10       | 11    | 20.0       | ND        | 108         | 75-125 |      |    |  |
| Surrogate: 4-Bromochlorobenzene-P1D  | 0.401  |            | 11    | 0.399      |           | 101         | 50-150 |      |    |  |
| Matrix Spike Dup (1452013-MSD1)      | Source | : P412078- | -01   | Prepared & | Analyzed: | 24-Dec-14   | 1      |      |    |  |
| Benzene                              | 20.1   | 0.10       | mg/kg | 19.9       | ND        | 101         | 75-125 | 3.58 | 15 |  |
| Toluene                              | 20.5   | 0.10       | U     | 19.9       | ND        | 103         | 70-125 | 3.71 | 15 |  |
| Ethylbenzene                         | 20.9   | 0.10       | 30    | 19.9       | ND        | 105         | 75-125 | 3.59 | 15 |  |
| o,m-Xylene                           | 42.5   | 0.20       | 11    | 39.9       | ND        | 107         | 80-125 | 3.52 | 15 |  |
| o-Xylene                             | 20.9   | 0.10       | 10    | 19.9       | ND        | 105         | 75-125 | 3.07 | 15 |  |
| Surrogate: 4-Bromochlorobenzene-PID  | 0.410  |            | "     | 0.399      |           | 103         | 50-150 |      |    |  |

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5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

envirotech-inc.com



Project Name:

BGT Removal/ Jicarilla 92-2A

PO Box 21218

Analyte

Surrogate: o-Terphenyl

Project Number: Project Manager:

Reporting

Result

45.2

Limit

04108-0136

Spike

Level

39.9

Source

Result

%REC

113

%REC

Limits

50-200

RPD

Reported:

Tulsa OK, 74121-1358

Vanessa Fields

05-Jan-15 11:17

RPD

Limit

Notes

#### Nonhalogenated Organics by 8015 - Quality Control

### **Envirotech Analytical Laboratory**

Units

| Blank (1452012-BLK1)            |        |             |       | Prepared & | Analyzed: | 24-Dec-14 |        |  |
|---------------------------------|--------|-------------|-------|------------|-----------|-----------|--------|--|
| Diesel Range Organics (C10-C28) | ND     | 29.9        | mg/kg |            |           |           |        |  |
| Surrogate: o-Terphenyl          | 40.9   |             | "     | 39.9       |           | 103       | 50-200 |  |
| LCS (1452012-BS1)               |        |             |       | Prepared & | Analyzed: | 24-Dec-14 |        |  |
| Diesel Range Organics (C10-C28) | 520    | 29.9        | mg/kg | 498        |           | 104       | 38-132 |  |
| Surrogate: o-Terphenyl          | 41.3   |             | "     | 39.9       |           | 103       | 50-200 |  |
| Matrix Spike (1452012-MS1)      | Source | e: P412078- | 01    | Prepared & | Analyzed: | 24-Dec-14 |        |  |
| Diesel Range Organics (C10-C28) | 576    | 29.9        | mg/kg | 499        | ND        | 116       | 38-132 |  |

| Matrix Spike Dup (1452012-MSD1) | Source | Prepared & | Analyzed: | 24-Dec-14 | 4  |     |        |       |    |  |
|---------------------------------|--------|------------|-----------|-----------|----|-----|--------|-------|----|--|
| Diesel Range Organics (C10-C28) | 572    | 30.0       | mg/kg     | 499       | ND | 115 | 38-132 | 0.697 | 20 |  |
| Surrogate: o-Terphenyl          | 43.0   |            | n         | 40.0      |    | 108 | 50-200 |       |    |  |

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Project Name:

BGT Removal/ Jicarilla 92-2A

PO Box 21218

Analyte

Project Number:

04108-0136

Reported:

Tulsa OK, 74121-1358

Gasoline Range Organics (C6-C10)

Surrogate: 4-Bromochlorobenzene-FID

Project Manager:

Reporting

Limit

9.97

Result

297

0.370

Vanessa Fields

Spike

Level

291

0.399

10.6

Source

Result

%REC

05-Jan-15 11:17

RPD

Limit

Notes

%REC

Limits

75-125

50-150

92.9

3.72

15

RPD

### Nonhalogenated Organics by 8015 - Quality Control

#### **Envirotech Analytical Laboratory**

Units

| Blank (1452013-BLK1)                |        | Prepared & Analyzed: 24-Dec-14 |       |            |                                |           |        |  |  |
|-------------------------------------|--------|--------------------------------|-------|------------|--------------------------------|-----------|--------|--|--|
| Gasoline Range Organics (C6-C10)    | ND     | 9.97                           | mg/kg |            |                                |           |        |  |  |
| Surrogate: 4-Bromochlorobenzene-FID | 0.372  |                                | "     | 0.399      |                                | 93.3      | 50-150 |  |  |
| LCS (1452013-BS1)                   |        |                                |       | Prepared & | Analyzed:                      | 24-Dec-14 |        |  |  |
| Gasoline Range Organics (C6-C10)    | 279    | 9.97                           | mg/kg | 291        |                                | 95.8      | 80-120 |  |  |
| Surrogate: 4-Bromochlorobenzene-FID | 0.393  |                                | "     | 0.399      |                                | 98.7      | 50-150 |  |  |
| Matrix Spike (1452013-MS1)          | Source | Source: P412078-01             |       |            | Prepared & Analyzed: 24-Dec-14 |           |        |  |  |
| Gasoline Range Organics (C6-C10)    | 308    | 9.98                           | mg/kg | 291        | 10.6                           | 102       | 75-125 |  |  |
| Surrogate: 4-Bromochlorobenzene-F1D | 0.364  |                                | 11    | 0.399      |                                | 91.3      | 50-150 |  |  |
| Matrix Spike Dup (1452013-MSD1)     | Source | e: P412078-                    | 01    | Prepared & | Analyzed:                      | 24-Dec-14 |        |  |  |

mg/kg

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Ph (505) 632-0615 Fx (505) 632-1865

envirotech-inc.com



Project Name:

Reporting

BGT Removal/ Jicarilla 92-2A

PO Box 21218

Project Number: Tulsa OK, 74121-1358

04108-0136

Spike

Reported:

Project Manager: Vanessa Fields 05-Jan-15 11:17

RPD

%REC

### Total Petroleum Hydrocarbons by 418.1 - Quality Control

### **Envirotech Analytical Laboratory**

| Analyte                              | Result | Limit       | Units | Level      | Result    | %REC      | Limits | RPD | Limit | Notes |
|--------------------------------------|--------|-------------|-------|------------|-----------|-----------|--------|-----|-------|-------|
| Batch 1453001 - 418 Freon Extraction |        |             |       |            |           |           |        |     |       |       |
| Blank (1453001-BLK1)                 |        |             |       | Prepared & | Analyzed: | 29-Dec-14 |        |     |       |       |
| Total Petroleum Hydrocarbons         | ND     | 35.0        | mg/kg |            |           |           |        |     |       |       |
| Duplicate (1453001-DUP1)             | Sourc  | e: P412079- | 01    | Prepared & | Analyzed: | 29-Dec-14 |        |     |       |       |
| Total Petroleum Hydrocarbons         | ND     | 35.0        | mg/kg |            | 52.1      |           |        |     | 30    |       |
| Matrix Spike (1453001-MS1)           | Sourc  | e: P412079- | 01    | Prepared & | Analyzed: | 29-Dec-14 |        |     |       |       |
| Total Petroleum Hydrocarbons         | 1960   | 35.0        | mg/kg | 2020       | 52.1      | 94.3      | 80-120 |     |       |       |

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Project Name:

BGT Removal/ Jicarilla 92-2A

PO Box 21218

Project Number:

04108-0136

Spike

Reported:

Tulsa OK, 74121-1358

Project Manager:

Reporting

Vanessa Fields

05-Jan-15 11:17

RPD

%REC

#### Cation/Anion Analysis - Quality Control

#### **Envirotech Analytical Laboratory**

| Analyte                                    | Result  | Limit        | Units | Level      | Result     | %REC        | Limits | RPD  | Limit | Notes |
|--|---|--------------|-------|------------|------------|-------------|--------|------|-------|-------|
| Batch 1452014 - Anion Extraction EPA 300.0 |   |              |       |            |            |             |        |      |       |       |
| Blank (1452014-BLK1)                       |   |              |       | Prepared & | k Analyzed | : 24-Dec-14 |        |      |       |       |
| Chloride                                   | ND  | 9.99         | mg/kg |            |            |             |        |      |       |       |
| LCS (1452014-BS1)                          |   |              |       | Prepared & | k Analyzed | : 24-Dec-14 |        |      |       |       |
| Chloride                                   | 480   | 9.91         | mg/kg | 495        |            | 96.9        | 90-110 |      |       |       |
| Matrix Spike (1452014-MS1)                 | Source: P412078-01 Prepared & Analyzed: 24-Dec- |              |       |            |            |             |        |      |       |       |
| Chloride                                   | 830   | 9.91         | mg/kg | 496        | 304        | 106         | 80-120 |      |       |       |
| Matrix Spike Dup (1452014-MSD1)            | Sour  | ce: P412078- | 01    | Prepared & | k Analyzed | : 24-Dec-14 |        |      |       |       |
| Chloride                                   | 809   | 9.97         | mg/kg | 499        | 304        | 101         | 80-120 | 2.45 | 20    |       |

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5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

horatory@envirotech-inc.com



Tulsa OK, 74121-1358

Project Name:

Project Manager:

BGT Removal/ Jicarilla 92-2A

PO Box 21218

Project Number:

04108-0136 Vanessa Fields **Reported:** 05-Jan-15 11:17

**Notes and Definitions** 

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

dry

Sample results reported on a dry weight basis

RPD

Relative Percent Difference

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|   | 7    |  |
|---|------|--|
|   | - 10 |  |
| 1 | usv  |  |
|   |      |  |

# CHAIN OF CUSTODY RECORD

17424

| Client:                       |  |  | Project Name / Location:   |  |       |         |                   |                    | ANALYSIS / PARAMETERS |               |                |      |               |                |             |          |        |        |             |               |       |  |  |  |  |
|-------------------------------|--|--|--|--|-------|---------|-------------------|--------------------|-----------------------|---------------|----------------|------|---------------|----------------|-------------|----------|--------|--------|-------------|---------------|-------|--|--|--|--|
| MPX Every                     |  | P  | GT lemoval   | Juanilla 9   | 2-2   | A       |                   |                    | ,                     |               |                |      |               |                |             |          |        |        |             |               |       |  |  |  |  |
| Email results to:             |  | S  | Sampler Name:  |  |       |         |                   |                    | 21)                   | (00           |                |      |               |                |             |          |        |        |             |               |       |  |  |  |  |
| Vanessa. Fields e worker      | nevay, con   | 2  | SGT lemoval / Ticavilla 92-29 Sampler Name: Robert Bradshaw Client No.: 04108-0136 |  |       |         |                   |                    | d 80                  | 826           | S              |      |               | 0              | 7           |          |        |        |             |               |       |  |  |  |  |
| Client Phone No.:             |  | C  | lient No.:   | - 11   |       |         |                   | pou                | thoc                  | hod           | eta            | noin |               | H              | 910         | =        | ш      |        |             | 100           | tact  |  |  |  |  |
| 1505) 419-6219                |  |  | 0410   | 8-0136   |       |         |                   | Met                | (Me                   | Met           | 8 8            | / Aı |               | with           | ple         | 118,     | RID    |        |             | e Cc          | e III |  |  |  |  |
| Sample No./ Identification    | Sample<br>Date   | Sample<br>Time                                   | Lab No.  | No./Volume Preservative of Containers HNO <sub>3</sub> HCI |       | ative   | TPH (Method 8015) | BTEX (Method 8021) | VOC (Method 8260)     | RCRA 8 Metals | Cation / Anion | RCI  | TCLP with H/P | CO Table 910-1 | TPH (418,1) | CHLORIDE | 1      |        | Sample Cool | Sample Intact |       |  |  |  |  |
| Lat: 31e 54497 N              |  |  | DILI2080-01  | 43   |       |         |                   |                    |                       |               |                |      |               |                |             |          |        |        |             | 1             | 1     |  |  |  |  |
| Long: 107. 171892 W           | 12/23/14   | 18-00A   | n P412080-01   | 1- 4-07  | -     |         | -                 | X                  | X                     |               |                |      |               |                |             | X        | X      |        |             | -             |       |  |  |  |  |
| ·                             |  |  |  |  |       | : :     |                   |                    |                       |               |                |      |               |                |             |          |        |        |             |               |       |  |  |  |  |
|                               |  |  |  |  | 1     |         |                   |                    |                       |               |                |      |               |                |             |          |        |        |             |               |       |  |  |  |  |
|                               |  |  |  |  | 1     |         |                   |                    |                       |               |                |      |               |                |             |          |        |        |             |               |       |  |  |  |  |
|                               |  |  |  |  |       |         |                   |                    |                       |               |                |      |               |                |             |          |        |        |             | +             |       |  |  |  |  |
|                               |  |  |  |  |       |         |                   |                    |                       |               |                |      |               |                |             |          | ****** |        |             |               |       |  |  |  |  |
|                               | - Annual Control of the Control of t |  |  |  |       |         |                   |                    |                       |               |                |      |               |                |             |          |        |        |             |               |       |  |  |  |  |
|                               |  |  |  |  | -     |         |                   |                    |                       |               |                |      |               |                |             |          |        |        |             | +             |       |  |  |  |  |
| - 1-7-100                     |  |  |  |  | +     |         |                   |                    |                       |               |                |      |               |                |             |          |        |        |             | -             |       |  |  |  |  |
| •                             |  |  |  |  |       |         |                   |                    |                       |               |                |      |               |                |             |          |        |        |             | 1             | -     |  |  |  |  |
|                               |  |  |  |  |       | <u></u> |                   |                    |                       |               |                |      |               |                |             |          |        |        |             |               |       |  |  |  |  |
| Relinquished by: (Signature)  | $\bigcirc$   |  |  | Date Time  | Rece  | ived    | by: (S            | Signat             | ure)                  |               |                |      |               |                |             |          |        |        | Dat         | 1             | Time  |  |  |  |  |
| Relinquished by: (Signature)  | James Comments of the Comments | and the section of the section of the section of | 121  | 2314/10pg  | Poor  | ivad    | by: (S            | iana               | 5 m                   | *****         |                |      |               |                |             |          |        |        | 12/24,      | 14/1          | 117   |  |  |  |  |
| Relinquistred by. (Signature) |  |  |  |  | nece  | iveu    | υу. (З            | nyman              | ur <del>e</del> )     |               |                |      |               |                |             |          |        |        |             |               |       |  |  |  |  |
| Sample Matrix                 |  |  |  |  |       |         |                   |                    |                       |               |                |      |               |                |             |          |        |        |             |               |       |  |  |  |  |
| Soil Solid Sludge             | Aqueous [  | ] Other[   |  |  |       |         |                   |                    |                       |               |                |      |               |                |             |          |        |        |             |               |       |  |  |  |  |
| ☐ Sample(s) dropped off after | r hours to se  | cure drop  | off area.  | env  | ir    | ot      | e                 | cl                 | 1 5                   | 5.4           |                |      |               |                |             |          |        |        | ,           |               |       |  |  |  |  |
|                               |  |  |  |  |       |         |                   |                    |                       |               |                |      |               |                |             |          |        |        |             |               |       |  |  |  |  |
| 5795 US Highway 6             | 64 • Farmingt  | on, NM 87  | 401 • 505-632-0615 •   | Three Springs • 65 !                                       | Merco | ido St  | treet,            | Suite              | 115, 0                | uran          | go, C          | 0 81 | 301 •         | labo           | rator       | y@en     | virote | ech-in | c.com       |               |       |  |  |  |  |

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

\*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

Form C-138

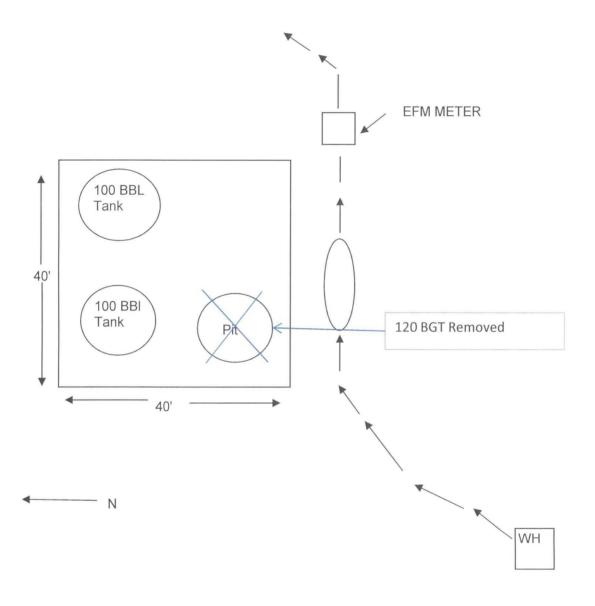
Revised August 1, 2011

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

| REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE  |
|---|
| 1. Generator Name and Address:<br>WPX ENERGY Co, PO Box 640, Aztec, NM  |
| Disposal Requested by: Curt Heckman   |
| 2. Originating Site: Jicarilla 92 #002A (30-039-2944)   |
| 3. Location of Material (Street Address, City, State or ULSTR): D 29 27N 03W NMPM Rio Arriba Co., NM  |
| 4. Source and Description of Waste:   |
| Tank bottoms (produced water & oil) from removing fiberglass tank from service  |
| Estimated Volumeyd³ / bbls Known Volume (to be entered by the operator at the end of the haul) yd³ / bbls   |
| 5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS  I, Vanessa K. Fields WPX Energy Co., do hereby  RINT & SIGN NAME  certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)   |
| RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.  **Operator Use Only: Waste Acceptance Erequency   Monthly   Weekly   Per Load  |
| RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)  |
| ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)   |
| GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS  I, Vanessa K. Fields  content and that the samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC. |
| 5. Transporter: Badger  |
| OCD Permitted Surface Waste Management Facility   |
| Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility Permit # NM-01-0011   |
| Address of Facility: #43 Road 7175, south of Bloomfield NM  |
| Method of Treatment and/or Disposal:  |
| ☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other  |
| Waste Acceptance Status:  APPROVED  DENIED (Must Be Maintained As Permanent Record)   |
| PRINT NAME: DATE:   |
| SIGNATURE: TELEPHONE NO.:   |
| Surface Waste Management Facility Authorized Agent  |

JICARILLA 92-2A Sec 29 T27 R3 Rio Arriba, Co 36. 548622 -107.173653



Report Date: Thursday, March 12, 2015 10:31 AM

Inspection ID: 41667

# A. General Information

Date Inspected: 1/20/2014 12:00 AM

Tank:

53700 (Serial Number: T5195)

Technician: Mark Glover

Workorder Required?:

No

### **B. Inspection Information**

Leak Detection Level (in):

(

Pit Level (in):

23

Page 1 of 1

Report Date: Thursday, March 12, 2015 10:32 AM

Inspection ID: 44376

### **A. General Information**

Date Inspected: 2/20/2014 12:00 AM

Tank.

53700 (Serial Number: T5195)

Technician:

Mark Glover

Workorder Required?:

No

### **B. Inspection Information**

Leak Detection Level (in):

0

Pit Level (in):

4

Page 1 of 1

Report Date: Thursday, March 12, 2015 10:33 AM

Inspection ID: 46523

Page 1 of 1

### **A. General Information**

Date Inspected: 3/23/2014 12:00 AM Tank: 53700 (Serial Number

53700 (Serial Number: T5195)

Technician:
Mark Glover
Workorder Required?:
No

# **B. Inspection Information**

Leak Detection Level (in):
0
Pit Level (in):
20

Report Date: Thursday, March 12, 2015 10:33 AM

Inspection ID: 49997

### **A. General Information**

Date Inspected: 4/20/2014 12:00 AM

Tank:

53700 (Serial Number: T5195)

Technician: Mark Glover

Workorder Required?:

No

### **B. Inspection Information**

Leak Detection Level (in):

n/a

Pit Level (in):

17

Page 1 of 1

Report Date: Thursday, March 12, 2015 10:34 AM Inspection ID: 53455 Page 1 of 1

# **A. General Information**

Date Inspected: 5/20/2014 12:00 AM

Tank: 53700 (Serial Number: T5195)

Technician: Mark Glover

Workorder Required?:

### **B. Inspection Information**

No

Leak Detection Level (in): 0 Pit Level (in): 17

Report Date: Thursday, March 12, 2015 10:35 AM

Inspection ID: 56179

# **A. General Information**

Date Inspected: 6/22/2014 12:00 AM

Tank:

53700 (Serial Number: T5195)

Technician:

Mark Glover

Workorder Required?:

No

# **B. Inspection Information**

Leak Detection Level (in):

0

Pit Level (in):

8

Page 1 of 1

Report Date: Thursday, March 12, 2015 10:37 AM

Inspection ID: 64883

Page 1 of 1

### **A. General Information**

Date Inspected: 8/10/2014 12:00 AM

Tank.

53700 (Serial Number: T5195)

Technician:

Michael Cordova

Workorder Required?:

No

# **B. Inspection Information**

Leak Detection Level (in):

6

Pit Level (in):

(

Report Date: Thursday, March 12, 2015 10:37 AM

Inspection ID: 79839

Page 1 of 1

# **A. General Information**

Date Inspected: 12/29/2014 12:00 AM

Tank: 53700 (Serial Number: T5195)

Technician: Michael Cordova

Workorder Required?:

# **B. Inspection Information**

No

Leak Detection Level (in): 0 Pit Level (in): 20