District II
1625 N French Dr., Hobbs, NM 88240
District III
1301 W. Grand Avenue, 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

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 provide a copy to the appropriate NMOCD District Office.

4	4	8
-		 \sim

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 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 nvironment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator:Williams Production Co, LLCOGRID #:120782
Address:PO Box 640/721 So. Main, Aztec, NM 87410
Facility or well name:Rosa Unit #147A
API Number: 30-039-25796
U/L or Qtr/Qtr H Section 33 Township 31N Range 05W County: Rio Arriba
Center of Proposed Design: Latitude36.85831 Longitude 107.36289 NAD: □1927 ☑ 1983
Surface Owner: ☑ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment
2
☐ Pit: Subsection F or G of 19.15.17.11 NMAC
Temporary: Drilling Workover
Permanent Emergency Cavitation P&A
☐ Lined ☐ Unlined Liner type: Thicknessmil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
☐ String-Reinforced
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
3.
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: Thicknessmil LLDPE HDPE PVC Other
Drying Pad
4. Selow-grade tank: Subsection I of 19.15.17.11 NMAC Volume:120bbl Type of fluid:Produced Water Tank Construction material: FIBERGLASS TANK w/BANDED 20-mil HDPE SECONDARY LINER
Company of the control of the contro
Volume:120bbl Type of fluid:Produced Water Tank Construction material: FIBERGLASS TANK w/BANDED 20-mil HDPE SECONDARY LINER ☑ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
Wisible sidewalls and lines . Wisible sidewalls only . Other
Liner type: Thickness 40 mil HDPE PVC Other LLDPE
5.
J Visible sidewalls and liner □ Visible sidewalls only □ Other
5. Alternative Method:

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify	hospital,
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other Monthly inspections (If netting or screening is not physically feasible)	
Signs: Subsection C of 19.15.17.11 NMAC 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers Signed in compliance with 19.15.3.103 NMAC	
9. 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.	ppriate district approval.
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
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
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

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:
12.
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. 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
☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
Climatological Factors Assessment
☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Quality Control/Quality Assurance Construction and Installation Plan ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
 □ Nuisance or Hazardous Odors, including H₂S, Prevention Plan □ Emergency Response Plan
Oil Field Waste Stream Characterization
Monitoring and Inspection Plan
Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
14.
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 I of 19.15.17.13 NMAC
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

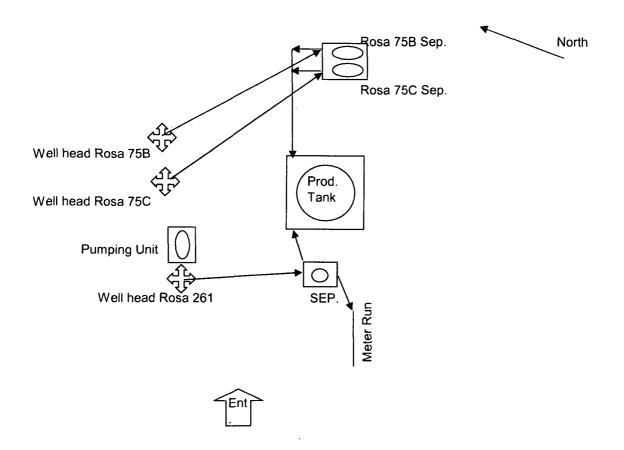
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground St Instructions: Please indentify the facility or facilities for the disposal of liquids, dr. facilities are required.			
•	Disposal Facility Name: Disposal Facility Permit Number:		
sposal Facility Name: Disposal Facility Permit Number:			
Will any of the proposed closed-loop system operations and associated activities occur. Yes (If yes, please provide the information below) No			
Required for impacted areas which will not be used for future service and operations Soil Backfill and Cover Design Specifications based upon the appropriate representation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	equirements of Subsection H of 19.15.17.13 NMAC 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 chaprovided below. Requests regarding changes to certain siting criteria may require considered an exception which must be submitted to the Santa Fe Environmental Edemonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for	administrative approval from the appropriate distr ureau office for consideration of approval. Justi	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 of	btained from nearby wells	☐ Yes ☐ No ☐ 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 of	btained from nearby wells	☐ Yes ☐ No ☐ NA	
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data of	btained from nearby wells	☐ Yes ☐ No ☐ NA	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signilake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	icant watercourse or lakebed, sinkhole, or playa	Yes No	
Within 300 feet from a permanent residence, school, hospital, institution, or church ir - Visual inspection (certification) of the proposed site; Aerial photo; Satellite in		☐ Yes ☐ No	
Within 500 horizontal feet of a private, domestic fresh water well or spring that less t watering purposes, or within 1000 horizontal feet of any other fresh water well or spr - NM Office of the State Engineer - iWATERS database; Visual inspection (ce	ng, in existence at the time of initial application.	Yes No	
Within incorporated municipal boundaries or within a defined municipal fresh water adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval	·	Yes No	
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual	nspection (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 a	nd Mineral Division	☐ Yes ☐ No	
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Society; Topographic map	Mineral Resources; USGS; NM Geological	☐ 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 jby a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of S Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of S Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad Protocols and Procedures - based upon the appropriate requirements of 19.15.1 Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Sci Disposal Facility Name and Permit Number (for liquids, drilling fluids and dri Soil Cover Design - based upon the appropriate requirements of Subsection H Re-vegetation Plan - based upon the appropriate requirements of Subsection I of Site Reclamation Plan - based upon the appropriate requirements of Subsection	rements of 19.15.17.10 NMAC subsection F of 19.15.17.13 NMAC repriate requirements of 19.15.17.11 NMAC rements of 19.15.17.11 NMAC rements of Subsection F of 19.15.17.13 NMAC rements of 19.15.17.13 NMAC	15.17.11 NMAC	

Operator Application Certification:	
I hereby certify that the information submitted with this application is true, ac	
Name (Print): Title:	J
Signature:	Date:
e-mail address: Telephone:	,
OCD Approval: ☐ Permit Application (including closure plan) ☒ Closur	e Plan (only) OCD Conditions (see attachment)
OCD Representative Signature:	Approval Date:
Title:	OCD Permit Number:
Closure Report (required within 60 days of closure completion): Subsect Instructions: Operators are required to obtain an approved closure plan pri The closure report is required to be submitted to the division within 60 days section of the form until an approved closure plan has been obtained and th Closure Completion Date: September 8th 2008	or to implementing any closure activities and submitting the closure report. of the completion of the closure activities. Please do not complete this
22. Closure Method: Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alto If different from approved plan, please explain.	ernative Closure Method Waste Removal (Closed-loop systems only)
23. Closure Report Regarding Waste Removal Closure For Closed-loop Syste Instructions: Please indentify the facility or facilities for where the liquids, two facilities were utilized.	ems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: drilling fluids and drill cuttings were disposed. Use attachment if more than
Disposal Facility Name:	Disposal Facility Permit Number:
Disposal Facility Name:	Disposal Facility Permit Number:
Were the closed-loop system operations and associated activities performed of Yes (If yes, please demonstrate compliance to the items below)	
Required for impacted areas which will not be used for future service and ope Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	rations
Closure Report Attachment Checklist: Instructions: Each of the following 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 S.J. Regional Landfill, □ Soil Backfilling and Cover Installation □ Re-vegetation Application Rates and Seeding Technique □ Site Reclamation (Photo Documentation) □ On-site Closure Location: Latitude 36.85831 Longitude	re)
25. Operator Closure Certification: I hereby certify that the information and attachments submitted with this clo belief. I also certify that the closure complies with all applicable closure required Name (Print): Michael K. Lane Title: SR EH & S SPEC	uirements and conditions specified in the approved closure plan. CIALIST
Signature:	Date: 8/4/09
e-mail address: myke.lane@williams.com	Telephone: 505-634-4219

Approved Branch Sell NMOCO 1-11-10

Williams Production Co.

Rosa # 75C MV Section 10 Township 31N Range 6W



—→ Gas flow

—➤ Prod.water flow

Meador, Tasha

From: Lane, Myke

Sent: Monday, June 15, 2009 10:08 AM

To: Meador, Tasha

Subject: FW: Rosa 147A - Pit Closure Notice

Myke Lane WPX - San Juan Basin EH&S Team Leader 505/634-4219 (off) 505/330-3198 (mob)

"Every new beginning starts with some other beginning's end!" --- Closing Time by Semisonic

From: Lane, Myke (E&P)

Sent: Wednesday, September 03, 2008 10:22 AM **To:** Brandon.powell@state.nm.us; John Reidinger

Cc: Lain, Matt (E&P)

Subject: Rosa 147A - Pit Closure Notice

This is notice that Williams is planning to close the below-grade tank (BGT) on the reference well within the next week, weather permitting.

Williams Production Rosa Unit 147A API: 30-039-25796 H-S33-31N-05W Rio Arriba Co.

This notice is to comply with 19.15.17.13.J NMAC and the approved NMOCD Closure Plan.

Please contact Matt Lain at 505-634-4242 if there are any questions.

Michael K. (Myke) Lane, PE EH&S Team Leader - San Juan Basin Operations 721 S. Main/PO Box 640, Aztec, NM 87410 (505) 634-4219(off); -4205(fax); 330-3198(cell)

"The problems we face cannot be resolved at the same level of thinking as that which gave rise to them!"--shared with me by Brent Hale

Williams Production Co., LLC San Juan Basin: New Mexico Assets

Below-Grade Tank Removal Closure Plan

In accordance with Rule 19.15.17.13 NMAC, the following plan describes the general closure requirements of below-grade tanks (BGT) on Williams Production Co, LLC (WPX) locations in the San Juan Basin of New Mexico. This is 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 this 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 BGI 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:

- 1. 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.
- 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)
- 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 shutin until the rerouting is completed.
- 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).
- 5. Solids and sludges will be shoveled and /or vacuumed out for disposal at Envirotech (Permit Number NM-01-0011).
- 6 Williams 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.

- 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.
- 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	Glosure Limits (mg/Kg)
Benzene	EPA SW-846 Method 8021B or 8260B	0.2
BTEX	EPA SW-846 Method 8021B or 8260B	50
TPH	EPA SW-846 Method 418.1(1)	, 100
Chlorides	EPA SW-846 Method 300.1(1)	250 ⁽²⁾ .

⁽¹⁾ Method modified for solid waste.

- 9. If the Division and/or Williams determine there is a release, Williams will comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC.
- 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.
- 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 (un-impacted) 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 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 do not meet the revegetation requirements of 19.15.17.13. If then WPX will submit the proposed alternative with written documentation that the landowner agrees to the alternative, for Division approval.
- 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.

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

⁽²⁾ If background concentration of Chlorides greater than 250 mg/Kg, then higher concentration will be used for closure.

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, 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

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

						OPERA'	ΓOR			al Report		Final Report
Name of Company Williams Production					Contact Michael K. Lane							
Address PO Box 640					Telephone No. 505-634-4219							
Facility Name Rosa Unit #147A					Facility Type Well Site							
Surface Owner USFS Mineral Owner			wner l	BLM			Lease N	No.				
LOCATION OF RELEASE												
Unit Letter H	Section 33	Township 31 N	Range 05W	Feet from the		South Line	Feet from the	East/V	Vest Line	County Rio Arrib	ıa	
		Latitu	ıde3	6.85831		Longitude	107.362	89				
				NAT	URE	OF REL	EASE					
Type of Rele	ease Prod	uced Wate	r			Volume of	Release UNK		Volume F	Recovered N	one	
Source of Re						1	lour of Occurren	ce		Hour of Disc		
Was Immedi						Prior to			9/30/08	(Date Lab	Rec	eived)
was immedi	iate Notice (Yes [No 🗍 Not R	equired	If YES, To	n Powell, NM	OCD &	JJ Mille	r, USFS		
By Whom?	Myke Lar	16				Date and I	Iour 9/30/08	~16:00	PM			· · · · · · · · · · · · · · · · · · ·
Was a Watercourse Reached? ☐ Yes ☒ No ☐ If YES, Volume Impacting the Watercourse.												
If a Waterco	urse was Im	pacted, Descr	ibe Fully.				************					
Following Possible removed,	Describe Cause of Problem and Remedial Action Taken. Following removal of fiberglass (with plastic liner) pit soil samples indicate residual TPH (EPA 418.1) >100ppm. Possible incident spills during operation of pit no apparent leaks/hole in liner during removal. Additional soil to be removed, taken to a landfarm and site to be resampled for TPH.											
		and Cleanup A			to as	sess wher	closure star	ndards	met.			
Follow WPX closure plan, and soils to be sampled to assess when closure standards met. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.												
OIL CONSERVATION DIVISION Signature:												
Printed Nam	ne: Michae	el K. Lane		-		Approved by	District Supervis	sor:				
Title: SJB	EH&S S	pecialist				Approval Da	te:	1	Expiration	Date:		
E-mail Add	ress: myke	.lane@wlli	ams.co	<u>m</u>		Conditions o	f Approval:			Attached		
Date: 9/3	30/08	Phone:	(505) 3	30-3198								

^{*} Attach Additional Sheets If Necessary



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

•	· · · · · · · · · · · · · · · · · · ·		
Client:	WPX	Project #	04108-0003
Sample ID.	R-147A @ 7'6"	Date Reported	10-24-08
Laboratory Number.	47724	Date Sampled:	10-08-08
Chain of Custody No:	5544	Date Received	10-13-08
Sample Matrix.	Soil	Date Extracted:	10-17-08
Preservative.		Date Analyzed:	10-20-08
Condition.	Intact	Analysis Requested ⁻	8015 TPH
Parameter		Concentration (mg/Kg)	Det. Limit (mg/Kg)
Parameter Gasoline Range (C5	- C10)		Limit

ND - Parameter not detected at the stated detection limit

Total Petroleum Hydrocarbons

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

ND

0.2

SW-846, USEPA, December 1996.

Comments:

Rosa 147A.

Analyst



EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

	•				
Client:	QA/QC		Project #.		N/A
Sample ID.	10-20-08 QA/QC	;	Date Reported.		10-24-08
Laboratory Number:	47723		Date Sampled		N/A
Sample Matrix:	Methylene Chloride	e	Date Received:		N/A
Preservative:	N/A		Date Analyzed.		10-20-08
Condition.	N/A		Analysis Reques	ited [.]	TPH
	I-Cal Date	I-Cal RF	C-Cal RF:	% Difference	Accept Range
Gasoline Range C5 - C10	05-07-07	1 0158E+003	1.0162E+003	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.0207E+003	1 0211E+003	0.04%	0 - 15%
Blank Conc. (mg/L - m	(a/Ka)	Concentration		Detection Limi	i.
Gasoline Range C5 - C10	a - American - Indicate the distribution of the contract of th	ND	\$770x0x0xxxxxxxxxxxxx	0.2	
Diesel Range C10 - C28		ND		0.1	
Total Petroleum Hydrocar	bons	ND		0.2	
Duplicate Conc. (mg/k	(g) Sample	Duplicate	% Difference	Accept Range	Xe
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%	
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%	
Dieser Kange C10 - C20	ND	ND	0.076	0 - 30 /6	
Spike Conc (mg/kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	248	99.2%	75 - 125%
Diesel Range C10 - C28	ND	250	253	101%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

QA/QC for Samples 47723 - 47724 and 47726 - 47730.

Analyst



Client:	WPX	Project #:	04108-0003
Sample ID:	R-147A @ 7'6"	Date Reported:	10-24-08
Laboratory Number:	47724	Date Sampled:	10-08-08
Chain of Custody:	5544	Date Received ⁻	10-13-08
Sample Matrix	Soil	Date Analyzed:	10-20-08
Preservative.		Date Extracted.	10-17-08
Condition:	Intact	Analysis Requested.	BTEX

Parameter	Concentration (ug/Kg)	Limit (ug/Kg)	
Benzene	2.5	0.9	
Toluene	6.4	1.0	
Ethylbenzene	4.0	1.0	
p,m-Xylene	5.9	1.2	
o-Xylene	4.8	0.9	
Total BTEX	23.6		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries.	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

References.

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996

Comments:

Rosa 147A.

Analyst



Client	N/A	F	Project #		N/A
Sample ID	10-20-BT QA/QC		Date Reported		10-24-08
Laboratory Number	47723		Date Sampled		N/A
Sample Matrix.	Soil		Date Received.		N/A
Preservative:	N/A		Date Analyzed.		10-20-08
Condition.	N/A	A	Analysis		BTEX
Calibration and	I-CaliRF.	∴ C-Cal RF:	%Diff:	Blank	Detect.
Detection Limits (ug/L)		Accept. Rang	e 0 - 15%	Conc	Limit
Benzene	5 2635E+007	5 2741E+007	0.2%	ND	0.1
Toluene	3 8927E+007	3 9005E+007	0.2%	ND	0.1
Ethylbenzene	2 9843E+007	2 9902E+007	0.2%	ND	0.1
p,m-Xylene	6 3433E+007	6 3560E+007	0.2%	ND	0.1
o-Xylene	2 8672E+007	2 8729E+007	0.2%	ND	0.1
Duplicate Conc. (ug/Kg)	and the second s	Duplicate 11.3	TO THE PARTY OF THE WOOD OF THE PARTY OF THE	Accept Range	Management 1965, expensive 217, (Sevier per 27, et
·	Sample 11.1 22.8 26.8 102 33.0	11.3 23.0 26.9 104	%Diff 1.8% 0.9% 0.4% 1.8% 0.9%	Accept Range 0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	0.9 1.0 1.0 1.2 0.9
Duplicate Conc. (ug/Kg) Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene Spike Conc. (ug/Kg)	11.1 22.8 26.8 102 33.0	11.3 23.0 26.9 104 32.7	1.8% 0.9% 0.4% 1.8% 0.9%	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	0.9 1.0 1.0 1.2 0.9
Duplicate Conc. (ug/Kg) Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene Spike Conc. (ug/Kg)	11.1 22.8 26.8 102 33.0 Sample	11.3 23.0 26.9 104 32.7 Amount Spiked	1.8% 0.9% 0.4% 1.8% 0.9% Spiked Sample	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	0.9 1.0 1.0 1.2 0.9
Duplicate Conc. (ug/Kg) Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene Spike Conc. (ug/Kg) Benzene Toluene	11.1 22.8 26.8 102 33.0 Sample	11.3 23.0 26.9 104 32.7 Amount Spiked	1.8% 0.9% 0.4% 1.8% 0.9%	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	0.9 1.0 1.0 1.2 0.9
Duplicate Conc. (ug/Kg) Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene Spike Conc. (ug/Kg)	11.1 22.8 26.8 102 33.0 Sample	11.3 23.0 26.9 104 32.7 Amount Spiked	1.8% 0.9% 0.4% 1.8% 0.9% Spiked Sample	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	0.9 1.0 1.0 1.2 0.9
Duplicate Conc. (ug/Kg) Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene Spike Conc. (ug/Kg) Benzene Toluene	11.1 22.8 26.8 102 33.0 Sample	11.3 23.0 26.9 104 32.7 Amount Spiked 50.0 50.0 50.0	1.8% 0.9% 0.4% 1.8% 0.9% Spiked Sample	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	0.9 1.0 1.0 1.2 0.9 Accept Range

ND - Parameter not detected at the stated detection limit

References

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996

Comments:

QA/QC for Samples 47723 - 47730.

Analyst



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	WPX	Project #:	04108-0003
Sample ID:	R-147A @ 7' 6" Depth	Date Reported:	10-27-08
Laboratory Number:	47724	Date Sampled:	10-08-08
Chain of Custody No:	5544	Date Received:	10-13-08
Sample Matrix:	Soil	Date Extracted:	10-20-08
Preservative:	Cool	Date Analyzed:	10-20-08
Condition:	Intact	Analysis Needed:	TPH-418.1

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

17.0

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

Rosa 147A.

Analyst

/ Mustum Walter Review



EPA METHOD 418.1 TOTAL PETROLEUM HYROCARBONS QUALITY ASSURANCE REPORT

Client:

QA/QC QA/QC Project #:

N/A

Sample ID:

Date Reported:

10-22-08

Laboratory Number: Sample Matrix:

10-20-TPH.QA/QC 47767 Freon-113

Date Sampled: Date Analyzed: N/A 10-20-08

Preservative: Condition:

N/A N/A

Date Extracted: Analysis Needed:

10-20-08 TPH

Calibration

I-Cal Date

C-Cal Date

I-Cal RF:

C-Cal RF:

% Difference 1.1%

Accept. Range

10-06-08

10-20-08

1,770

1,790

+/- 10%

Blank Conc. (mg/Kg)

Concentration

Detection Limit

TPH

ND

5.0

Duplicate Conc. (mg/Kg)

TPH

Sample 18.4

Duplicate 14.2

% Difference 22.8%

Accept. Range +/- 30%

Spike Conc. (mg/Kg) **TPH**

Sample 18.4

Spike Added 2,000

Spike Result 2,410

% Recovery 119%

Accept Range 80 - 120%

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

QA/QC for Samples 47723, 47724, 47737 - 47739 and 47767 - 47769.



Chloride

Client: **WPX** Project #: 04108-0003 Date Reported: 10-25-08 Sample ID: R147A @ 7'6" Date Sampled: Lab ID#: 47724 10-08-08 Date Received: 10-13-08 Sample Matrix: Soil Date Analyzed: 10-17-08 Preservative: Condition: Intact Chain of Custody: 5544

Parameter Concentration (mg/Kg)

Total Chloride

20.0

Reference:

U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983. Standard Method For The Examination of Water and Waste Water", 18th ed., 1992.

Comments:

Rosa 147A.

Analyst

Muster of Weeters Review

CHAIN OF CUSTODY RECORD

Client:	Rusa	Project Name / I	€ <u>;</u>	1: 64 De	ph	ن				-			ANAL`	YSIS	/ PAR	AME	TERS	*				-
Client Address: 7215 Mau		Sampler Name:	7	1-				3015)	8021)	8260)	S			_								
Client Phone No.:		Client No.:	-000)3				TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion		TCLP with H/P		418.1)	RIDE				Sample Cool	Sample Intact
Sample No./ Sample Identification Date	Time	e Lab No.	5	Sample Matrix	No./Volume of Containers			TPH (втех	1) 200	RCRA	Cation	RCI	TCLP	РАН	TPH (418.1)	CHLORIDE				Sampl	Sampl
R147H & 6 Dep 7 101810	th	47724	Soil Solid	Sludge Aqueous	403			V	X							X	X					V
R147A @ 7'6" 101810	8 11:55	rtılı	Soil Solid	Sludge Aqueous																		
			Soil Solid	Sludge Aqueous																		
			Soil Solid	Sludge Aqueous																		
			Soil Solid	Sludge Aqueous					-													
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			Soil Solid	Sludge Aqueous																		
			Soil Solid	Sludge Aqueous																		
			Soil Solid	Sludge Aqueous	T				, C:						ſ		40-014 74-	77.5000			Tin	
Relinquished by: (Signature)	Med	ada		10/1808	Time	Rec	k) Wil	oby:	(Signi 	ature)	ر کا کا ک	Sce	le	-	T.E.				Da	ole Vos		-
Relinquished by: (Signature)	1					Red	ceived	by:	(Signa	ature)				Contract of the	00	7 3	0 2	800	The second second			
Relinquished by: (Signature)						Red	ceived	d by:	(Sign	ature))				***********	11	100	S. Carrage				
mile				EUVI		E(C.												



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

,			- '
Client.	WPX	Project #:	04108-0003
Sample ID.	R-147A @ 8'6" Depth	Date Reported.	10-24-08
Laboratory Number:	47723	Date Sampled.	10-08-08
Chain of Custody No	5543	Date Received	10-13-08
Sample Matrix.	Soil	Date Extracted	10-17-08
Preservative ⁻		Date Analyzed	10-20-08
Condition:	Intact	Analysis Requested	8015 TPH
Parameter		Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 -	C10)	ND	0.2
Diesel Range (C10 - C	228)	ND	0.1
Total Petroleum Hydro	ocarbons	ND	0.2

THE STATE OF THE CONTROL OF THE STATE OF THE

ND - Parameter not detected at the stated detection limit

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments: Rosa 147A.

Analyst



EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC		Project #:		N/A
Sample ID:	10-20-08 QA/Q	С	Date Reported		10-24-08
Laboratory Number.	47723		Date Sampled.		N/A
Sample Matrix:	Methylene Chloric	de	Date Received:		N/A
Preservative:	N/A		Date Analyzed		10-20-08
Condition [.]	N/A		Analysis Request	ed:	TPH
	I-Cal Date	: I-Cal RF	C-Cal RF:	% Difference	Accept Range
Gasoline Range C5 - C10	05-07-07	1.0158E+003	1.0162E+003	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.0207E+003	1.0211E+003	0.04%	0 - 15%
		in o station along and site of the	Fallan Mallande Leith	Talkariya Histori	zî.
Blank Conc. (mg/L mg/Kg)		Concentration		Detection Limi	Í.s.
Gasoline Range C5 - C10		ND		0.2	
Diesel Range C10 - C28		ND		0.1	
Total Petroleum Hydrocarbons		ND		0.2	
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range	:
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%	
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%	
Spike Conc. (mg/Kg)	Sample		Spike Result		
A COMPANY AND A SECURITY OF A SECURE OF A SECURITY - SECURITY - SECURITY - SECURITY AND A SECURITY ASSECTATION ASSECTATION ASSECTATION ASSECTATION ASSECTATION ASSECTATION ASSECTATION ASS	ND	250	248	% Recovery	75 - 125%
Gasoline Range C5 - C10					
Diesel Range C10 - C28	ND	250	253	101%	75 - 125%

ND - Parameter not detected at the stated detection limit

References.

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996

Comments.

QA/QC for Samples 47723 - 47724 and 47726 - 47730.

Analyst



Client:	WPX	Project #:	04108-0003
Sample ID.	R-147A @ 8'6" Depth	Date Reported	10-24-08
Laboratory Number ⁻	47723	Date Sampled:	10-08-08
Chain of Custody:	5543	Date Received:	10-13-08
Sample Matrix.	Soil	Date Analyzed.	10-20-08
Preservative:		Date Extracted.	10-17-08
Condition:	Intact	Analysis Requested.	BTEX

form the formal substance is presented in the consequence of the second section of the control o

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	11.1	0.9
Toluene	22.8	1.0
Ethylbenzene	26.8	1.0
p,m-Xylene	102	1.2
o-Xylene	33.0	0.9
Total BTEX	196	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	 Percent Recovery
	Fluorobenzene	 98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996.

Comments:

Rosa 147A.

Analyst



Client	N/A	F	Project #.		N/A
Sample ID	10-20-BT QA/QC		Date Reported		10-24-08
Laboratory Number	47723	0	Date Sampled		N/A
Sample Matrix.	Soil		ate Received		N/A
Preservative.	N/A	2	Date Analyzed:		10-20-08
Condition	N/A	A	Analysis		BTEX
Calibration and	l-Cal RF:	C-Cal RF:	%Diff.	Blank	Detect
Detection Limits (ug/L)		Accept: Range	e 0 - 15%	Conc	Limit
Benzene	5 2635E+007	5 2741E+007	0.2%	ND	0.1
Toluene	3.8927E+007	3.9005E+007	0.2%	ND	0.1
Ethylbenzene	2 9843E+007	2.9902E+007	0.2%	ND	0.1
p,m-Xylene	6 3433E+007	6 3560E+007	0.2%	ND	0.1
	0.00705 007	2 8729E+007	0.2%	ND	0.1
o-Xylene Duplicaté Conc. (ug/Kg)	2 8672E+007 Sample	Duplicate	%Diff	Accept Range	Detect: Limit
ŕ		Duplicate 11.3 23.0 26.9 104 32.7	1.8% 0.9% 0.4% 1.8% 0.9%	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	0.9 1.0 1.2 0.9
Duplicate Conc. (ug/Kg) Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene Spike Conc. (ug/Kg)	11.1 22.8 26.8 102 33.0	11.3 23.0 26.9 104	1.8% 0.9% 0.4% 1.8% 0.9%	0 - 30% 0 - 30% 0 - 30% 0 - 30%	0.9 1.0 1.0 1.2
Duplicate Conc. (ug/Kg) Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene Spike Conc. (ug/Kg)	Sample 11.1 22.8 26.8 102 33.0	11.3 23.0 26.9 104 32.7	1.8% 0.9% 0.4% 1.8% 0.9%	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	0.9 1.0 1.0 1.2 0.9
Duplicate Conc. (ug/Kg) Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene Spike Conc. (ug/Kg)	11.1 22.8 26.8 102 33.0	11.3 23.0 26.9 104 32.7	1.8% 0.9% 0.4% 1.8% 0.9%	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	0.9 1.0 1.0 1.2 0.9
Duplicate Conc. (ug/Kg) Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene Spike Conc. (ug/Kg)	Sample 11.1 22.8 26.8 102 33.0 Sample 11.1	11.3 23.0 26.9 104 32.7	1.8% 0.9% 0.4% 1.8% 0.9%	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	0.9 1.0 1.0 1.2 0.9
Duplicate Conc. (ug/kg) Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene Spike Conc. (ug/kg) Benzene Toluene	Sample 11.1 22.8 26.8 102 33.0 Sample 11.1 22.8	11.3 23.0 26.9 104 32.7 Amount Spiked	1.8% 0.9% 0.4% 1.8% 0.9% Spiked Sample 60.1 67.8	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30% % Recovery 98.4% 93.1%	0.9 1.0 1.0 1.2 0.9 Accept Range 39 - 150 46 - 148

ND - Parameter not detected at the stated detection limit

References Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using

Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996

Comments: QA/QC for Samples 47723 - 47730.

R



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	WPX	Project #:	04108-0003
Sample ID:	R-147A @ 8' 6" Depth	Date Reported:	10-27-08
Laboratory Number:	47723	Date Sampled:	10-08-08
Chain of Custody No:	5543	Date Received:	10-13-08
Sample Matrix:	Soil	Date Extracted:	10-20-08
Preservative:	Cool	Date Analyzed:	10-20-08
Condition:	Intact	Analysis Needed:	TPH-418.1

	Det.
Concentration	Limit
Parameter (mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

18.4

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

Rosa 147A.

Analyst

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EPA METHOD 418.1 TOTAL PETROLEUM HYROCARBONS QUALITY ASSURANCE REPORT

					,	
Client:		QA/QC		Project #:		N/A
Sample ID:	•	QA/QC		Date Reported	:	10-22-08
Laboratory Number	•	10-20-TPH.QA/	QC 47767	Date Sampled:		N/A
Sample Matrix:		Freon-113		Date Analyzed		10-20-08
Preservative:		N/A		Date Extracted		10-20-08
Condition:		N/A		Analysis Need	ed:	TPH
Calibration	l-Cal Date 10-06-08	C-Cal Date 10-20-08	I-Cal RF: 1,770	C-Cal RF: 1,790	% Difference 1.1%	Accept. Range +/- 10%
Blank Conc. (m TPH	g/Kg) · :. · ·	11 de 1	Concentration ND		Detection Lim 5.0	iif ` · · · · ·
Duplicate Conc TPH	. (mg/Kg)	í	Sample 18.4	Duplicate 14.2	% Difference 22.8%	Accept. Range +/- 30%
Spike Conc. (m	g/Kg)	Şample	Spike Added	ՀSpike Řesult ՝	% Recovery	Accept Range

ND = Parameter not detected at the stated detection limit.

References:

TPH

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

2,000

and Waste, USEPA Storet No. 4551, 1978.

18.4

Comments:

QA/QC for Samples 47723, 47724, 47737 - 47739 and 47767 - 47769.

Analyst

Muster of Wallers Review

80 - 120%



Chloride

Project #: 04108-0003 Client: **WPX** Sample ID: Date Reported: 10-25-08 R - 147A @ 8'6" Depth Lab ID#: Date Sampled: 10-08-08 47723 Date Received: 10-13-08 Sample Matrix: Soil Preservative: Date Analyzed: 10-17-08 Condition: Chain of Custody: 5543 Intact

Parameter Concentration (mg/Kg)

Total Chloride 10.0

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.

Standard Method For The Examination of Water and Waste Water", 18th ed., 1992.

Comments: Rosa 147A.

lyst Rev

CHAIN OF CUSTODY RECORD

Client:		F	Project Name / Location: ANALYSIS / PARAMETERS																				
Client Address:	<u> </u>	-				7 0 0			l	=	Γ	1	Γ	<u> </u>								$\neg \tau$	
73/5-na	in		Client No.	ς. Δ.	•				115)	BTEX (Method 8021)	VOC (Method 8260)												
Client Phone No.:	-/-		Client No.:	7 15	^)g	po	8 pc	RCRA 8 Metals	6		₽							_	tg
634-4241			04108-						etho	/leth	etho	Me	Cation / Anion		ŧ		18.1	CHLORIDE				C00	Sample Intact
Sample No./	Sample	Sample			ample	No./Volume	Prese	rvative	Š	×	S	3A 8) Lo		Ω.	_	4) +	P.				ple.	ple
Identification	Date /	Time	Lab No.	1	iatrix	of Containers	HgCi ₂	HCI	TPH (Method 8015)	BTE	00	P.C.	Cati	낊	TCLP with H/P	PAH	TPH (418.1)	동				Sample (San
B-147He	10/8/08	12:00¢	47723	Soil Solid	Sludge Aqueous	403			×	×							ڮ	×			•	-	V
9	/			Soil Solid	Sludge Aqueous		-																
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Relinquished by: (Signa	ture)	Paa	der	:	Date 10/13/88	Time 10.30A	Re	eceive Mu	d by: SL	(Signa	ature)	6	l ce	të	Park Iron			The state of the s	A THE PARTY	Da 10/13		Tin	1
Relinquished by: (Signa	ture)						Ψ.	éceive	d by:	(Sign	atur é))				ост	3 0	200	8	المعد تعامرون			
Relinquished by: (Signa	ture)							eceive							ALE MANAGEMENT STREET				egg s Me ^{rch s} ag (FC)				
n.ke.			5796 U.	Ī	28 EV (28)	RO1	100	CZ/jtv		in de		505-	632-	0615	<u>,</u>	, 10 00		, , , , , , , , , , , , , , , , , , ,					



Client:	WPX	Project #:	04108-0003
Sample ID:	BGT-6.5'	Date Reported:	09-24-08
Laboratory Number:	47267	Date Sampled:	09-15-08
Chain of Custody:	5290	Date Received:	09-17-08
Sample Matrix:	Soil	Date Analyzed:	09-22-08
Preservative:		Date Extracted:	09-19-08
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	2.2	0.9
Toluene	6.4	1.0
Ethylbenzene	2.7	1.0
p,m-Xylene	5.7	1.2
o-Xylene	4.1	0.9
Total BTEX	21.1	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	 Percent Recovery
	Fluorobenzene	 97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996.

Comments:

Rosa 147A.

Analyst

Mustering Weeters Review



Client:	N/A	Project #.	N/A
Sample ID:	09-22-BT QA/QC	Date Reported.	09-24-08
Laboratory Number	47266	Date Sampled.	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed ¹	09-22-08
Condition [.]	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal/RF: Accept: Rang	%Diff. ge 0 - 15%	Blank Conc	Detect. Limit
Benzene	6.2926E+007	6 3052E+007	0.2%	ND	° 0.1
Toluene	4 6384E+007	4.6477E+007	0.2%	ND	0.1
Ethylbenzene	3 6519E+007	3 6592E+007	0.2%	ND	0.1
p,m-Xylene	7 4355E+007	7 4504E+007	0.2%	ND	0.1
o-Xylene	3.4425E+007	3 4494E+007	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample Du	plicate	%Diff.	Accept Range	Detect. Limit
Benzene	1.5	1.5	0.0%	0 - 30%	0.9
Toluene	5.7	5.5	3.5%	0 - 30%	1.0
Ethylbenzene	2.8	2.6	7.1%	0 - 30%	1.0
p,m-Xylene	6.9	5.8	15.9%	0 - 30%	1.2
o-Xylene	4.4	4.2	4.5%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample Amo	ount Spiked Spik	ed Sample	% Recovery	Accept Range
Benzene	1.5	50.0	50.5	98.1%	39 - 150
Toluene	5.7	50.0	49.7	89.2%	46 - 148
Ethylbenzene	2.8	50.0	53.8	102%	32 - 160
p,m-Xylene	6.9	100	97.9	91.6%	46 - 148
o-Xylene	4.4	50.0	52.4	96.3%	46 - 148

ND - Parameter not detected at the stated detection limit.

References Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996

Comments: QA/QC for Samples 47266 - 47273 and 47290 - 47291.

Analyst



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	WPX	Project #:	04108-0003
Sample ID:	BGT - 6 1/2'	Date Reported:	09-26-08
Laboratory Number:	47267	Date Sampled:	09-15-08
Chain of Custody No:	5290	Date Received:	09-17-08
Sample Matrix:	Soil	Date Extracted:	09-18-08
Preservative:	t	Date Analyzed:	09-18-08
Condition:	Intact	Analysis Needed:	TPH-418.1

			Det.
		Concentration	Limit
ĺ	Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

120

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

Rosa 147A.

Analyst

Mister Muceters



Blank Conc. (mg/Kg)

TPH

EPA METHOD 418.1 TOTAL PETROLEUM HYROCARBONS QUALITY ASSURANCE REPORT

Detection Limit

10.0

Client:	QA/QC	Project #:	N/A
Sample ID:	QA/QC	Date Reported:	09-22-08
Laboratory Number:	09-18-TPH.QA/QC 47256	Date Sampled:	· N/A
Sample Matrix:	Freon-113	Date Analyzed:	09-18-08
Preservative:	N/A	Date Extracted:	09-18-08
Condition:	N/A	Analysis Needed:	TPH

Calibration	I-Cal Date	C-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
	09-18-08	09-18-08	1,660	1,590	4.2%	+/- 10%

Concentration

ND

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference 7.1%	Accept. Range
TPH	93.0	86.4		+/- 30%
Spike Conc. (mg/Kg) Sample 73.0	, .Śpike:Added. 2,000	Spike Result 2,160	% Recovery 103%	Accept Range 80 - 120%

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments: QA/QC for Samples 47256, 47265 - 47268.

Analyst

Review Walles



Chloride

Project #: Client: **WPX** 04108-0003 BGT - 61/2' Date Reported: 09-25-08 Sample ID: Lab ID#: 47267 Date Sampled: 09-15-08 Sample Matrix: Soil Date Received: 09-17-08 Preservative: Date Analyzed: 09-18-08 Condition: Chain of Custody: Intact 5290

Parameter Concentration (mg/Kg)

Total Chloride 24.0

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.

Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Rosa 147A.

Analyst

5290

CHAIN OF CUSTODY RECORD

Client:			Project Name / L	ocation	:									ANAL`	YSIS	/ PAR	AME	TERS					
WPX			ROSA 1	471	4																		
Client Address:			Sampler Name:	***************************************	1				<u>(c</u>	£	6												
			Sampler Name:	i Bi	SÝ				801	1 80%	826	8											
Client Phone No.:			Client No.:					-	poc	thoc	ροτ	leta	noic		Ĭ		F	ш				8	tact
\			04108-0	0003	3				TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion		TCLP with H/P		TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
Sample No./	Sample	Sampl	l lab No	1	ample	No./Volume of			Ĭ	E K	ည	¥	tio	5	붓	PAH	Ĭ	皇				m d m	E I
Identification	Date	Time	Edb 140.	P	Matrix	of Containers	HgCl, H		ഥ	<u>B</u>	3	<u>R</u>	ပိ	<u>2</u>	P	₹	<u> </u>	さ				Sa	လိ
BGT- 6/2	9/15	1415	472107	Solid Solid	Sludge Aqueous	1		~		-							V	س	•			لم	
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ENVIROTECH INC.



Client:	WPX	Project #:	04108-0003
Sample ID:	BGT-6.5'	Date Reported:	09-24-08
Laboratory Number:	47267	Date Sampled:	09-15-08
Chain of Custody:	5290	Date Received:	09-17-08
Sample Matrix:	Soil	Date Analyzed:	09-22-08
Preservative:		Date Extracted:	09-19-08
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)	
Benzene	2.2	0.9	
Toluene	6.4	1.0	
Ethylbenzene	2.7	1.0	**
p,m-Xylene	5.7	1.2	
o-Xylene	4.1	0.9	
Total BTEX	21.1		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996.

Comments:

Rosa 147A.

Analyst

Moster of Westers Review



ND

ND

0.1

0.1

Client:	N/A	!	Project #:		N/A	
Sample ID:	09-22-BT QA/QC		Date Reported.		09-24-08	
Laboratory Number:	47266		Date Sampled:		N/A	
Sample Matrix:	Soil		Date Received:		N/A	
Preservative:	N/A		Date Analyzed:		09-22-08	
Condition:	N/A		Analysis:		BTEX	
Calibration and Detection Limits (ug/L)	Il-CaliRE:	C-Cal RF: Accept Rang	48041-37851-525-536-502-64-00025-4500-72-9515	SANSON CONTRACTOR STATE OF THE SANSON STATE OF THE	Detecti Limit	
Benzene	6.2926E+007	6 3052E+007	0.2%	ND	0.1	
Benzene Toluene	6.2926E+007 4.6384E+007	6 3052E+007 4 6477E+007	0.2% 0.2%	ND ND	0.1 0.1	

7.4504E+007

3 4494E+007

0.2%

0.2%

7.4355E+007

3.4425E+007

Duplicate Conc. (ug/Kg)	Sample Du	plicate	%Diff.	Accept Range	&Detect: Limit
Benzene	1.5	1.5	0.0%	0 - 30%	0.9
Toluene	5.7	5.5	3.5%	0 - 30%	1.0
Ethylbenzene	2.8	2.6	7.1%	0 - 30%	1.0
p,m-Xylene	6.9	5.8	15.9%	0 - 30%	1.2
o-Xylene	4.4	4.2	4.5%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample Amo	unt Spiked Spik	ed Sample	% Recovery	Accept Range
Benzene	1.5	50.0	50.5	98.1%	39 - 150
Toluene	5.7	50.0	49.7	89.2%	46 - 148
Ethylbenzene	2.8	50.0	53.8	102%	32 - 160
p,m-Xylene	6.9	100	97.9	91.6%	46 - 148
o-Xylene	4.4	50.0	52.4	96.3%	46 - 148

ND - Parameter not detected at the stated detection limit.

References:

p,m-Xylene

o-Xylene

 ${\sf Method\ 5030B,\ Purge-and-Trap,\ Test\ Methods\ for\ Evaluating\ Solid\ Waste,\ SW-846,\ USEPA,}$

December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using

Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments:

QA/QC for Samples 47266 - 47273 and 47290 - 47291.

Analyst



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	WPX	Project #:	04108-0003
Sample ID:	BGT - 6 ½'	Date Reported:	09-26-08
Laboratory Number:	47267	Date Sampled:	09-15-08
Chain of Custody No:	5290	Date Received:	09-17-08
Sample Matrix:	Soil	Date Extracted:	09-18-08
Preservative:		Date Analyzed:	09-18-08
Condition:	Intact	Analysis Needed:	TPH-418.1

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

120

5.0 ,

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

Rosa 147A.

Analyst



EPA METHOD 418.1 TOTAL PETROLEUM **HYROCARBONS QUALITY ASSURANCE REPORT**

Client:

QA/QC

Project #:

N/A

Sample ID:

QA/QC

Date Reported:

09-22-08

Laboratory Number:

09-18-TPH.QA/QC 47256

Date Sampled:

N/A

Sample Matrix:

Freon-113

Date Analyzed:

09-18-08

TPH

Preservative: Condition:

N/A N/A Date Extracted: Analysis Needed: 09-18-08

I-Cal Date

C-Cal Date

I-Cal RF:

C-Cal RF:

% Difference

Accept. Range

Calibration

09-18-08

09-18-08

1,660

1,590

4.2%

+/- 10%

Blank Conc. (mg/Kg)

Concentration

Detection Limit

TPH

ND

10.0

Duplicate Conc. (mg/Kg)

TPH

Sample 93.0

Duplicate 86.4

% Difference 7.1%

Accept. Range +/- 30%

Spike Conc. (mg/Kg) **TPH**

93.0

2,000

2,160

103%

80 - 120%

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

QA/QC for Samples 47256, 47265 - 47268.

Analyst

5796118 Highway 64 a Formington NIA



Chloride

Client:

WPX

Project #:

04108-0003

Sample ID:

BGT - 61/2'

Date Reported:

09-25-08

Lab ID#:

47267

Date Sampled:

09-15-08

Sample Matrix:

Soil

Date Received:

09-17-08

Preservative:

Date Analyzed:

09-18-08

Condition:

Intact

Chain of Custody:

5290

Parameter

Concentration (mg/Kg)

Total Chloride

24.0

Reference:

U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.

Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments:

Rosa 147A.

Analyst

Mustere Mustles Review

5796119 Highway 64 a Formington

5290

CHAIN OF CUSTODY RECORD

Client: WPX	F	Project Name / Location: Rosa 147A Sampler Name: Emany Bany							ANALYSIS / PARAMETERS															
Client Address: Sampler Name:					•				-		£	<u> </u>								[
Ennow B					, RÅ				5	2	805	3260	(0											
Client Phone No.: Client No.:									ا ا	3	hod	g po	etals	ion		Ð,		=	1				0	act
04108-0003					5				ive sold (Mothod 0015)		BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion		TCLP with H/P		TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
Sample No./	Sample	Sample	DIE Lab No.		ample	No./Volume Preservative		ive		EX	00	HA	tion	5	٩	I	ī	일				ldmi	ldm	
Identification	Date	Time	Lab No.	 	latrix	Containers	HgCi ₂ HCi		1	_	BT	8	<u>R</u>	Ca	PC.	2	PAH	무	ㅎ				Sa	Sa
BGT-6/2	9/15	1415	47267	Solid Solid	Sludge Aqueous						سن							V	-				بهر	<u> </u>
				Soil Solid	Sludge Aqueous																			
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				Soil	Sludge			\dashv	_															
				Solid	Aqueous				_															
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				9/1/00	1041				3/17/08/								<i>(</i> 2)	41						
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•																								
' FOVIROTECH INC																								

ENVIROTECH INC.

Lane, Myke (E&P)

From:

Lane, Myke (E&P)

Sent:

Tuesday, September 30, 2008 4:08 PM

To:

Jon J Miller

Subject:

Rosa 147A BGT removal

Attachments: c141 Rosa 147A 9-30-08.DOC

JJ: Soil samples taken following the removal of a fiberglass pit indicate slight TPH contamination (EPA Method 418.1) >100 ppm. Please accept this spill report.

Michael K. (Myke) Lane, PE EH&S Team Leader - San Juan Basin Operations 721 S. Main/PO Box 640, Aztec, NM 87410 (505) 634-4219(off); -4205(fax); 330-3198(cell)

"The problems we face cannot be resolved at the same level of thinking as that which gave rise to them!"---shared with me by Brent Hale

District I
1625 N. French Dr., Hobbs, NM 88240
District 1.
1301 W. Grand Avenue, 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

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 *Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

Form C-138

Revised March 12, 2007

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address: Williams Production Co, LLC, PO Box 640, Aztec, NM									
Disposal Requested by: Jeff Gordy (NXEJJ117418)									
. Originating Site:									
Rosa #147A									
3. Location of Material (Street Address, City, State or ULSTR):									
B-S33-T31N-R05W, NMPM									
Rio Arriba Co., NM 4. Source and Description of Waste:									
Hydrocarbon contaminated soils under former Below Grade Tank (pit).									
Estimated Volume5yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) yd³ / b	bls								
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS									
	ereby								
Generator Signature certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July	1000								
regulatory determination, the above described waste is: (Check the appropriate classification)	1900								
RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with r	on-								
exempt waste. Operator Use Only: Waste Acceptance Frequency Monthly Weekly Per Load									
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardocharacteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 26 subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (the appropriate items)	61,								
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS									
I, do hereby certify that									
Representative/Agent Signature									
representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the sain have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The resofthe representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.									
5. Transporter: Adobe Contractors									
OCD Permitted Surface Waste Management Facility									
Name and Facility Permit #: Envirotech Inc Soil Remediation Facility Permit #NM-01-0011									
Address of Facility: Hilltop, NM									
Method of Treatment and/or Disposal:									
☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other									
Waste Acceptance Status:									
☐ APPROVED ☐ DENIED (Must Be Maintained As Permanent Red	ord)								
PRINT NAME: TITLE: DATE:									
SIGNATURE: TELEPHONE NO.: Surface Waste Management Facility Authorized Agent									

