

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

Form C-144  
June 1, 2004

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

For drilling and production facilities, submit to appropriate NMOCD District Office.  
For downstream facilities, submit to Santa Fe office

**Pit or Below-Grade Tank Registration or Closure**

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☒

Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

Operator: <u>Williams Production Co., LLC</u> Telephone: <u>505-634-4219</u> e-mail address: <u>myke.lane@williams.com</u>		
Address: <u>POB 640, Aztec, NM 87410</u>		
Facility or well name: <u>Rosa 88A</u> API #: <u>30-045-29132</u> U/L or Qtr/Qtr <u>L</u> Sec <u>8</u> T <u>31N</u> R <u>06W</u>		
County: <u>Rio Arriba</u> Latitude <u>36.9167</u> Longitude <u>-107.49111</u> NAD: 1927 <input type="checkbox"/> 1983 <input checked="" type="checkbox"/>		
Surface Owner: Federal <input checked="" type="checkbox"/> State <input type="checkbox"/> Private <input type="checkbox"/> Indian <input type="checkbox"/>		
<b>Pit</b> Type: Drilling <input type="checkbox"/> Production <input checked="" type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input type="checkbox"/> Unlined <input type="checkbox"/> Liner type: Synthetic <input type="checkbox"/> Thickness <u>      </u> mil Clay <input type="checkbox"/> Pit Volume <u>      </u> bbl	<b>Below-grade tank</b> Volume: <u>120</u> bbl Type of fluid: <u>Produced Water</u> Construction material: <u>Fiberglass with Plastic Liner</u> Double-walled, with leak detection? Yes <input checked="" type="checkbox"/> If not, explain why not. <u>      </u>	<u>BOUND OCT 22 1997</u> <u>OIL CONS. DIV.</u> <u>DIST. 3</u>
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet ✓ 100 feet or more	(20 points) (10 points) ✓ ( 0 points)
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes ✓ No	(20 points) ✓ ( 0 points)
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet ✓ 200 ft or more, but less than 1000 feet 1000 feet or more	(20 points) ✓ (10 points) ( 0 points)
<b>Ranking Score (Total Points)</b>		10

**If this is a pit closure:** (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☒ offsite ☐ If offsite, name of facility       . (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface        ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

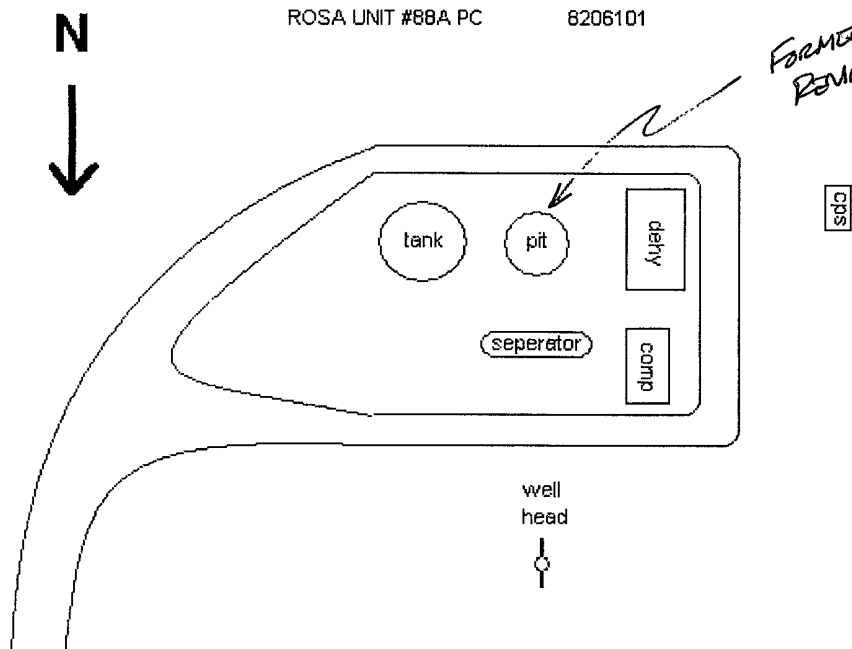
Additional Comments:
<b>Replace Fiberglass BGT. Use existing produced water AST. Composite soil sample collected following removal of tank and liner 5/15/07.</b>
<b>See attached site diagram and soil sample results.</b>

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines <input checked="" type="checkbox"/> , a general permit <input checked="" type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> .		
Date: <u>10/29/07</u>	Printed Name/Title <u>Michael K. Lane/EH&amp;S Specialist</u> Signature <u>[Signature]</u>	
Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Approval: Deputy Oil & Gas Inspector, District #3	Signature <u>[Signature]</u>	Date: <u>NOV 28 2007</u>

ROSA UNIT #88A MV  
ROSA UNIT #88A PC

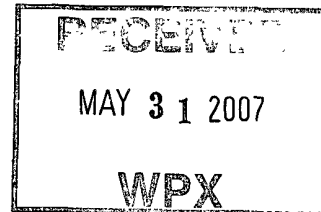
8206201  
8206101

*Former BGT  
Removed 5/07*



# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW



May 21, 2007

Williams Production  
Mr. Myke Lane  
P.O. Box 640  
Aztec, NM 87410

Phone: (505) 634-4219  
Fax: (505) 634-4214

Client No.: 04108-003

Dear Mr. Lane,

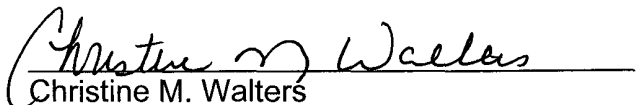
Enclosed are the analytical results for the sample collected from the location designated as "Rosa #88A". One soil sample was collected by Williams Production personnel 5/15/07 and were received by the Envirotech laboratory on 5/17/07 for BTEX per USEPA Method 8021 and Total Petroleum Hydrocarbons (TPH) per USEPA Method 8015.

The sample was documented on Envirotech Chain of Custody No. 2683 and assigned Laboratory No. 41580 (Pit Replacement) for tracking purposes.

The sample was analyzed on 5/18/07 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted,  
**Envirotech, Inc.**

  
Christine M. Walters  
Laboratory Coordinator / Environmental Scientist

enc.

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Williams Production	Project #:	04108-003-2683
Sample ID:	Pit Replacement	Date Reported:	05-21-07
Laboratory Number:	41580	Date Sampled:	05-15-07
Chain of Custody:	2683	Date Received:	05-17-07
Sample Matrix:	Soil	Date Analyzed:	05-18-07
Preservative:	Cool	Date Extracted:	05-18-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	5.2	1.8
Toluene	14.1	1.7
Ethylbenzene	7.2	1.5
p,m-Xylene	31.1	2.2
o-Xylene	9.7	1.0
Total BTEX	67.3	

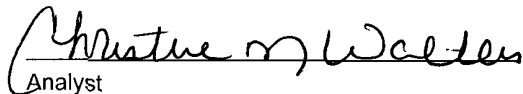
ND - Parameter not detected at the stated detection limit.

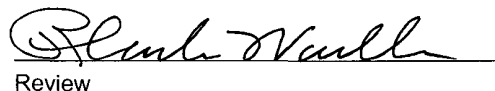
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

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 #88A.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	05-18-BTEX QA/QC	Date Reported:	05-21-07
Laboratory Number:	41580	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-18-07
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff.	Blank Conc	Detect. Limit
		Accept. Range 0 - 15%			
Benzene	2.7956E+007	2.8012E+007	0.2%	ND	0.2
Toluene	2.7003E+007	2.7057E+007	0.2%	ND	0.2
Ethylbenzene	2.2960E+007	2.3006E+007	0.2%	ND	0.2
p,m-Xylene	4.7073E+007	4.7167E+007	0.2%	ND	0.2
o-Xylene	2.0913E+007	2.0955E+007	0.2%	ND	0.1

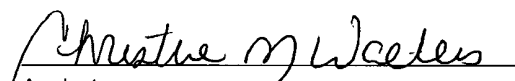
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	5.2	5.2	0.0%	0 - 30%	1.8
Toluene	14.1	14.0	0.7%	0 - 30%	1.7
Ethylbenzene	7.2	7.2	0.0%	0 - 30%	1.5
p,m-Xylene	31.1	31.0	0.3%	0 - 30%	2.2
o-Xylene	9.7	9.8	1.0%	0 - 30%	1.0

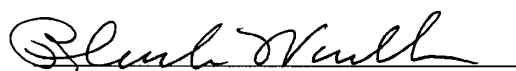
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	5.2	50.0	55.1	99.8%	39 - 150
Toluene	14.1	50.0	64.0	99.8%	46 - 148
Ethylbenzene	7.2	50.0	57.1	99.8%	32 - 160
p,m-Xylene	31.1	100	131	99.8%	46 - 148
o-Xylene	9.7	50.0	59.7	100.0%	46 - 148

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 41580 - 41584.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

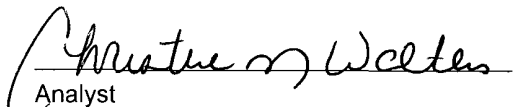
Client:	Williams Production	Project #:	04108-003-2683
Sample ID:	Pit Replacement	Date Reported:	05-21-07
Laboratory Number:	41580	Date Sampled:	05-15-07
Chain of Custody No:	2683	Date Received:	05-17-07
Sample Matrix:	Soil	Date Extracted:	05-18-07
Preservative:	Cool	Date Analyzed:	05-18-07
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

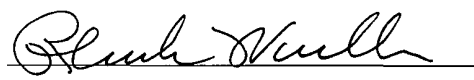
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.7	0.2
Diesel Range (C10 - C28)	4.5	0.1
Total Petroleum Hydrocarbons	5.2	0.2

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 #88A.**

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

## Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	05-18-07 QA/QC	Date Reported:	05-21-07
Laboratory Number:	41580	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-18-07
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	05-07-07	1.1976E+003	1.1981E+003	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.1634E+003	1.1639E+003	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

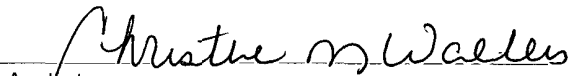
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	0.7	0.7	0.0%	0 - 30%
Diesel Range C10 - C28	4.5	4.4	2.2%	0 - 30%


Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	0.7	250	251	100.0%	75 - 125%
Diesel Range C10 - C28	4.5	250	254	99.6%	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 41580, 41582 - 41584 and 41586.

  
Analyst

  
Review

# CHAIN OF CUSTODY RECORD

2683

Client / Project Name <i>WILLIAMS Production</i>			Project Location <i>ROSA #88A</i>		ANALYSIS / PARAMETERS							
Sampler:			Client No. <i>04108-003-2683</i>		No. of Containers <i>0021</i> <i>BTEX</i> <i>0015</i> <i>TPH</i>						Remarks	
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix								
<i>Pit Replacement</i>	<i>5-15-07</i>	<i>9:00AM</i>	<i>41580</i>	<i>SOIL</i>	<i>1</i>	<i>✓</i>	<i>✓</i>					
Relinquished by: (Signature) <i>Amel Shter</i>			Date <i>5-17-07</i>	Time <i>11:00</i>	Received by: (Signature) <i>Blair Smith</i>					Date <i>5/17/07</i>	Time <i>1100</i>	
Relinquished by: (Signature)					Received by: (Signature)							
Relinquished by: (Signature)					Received by: (Signature)							
<b>RESULTS TO M. LANE</b>  <b>ENVIROTECH INC.</b> <hr/> 5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615					Sample Receipt							
						Y	N	N/A				
					Received Intact	<i>✓</i>						
					Cool - Ice/Blue Ice	<i>✓</i>						