

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-144
June 1, 2004

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 145A</u> API #: <u>30-045-2427</u> U/L or Qtr/Qtr <u>D</u> Sec <u>16</u> T <u>31N</u> R <u>06W</u>		
County: <u>San Juan</u> Latitude _____ Longitude _____ 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"/>		
Pit 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 _____ mil Clay <input type="checkbox"/> Pit Volume _____ bbl	Below-grade tank 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. _____	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet	(20 points)
	50 feet or more, but less than 100 feet ✓ 100 feet or more	(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	(20 points)
	✓ No	✓ (0 points)
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet	(20 points)
	✓ 200 ft or more, but less than 1000 feet	✓ (10 points)
	1000 feet or more	(0 points)
Ranking Score (Total Points)		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:
Close fiberglass BGT and transfer produced water to above-ground storage tank. Release discovered. See attached C-144.
RCVD NOV 21 '07
OIL CONS. DIV.

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 ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: 11/19/07

Printed Name/Title Michael K. Lane/EH&S Specialist

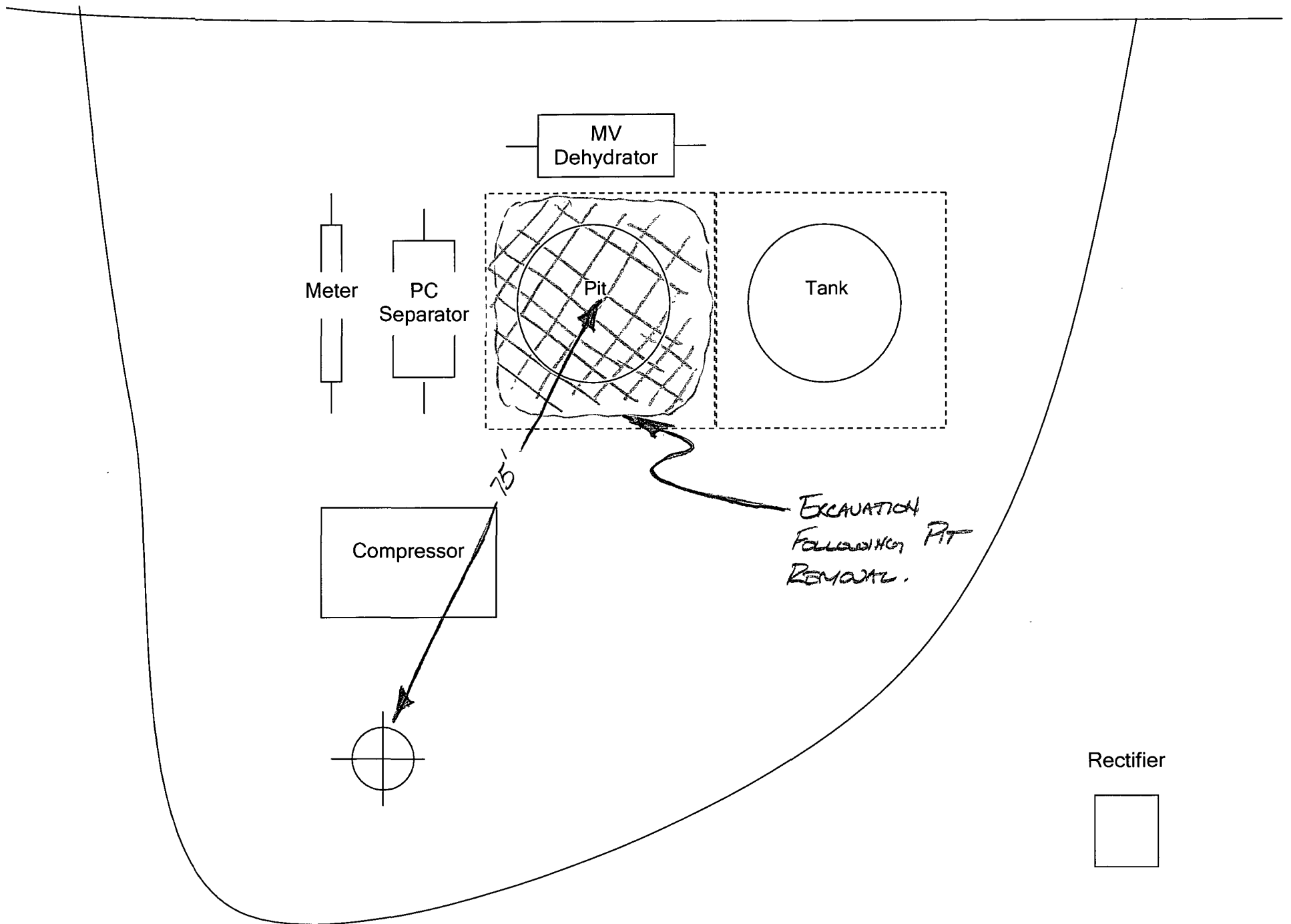
Signature [Signature]

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,
Printed Name/Title District #3

Signature [Signature]

Date: DEC 03 2007



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Energy Minerals and Natural Resources

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

Form C-138
Revised March 12, 2007

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address: Williams Production Co, LLC, PO Box 640, Aztec, NM Disposal Requested by: Chris Lucero (NXECC334277)	
2. Originating Site: Rosa #145A	
3. Location of Material (Street Address, City, State or ULSTR): D-S16-T31N-R06W, NMPM San Juan Co., NM	
4. Source and Description of Waste: Sludge in production pit including oils, sand, solids and produced water residue. Estimated Volume <u>15</u> yd ³ / bbls Known Volume (to be entered by the operator at the end of the haul) <u>50</u> yd ³ / bbls	
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS I, <u>Michael K. Lane</u> , representative or authorized agent for <u>Williams Production Co, LLC</u> do hereby Generator Signature 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) <input checked="" type="checkbox"/> RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non- exempt waste. <u>Operator Use Only: Waste Acceptance Frequency</u> <input type="checkbox"/> Monthly <input type="checkbox"/> Weekly <input type="checkbox"/> Per Load <input type="checkbox"/> 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) <input type="checkbox"/> MSDS Information <input type="checkbox"/> RCRA Hazardous Waste Analysis <input type="checkbox"/> Process Knowledge <input type="checkbox"/> Other (Provide description in Box 4) GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS I, <u>April E. Pohl</u> , representative for <u>Envirotech Inc</u> 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 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: Riley Industrial	

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 Record)**

PRINT NAME: Denny G Foust TITLE: Environmental Geologist DATE: 11-9-07

SIGNATURE: [Signature] TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

MANIFEST # 28916
DATE 11 12 07 JOB # 0408-020

<275

NAME Edoardo Carullo COMPANY A.C. TRUCKING SIGNATURE Edoardo Carullo
 COMPANY CONTACT Carullo Construction 578-1721 PHONE 578-1721 DATE 11/2/07

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

MANIFEST # 28907

DATE 11-9-07 JOB # 04108-020

<275 Chloride test 2
Paint filter test 2

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

NAME [Signature] COMPANY RIVERBEND SIGNATURE [Signature]
 COMPANY CONTACT MYKE LANE PHONE _____ DATE 11-9-07
sanjuro reprodution 578-126

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

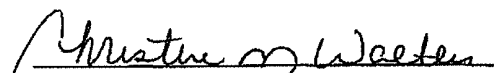
Client:	Williams Prod	Project #:	04108-003-3601
Sample ID:	Exc. Contam. Smp	Date Reported:	11-14-07
Laboratory Number:	43621	Date Sampled:	11-08-07
Chain of Custody No:	3601	Date Received:	11-09-07
Sample Matrix:	Soil	Date Extracted:	11-12-07
Preservative:	Cool	Date Analyzed:	11-13-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

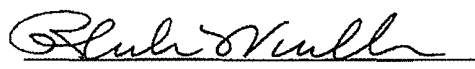
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	959	0.1
Total Petroleum Hydrocarbons	967	0.2

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 145A - Pit Closure.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Williams Prod *exc 10' bgs*
Sample ID: Exc. Bottom
Laboratory Number: 43622
Chain of Custody No: 3601
Sample Matrix: Soil
Preservative: Cool
Condition: Cool & Intact

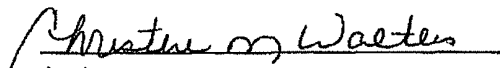
Project #: 04108-003-3601
Date Reported: 11-14-07
Date Sampled: 11-08-07
Date Received: 11-09-07
Date Extracted: 11-12-07
Date Analyzed: 11-13-07
Analysis Requested: 8015 TPH

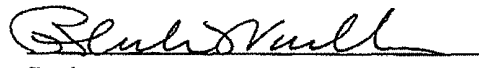
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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 145A - Pit Closure.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Williams Prod	Project #:	04108-003-3601
Sample ID:	Exc. Contam. Smp	Date Reported:	11-14-07
Laboratory Number:	43621	Date Sampled:	11-08-07
Chain of Custody:	3601	Date Received:	11-09-07
Sample Matrix:	Soil	Date Analyzed:	11-13-07
Preservative:	Cool	Date Extracted:	11-12-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	3.4	0.9
Toluene	ND	1.0
Ethylbenzene	15.4	1.0
p,m-Xylene	68.0	1.2
o-Xylene	15.9	0.9
Total BTEX	103	

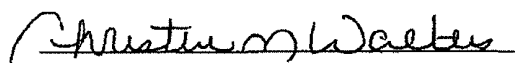
ND - Parameter not detected at the stated detection limit.


Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	96.0 %
	1,4-difluorobenzene	96.0 %
	Bromochlorobenzene	96.0 %

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 145A - Pit Closure.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Williams Prod	Project #:	04108-003-3601
Sample ID:	Exc. Bottom	Date Reported:	11-14-07
Laboratory Number:	43622	Date Sampled:	11-08-07
Chain of Custody:	3601	Date Received:	11-09-07
Sample Matrix:	Soil	Date Analyzed:	11-13-07
Preservative:	Cool	Date Extracted:	11-12-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	ND	1.0
Ethylbenzene	ND	1.0
p,m-Xylene	ND	1.2
o-Xylene	ND	0.9
Total BTEX	ND	

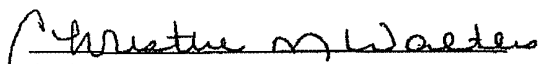
ND - Parameter not detected at the stated detection limit.

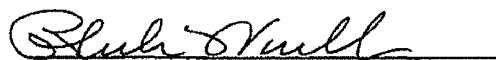
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	96.0 %
	1,4-difluorobenzene	96.0 %
	Bromochlorobenzene	96.0 %

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 145A - Pit Closure.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

Client:	Williams Prod	Project #:	04108-003-3601
Sample ID:	Exc. Contam Smp	Date Reported:	11-14-07
Lab ID#:	43621	Date Sampled:	11-08-07
Sample Matrix:	Soil	Date Received:	11-09-07
Preservative:	Cool	Date Analyzed:	11-13-07
Condition:	Cool and Intact	Chain of Custody:	3601


Parameter	Concentration (mg/Kg)
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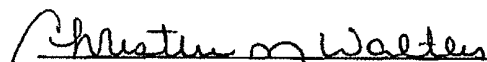
Total Chloride

40.0

Reference: Standard Methods For The Examination of Water And Waste Water*, 18th ed., 1992.

Comments: Rosa 145A - Pit Closure.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

Client:	Williams Prod	Project #:	04108-003-3601
Sample ID:	Exc. Bottom	Date Reported:	11-14-07
Lab ID#:	43622	Date Sampled:	11-08-07
Sample Matrix:	Soil	Date Received:	11-09-07
Preservative:	Cool	Date Analyzed:	11-13-07
Condition:	Cool and Intact	Chain of Custody:	3601

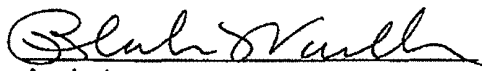
Parameter	Concentration (mg/Kg)
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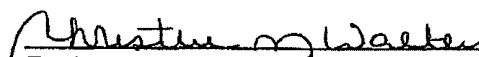
Total Chloride

41.0

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

Comments: Rosa 145A - Pit Closure.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

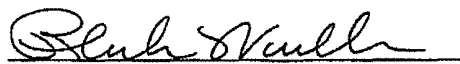
Moisture

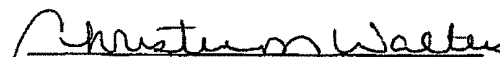
Client:	Williams Prod	Project #:	04108-003-3601
Sample ID:	Exc. Contam Smp	Date Reported:	11-14-07
Lab ID#:	43621	Date Sampled:	11-08-07
Sample Matrix:	Soil	Date Received:	11-08-07
Preservative:	Cool	Date Analyzed:	11-13-07
Condition:	Cool & Intact	Chain of Custody:	3601

Parameter	Result
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Moisture Content	19.2%
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Comments: Rosa 145A - Pit Closure.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Moisture


Client:	Williams Prod	Project #:	04108-003-3601
Sample ID:	Exc. Bottom @ <i>NOBS</i>	Date Reported:	11-14-07
Lab ID#:	43622	Date Sampled:	11-08-07
Sample Matrix:	Soil	Date Received:	11-08-07
Preservative:	Cool	Date Analyzed:	11-13-07
Condition:	Cool & Intact	Chain of Custody:	3601

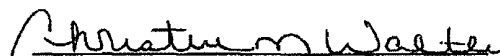
Parameter	Result
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Moisture Content

6.1%

Comments: Rosa 145A - Pit Closure.


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:	11-13-07 QA/QC	Date Reported:	11-14-07
Laboratory Number:	43617	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-13-07
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	1.0484E+003	1.0489E+003	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.0062E+003	1.0066E+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

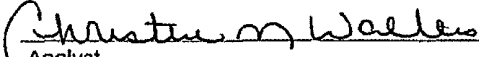
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	1.6	1.5	6.3%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	249	99.6%	75 - 125%
Diesel Range C10 - C28	1.6	250	250	99.4%	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 43617 - 43618, 43620 - 43622, 43624 and 43627.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	11-14-BTEX QA/QC	Date Reported:	11-14-07
Laboratory Number:	43620	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-13-07
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	1.1368E+008	1.1391E+008	0.2%	ND	0.1
Toluene	9.5287E+007	9.5478E+007	0.2%	ND	0.1
Ethylbenzene	7.4515E+007	7.4664E+007	0.2%	ND	0.1
p,m-Xylene	1.4861E+008	1.4891E+008	0.2%	ND	0.1
o-Xylene	7.0845E+007	7.0987E+007	0.2%	ND	0.1

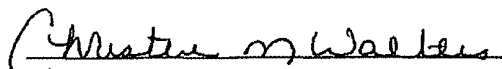
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	1.9	1.8	5.3%	0 - 30%	0.9
Toluene	ND	ND	0.0%	0 - 30%	1.0
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.0
p,m-Xylene	ND	ND	0.0%	0 - 30%	1.2
o-Xylene	ND	ND	0.0%	0 - 30%	0.9

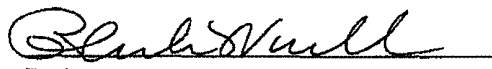
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	1.9	50.0	51.7	99.6%	39 - 150
Toluene	ND	50.0	49.9	99.8%	46 - 148
Ethylbenzene	ND	50.0	49.9	99.8%	32 - 160
p,m-Xylene	ND	100	96.0	96.0%	46 - 148
o-Xylene	ND	50.0	49.0	98.0%	46 - 148

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.

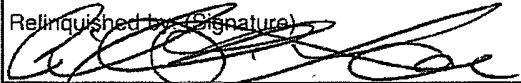
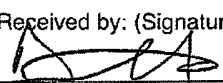
Comments: QA/QC for Samples 43620 - 43623.


Analyst


Review

CHAIN OF CUSTODY RECORD

3601

Client: Williams Prod			Project Name / Location: Posa 145A - Pit Closure			ANALYSIS / PARAMETERS													
Client Address:			Sampler Name: Chris Lucas			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CI	Misc	Sample Cool	Sample Intact	
Client Phone No.:			Client No.: 04108-003-3601																
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative H ₂ O ₂ HNO ₃													
Exc. Contam. Sup.	11/2/07	-	43621	Soil	1			N	✓	✓					✓	✓			
Exc. Bottom	11/2/07	"	43622	"	1			N	✓	✓					✓	✓			
Relinquished by: (Signature) 						Date	Time	Received by: (Signature) 						Date	Time				
Relinquished by: (Signature)								Received by: (Signature)											
Relinquished by: (Signature)								Received by: (Signature)											

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