FORM
27
Rev 6/99

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State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109

FOR OGCC USE ONLY
Received 6/23/2011

OGCC Employee:
☐ Spill ☐ Complaint
☐ Inspection ☐ NOAV
Tracking No:

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

☐ Spill or Release ☐ Plug & Abandon ☐ Central Facility Closure ☑ Site/Facility Closure ☐ Other (describe):

OGCC Operator Number: 96850
Name of Operator: Williams Production RMT Company
Address: 1058 CR 215
City: Parachute State: CO Zip: 81635

Contact Name and Telephone:
Karolina Blaney
No: 970/285-9377
Fax: 970/285-9573

API Number: 05-045-06568
County: Garfield
Facility Name:
Facility Number: MV 29-27
Well Name:
Well Number: MV 29-27
Location: (QtrQtr, Sec, Twp, Rng, Meridian): NWSE- S27-T6S-R96W- 06M
Latitude: 39.493164 Longitude: -108.089948

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): flared gas

Site Conditions: Is location within a sensitive area (according to Rule 901e)? ☑ Y ☐ N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Range Land

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: 9 - Badland

Potential receptors (water wells within 1/4 mi, surface waters, etc.): 441' from surface water, 4425' from water well, 73' to groundwater

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):	Extent of Impact:	How Determined:
☐ Soils	none	
☐ Vegetation	none	
☐ Groundwater	none	
☐ Surface Water	none	

REMEDIATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):

No action was taken because the pit was never used.

Describe how source is to be removed:

There is no contamination source due to the fact that the pit was never used.

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:

No remediation is necessary. The analytical results indicate hydrocarbon content below COGCC Table 910-1 requirements.

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State of Colorado
Oil and Gas Conservation Commission
1120 Lincoln Street, Suite 801, Denver, Colorado 80203
(303)894-2100 Fax:(303)894-2109

Tracking Number: _____
Name of Operator: _____
OGCC Operator No: _____
Received Date: _____
Well Name & No: MV 29-27
Facility Name & No: Pit # 422643

REMEDIATION WORKPLAN (Cont.)

OGCC Employee:

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

Ground water has not been impacted.

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

The pit will be reclaimed in accordance with the 1000 series rules.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? ☐ Y ☑ N If yes, describe:

One grab sample was collected from the middle of the pit.
See attached plat for the grab sample and pit location.
See attached analytical report for the analytical results.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

No E&P waste was generated.

IMPLEMENTATION SCHEDULE

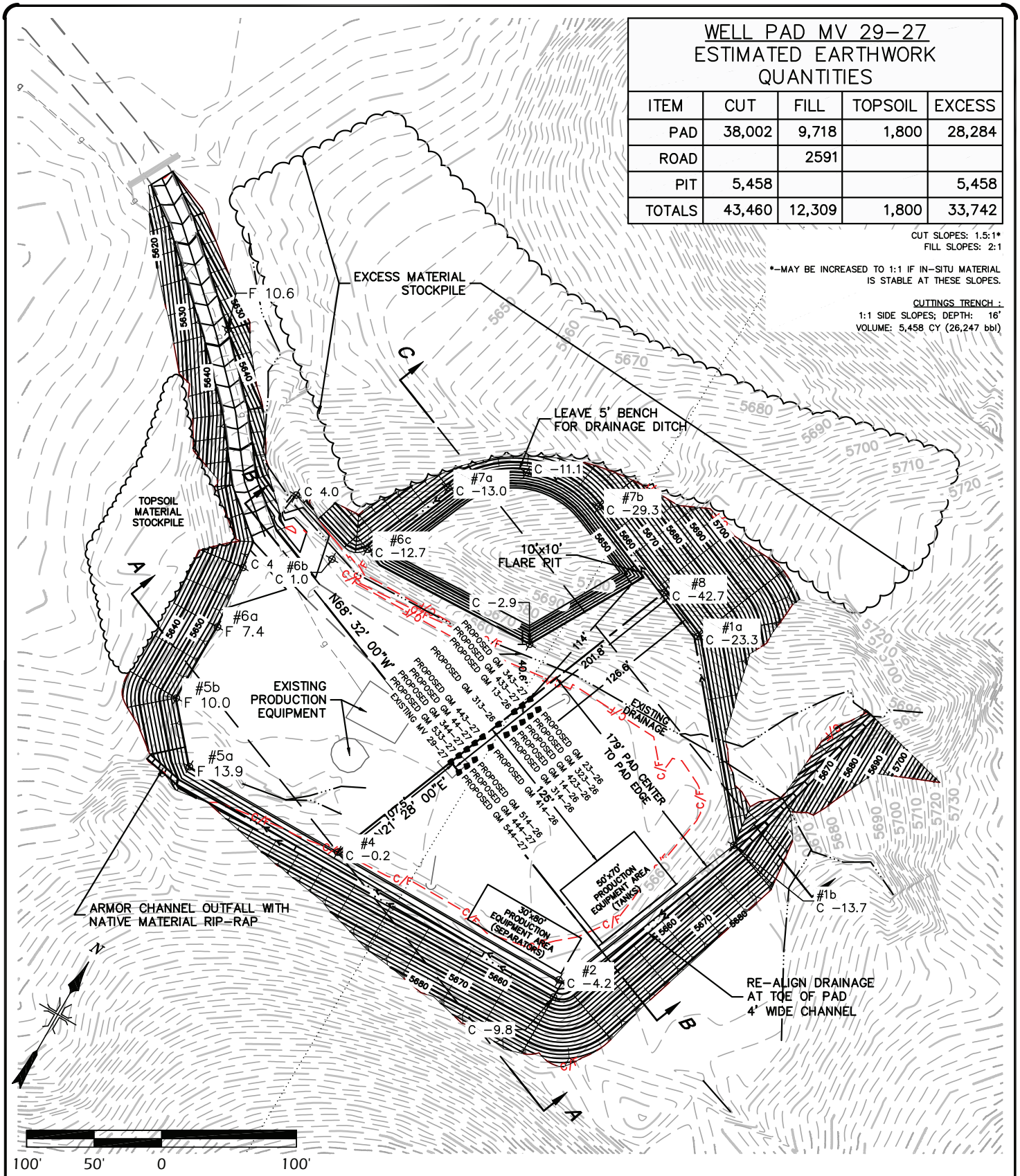
Date Site Investigation Began: 6/1/2011	Date Site Investigation Completed: 6/14/2011	Date Remediation Plan Submitted: 6/23/2011
Remediation Start Date: NA	Anticipated Completion Date: NA	Actual Completion Date: 6/14/2011

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Karolina Blaney Signed: Karolina Blaney

Title: Environmental Specialist Date: 6/23/2011

OGCC Approved: Title: FOR Chris Canfield Date: July 15, 2011



WELL PAD MV 29-27
ESTIMATED EARTHWORK QUANTITIES

ITEM	CUT	FILL	TOPSOIL	EXCESS
PAD	38,002	9,718	1,800	28,284
ROAD		2591		
PIT	5,458			5,458
TOTALS	43,460	12,309	1,800	33,742

CUT SLOPES: 1.5:1*
FILL SLOPES: 2:1

*-MAY BE INCREASED TO 1:1 IF IN-SITU MATERIAL IS STABLE AT THESE SLOPES.

CUTTINGS TRENCH :
1:1 SIDE SLOPES; DEPTH: 16'
VOLUME: 5,458 CY (26,247 bbl)

DEL-MONT CONSULTANTS IS PROVIDING GRADING DESIGN FOR THIS PROJECT THAT PROVIDES DIMENSIONS AND VOLUME INFORMATION FOR CONSTRUCTION.

DEL-MONT CONSULTANTS, INC.
ENGINEERING • SURVEYING • PLANNING

DESIGNED BY: MGW
SCALE: 1"=100'
CHECKED BY: KS
FILE NAME: 10030C-MV29-27_PAD-SITE

S26 & S27, T6S, R96W, 6TH P.M.
CONSTRUCTION LAYOUT
WELL PAD MV 29-27

GARFIELD COUNTY, CO
WILLIAMS PRODUCTION, RMT

DMC JOB NO.: 10030
DATE ISSUED: 2010-04-26
DATE SURVEYED: 2008-11-17
PLAT: 2 of 9

Gulf Coast ACCUTEST LABORATORIES

06/14/11

Technical Report for

Williams Production RMT Company

MV 29-27 Flare Pit

Accutest Job Number: T77686

Sampling Date: 06/01/11

Report to:

Williams Production RMT Company
1058 County Road 215
Parachute, CO 81635
karolina.blaney@williams.com

ATTN: Karolina Blaney

Total number of pages in report: **18**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-10-3) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004) OK (9103)

Sections: 1 2 3 4 5

Table of Contents

Sample Summary

Williams Production RMT Company

Job No: T77686

MV 29-27 Flare Pit

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T77686-1	06/01/11	13:15	RW	06/04/11	SO	Soil	MV 29-27 FLARE PIT

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Gulf Coast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	MV 29-27 FLARE PIT		
Lab Sample ID:	T77686-1	**Date Sampled:**	06/01/11
Matrix:	SO - Soil	**Date Received:**	06/04/11
Method:	SW846 8015	**Percent Solids:**	87.8
Project:	MV 29-27 Flare Pit		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB0007718.D	1	06/10/11	AT	n/a	n/a	GBB368
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.84 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	1.79	5.6	0.33	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		46-127%
98-08-8	aaa-Trifluorotoluene	99%		44-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MV 29-27 FLARE PIT		
Lab Sample ID:	T77686-1	**Date Sampled:**	06/01/11
Matrix:	SO - Soil	**Date Received:**	06/04/11
Method:	SW846 8015 M SW846 3550B	**Percent Solids:**	87.8
Project:	MV 29-27 Flare Pit		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IF207242.D	1	06/13/11	HD	06/06/11	OP18753	GIF1220
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	69.1	3.8	3.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	94%		33-115%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

PAGE 1 OF 1

ACCUTEST Laboratories
10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: T77686

Client / Reporting Information

Company Name: Williams Production
Street Address: 358 Cty Rd 215
City: Parachute State: CO Zip: 81635
Project Contact: Karolina.Blaney@Williams.com
E-mail:
Phone #: 970 6832295 Fax #: 970 285 9573
Sampler(s) Name(s): Rod Wild

Project Information

Project Name: MV 29-27 Flare Pit
Street:
City: State:
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention: Karolina Blaney

Requested Analyses

DRO/GRO

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Lab #	Field ID / Point of Collection	Collection: Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZnAcNaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	LAB USE ONLY
1	MV 29-27 Flare Pit	6/1/11	1:15	RW	SO	1													

Turnaround Time (Business days)

- [x] Standard
- [ ] 5 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 3 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 1 Day *EMERGENCY*

Approved By (Accutest PM): / Date:

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [x] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
Rod Wild	6/3/11	1	2		2
Relinquished by Sampler: Fed EX	Date Time: 6/4/11 1010	Received By: 3 ALGC	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by:	Date Time:	Received By: 5	Custody Seal #	[ ] Intact [ ] Not Intact	Preserved where applicable [ ] On Ice [x] Cooler Temp. 4, 4 °C

T77686: Chain of Custody
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ACCUTEST LABORATORIES

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: T77686 **Client:** WILLIAMS PRODUCTION **Project:** MV 29-27 FLARE PIT

Date / Time Received: 6/4/2011 10:10 **Delivery Method:** FedEx **Airbill #'s:** 874632744048

No. Coolers: 1 **Therm ID:** IRGUN4; **Temp Adjustment Factor:** -0.1;

Cooler Temps (Initial/Adjusted): #1: (4.5/4.4);

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	IR Gun	
3. Cooler media:	Ice (Bag)	

Quality Control Preservation	Y	N	N/A	WTB	STB
1. Trip Blank present / cooler:	☐	☑	☐	☐	☐
2. Trip Blank listed on COC:	☐	☑	☐		
3. Samples preserved properly:	☑	☐			
4. VOCs headspace free:	☐	☐	☑		

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

Danny Huddleston 6/4/11

Accutest Laboratories
V:713.271.4700

10165 Harwin Drive
F: 713.271.4770

Houston, TX 77036
www/accutest.com

T77686: Chain of Custody
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ACCUTEST LABORATORIES

Sample Receipt Log

Job #: T77686 **Date / Time Received:** 6/4/2011 10:10:00 AM **Initials:** DARRELLH

Client: WILLIAMS PRODUCTION

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
1	T77686-1	16oz	1	VR	N/P	Note #2 - Preservative check not applicable.	IRGUN4	4.5	-0.1	4.4

T77686: Chain of Custody
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Gulf Coast ACCUTEST LABORATORIES

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T77686
Account: WPRMTCOP Williams Production RMT Company
Project: MV 29-27 Flare Pit

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GBB368-MB	BB0007707.D	1	06/10/11	AT	n/a	n/a	GBB368

The QC reported here applies to the following samples: **Method:** SW846 8015

T77686-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	0.30	mg/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	90%	46-127%
98-08-8	aaa-Trifluorotoluene	96%	44-120%

Blank Spike Summary

Job Number: T77686
Account: WPRMTCOP Williams Production RMT Company
Project: MV 29-27 Flare Pit

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GBB368-BS	BB0007704.D	1	06/10/11	AT	n/a	n/a	GBB368

The QC reported here applies to the following samples: **Method:** SW846 8015

T77686-1

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.334	84	78-115

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	92%	46-127%
98-08-8	aaa-Trifluorotoluene	104%	44-120%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T77686
Account: WPRMTCOP Williams Production RMT Company
Project: MV 29-27 Flare Pit

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T77589-3MS	BB0007711.D	2	06/10/11	AT	n/a	n/a	GBB368
T77589-3MSD	BB0007712.D	2	06/10/11	AT	n/a	n/a	GBB368
T77589-3	BB0007710.D	2	06/10/11	AT	n/a	n/a	GBB368

The QC reported here applies to the following samples: **Method:** SW846 8015

T77686-1

CAS No.	Compound	T77589-3 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	159		65.8	215	85	215	85	0	78-115/14

CAS No.	Surrogate Recoveries	MS	MSD	T77589-3	Limits
460-00-4	4-Bromofluorobenzene	237%* [a]	238%* [a]	259%* [a]	46-127%
98-08-8	aaa-Trifluorotoluene	116%	117%	108%	44-120%

(a) Outside control limits due to matrix interference. Confirmed by MS/MSD.

Gulf Coast ACCUTEST LABORATORIES

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T77686
Account: WPRMTCOP Williams Production RMT Company
Project: MV 29-27 Flare Pit

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18753-MB	IF206967.D	1	06/07/11	HD	06/06/11	OP18753	GIB1216

The QC reported here applies to the following samples: **Method:** SW846 8015 M

T77686-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	3.3	2.7	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	76%	33-115%

Blank Spike Summary

Job Number: T77686
Account: WPRMTCOP Williams Production RMT Company
Project: MV 29-27 Flare Pit

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18753-BS	IF206968.D	1	06/07/11	HD	06/06/11	OP18753	GIB1216

The QC reported here applies to the following samples: **Method:** SW846 8015 M

T77686-1

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH (C10-C28)	33.2	23.3	70	45-107

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	72%	33-115%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T77686
Account: WPRMTCOP Williams Production RMT Company
Project: MV 29-27 Flare Pit

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18753-MS	IF207003.D	10	06/08/11	HD	06/06/11	OP18753	GIB1216
OP18753-MSD	IF207004.D	10	06/08/11	HD	06/06/11	OP18753	GIB1216
T77405-16	IF207002.D	10	06/08/11	HD	06/06/11	OP18753	GIB1216

The QC reported here applies to the following samples: **Method:** SW846 8015 M

T77686-1

CAS No.	Compound	T77405-16 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	183		39	183	0* [a]	528	885* [a]	97*	45-107/34

CAS No.	Surrogate Recoveries	MS	MSD	T77405-16	Limits
84-15-1	o-Terphenyl	0%* [b]	0%* [b]	0%* [b]	33-115%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Outside control limits due to dilution.