FORM 4
Rev 12/05

State of Colorado
Oil and Gas Conservation Commission

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

DE | ET | DE | ES

RECEIVED 7/14/2011

SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry Information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b.)

1. OGCC Operator Number: 96850
2. Name of Operator: Williams Production RMT
3. Address: 1058 County Road 215
City: Parachute State: CO Zip: 81635
4. Contact Name: Karolina Blaney
Phone: 970 683 2295
Fax: 970 285 9573

Complete the Attachment Checklist — OP OGCC

5. API Number 05-
OGCC Facility ID Number 414574
6. Well/Facility Name:
7. Well/Facility Number Juhan 14-26H
8. Location (QtrQtr, Sec, Twp, Rng, Meridian): SESW- S26 T6S R94W 6th PM
9. County: Garfield
10. Field Name: Rulison
11. Federal, Indian or State Lease Number:

Attachment Checklist	OP	OGCC
Survey Plat		
Directional Survey		
Surface Eqpmt Diagram		
Technical Info Page	X	
Other	X	

General Notice

☐ CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)

	FNL/FSL		FEL/FWL	
Change of **Surface** Footage **from** Exterior Section Lines:				
Change of **Surface** Footage **to** Exterior Section Lines:				
Change of **Bottomhole** Footage **from** Exterior Section Lines:				
Change of **Bottomhole** Footage **to** Exterior Section Lines:				attach directional survey

Bottomhole location Qtr/Qtr, Sec, Twp, Rng, Mer
Latitude
Longitude
Ground Elevation
Distance to nearest property line
Distance to nearest lease line
Distance to nearest well same formation
Distance to nearest bldg, public rd, utility or RR
Is location in a High Density Area (rule 603b)? Yes/No
Surface owner consultation date:

GPS DATA:
Date of Measurement PDOP Reading Instrument Operator's Name

☐ CHANGE SPACING UNIT

Formation	Formation Code	Spacing order number	Unit Acreage	Unit configuration

☐ Remove from surface bond
Signed surface use agreement attached

☐ CHANGE OF OPERATOR (prior to drilling):
Effective Date:
Plugging Bond: ☐ Blanket ☐ Individual

☐ CHANGE WELL NAME NUMBER
From:
To:
Effective Date:

☐ ABANDONED LOCATION:
Was location ever built? ☐ Yes ☐ No
Is site ready for Inspection? ☐ Yes ☐ No
Date Ready for Inspection:

☐ NOTICE OF CONTINUED SHUT IN STATUS
Date well shut in or temporarily abandoned:
Has Production Equipment been removed from site? ☐ Yes ☐ No
MIT required if shut in longer than two years. Date of last MIT

☐ SPUD DATE:

☐ REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)

☐ SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK *submit cbl and cement job summaries

Method used	Cementing tool setting/perf depth	Cement volume	Cement top	Cement bottom	Date

☐ RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004.
Final reclamation will commence on approximately
☐ Final reclamation is completed and site is ready for inspection.

Technical Engineering/Environmental Notice

☐ Notice of Intent
Approximate Start Date:

☒ Report of Work Done
Date Work Completed: 7/13/2011

Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)

☐ Intent to Recomplete (submit form 2)
☐ Change Drilling Plans
☐ Gross Interval Changed?
☐ Casing/Cementing Program Change
☐ Request to Vent or Flare
☐ Repair Well
☐ Rule 502 variance requested
☒ Other: Form 15 COAs
☐ E&P Waste Disposal
☐ Beneficial Reuse of E&P Waste
☐ Status Update/Change of Remediation Plans for Spills and Releases

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

Signed: Karolina Blaney Date: 7/14/2011 Email: Karolina.Blaney@Williams.com
Print Name: Karolina Blaney Title: Environmental Specialist

COGCC Approved: Richard Allison Title: OGLA - EPS II Date: 11/3/2011
CONDITIONS OF APPROVAL, IF ANY:

FORM 4 Rev 12/05

TECHNICAL INFORMATION PAGE

FOR OGCC USE ONLY

1. OGCC Operator Number: 96850 API Number:
2. Name of Operator: Williams Production RMT OGCC Facility ID # 414574
3. Well/Facility Name: Well/Facility Number: Juhan 14-26H
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): SESW- S26 T6S R94W 6th PM

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. **DESCRIBE PROPOSED OR COMPLETED OPERATIONS**

In compliance with the Juhan 14-26H Pit Permit Form 15 conditions of approval (see attached), Williams is submitting the following documents:

- List of source water - Form 26
- Analytical data of the grab water sample collected from pit

FORM
26
Rev 6/99

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

SOURCE OF PRODUCED WATER FOR DISPOSAL

This form must be completed for any new disposal site and for any change in sources of produced water for an existing disposal site.

Complete the Attachment Checklist

	Oper	OGCC
Chemical Analysis of fluid		

OGCC Operator Number: 96850
Name of Operator: Williams Production RMT Co.
Address: 1058 County Road 215
City: Parachute State: CO Zip: 81635

Contact Name and Telephone:
Karolina Blaney
No: (970) 683-2295
Fax: (970) 285-9573

OGCC Disposal Facility Number: 414574
Operator's Disposal Facility Name: Juhan 14-26H Operator's Disposal Facility Number: ______
Location (QtrQtr, Sec, Twp, Rng, Meridian): SESW- S26 T6S R94W 6th PM
Address: ______
City: ______ State: CO Zip: ______ County: Garfield

If more space is required, attach additional sheet.

Add Source: ☑ OGCC Lease No: ______ API No: ______ Well Name & No: ______
Operator Name: See attached list of wells Operator No: ______
Delete Source: ☐ Location: QtrQtr: ______ Section: ______ Township: ______ Range: ______ Producing Formation: ______
Analysis Attached? ☐Yes ☐No Transported to disposal site via: ☐Pipeline ☐Truck TDS: ______

Add Source: ☐ OGCC Lease No: ______ API No: ______ Well Name & No: ______
Operator Name: ______ Operator No: ______
Delete Source: ☐ Location: QtrQtr: ______ Section: ______ Township: ______ Range: ______ Producing Formation: ______
Analysis Attached? ☐Yes ☐No Transported to disposal site via: ☐Pipeline ☐Truck TDS: ______

Add Source: ☐ OGCC Lease No: ______ API No: ______ Well Name & No: ______
Operator Name: ______ Operator No: ______
Delete Source: ☐ Location: QtrQtr: ______ Section: ______ Township: ______ Range: ______ Producing Formation: ______
Analysis Attached? ☐Yes ☐No Transported to disposal site via: ☐Pipeline ☐Truck TDS: ______

Add Source: ☐ OGCC Lease No: ______ API No: ______ Well Name & No: ______
Operator Name: ______ Operator No: ______
Delete Source: ☐ Location: QtrQtr: ______ Section: ______ Township: ______ Range: ______ Producing Formation: ______
Analysis Attached? ☐Yes ☐No Transported to disposal site via: ☐Pipeline ☐Truck TDS: ______

Add Source: ☐ OGCC Lease No: ______ API No: ______ Well Name & No: ______
Operator Name: ______ Operator No: ______
Delete Source: ☐ Location: QtrQtr: ______ Section: ______ Township: ______ Range: ______ Producing Formation: ______
Analysis Attached? ☐Yes ☐No Transported to disposal site via: ☐Pipeline ☐Truck TDS: ______

Add Source: ☐ OGCC Lease No: ______ API No: ______ Well Name & No: ______
Operator Name: ______ Operator No: ______
Delete Source: ☐ Location: QtrQtr: ______ Section: ______ Township: ______ Range: ______ Producing Formation: ______
Analysis Attached? ☐Yes ☐No Transported to disposal site via: ☐Pipeline ☐Truck TDS: ______

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: 7/14/2011

OGCC Approved: Richard Allison Title: OGLA - EPS II Date: 11/3/2011

CONDITIONS OF APPROVAL, IF ANY:

Form 15

FORM 15 Rev 6/99

01631100

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

EARTHEN PIT REPORT/PERMIT

This form is to be used for both reporting and permitting pits. Rule 903 describes when a Permit with prior approval, or a Report within 30 days, is required for pits. Submit required attachments and forms.

Complete the Attachment Checklist

	Oper	OGCC
Detailed Site Plan	X	
Topo Map w/ Pit Location	X	
Water Analysis (Form 25)	N/A	
Source Wells (Form 26)	N/A	
Pit Design/Plan & Cross Sect	X	
Design Calculations	N/A	
Sensitive Area Determ.	X	
Mud Program	N/A	
Form 2A	N/A	

FORM SUBMITTED FOR:

☐ Pit Report ☐ Pit Permit

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:

Robert Bleil

No: (970) 285-9377

Fax: (970) 285-9573

API Number (of associated well): N/A OGCC Facility ID (of other associated facility): N/A

Pit Location (QtrQtr, Sec, Twp, Rng, Meridian): SE SW S26 T6S R94W 6th PM

Latitude: N 39.492069 Longitude: W 107.859513 County: Garfield

Pit Use: ☐ Production ☐ Drilling (Attach mud program) ☒ Special Purpose (Describe Use): 14-26H CCF (See attachments)

Pit Type: ☒ Lined ☐ Unlined Surface Discharge Permit: ☐ Yes ☒ No

Offsite disposal of pit contents: ☐ Injection ☐ Commercial Pit/Facility Name: JUHAN Pit/Facility No: 14-26H

Attach Form 26 to identify Source Wells and Form 25 to provide Produced Water Analysis results.

Existing Site Conditions

Is the location in a "Sensitive Area?" ☒ Yes ☐ No 40' **Attach data used for determination.**

Distance (in feet) to nearest surface water: 300 ground water: ~~75-100 ft~~ water wells: 1350 ft.

LAND USE (or attach copy of Form 2A if previously submitted for associated well) Select one which best describes land use:

Crop Land: ☐ Irrigated ☐ Dry Land ☐ Improved Pasture ☐ Hay Meadow ☐ CRP

Non-Crop Land: ☒ Rangeland ☐ Timber ☐ Recreational ☐ Other (describe):

Subdivided: ☐ Industrial ☐ Commercial ☐ Residential

SOILS (or attach copy of Form 2A if previously submitted for associated well)

Soil map units form USNRCS survey: Sheet No: CO683 Soil Complex/Series No: 47

Soils Series Name: Nihill Channery Horizon thickness (in inches): A: 0 - 60" ; B: ; C:

Soils Series Name: Horizon thickness (in inches): A: ; B: ; C:

Attach detailed site plan and topo map with pit location.

Pit Design and Construction

Size of pit (feet): Length: 380 Width: 90 Depth: 16

Calculated pit volume (bbls): 77485 Daily inflow rate (bbls/day): 1800 (annualized)

Daily disposal rates (attach calculations): Evaporation: N/A bbls/day Percolation: N/A bbls/day

Type of liner material: Synthetic Polypropylene Thickness: ~~36 mil~~ 45 mil

Attach description of proposed design and construction (include sketches and calculations).

Method of treatment of produced water prior to discharge into pit (separator, heater treater, other): N/A

Is pit fenced? ☒ Yes ☐ No Is pit netted? ~~☐ Yes~~ ☒ No

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

Print Name: Robert Bleil Signed: [signature]

Title: Principal Regulatory Specialist Date: 6-6-08

OGCC Approved: [signature] Title: OGLA SUPERVISOR Date: 3/22/11

CONDITIONS OF APPROVAL, IF ANY:

- OPERATOR WILL CEASE USE BY 12/31/2011
- OPERATOR WILL SUBMIT CLOSURE PLAN BY 12/31/2011 (FORM 27)
- OPERATOR WILL SUBMIT FORM 26 LISTING SOURCES OF WATER
- OPERATOR WILL PROVIDE ANALYTICAL DATA FOR GRAB SAMPLE COLLECTED FROM PIT ~~[illegible]~~ WITH FORM 26. JAK

FACILITY NUMBER: 414574

Analytical Data

Grab water sample collected from the Juhan 14-26H pit

Gulf Coast ACCUTEST LABORATORIES

05/05/11

Technical Report for

Williams Production RMT Company

Juhan 14-26H Pit

Accutest Job Number: T74161

Sampling Date: 04/20/11

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: **47**

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 6 7

Table of Contents

-1-

Sample Summary

Williams Production RMT Company

Job No: T74161

Juhan 14-26H Pit

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T74161-1	04/20/11	14:00		04/22/11	AQ	Ground Water	JUHAN 14-26H
T74161-1F	04/20/11	14:00 `		04/22/11	AQ	Groundwater Filtered	JUHAN 14-26H (DISSOLVED)

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	JUHAN 14-26H		
Lab Sample ID:	T74161-1	**Date Sampled:**	04/20/11
Matrix:	AQ - Ground Water	**Date Received:**	04/22/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Juhan 14-26H Pit		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E0006298.D	1	04/29/11	JL	n/a	n/a	VE334
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	4.9	50	4.7	ug/l	J
71-43-2	Benzene	ND	2.0	0.50	ug/l	
108-86-1	Bromobenzene	ND	2.0	0.82	ug/l	
74-97-5	Bromochloromethane	ND	2.0	1.6	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	0.49	ug/l	
75-25-2	Bromoform	ND	2.0	1.4	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.63	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.52	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	1.3	ug/l	
108-90-7	Chlorobenzene	ND	2.0	0.56	ug/l	
75-00-3	Chloroethane	ND	2.0	0.92	ug/l	
67-66-3	Chloroform	ND	2.0	0.64	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.70	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.56	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	0.66	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	0.52	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.9	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.55	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	0.62	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.62	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	0.54	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	0.62	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	0.61	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.1	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	0.56	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.48	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	0.69	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	1.0	ug/l	

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:	JUHAN 14-26H		
Lab Sample ID:	T74161-1	**Date Sampled:**	04/20/11
Matrix:	AQ - Ground Water	**Date Received:**	04/22/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Juhan 14-26H Pit		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.68	ug/l	
100-41-4	Ethylbenzene	0.94	2.0	0.55	ug/l	J
591-78-6	2-Hexanone	ND	10	3.2	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	1.3	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.65	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	9.9	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.94	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.84	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.65	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.41	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	3.9	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.65	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.57	ug/l	
100-42-5	Styrene	ND	2.0	0.56	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	0.80	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	1.2	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.98	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	1.1	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.82	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.65	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.70	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	0.91	ug/l	
108-88-3	Toluene	1.0	2.0	0.43	ug/l	J
79-01-6	Trichloroethylene	ND	2.0	0.52	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	1.2	ug/l	
75-01-4	Vinyl chloride	ND	2.0	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.7	ug/l	
	m,p-Xylene	ND	4.0	1.1	ug/l	
95-47-6	o-Xylene	1.1	2.0	0.53	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		79-122%
17060-07-0	1,2-Dichloroethane-D4	87%		75-121%
2037-26-5	Toluene-D8	101%		87-119%

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:	JUHAN 14-26H		
Lab Sample ID:	T74161-1	**Date Sampled:**	04/20/11
Matrix:	AQ - Ground Water	**Date Received:**	04/22/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Juhan 14-26H Pit		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		80-133%

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:	JUHAN 14-26H		
Lab Sample ID:	T74161-1	**Date Sampled:**	04/20/11
Matrix:	AQ - Ground Water	**Date Received:**	04/22/11
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Juhan 14-26H Pit		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	P17586.D	20	04/29/11	GJ	04/27/11	OP18277	EP835
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	200	100	ug/l	
95-57-8	2-Chlorophenol	ND	100	24	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	100	24	ug/l	
120-83-2	2,4-Dichlorophenol	ND	100	45	ug/l	
105-67-9	2,4-Dimethylphenol	ND	100	26	ug/l	
51-28-5	2,4-Dinitrophenol	ND	510	310	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	200	28	ug/l	
95-48-7	2-Methylphenol	ND	100	17	ug/l	
	3&4-Methylphenol	ND	100	32	ug/l	
88-75-5	2-Nitrophenol	ND	100	40	ug/l	
100-02-7	4-Nitrophenol	ND	510	140	ug/l	
87-86-5	Pentachlorophenol	ND	510	270	ug/l	
108-95-2	Phenol	ND	100	15	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	100	24	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	100	23	ug/l	
83-32-9	Acenaphthene	ND	100	32	ug/l	
208-96-8	Acenaphthylene	ND	100	25	ug/l	
62-53-3	Aniline	ND	100	93	ug/l	
120-12-7	Anthracene	ND	100	22	ug/l	
92-87-5	Benzidine	ND	510	120	ug/l	
56-55-3	Benzo(a)anthracene	ND	100	22	ug/l	
50-32-8	Benzo(a)pyrene	ND	100	22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	100	18	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	100	34	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	100	22	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	100	28	ug/l	
85-68-7	Butyl benzyl phthalate	ND	100	33	ug/l	
100-51-6	Benzyl Alcohol	ND	100	27	ug/l	
91-58-7	2-Chloronaphthalene	ND	100	28	ug/l	
106-47-8	4-Chloroaniline	ND	100	87	ug/l	
86-74-8	Carbazole	ND	100	30	ug/l	
218-01-9	Chrysene	ND	100	20	ug/l	

ND = Not detected MDL - Method Detection Limit
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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:	JUHAN 14-26H		
Lab Sample ID:	T74161-1	**Date Sampled:**	04/20/11
Matrix:	AQ - Ground Water	**Date Received:**	04/22/11
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Juhan 14-26H Pit		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	100	26	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	100	27	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	100	40	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	100	27	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	100	26	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	100	28	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	100	26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	100	26	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	100	29	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	100	27	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	200	65	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	100	32	ug/l	
132-64-9	Dibenzofuran	ND	100	27	ug/l	
84-74-2	Di-n-butyl phthalate	ND	100	21	ug/l	
117-84-0	Di-n-octyl phthalate	ND	100	27	ug/l	
84-66-2	Diethyl phthalate	ND	100	22	ug/l	
131-11-3	Dimethyl phthalate	ND	100	21	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	100	36	ug/l	
206-44-0	Fluoranthene	ND	100	20	ug/l	
86-73-7	Fluorene	ND	100	27	ug/l	
118-74-1	Hexachlorobenzene	ND	100	27	ug/l	
87-68-3	Hexachlorobutadiene	ND	100	22	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	200	110	ug/l	
67-72-1	Hexachloroethane	ND	100	20	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	100	37	ug/l	
78-59-1	Isophorone	ND	100	24	ug/l	
90-12-0	1-Methylnaphthalene	ND	100	22	ug/l	
91-57-6	2-Methylnaphthalene	ND	100	26	ug/l	
88-74-4	2-Nitroaniline	ND	100	29	ug/l	
99-09-2	3-Nitroaniline	ND	100	68	ug/l	
100-01-6	4-Nitroaniline	ND	100	48	ug/l	
91-20-3	Naphthalene	ND	100	23	ug/l	
98-95-3	Nitrobenzene	ND	100	35	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	100	20	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	100	29	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	100	34	ug/l	
85-01-8	Phenanthrene	ND	100	20	ug/l	
129-00-0	Pyrene	ND	100	34	ug/l	
110-86-1	Pyridine	ND	100	20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	100	26	ug/l	

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:	JUHAN 14-26H		
Lab Sample ID:	T74161-1	**Date Sampled:**	04/20/11
Matrix:	AQ - Ground Water	**Date Received:**	04/22/11
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Juhan 14-26H Pit		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	0% [b]		10-66%
4165-62-2	Phenol-d5	0% [b]		10-53%
118-79-6	2,4,6-Tribromophenol	0% [b]		32-128%
4165-60-0	Nitrobenzene-d5	20% [b]		29-115%
321-60-8	2-Fluorobiphenyl	28% [b]		34-113%
1718-51-0	Terphenyl-d14	32%		12-145%

(a) Elevated reporting limits due to matrix interference; extract was viscous and solidified at room temperature.
(b) Outside control limits due to dilution.

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: JUHAN 14-26H
Lab Sample ID: T74161-1
Matrix: AQ - Ground Water
Project: Juhan 14-26H Pit

Date Sampled: 04/20/11
Date Received: 04/22/11
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	584	5.0	0.66	mg/l	1	05/03/11	MC	SM 4500 CO2 D
Alkalinity, Carbonate	4.4 J	5.0	0.66	mg/l	1	05/03/11	MC	SM18 2320B
Alkalinity, Total as CaCO3	588	20	6.7	mg/l	1	05/02/11 13:00	MC	SM 2320B
Bromide	60.1	2.5	0.50	mg/l	5	05/03/11 18:49	BF	EPA 300/SW846 9056
Chloride	9840	500	190	mg/l	1000	05/01/11 13:44	BF	EPA 300/SW846 9056
Hydroxide Alkalinity	0.66 U	5.0	0.66	mg/l	1	05/03/11	MC	SM18 4500CO2D
Solids, Total Dissolved	20700	200	52	mg/l	1	04/26/11	BG	SM 2540C
Specific Conductivity	32600	1.0		umhos/cm	1	04/23/11 13:00	KD	EPA 120.1
Sulfate	1.3	0.50	0.15	mg/l	1	05/02/11 15:42	BF	EPA 300/SW846 9056
pH	6.65			su	1	04/22/11 14:00	KD	SM 4500H+ B/9040

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID: JUHAN 14-26H (DISSOLVED)
Lab Sample ID: T74161-1F
Matrix: AQ - Groundwater Filtered
Project: Juhan 14-26H Pit

Date Sampled: 04/20/11
Date Received: 04/22/11
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	300000	5000	25	ug/l	1	04/23/11	04/25/11	TW	SW846 6010B [1]	SW846 3010A [3]
Iron	1010	100	23	ug/l	1	04/23/11	04/25/11	TW	SW846 6010B [1]	SW846 3010A [3]
Magnesium	39900	5000	7.9	ug/l	1	04/23/11	04/25/11	TW	SW846 6010B [1]	SW846 3010A [3]
Manganese	287	15	1.9	ug/l	1	04/23/11	04/25/11	TW	SW846 6010B [1]	SW846 3010A [3]
Potassium	89400	5000	45	ug/l	1	04/23/11	04/25/11	TW	SW846 6010B [1]	SW846 3010A [3]
Sodium	6940000	130000	2600	ug/l	25	04/23/11	04/26/11	TW	SW846 6010B [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA5667
(2) Instrument QC Batch: MA5670
(3) Prep QC Batch: MP14527

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

PAGE ___ OF ___

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 # T74161

Client / Reporting Information

Company Name: Williams Production
Street Address: 1058 Cty Rd 215
City: Parachute State: CO Zip: 81635
Project Contact: Karolina.Blaney@Williams.com E-mail
Phone #: 970 683 2295 / 970 285 9573 Fax #
Sampler(s) Name(s): JB Phone #

Project Information

Project Name: Juhan 14-26H mud 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

X see attached

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

Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH	Zn/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	LAB USE ONLY
	Juhan 14-26H	4/20/11	2:00p	JB	Liq	9	3												

Turnaround Time (Business days)

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

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] 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:
1	Blaney	4/21/11	1	2	4/22/11 9:40	2
3		Date Time:	3	4	Date Time:	4
5	Relinquished by:	Date Time:	5	Custody Seal #	Intact / Not Intact	Preserved where applicable / On Ice / Cooler Temp: 5.0

T74161: Chain of Custody
Page 1 of 4

Samples will be analyzed for the following constituents:

- Anions (Cl, BR, SO4) by Method 300.0 IC / 1 liter plastic Non-preserved
- Dissolved Metals (Ca, Fe, Mg, Mn, K, Na) by Method 6010B / 500ml HNO3 plastic
- Alkalinity Series (Carbonate, Bicarbonate, Hydroxide, and Total Alkalinity) by method 2320B / 1 liter plastic Non-preserved
- Total Dissolved Solids by Method 2540C / 1 liter plastic Non-preserved
- Specific Conductance by Method 2510C / will use from above container
- pH by Method E150.1 / will use from above container
- Volatile Organics, full list by GC/MS / 3 - 40ml HCL vials
- Semi-Volatile Organics, full list by GC/MS / 2 1 liter Ambers Non preserved

* ***Sample results will be presented in paper and electronic format:***
  1. Summary data table in Excel spreadsheet format, including the location, sample date, laboratory sample id, and constituent results
  2. Electronic Data Deliverable containing all sample results in one file. File format is subject to change upon completion of COGCC database migration to our SQL MRDB.

T74161: Chain of Custody
Page 2 of 4

SAMPLE INSPECTION FORM

Accutest Job Number: T74161 Client: Williams Production Date/Time Received: 4/22/11 940

# of Coolers Received: 1 Thermometer #: IR Gun 14 Temperature Adjustment Factor: -0.1

Cooler Temperatures (initial/adjusted): #1: 5.1/5.0 #2: _____ #3: _____ #4: _____ #5: _____

#6: _____ #7: _____ #8: _____ #9: _____ #10 _____ #11 _____ #12 _____

Method of Delivery: (FEDEX) UPS Accutest Courier Greyhound Delivery Other

COOLER INFORMATION

- [ ] Custody seal missing or not intact
- [ ] Temperature criteria not met
- [ ] Wet ice received in cooler

CHAIN OF CUSTODY

- [ ] Chain of Custody not received
- [ ] Sample D/T unclear or missing
- [ ] Analyses unclear or missing
- [ ] COC not properly executed

SAMPLE INFORMATION

- [ ] Sample containers received broken
- [ ] VOC vials have headspace
- [ ] Sample labels missing or illegible
- [ ] ID on COC does not match label(s)
- [ ] D/T on COC does not match label(s)
- [ ] Sample/Bottles rcvd but no analysis on COC
- [ ] Sample listed on COC, but not received
- [ ] Bottles missing for requested analysis
- [ ] Insufficient volume for analysis
- [ ] Sample received improperly preserved

TRIP BLANK INFORMATION

- [ ] Trip Blank on COC but not received
- [ ] Trip Blank received but not on COC
- [ ] Trip Blank not intact
- [x] Received Water Trip Blank
- [ ] Received Soil TB

Number of Encores? _____
Number of 5035 kits? _____
Number of lab-filtered metals? _____

Summary of Discrepancies: tops for one of the vials for Juhan 14-26H was received broken, replaced vial. 1 of 3 vials for Juhan 14-26H was received broken. Received only 1 set of TB. Split for each WO.

TECHNICIAN SIGNATURE/DATE: [signature] 4/22/11

INFORMATION AND SAMPLE LABELING VERIFIED BY: [signature] 4/22/11

CORRECTIVE ACTIONS

Client Representative Notified: _____ **Date:** 4-22-11

By Accutest Representative: Sylvia Garza **Via:** Phone Email

Client Instructions: We received enough volume for analysis. Will note limited volume.

i:\mwalker\form\samplemanagement SM023 Revised 8/11/10

T74161: Chain of Custody
Page 3 of 4

SAMPLE RECEIPT LOG

JOB #: T74161

DATE/TIME RECEIVED: 4/22/11 940

CLIENT: Williams Production

INITIALS: Vn

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH
1	1	Juhan 14-26H	4/20/11 200	W	1Ltr	1-2	10	(1) 2 3 4 5 6 7 8	<2 >12
↓	↓	↓	↓	↓	1000	3-5	31	(1) 2 3 4 5 6 7 8	<2 >12
↓	↓	↓	↓	↓	500	6	10	(1) 2 3 4 5 6 7 8	<2 >12
↓	↓	↓	↓	↓	40	7-8	VR	1 (2) 3 4 5 6 7 8	<2 >12
↓	2	TRIP Blank	3/29/11 1337	↓	40	@91	VR	1 (2) 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12

Vn 4/22/11

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

Rev 8/13/01 ewp

T74161: Chain of Custody
Page 4 of 4

Gulf Coast ACCUTEST LABORATORIES

GC/MS 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: T74161
Account: WPRMTCOP Williams Production RMT Company
Project: Juhan 14-26H Pit

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE334-MB	E0006290.D	1	04/29/11	JL	n/a	n/a	VE334

The QC reported here applies to the following samples: **Method:** SW846 8260B

T74161-1

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	4.7	ug/l	
71-43-2	Benzene	ND	2.0	0.50	ug/l	
108-86-1	Bromobenzene	ND	2.0	0.82	ug/l	
74-97-5	Bromochloromethane	ND	2.0	1.6	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	0.49	ug/l	
75-25-2	Bromoform	ND	2.0	1.4	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.63	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.52	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	1.3	ug/l	
108-90-7	Chlorobenzene	ND	2.0	0.56	ug/l	
75-00-3	Chloroethane	ND	2.0	0.92	ug/l	
67-66-3	Chloroform	ND	2.0	0.64	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.70	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.56	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	0.66	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	0.52	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.9	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.55	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	0.62	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.62	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	0.54	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	0.62	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	0.61	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.1	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	0.56	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.48	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	0.69	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.68	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.55	ug/l	
591-78-6	2-Hexanone	ND	10	3.2	ug/l	

Method Blank Summary

Job Number: T74161
Account: WPRMTCOP Williams Production RMT Company
Project: Juhan 14-26H Pit

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE334-MB	E0006290.D	1	04/29/11	JL	n/a	n/a	VE334

The QC reported here applies to the following samples: **Method:** SW846 8260B

T74161-1

CAS No.	Compound	Result	RL	MDL	Units	Q
87-68-3	Hexachlorobutadiene	ND	2.0	1.3	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.51	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.65	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	9.9	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.94	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.84	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.65	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.41	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	3.9	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.65	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.57	ug/l	
100-42-5	Styrene	ND	2.0	0.56	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	0.80	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	1.2	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.98	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	1.1	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.82	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.65	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.70	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	0.91	ug/l	
108-88-3	Toluene	ND	2.0	0.43	ug/l	
79-01-6	Trichloroethylene	ND	2.0	0.52	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	1.2	ug/l	
75-01-4	Vinyl chloride	ND	2.0	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.7	ug/l	
	m,p-Xylene	ND	4.0	1.1	ug/l	
95-47-6	o-Xylene	ND	2.0	0.53	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	79-122%
17060-07-0	1,2-Dichloroethane-D4	87%	75-121%

Method Blank Summary

Job Number: T74161
Account: WPRMTCOP Williams Production RMT Company
Project: Juhan 14-26H Pit

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE334-MB	E0006290.D	1	04/29/11	JL	n/a	n/a	VE334

The QC reported here applies to the following samples: **Method:** SW846 8260B

T74161-1

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	102%	87-119%
460-00-4	4-Bromofluorobenzene	96%	80-133%

Blank Spike Summary

Job Number: T74161
Account: WPRMTCOP Williams Production RMT Company
Project: Juhan 14-26H Pit

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE334-BS	E0006288.D	1	04/29/11	JL	n/a	n/a	VE334

The QC reported here applies to the following samples: **Method:** SW846 8260B

T74161-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	97.7	78	62-124
71-43-2	Benzene	25	22.2	89	76-118
108-86-1	Bromobenzene	25	22.8	91	72-110
74-97-5	Bromochloromethane	25	22.7	91	69-110
75-27-4	Bromodichloromethane	25	20.7	83	68-107
75-25-2	Bromoform	25	21.2	85	64-103
104-51-8	n-Butylbenzene	25	21.6	86	74-114
135-98-8	sec-Butylbenzene	25	23.1	92	76-118
98-06-6	tert-Butylbenzene	25	21.1	84	72-116
108-90-7	Chlorobenzene	25	22.3	89	74-111
75-00-3	Chloroethane	25	25.4	102	75-135
67-66-3	Chloroform	25	21.4	86	75-117
95-49-8	o-Chlorotoluene	25	21.2	85	74-113
106-43-4	p-Chlorotoluene	25	21.3	85	72-114
75-15-0	Carbon disulfide	25	22.6	90	57-126
56-23-5	Carbon tetrachloride	25	19.2	77	75-125
75-34-3	1,1-Dichloroethane	25	21.8	87	76-121
75-35-4	1,1-Dichloroethylene	25	21.5	86	71-128
563-58-6	1,1-Dichloropropene	25	22.4	90	76-122
96-12-8	1,2-Dibromo-3-chloropropane	25	18.7	75	55-121
106-93-4	1,2-Dibromoethane	25	21.7	87	69-106
107-06-2	1,2-Dichloroethane	25	19.1	76	70-111
78-87-5	1,2-Dichloropropane	25	21.9	88	71-113
142-28-9	1,3-Dichloropropane	25	21.4	86	69-106
594-20-7	2,2-Dichloropropane	25	20.7	83	68-130
124-48-1	Dibromochloromethane	25	21.6	86	69-104
75-71-8	Dichlorodifluoromethane	25	20.2	81	28-120
156-59-2	cis-1,2-Dichloroethylene	25	24.0	96	68-113
10061-01-5	cis-1,3-Dichloropropene	25	22.2	89	71-111
541-73-1	m-Dichlorobenzene	25	23.9	96	74-110
95-50-1	o-Dichlorobenzene	25	22.7	91	72-108
106-46-7	p-Dichlorobenzene	25	23.0	92	74-110
156-60-5	trans-1,2-Dichloroethylene	25	21.1	84	70-125
10061-02-6	trans-1,3-Dichloropropene	25	22.1	88	75-111
100-41-4	Ethylbenzene	25	21.8	87	75-112
591-78-6	2-Hexanone	125	94.5	76	60-113

Blank Spike Summary

Job Number: T74161
Account: WPRMTCOP Williams Production RMT Company
Project: Juhan 14-26H Pit

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE334-BS	E0006288.D	1	04/29/11	JL	n/a	n/a	VE334

The QC reported here applies to the following samples: **Method:** SW846 8260B

T74161-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
87-68-3	Hexachlorobutadiene	25	23.4	94	72-123
98-82-8	Isopropylbenzene	25	25.8	103	75-123
99-87-6	p-Isopropyltoluene	25	22.9	92	76-116
108-10-1	4-Methyl-2-pentanone	125	101	81	63-115
74-83-9	Methyl bromide	25	23.0	92	59-132
74-87-3	Methyl chloride	25	23.5	94	56-150
74-95-3	Methylene bromide	25	21.7	87	68-114
75-09-2	Methylene chloride	25	21.8	87	70-113
78-93-3	Methyl ethyl ketone	125	104	83	62-117
1634-04-4	Methyl Tert Butyl Ether	25	19.8	79	65-113
91-20-3	Naphthalene	25	23.4	94	53-127
103-65-1	n-Propylbenzene	25	21.8	87	74-115
100-42-5	Styrene	25	22.8	91	66-100
630-20-6	1,1,1,2-Tetrachloroethane	25	21.4	86	72-108
71-55-6	1,1,1-Trichloroethane	25	21.2	85	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	20.8	83	67-110
79-00-5	1,1,2-Trichloroethane	25	21.9	88	69-107
87-61-6	1,2,3-Trichlorobenzene	25	24.5	98	51-128
96-18-4	1,2,3-Trichloropropane	25	20.6	82	55-116
120-82-1	1,2,4-Trichlorobenzene	25	24.0	96	63-114
95-63-6	1,2,4-Trimethylbenzene	25	22.1	88	73-111
108-67-8	1,3,5-Trimethylbenzene	25	21.6	86	74-115
127-18-4	Tetrachloroethylene	25	25.0	100	77-120
108-88-3	Toluene	25	22.6	90	77-114
79-01-6	Trichloroethylene	25	23.0	92	74-117
75-69-4	Trichlorofluoromethane	25	19.7	79	64-132
75-01-4	Vinyl chloride	25	23.0	92	64-121
1330-20-7	Xylene (total)	75	66.2	88	75-111
	m,p-Xylene	50	44.6	89	75-112
95-47-6	o-Xylene	25	21.6	86	74-110

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	107%	79-122%
17060-07-0	1,2-Dichloroethane-D4	93%	75-121%

Blank Spike Summary

Job Number: T74161
Account: WPRMTCOP Williams Production RMT Company
Project: Juhan 14-26H Pit

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE334-BS	E0006288.D	1	04/29/11	JL	n/a	n/a	VE334

The QC reported here applies to the following samples: **Method:** SW846 8260B

T74161-1

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	110%	87-119%
460-00-4	4-Bromofluorobenzene	103%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T74161
Account: WPRMTCOP Williams Production RMT Company
Project: Juhan 14-26H Pit

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T73854-1MS	E0006292.D	50	04/29/11	JL	n/a	n/a	VE334
T73854-1MSD	E0006293.D	50	04/29/11	JL	n/a	n/a	VE334
T73854-1	E0006291.D	50	04/29/11	JL	n/a	n/a	VE334

The QC reported here applies to the following samples: **Method:** SW846 8260B

T74161-1

CAS No.	Compound	T73854-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	2010	J	6250	6430	71	6890	78	7	62-124/21
71-43-2	Benzene	409		1250	1490	86	1430	82	4	76-118/16
108-86-1	Bromobenzene	ND		1250	1090	87	1090	87	0	72-110/12
74-97-5	Bromochloromethane	ND		1250	1070	86	1080	86	1	69-110/12
75-27-4	Bromodichloromethane	ND		1250	935	75	901	72	4	68-107/12
75-25-2	Bromoform	ND		1250	752	60*	745	60*	1	64-103/14
104-51-8	n-Butylbenzene	ND		1250	1090	87	1100	88	1	74-114/12
135-98-8	sec-Butylbenzene	ND		1250	1100	88	1100	88	0	76-118/12
98-06-6	tert-Butylbenzene	ND		1250	1000	80	982	79	2	72-116/14
108-90-7	Chlorobenzene	ND		1250	1080	86	1040	83	4	74-111/11
75-00-3	Chloroethane	ND		1250	1040	83	998	80	4	75-135/15
67-66-3	Chloroform	ND		1250	1040	83	1000	80	4	75-117/12
95-49-8	o-Chlorotoluene	ND		1250	1110	89	1090	87	2	74-113/12
106-43-4	p-Chlorotoluene	ND		1250	1100	88	1100	88	0	72-114/12
75-15-0	Carbon disulfide	ND		1250	1120	90	980	78	13	57-126/13
56-23-5	Carbon tetrachloride	ND		1250	829	66*	777	62*	6	75-125/12
75-34-3	1,1-Dichloroethane	ND		1250	1050	84	1030	82	2	76-121/13
75-35-4	1,1-Dichloroethylene	ND		1250	1030	82	963	77	7	71-128/19
563-58-6	1,1-Dichloropropene	ND		1250	1080	86	1030	82	5	76-122/12
96-12-8	1,2-Dibromo-3-chloropropane	ND		1250	821	66	960	77	16	55-121/33
106-93-4	1,2-Dibromoethane	ND		1250	1040	83	1050	84	1	69-106/13
107-06-2	1,2-Dichloroethane	ND		1250	919	74	919	74	0	70-111/14
78-87-5	1,2-Dichloropropane	ND		1250	1060	85	1060	85	0	71-113/12
142-28-9	1,3-Dichloropropane	ND		1250	1030	82	1010	81	2	69-106/12
594-20-7	2,2-Dichloropropane	ND		1250	1000	80	971	78	3	68-130/14
124-48-1	Dibromochloromethane	ND		1250	881	70	862	69	2	69-104/12
75-71-8	Dichlorodifluoromethane	ND		1250	762	61	718	57	6	28-120/21
156-59-2	cis-1,2-Dichloroethylene	ND		1250	1130	90	1110	89	2	68-113/13
10061-01-5	cis-1,3-Dichloropropene	ND		1250	1030	82	920	74	11	71-111/12
541-73-1	m-Dichlorobenzene	ND		1250	1130	90	1090	87	4	74-110/12
95-50-1	o-Dichlorobenzene	ND		1250	1070	86	1060	85	1	72-108/12
106-46-7	p-Dichlorobenzene	ND		1250	1080	86	1080	86	0	74-110/12
156-60-5	trans-1,2-Dichloroethylene	ND		1250	1000	80	954	76	5	70-125/14
10061-02-6	trans-1,3-Dichloropropene	ND		1250	1010	81	921	74*	9	75-111/12
100-41-4	Ethylbenzene	144		1250	1200	84	1160	81	3	75-112/12
591-78-6	2-Hexanone	ND		6250	4490	72	4840	77	8	60-113/18

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T74161
Account: WPRMTCOP Williams Production RMT Company
Project: Juhan 14-26H Pit

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T73854-1MS	E0006292.D	50	04/29/11	JL	n/a	n/a	VE334
T73854-1MSD	E0006293.D	50	04/29/11	JL	n/a	n/a	VE334
T73854-1	E0006291.D	50	04/29/11	JL	n/a	n/a	VE334

The QC reported here applies to the following samples: **Method:** SW846 8260B

T74161-1

CAS No.	Compound	T73854-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	ND		1250	1090	87	1130	90	4	72-123/17
98-82-8	Isopropylbenzene	36.9	J	1250	1270	99	1230	95	3	75-123/12
99-87-6	p-Isopropyltoluene	44.1	J	1250	1110	85	1120	86	1	76-116/12
108-10-1	4-Methyl-2-pentanone	ND		6250	4860	78	5300	85	9	63-115/21
74-83-9	Methyl bromide	ND		1250	790	63	799	64	1	59-132/15
74-87-3	Methyl chloride	ND		1250	879	70	850	68	3	56-150/17
74-95-3	Methylene bromide	ND		1250	1030	82	1060	85	3	68-114/13
75-09-2	Methylene chloride	62.3	J	1250	1080	81	1050	79	3	70-113/13
78-93-3	Methyl ethyl ketone	ND		6250	5020	80	5640	90	12	62-117/21
1634-04-4	Methyl Tert Butyl Ether	ND		1250	951	76	952	76	0	65-113/13
91-20-3	Naphthalene	398		1250	1500	88	1660	101	10	53-127/34
103-65-1	n-Propylbenzene	56.3	J	1250	1090	83	1070	81	2	74-115/12
100-42-5	Styrene	ND		1250	902	72	917	73	2	66-100/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		1250	1020	82	981	78	4	72-108/11
71-55-6	1,1,1-Trichloroethane	ND		1250	1010	81	965	77	5	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		1250	1020	82	1080	86	6	67-110/20
79-00-5	1,1,2-Trichloroethane	ND		1250	1050	84	1080	86	3	69-107/14
87-61-6	1,2,3-Trichlorobenzene	ND		1250	1120	90	1230	98	9	51-128/31
96-18-4	1,2,3-Trichloropropane	ND		1250	1030	82	1060	85	3	55-116/27
120-82-1	1,2,4-Trichlorobenzene	ND		1250	1090	87	1160	93	6	63-114/21
95-63-6	1,2,4-Trimethylbenzene	1110		1250	2170	85	2190	86	1	73-111/13
108-67-8	1,3,5-Trimethylbenzene	842		1250	1880	83	1910	85	2	74-115/12
127-18-4	Tetrachloroethylene	ND		1250	1210	97	1230	98	2	77-120/13
108-88-3	Toluene	1510		1250	2640	90	2520	81	5	77-114/12
79-01-6	Trichloroethylene	ND		1250	1110	89	1080	86	3	74-117/12
75-69-4	Trichlorofluoromethane	ND		1250	582	47*	590	47*	1	64-132/18
75-01-4	Vinyl chloride	ND		1250	951	76	898	72	6	64-121/19
1330-20-7	Xylene (total)	2940		3750	6210	87	6040	83	3	75-111/12
	m,p-Xylene	2500		2500	4730	89	4600	84	3	75-112/12
95-47-6	o-Xylene	435		1250	1480	84	1440	80	3	74-110/11

CAS No.	Surrogate Recoveries	MS	MSD	T73854-1	Limits
1868-53-7	Dibromofluoromethane	103%	103%	99%	79-122%
17060-07-0	1,2-Dichloroethane-D4	89%	90%	88%	75-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T74161
Account: WPRMTCOP Williams Production RMT Company
Project: Juhan 14-26H Pit

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T73854-1MS	E0006292.D	50	04/29/11	JL	n/a	n/a	VE334
T73854-1MSD	E0006293.D	50	04/29/11	JL	n/a	n/a	VE334
T73854-1	E0006291.D	50	04/29/11	JL	n/a	n/a	VE334

The QC reported here applies to the following samples: **Method:** SW846 8260B

T74161-1

CAS No.	Surrogate Recoveries	MS	MSD	T73854-1	Limits
2037-26-5	Toluene-D8	105%	105%	104%	87-119%
460-00-4	4-Bromofluorobenzene	99%	100%	98%	80-133%

Gulf Coast ACCUTEST LABORATORIES

GC/MS 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: T74161
Account: WPRMTCOP Williams Production RMT Company
Project: Juhan 14-26H Pit

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18277-MB	W5151.D	1	04/28/11	AM	04/27/11	OP18277	EW267

The QC reported here applies to the following samples: **Method:** SW846 8270C

T74161-1

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	5.0	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	1.2	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	1.2	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	2.2	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.3	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	15	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.4	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.83	ug/l	
	3&4-Methylphenol	ND	5.0	1.6	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	2.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	6.7	ug/l	
87-86-5	Pentachlorophenol	ND	25	13	ug/l	
108-95-2	Phenol	ND	5.0	0.75	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.2	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.1	ug/l	
83-32-9	Acenaphthene	ND	5.0	1.6	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.2	ug/l	
62-53-3	Aniline	ND	5.0	4.6	ug/l	
120-12-7	Anthracene	ND	5.0	1.1	ug/l	
92-87-5	Benzidine	ND	25	6.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	1.1	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	1.1	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.87	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	1.7	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	1.1	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	1.4	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	1.6	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	1.3	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	1.4	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	4.3	ug/l	
86-74-8	Carbazole	ND	5.0	1.5	ug/l	
218-01-9	Chrysene	ND	5.0	0.98	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	1.3	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	1.3	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	2.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	1.3	ug/l	

Method Blank Summary

Job Number: T74161
Account: WPRMTCOP Williams Production RMT Company
Project: Juhan 14-26H Pit

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18277-MB	W5151.D	1	04/28/11	AM	04/27/11	OP18277	EW267

The QC reported here applies to the following samples: **Method:** SW846 8270C

T74161-1

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.3	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	1.4	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.3	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.3	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.4	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	1.3	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	3.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	1.6	ug/l	
132-64-9	Dibenzofuran	ND	5.0	1.3	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	1.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	1.3	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	1.1	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	1.1	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	1.8	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.97	ug/l	
86-73-7	Fluorene	ND	5.0	1.3	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	1.3	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.1	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	5.2	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.97	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	1.8	ug/l	
78-59-1	Isophorone	ND	5.0	1.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	1.1	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	1.3	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	1.4	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	3.3	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	2.3	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
98-95-3	Nitrobenzene	ND	5.0	1.7	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	0.97	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	1.4	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	1.7	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.97	ug/l	
129-00-0	Pyrene	ND	5.0	1.7	ug/l	
110-86-1	Pyridine	ND	5.0	0.99	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	

Method Blank Summary

Job Number: T74161
Account: WPRMTCOP Williams Production RMT Company
Project: Juhan 14-26H Pit

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18277-MB	W5151.D	1	04/28/11	AM	04/27/11	OP18277	EW267

The QC reported here applies to the following samples: **Method:** SW846 8270C

T74161-1

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	36%	10-66%
4165-62-2	Phenol-d5	19%	10-53%
118-79-6	2,4,6-Tribromophenol	46%	32-128%
4165-60-0	Nitrobenzene-d5	59%	29-115%
321-60-8	2-Fluorobiphenyl	54%	34-113%
1718-51-0	Terphenyl-d14	67%	12-145%

Blank Spike Summary

Job Number: T74161
Account: WPRMTCOP Williams Production RMT Company
Project: Juhan 14-26H Pit

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18277-BS	W5146.D	1	04/28/11	AM	04/27/11	OP18277	EW267

The QC reported here applies to the following samples: **Method:** SW846 8270C

T74161-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	50	24.3	49	10-68
95-57-8	2-Chlorophenol	50	28.4	57	39-93
59-50-7	4-Chloro-3-methyl phenol	50	33.6	67	43-109
120-83-2	2,4-Dichlorophenol	50	32.3	65	42-106
105-67-9	2,4-Dimethylphenol	50	32.9	66	27-87
51-28-5	2,4-Dinitrophenol	50	26.7	53	43-107
534-52-1	4,6-Dinitro-o-cresol	50	33.5	67	47-112
95-48-7	2-Methylphenol	50	26.4	53	25-84
	3&4-Methylphenol	100	48.5	49	25-77
88-75-5	2-Nitrophenol	50	31.1	62	38-96
100-02-7	4-Nitrophenol	50	16.7	33	13-70
87-86-5	Pentachlorophenol	50	34.0	68	46-153
108-95-2	Phenol	50	13.8	28	10-53
95-95-4	2,4,5-Trichlorophenol	50	37.2	74	40-101
88-06-2	2,4,6-Trichlorophenol	50	34.9	70	41-102
83-32-9	Acenaphthene	50	35.5	71	41-110
208-96-8	Acenaphthylene	50	36.0	72	49-113
62-53-3	Aniline	50	21.6	43	24-132
120-12-7	Anthracene	50	39.2	78	59-105
56-55-3	Benzo(a)anthracene	50	38.9	78	64-112
50-32-8	Benzo(a)pyrene	50	34.7	69	62-116
205-99-2	Benzo(b)fluoranthene	50	32.3	65	62-114
191-24-2	Benzo(g,h,i)perylene	50	36.7	73	55-124
207-08-9	Benzo(k)fluoranthene	50	44.5	89	62-119
101-55-3	4-Bromophenyl phenyl ether	50	37.5	75	56-99
85-68-7	Butyl benzyl phthalate	50	39.3	79	52-125
100-51-6	Benzyl Alcohol	50	28.5	57	28-83
91-58-7	2-Chloronaphthalene	50	27.8	56	42-97
106-47-8	4-Chloroaniline	50	28.5	57	37-128
86-74-8	Carbazole	50	38.3	77	59-142
218-01-9	Chrysene	50	39.7	79	67-112
111-91-1	bis(2-Chloroethoxy)methane	50	34.8	70	38-96
111-44-4	bis(2-Chloroethyl)ether	50	32.3	65	37-91
108-60-1	bis(2-Chloroisopropyl)ether	50	32.0	64	36-102
7005-72-3	4-Chlorophenyl phenyl ether	50	37.9	76	48-101
95-50-1	1,2-Dichlorobenzene	50	28.3	57	33-86

Blank Spike Summary

Job Number: T74161
Account: WPRMTCOP Williams Production RMT Company
Project: Juhan 14-26H Pit

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18277-BS	W5146.D	1	04/28/11	AM	04/27/11	OP18277	EW267

The QC reported here applies to the following samples: **Method:** SW846 8270C

T74161-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
122-66-7	1,2-Diphenylhydrazine	50	38.8	78	39-118
541-73-1	1,3-Dichlorobenzene	50	26.1	52	21-88
106-46-7	1,4-Dichlorobenzene	50	27.2	54	31-86
121-14-2	2,4-Dinitrotoluene	50	39.8	80	55-112
606-20-2	2,6-Dinitrotoluene	50	37.8	76	57-105
91-94-1	3,3'-Dichlorobenzidine	50	32.9	66	50-142
53-70-3	Dibenzo(a,h)anthracene	50	36.2	72	55-123
132-64-9	Dibenzofuran	50	36.6	73	45-99
84-74-2	Di-n-butyl phthalate	50	41.8	84	64-114
117-84-0	Di-n-octyl phthalate	50	39.3	79	55-118
84-66-2	Diethyl phthalate	50	40.1	80	52-113
131-11-3	Dimethyl phthalate	50	38.5	77	38-112
117-81-7	bis(2-Ethylhexyl)phthalate	50	42.5	85	56-131
206-44-0	Fluoranthene	50	40.3	81	62-116
86-73-7	Fluorene	50	38.4	77	47-99
118-74-1	Hexachlorobenzene	50	38.0	76	62-102
87-68-3	Hexachlorobutadiene	50	28.1	56	37-91
77-47-4	Hexachlorocyclopentadiene	50	25.4	51	23-102
67-72-1	Hexachloroethane	50	27.0	54	33-86
193-39-5	Indeno(1,2,3-cd)pyrene	50	36.6	73	52-126
78-59-1	Isophorone	50	35.6	71	42-105
90-12-0	1-Methylnaphthalene	50	31.8	64	35-89
91-57-6	2-Methylnaphthalene	50	30.6	61	36-91
88-74-4	2-Nitroaniline	50	36.3	73	49-109
99-09-2	3-Nitroaniline	50	32.8	66	46-139
100-01-6	4-Nitroaniline	50	37.7	75	73-174
91-20-3	Naphthalene	50	31.3	63	37-89
98-95-3	Nitrobenzene	50	33.9	68	42-97
62-75-9	n-Nitrosodimethylamine	50	21.9	44	16-63
621-64-7	N-Nitroso-di-n-propylamine	50	35.8	72	42-102
86-30-6	N-Nitrosodiphenylamine	50	32.3	65	64-119
85-01-8	Phenanthrene	50	40.1	80	59-103
129-00-0	Pyrene	50	39.7	79	58-110
110-86-1	Pyridine	50	9.6	19	10-63
120-82-1	1,2,4-Trichlorobenzene	50	27.2	54	37-88

Blank Spike Summary

Job Number: T74161
Account: WPRMTCOP Williams Production RMT Company
Project: Juhan 14-26H Pit

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18277-BS	W5146.D	1	04/28/11	AM	04/27/11	OP18277	EW267

The QC reported here applies to the following samples: **Method:** SW846 8270C

T74161-1

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	36%	10-66%
4165-62-2	Phenol-d5	22%	10-53%
118-79-6	2,4,6-Tribromophenol	66%	32-128%
4165-60-0	Nitrobenzene-d5	66%	29-115%
321-60-8	2-Fluorobiphenyl	66%	34-113%
1718-51-0	Terphenyl-d14	74%	12-145%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T74161
Account: WPRMTCOP Williams Production RMT Company
Project: Juhan 14-26H Pit

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18277-MS	W5164.D	20	04/28/11	AM	04/27/11	OP18277	EW267
OP18277-MSD	W5165.D	20	04/28/11	AM	04/27/11	OP18277	EW267
T74197-1	W5155.D	20	04/28/11	AM	04/27/11	OP18277	EW267
T74197-1	W5166.D	200	04/28/11	AM	04/27/11	OP18277	EW267

The QC reported here applies to the following samples: **Method:** SW846 8270C

T74161-1

CAS No.	Compound	T74197-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	200 U		100	ND	0*	ND	0*	nc	10-68/27
95-57-8	2-Chlorophenol	100 U		100	75.4	75	65.2	65	15	39-93/28
59-50-7	4-Chloro-3-methyl phenol	100 U		100	108	108	92.1	92	16	43-109/28
120-83-2	2,4-Dichlorophenol	100 U		100	7700	7706*	65	65	197*	42-106/25
105-67-9	2,4-Dimethylphenol	12700 [b]		100	10700	-2000* [a]	9700	-3000* [a]	10	27-87/26
51-28-5	2,4-Dinitrophenol	500 U		100	ND	0*	ND	0*	nc	43-107/44
534-52-1	4,6-Dinitro-o-cresol	200 U		100	205	205*	ND	0*	200*	47-112/24
95-48-7	2-Methylphenol	9510 [b]		100	9140	-370* [a]	8560	-950* [a]	7	25-84/31
	3&4-Methylphenol	24500 [b]		200	18300	-3100* [a]	17500	-3500* [a]	4	25-77/25
88-75-5	2-Nitrophenol	100 U		100	66	66	56	56	16	38-96/26
100-02-7	4-Nitrophenol	500 U		100	76	76*	41	41	60*	13-70/25
87-86-5	Pentachlorophenol	934		100	1140	206* [a]	926	-8* [a]	21*	46-153/18
108-95-2	Phenol	7670 [b]		100	12100	4430* [a]	11200	3530* [a]	8	10-53/35
95-95-4	2,4,5-Trichlorophenol	100 U		100	76.5	77	60.5	61	23*	40-101/22
88-06-2	2,4,6-Trichlorophenol	100 U		100	73.1	73	61.6	62	17	41-102/22
83-32-9	Acenaphthene	1110		100	1470	360* [a]	1060	-50* [a]	32*	41-110/21
208-96-8	Acenaphthylene	55.6	J	100	142	86	109	53	26*	49-113/23
62-53-3	Aniline	100 U		100	ND	0*	ND	0*	nc	24-132/44
120-12-7	Anthracene	250		100	375	125* [a]	251	1* [a]	40*	59-105/18
56-55-3	Benzo(a)anthracene	159		100	256	97	181	22*	34*	64-112/20
50-32-8	Benzo(a)pyrene	49.4	J	100	113	64	86.6	37*	26*	62-116/23
205-99-2	Benzo(b)fluoranthene	74.4	J	100	143	69	95.6	21*	40*	62-114/22
191-24-2	Benzo(g,h,i)perylene	100 U		100	66.6	67	52	52*	25	55-124/36
207-08-9	Benzo(k)fluoranthene	30.4	J	100	117	87	95.9	66	20	62-119/30
101-55-3	4-Bromophenyl phenyl ether	100 U		100	66.4	66	54	54*	21*	56-99/20
85-68-7	Butyl benzyl phthalate	100 U		100	78.5	79	64	64	20	52-125/25
100-51-6	Benzyl Alcohol	100 U		100	103	103*	89.3	89*	14	28-83/32
91-58-7	2-Chloronaphthalene	100 U		100	64.8	65	53	53	20	42-97/27
106-47-8	4-Chloroaniline	100 U		100	29	29*	26	26*	13	37-128/29
86-74-8	Carbazole	722		100	693	-29* [a]	526	-196* [a]	27*	59-142/19
218-01-9	Chrysene	154		100	244	90	178	24*	31*	67-112/19
111-91-1	bis(2-Chloroethoxy)methane	100 U		100	ND	0*	ND	0*	nc	38-96/30
111-44-4	bis(2-Chloroethyl)ether	100 U		100	ND	0*	ND	0*	nc	37-91/33
108-60-1	bis(2-Chloroisopropyl)ether	100 U		100	ND	0*	ND	0*	nc	36-102/32
7005-72-3	4-Chlorophenyl phenyl ether	100 U		100	77.4	77	61.1	61	24*	48-101/21
95-50-1	1,2-Dichlorobenzene	100 U		100	54.8	55	52.1	52	5	33-86/29

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T74161
Account: WPRMTCOP Williams Production RMT Company
Project: Juhan 14-26H Pit

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18277-MS	W5164.D	20	04/28/11	AM	04/27/11	OP18277	EW267
OP18277-MSD	W5165.D	20	04/28/11	AM	04/27/11	OP18277	EW267
T74197-1	W5155.D	20	04/28/11	AM	04/27/11	OP18277	EW267
T74197-1	W5166.D	200	04/28/11	AM	04/27/11	OP18277	EW267

The QC reported here applies to the following samples: **Method:** SW846 8270C

T74161-1

CAS No.	Compound	T74197-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
122-66-7	1,2-Diphenylhydrazine	100 U		100	95.1	95	76.9	77	21	30-122/34
541-73-1	1,3-Dichlorobenzene	100 U		100	50	50	47	47	6	32-88/32
106-46-7	1,4-Dichlorobenzene	100 U		100	52.2	52	49	49	6	31-86/36
121-14-2	2,4-Dinitrotoluene	100 U		100	80.3	80	58.8	59	31*	55-112/23
606-20-2	2,6-Dinitrotoluene	100 U		100	ND	0*	ND	0*	nc	57-105/23
91-94-1	3,3'-Dichlorobenzidine	200 U		100	ND	0*	ND	0*	nc	50-142/21
53-70-3	Dibenzo(a,h)anthracene	100 U		100	62.4	62	47	47*	29	55-123/37
132-64-9	Dibenzofuran	774		100	1010	236* [a]	712	-62* [a]	35*	45-99/20
84-74-2	Di-n-butyl phthalate	117		100	85.5	-32*	68.5	-49*	22*	64-114/16
117-84-0	Di-n-octyl phthalate	54.9	J	100	82.8	28*	63.7	9*	26*	55-118/25
84-66-2	Diethyl phthalate	100 U		100	78.5	79	64.9	65	19	52-113/20
131-11-3	Dimethyl phthalate	100 U		100	79.0	79	64.4	64	20*	38-112/19
117-81-7	bis(2-Ethylhexyl)phthalate	54.9	J	100	85.3	30*	71.0	16*	18	56-131/19
206-44-0	Fluoranthene	974		100	1310	336* [a]	870	-104* [a]	40*	62-116/24
86-73-7	Fluorene	850		100	1140	290* [a]	797	-53* [a]	35*	47-99/22
118-74-1	Hexachlorobenzene	100 U		100	66.9	67	55.1	55*	19	62-102/21
87-68-3	Hexachlorobutadiene	100 U		100	51.0	51	47.4	47	7	37-91/28
77-47-4	Hexachlorocyclopentadiene	200 U		100	ND	0*	ND	0*	nc	23-102/34
67-72-1	Hexachloroethane	100 U		100	69.4	69	58.7	59	17	33-86/30
193-39-5	Indeno(1,2,3-cd)pyrene	100 U		100	71	71	53	53	29	52-126/30
78-59-1	Isophorone	100 U		100	80.2	80	69.2	69	15	42-105/28
90-12-0	1-Methylnaphthalene	733		100	646	-87* [a]	505	-228* [a]	25	35-89/25
91-57-6	2-Methylnaphthalene	1130		100	1170	40	894	-236* [a]	27	36-91/29
88-74-4	2-Nitroaniline	100 U		100	61.2	61	49	49	23*	49-109/22
99-09-2	3-Nitroaniline	100 U		100	50	50	35	35*	34*	46-139/23
100-01-6	4-Nitroaniline	100 U		100	61	61*	45	45*	30*	73-174/24
91-20-3	Naphthalene	11900 [b]		100	8410	-3490* [a]	7640	-4260* [a]	10	37-89/24
98-95-3	Nitrobenzene	100 U		100	176	176*	95.3	95	59*	42-97/26
62-75-9	n-Nitrosodimethylamine	100 U		100	ND	0*	ND	0*	nc	16-63/28
621-64-7	N-Nitroso-di-n-propylamine	100 U		100	ND	0*	ND	0*	nc	42-102/27
86-30-6	N-Nitrosodiphenylamine	100 U		100	90.7	91	71.6	72	24	64-119/27
85-01-8	Phenanthrene	2040		100	2980	940* [a]	2040	0* [a]	37*	59-103/19
129-00-0	Pyrene	641		100	930	289* [a]	630	-11* [a]	38*	58-110/25
110-86-1	Pyridine	257		100	503	246* [a]	420	163* [a]	18	10-63/48
120-82-1	1,2,4-Trichlorobenzene	100 U		100	54.8	55	49	49	12	37-88/23

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T74161
Account: WPRMTCOP Williams Production RMT Company
Project: Juhan 14-26H Pit

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18277-MS	W5164.D	20	04/28/11	AM	04/27/11	OP18277	EW267
OP18277-MSD	W5165.D	20	04/28/11	AM	04/27/11	OP18277	EW267
T74197-1	W5155.D	20	04/28/11	AM	04/27/11	OP18277	EW267
T74197-1	W5166.D	200	04/28/11	AM	04/27/11	OP18277	EW267

The QC reported here applies to the following samples: **Method:** SW846 8270C

T74161-1

CAS No.	Surrogate Recoveries	MS	MSD	T74197-1	T74197-1	Limits
367-12-4	2-Fluorophenol	51%	43%	36%	0%* [c]	10-66%
4165-62-2	Phenol-d5	45%	41%	27%	0%* [c]	10-53%
118-79-6	2,4,6-Tribromophenol	55%	44%	56%	0%* [c]	32-128%
4165-60-0	Nitrobenzene-d5	75%	63%	83%	0%* [c]	29-115%
321-60-8	2-Fluorobiphenyl	76%	62%	77%	0%* [c]	34-113%
1718-51-0	Terphenyl-d14	69%	55%	67%	0%* [c]	12-145%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Result is from Run #2.
(c) Outside control limits due to dilution.

Gulf Coast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T74161
Account: WPRMTCOP - Williams Production RMT Company
Project: Juhan 14-26H Pit

QC Batch ID: MP14527
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/23/11

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	8.3	12		
Antimony	5.0	1	1		
Arsenic	5.0	1.7	1		
Barium	200	.97	3.4		
Beryllium	5.0	.056	.16		
Boron	100	1.4	7.8		
Cadmium	4.0	.11	.09		
Calcium	5000	7.4	25	7.0	<5000
Chromium	10	.23	.27		
Cobalt	50	.15	.22		
Copper	25	1.1	5.9		
Iron	100	1.1	23	4.7	<100
Lead	3.0	1	1.8		
Lithium	300	2	2		
Magnesium	5000	7.7	7.9	-12	<5000
Manganese	15	.054	1.9	0.23	<15
Molybdenum	10	.39	.2		
Nickel	40	.69	1.4		
Potassium	5000	39	45	-21	<5000
Selenium	5.0	1.5	.98		
Silver	10	1.2	.24		
Sodium	5000	9.2	100	-27	<5000
Strontium	10	.061	.4		
Thallium	10	.67	1.2		
Tin	20	.69	2.8		
Titanium	20	.29	.3		
Vanadium	50	.3	.3		
Zinc	20	.51	3.5		

Associated samples MP14527: T74161-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T74161
Account: WPRMTCOP - Williams Production RMT Company
Project: Juhan 14-26H Pit

QC Batch ID: MP14527
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/23/11 04/23/11

Metal	T74161-1F Original	DUP	RPD	QC Limits	T74161-1F Original	MS	Spikelot MPTW4	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic	anr								
Barium									
Beryllium									
Boron									
Cadmium	anr								
Calcium	300000	325000	8.0	0-20	300000	379000	50000	158.0(a)	80-120
Chromium	anr								
Cobalt									
Copper									
Iron	1010	1110	9.4	0-20	1010	49000	50000	96.0	80-120
Lead	anr								
Lithium									
Magnesium	39900	43700	9.1	0-20	39900	89900	50000	100.0	80-120
Manganese	287	313	8.7	0-20	287	711	400	106.0	80-120
Molybdenum									
Nickel									
Potassium	89400	98300	9.5	0-20	89400	152000	50000	125.2N(b	80-120
Selenium	anr								
Silver	anr								
Sodium	10000000007000000		0.9	0-20	10000000007120000		50000	360.0(a)	80-120
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP14527: T74161-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
(b) Spike recovery indicates possible matrix interference.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T74161
Account: WPRMTCOP - Williams Production RMT Company
Project: Juhan 14-26H Pit

QC Batch ID: MP14527 Methods: SW846 6010B
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 04/23/11

Metal	T74161-1F Original	MSD	Spikelot MPTW4	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	anr					
Barium	anr					
Beryllium						
Boron						
Cadmium	anr					
Calcium	300000	354000	50000	108.0	6.8	20
Chromium	anr					
Cobalt						
Copper						
Iron	1010	45500	50000	89.0	7.4	20
Lead	anr					
Lithium						
Magnesium	39900	83500	50000	87.2	7.4	20
Manganese	287	653	400	91.5	8.5	20
Molybdenum						
Nickel						
Potassium	89400	140000	50000	101.2	8.2	20
Selenium	anr					
Silver	anr					
Sodium	10000000007250000		50000	620.0(a)	1.8	20
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP14527: T74161-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T74161
Account: WPRMTCOP - Williams Production RMT Company
Project: Juhan 14-26H Pit

QC Batch ID: MP14527
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/23/11

Metal	BSP Result	Spikelot MPTW4	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium				
Boron				
Cadmium	anr			
Calcium	52000	50000	104.0	80-120
Chromium	anr			
Cobalt				
Copper				
Iron	50000	50000	100.0	80-120
Lead	anr			
Lithium				
Magnesium	48800	50000	97.6	80-120
Manganese	413	400	103.3	80-120
Molybdenum				
Nickel				
Potassium	48500	50000	97.0	80-120
Selenium	anr			
Silver	anr			
Sodium	48700	50000	97.4	80-120
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP14527: T74161-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: T74161
Account: WPRMTCOP - Williams Production RMT Company
Project: Juhan 14-26H Pit

QC Batch ID: MP14527 Methods: SW846 6010B
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 04/23/11

Metal	T74161-1F Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium				
Boron				
Cadmium	anr			
Calcium	300000	287000	4.3	0-10
Chromium	anr			
Cobalt				
Copper				
Iron	1010	969	3.9	0-10
Lead	anr			
Lithium				
Magnesium	39900	38500	3.5	0-10
Manganese	287	269	6.1	0-10
Molybdenum				
Nickel				
Potassium	89400	77400	13.4*(a)	0-10
Selenium	anr			
Silver	anr			
Sodium	100000000007440000		7.3	0-10
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP14527: T74161-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Serial dilution indicates possible matrix interference.

Gulf Coast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

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

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T74161
Account: WPRMTCOP - Williams Production RMT Company
Project: Juhan 14-26H Pit

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Bicarbonate	GN30828	5.0	2.0	mg/l				
Alkalinity, Carbonate	GN30827	5.0	0.0	mg/l				
Alkalinity, Total as CaCO3	GN30822	5.0	2.0	mg/l	2500	2380	95.0	80-120%
Bromide	GP12815/GN30850	0.50	0.0	mg/l	10	9.11	91.1	90-110%
Chloride	GP12780/GN30797	0.50	0.0	mg/l	10	10.1	101.0	90-110%
Fluoride	GP12815/GN30850	0.50	0.0	mg/l	10	9.70	97.0	90-110%
Hydroxide Alkalinity	GN30829	5.0	0.0	mg/l				
Solids, Total Dissolved	GN30629	10	4.0	mg/l	500	486	97.2	80-120%
Specific Conductivity	GN30555	1.0	<1.0	umhos/cm				
Sulfate	GP12793/GN30804	0.50	0.0	mg/l	10	9.16	91.6	90-110%

Associated Samples:
Batch GN30555: T74161-1
Batch GN30629: T74161-1
Batch GN30822: T74161-1
Batch GN30827: T74161-1
Batch GN30828: T74161-1
Batch GN30829: T74161-1
Batch GP12780: T74161-1
Batch GP12793: T74161-1
Batch GP12815: T74161-1
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T74161
Account: WPRMTCOP - Williams Production RMT Company
Project: Juhan 14-26H Pit

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Alkalinity, Total as CaCO3	GN30822	T74088-2	mg/l	135	137	1.5	0-10%
Bromide	GP12815/GN30850	T74698-1	mg/l	0.18	0.18	0.0	0-20%
Chloride	GP12780/GN30797	T74698-2	mg/l	42.5	42.0	1.2	0-20%
Fluoride	GP12815/GN30850	T74698-1	mg/l	0.42	0.44	4.7	0-20%
Solids, Total Dissolved	GN30629	T74088-1	mg/l	240	242	0.8	0-5%
Specific Conductivity	GN30555	T73230-2	umhos/cm	1020	1020	0.0	0-20%
Sulfate	GP12793/GN30804	T74577-1	mg/l	128	129	0.8	0-20%
pH	GN30542	T74161-1	su	6.65	6.66	0.1	0-6.8%

Associated Samples:
Batch GN30542: T74161-1
Batch GN30555: T74161-1
Batch GN30629: T74161-1
Batch GN30822: T74161-1
Batch GP12780: T74161-1
Batch GP12793: T74161-1
Batch GP12815: T74161-1
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T74161
Account: WPRMTCOP - Williams Production RMT Company
Project: Juhan 14-26H Pit

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Alkalinity, Total as CaCO3	GN30822	T74088-2	mg/l	135	25	161	104.0	79-122%
Bromide	GP12815/GN30850	T74698-1	mg/l	0.18	10	9.1	89.2	80-120%
Chloride	GP12780/GN30797	T74698-2	mg/l	42.5	50	86.9	88.8	80-120%
Fluoride	GP12815/GN30850	T74698-1	mg/l	0.42	10	10.1	96.8	80-120%
Sulfate	GP12793/GN30804	T74577-1	mg/l	128	200	310	91.0	80-120%

Associated Samples:
Batch GN30822: T74161-1
Batch GP12780: T74161-1
Batch GP12793: T74161-1
Batch GP12815: T74161-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Form 26

FORM
26
Rev 6/99

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

SOURCE OF PRODUCED WATER FOR DISPOSAL

This form must be completed for any new disposal site and for any change in sources of produced water for an existing disposal site.

Complete the Attachment Checklist

	Oper	OGCC
Chemical Analysis of fluid		

If more space is required, attach additional sheet.

OGCC Operator Number: 96850
Name of Operator: Williams Production RMT Co.
Address: 1058 County Road 215
City: Parachute State: CO Zip: 81635

Contact Name and Telephone:
Karolina Blaney
No: (970) 683-2295
Fax: (970) 285-9573

OGCC Disposal Facility Number: 414574
Operator's Disposal Facility Name: Juhan 14-26H Operator's Disposal Facility Number: ______
Location (QtrQtr, Sec, Twp, Rng, Meridian): SESW- S26 T6S R94W 6th PM
Address: ______
City: ______ State: CO Zip: ______ County: Garfield

Add Source: ☑ OGCC Lease No: ______ API No: ______ Well Name & No: ______
Operator Name: See attached list of wells Operator No: ______
Delete Source: ☐ Location: QtrQtr: ______ Section: ______ Township: ______ Range: ______ Producing Formation: ______
Analysis Attached? ☐Yes ☐No Transported to disposal site via: ☐Pipeline ☐Truck TDS: ______

Add Source: ☐ OGCC Lease No: ______ API No: ______ Well Name & No: ______
Operator Name: ______ Operator No: ______
Delete Source: ☐ Location: QtrQtr: ______ Section: ______ Township: ______ Range: ______ Producing Formation: ______
Analysis Attached? ☐Yes ☐No Transported to disposal site via: ☐Pipeline ☐Truck TDS: ______

Add Source: ☐ OGCC Lease No: ______ API No: ______ Well Name & No: ______
Operator Name: ______ Operator No: ______
Delete Source: ☐ Location: QtrQtr: ______ Section: ______ Township: ______ Range: ______ Producing Formation: ______
Analysis Attached? ☐Yes ☐No Transported to disposal site via: ☐Pipeline ☐Truck TDS: ______

Add Source: ☐ OGCC Lease No: ______ API No: ______ Well Name & No: ______
Operator Name: ______ Operator No: ______
Delete Source: ☐ Location: QtrQtr: ______ Section: ______ Township: ______ Range: ______ Producing Formation: ______
Analysis Attached? ☐Yes ☐No Transported to disposal site via: ☐Pipeline ☐Truck TDS: ______

Add Source: ☐ OGCC Lease No: ______ API No: ______ Well Name & No: ______
Operator Name: ______ Operator No: ______
Delete Source: ☐ Location: QtrQtr: ______ Section: ______ Township: ______ Range: ______ Producing Formation: ______
Analysis Attached? ☐Yes ☐No Transported to disposal site via: ☐Pipeline ☐Truck TDS: ______

Add Source: ☐ OGCC Lease No: ______ API No: ______ Well Name & No: ______
Operator Name: ______ Operator No: ______
Delete Source: ☐ Location: QtrQtr: ______ Section: ______ Township: ______ Range: ______ Producing Formation: ______
Analysis Attached? ☐Yes ☐No Transported to disposal site via: ☐Pipeline ☐Truck TDS: ______

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: 7/14/2011

OGCC Approved: ______ Title: ______ Date: ______

CONDITIONS OF APPROVAL, IF ANY:

Well Name	API Number	Reservoir	Location						Transport Method
			Qtr/Qtr	Section	Town.		Range		
JUHAN FEDERAL 1-35	0504505078	Mesaverde	SENW	35	6	S	94	W	Pipeline
RWF 22-35	0504520459	Mesaverde	SWNW	35	6	S	94	W	Pipeline
RWF 522-35	0504520453	Mesaverde	SWNW	35	6	S	94	W	Pipeline
RWF 312-35	0504520450	Mesaverde	SWNW	35	6	S	94	W	Pipeline
RWF 313-35	0504520492	Mesaverde	SWNW	35	6	S	94	W	Pipeline
RWF 23-35	0504520460	Mesaverde	SENW	35	6	S	94	W	Pipeline
RWF 442-34	0504520458	Mesaverde	SWNW	35	6	S	94	W	Pipeline
RWF 343-34	0504520449	Mesaverde	SWNW	35	6	S	94	W	Pipeline
RWF 342-34	0504520457	Mesaverde	SWNW	35	6	S	94	W	Pipeline
RMV 15-35	0504506888	Mesaverde	SWNW	35	6	S	94	W	Pipeline
RWF 441-34	0504520456	Mesaverde	SWNW	35	6	S	94	W	Pipeline
RWF 323-35	0504520454	Mesaverde	SWNW	35	6	S	94	W	Pipeline
RWF 42-34	0504520452	Mesaverde	SWNW	35	6	S	94	W	Pipeline
RWF 422-35	0504520455	Mesaverde	SWNW	35	6	S	94	W	Pipeline
RWF 12-35	0504520462	Mesaverde	SWNW	35	6	S	94	W	Pipeline
RWF 412-35	0504520461	Mesaverde	SWNW	35	6	S	94	W	Pipeline
RWF 413-35	0504520520	Mesaverde	SWNW	35	6	S	94	W	Pipeline
RWF 542-34	0504520451	Mesaverde	SWNW	35	6	S	94	W	Pipeline
RWF 41-35	0504518745	Mesaverde	NWNE	35	6	S	94	W	Pipeline
RWF 31-35	0504518762	Mesaverde	NWNE	35	6	S	94	W	Pipeline
RWF 441-35	0504518770	Mesaverde	NWNE	35	6	S	94	W	Pipeline
RMV 22-35	0504506920	Mesaverde	NWNE	35	6	S	94	W	Pipeline
RWF 432-35	0504518752	Mesaverde	NWNE	35	6	S	94	W	Pipeline
RWF 342-35	0504518756	Mesaverde	NWNE	35	6	S	94	W	Pipeline
RWF 331-35	0504518749	Mesaverde	NWNE	35	6	S	94	W	Pipeline
RWF 42-35	0504518750	Mesaverde	NWNE	35	6	S	94	W	Pipeline
RWF 32-35	0504518747	Mesaverde	NWNE	35	6	S	94	W	Pipeline
RWF 442-35	0504518742	Mesaverde	NWNE	35	6	S	94	W	Pipeline
RWF 542-35	0504518764	Mesaverde	NWNE	35	6	S	94	W	Pipeline
RWF 332-35	0504518769	Mesaverde	NWNE	35	6	S	94	W	Pipeline
RWF 341-35	0504518753	Mesaverde	NWNE	35	6	S	94	W	Pipeline
RMV 147-35	0504518755	Mesaverde	NWNE	35	6	S	94	W	Pipeline
RWF 532-35	0504518760	Mesaverde	NWNE	35	6	S	94	W	Pipeline
RWF 541-35	0504518758	Mesaverde	NWNE	35	6	S	94	W	Pipeline

Well Name	API Number	Reservoir	Location						Transport Method
			Qtr/Qtr	Section	Town.		Range		
RWF 323-27	0504517784	Mesaverde	NWSE	27	6	S	94	W	Pipeline
RWF 542-27	0504517761	Mesaverde	NWSE	27	6	S	94	W	Pipeline
RMV 75-27	0504517780	Mesaverde	NWSE	27	6	S	94	W	Pipeline
RWF 333-27	0504517763	Mesaverde	NWSE	27	6	S	94	W	Pipeline
RWF 443-27	0504517778	Mesaverde	NWSE	27	6	S	94	W	Pipeline
RWF 32-27	0504519071	Mesaverde	NWSE	27	6	S	94	W	Pipeline
RWF 343-27	0504517783	Mesaverde	NWSE	27	6	S	94	W	Pipeline
RMV 76-27	0504507168	Mesaverde	NWSE	27	6	S	94	W	Pipeline
RWF 432-27	0504519076	Mesaverde	NWSE	27	6	S	94	W	Pipeline
RWF 533-27	0504517785	Mesaverde	NWSE	27	6	S	94	W	Pipeline
RWF 23-27	0504517782	Mesaverde	NWSE	27	6	S	94	W	Pipeline
RWF 543-27	0504517781	Mesaverde	NWSE	27	6	S	94	W	Pipeline
RWF 44-27	0504517779	Mesaverde	NWSE	27	6	S	94	W	Pipeline
RWF 423-27	0504517768	Mesaverde	NWSE	27	6	S	94	W	Pipeline
RWF 334-27	0504517762	Mesaverde	NWSE	27	6	S	94	W	Pipeline
RWF 333-34	0504516905	Mesaverde	SWSE	34	6	S	94	W	Pipeline
RWF 334-34	0504516902	Mesaverde	SWSE	34	6	S	94	W	Pipeline
RWF 324-34	0504516102	Mesaverde	SWSE	34	6	S	94	W	Pipeline
RMV 83-34	0504507179	Mesaverde	SWSE	34	6	S	94	W	Pipeline
RWF 342-3	0504519637	Mesaverde	SWSE	34	6	S	94	W	Pipeline
RMV 82-34	0504516908	Mesaverde	SWSE	34	6	S	94	W	Pipeline
RMV 81-34	0504516907	Mesaverde	SWSE	34	6	S	94	W	Pipeline
RWF 34-34	0504516903	Mesaverde	SWSE	34	6	S	94	W	Pipeline
RWF 341-3	0504519632	Mesaverde	SWSE	34	6	S	94	W	Pipeline
RWF 332-34	0504516894	Mesaverde	SWSE	34	6	S	94	W	Pipeline
RWF 332-3	0504519638	Mesaverde	SWSE	34	6	S	94	W	Pipeline
RWF 443-34	0504516901	Mesaverde	SWSE	34	6	S	94	W	Pipeline
RWF 13-34	0504516891	Mesaverde	SWSE	34	6	S	94	W	Pipeline
RWF 14-34	0504516890	Mesaverde	SWSE	34	6	S	94	W	Pipeline
RWF 531-3	0504519634	Mesaverde	SWSE	34	6	S	94	W	Pipeline
RWF 24-34	0504516895	Mesaverde	SWSE	34	6	S	94	W	Pipeline
RWF 444-34	0504516899	Mesaverde	SWSE	34	6	S	94	W	Pipeline
RMV 74-34	0504516909	Mesaverde	SWSE	34	6	S	94	W	Pipeline
RWF 44-34	0504516900	Mesaverde	SWSE	34	6	S	94	W	Pipeline
RWF 423-34	0504516896	Mesaverde	SWSE	34	6	S	94	W	Pipeline

Well Name	API Number	Reservoir	Location						Transport Method
			Qtr/Qtr	Section	Town.		Range		
RWF 441-3	0504519644	Mesaverde	SWSE	34	6	S	94	W	Pipeline
RWF 431-3	0504519631	Mesaverde	SWSE	34	6	S	94	W	Pipeline
RWF 41-3	0504519633	Mesaverde	SWSE	34	6	S	94	W	Pipeline
RWF 331-3	0504519635	Mesaverde	SWSE	34	6	S	94	W	Pipeline
RWF 33-34	0504516906	Mesaverde	SWSE	34	6	S	94	W	Pipeline
RWF 432-3	0504519636	Mesaverde	SWSE	34	6	S	94	W	Pipeline
RWF 314-34	0504516889	Mesaverde	SWSE	34	6	S	94	W	Pipeline
RWF 31-3	0504519630	Mesaverde	SWSE	34	6	S	94	W	Pipeline
RWF 11-26	0504515942	Mesaverde	SWSW	23	6	S	94	W	Pipeline
RWF 13-23	0504515941	Mesaverde	NWSW	23	6	S	94	W	Pipeline
RWF 323-23	0504515933	Mesaverde	SWSW	23	6	S	94	W	Pipeline
RWF 14-23	0504515938	Mesaverde	SWSW	23	6	S	94	W	Pipeline
RWF 324-23	0504515928	Mesaverde	SWSW	23	6	S	94	W	Pipeline
RWF 23-23	0504515866	Mesaverde	SWSW	23	6	S	94	W	Pipeline
RWF 322-23	0504515934	Mesaverde	SWSW	23	6	S	94	W	Pipeline
RWF 311-26	0504515943	Mesaverde	SWSW	23	6	S	94	W	Pipeline
RWF 313-23	0504515940	Mesaverde	NWSW	23	6	S	94	W	Pipeline
RWF 314-23	0504515937	Mesaverde	SWSW	23	6	S	94	W	Pipeline
RWF 24-23	0504515929	Mesaverde	SWSW	23	6	S	94	W	Pipeline
RWF 521-26	0504515945	Mesaverde	SWSW	23	6	S	94	W	Pipeline
RWF 424-23	0504515927	Mesaverde	SWSW	23	6	S	94	W	Pipeline
RWF 523-23	0504515931	Mesaverde	SWSW	23	6	S	94	W	Pipeline
RWF 423-23	0504515932	Mesaverde	SWSW	23	6	S	94	W	Pipeline
RWF 514-23	0504515935	Mesaverde	SWSW	23	6	S	94	W	Pipeline
RWF 524-23	0504515926	Mesaverde	SWSW	23	6	S	94	W	Pipeline
RWF 413-23	0504515939	Mesaverde	NWSW	23	6	S	94	W	Pipeline
RWF 612-23	0504515944	Mesaverde	NWSW	23	6	S	94	W	Pipeline
RWF 623-23	0504515930	Mesaverde	SWSW	23	6	S	94	W	Pipeline
RWF 414-23	0504515936	Mesaverde	SWSW	23	6	S	94	W	Pipeline
RWF 531-26	0504517334	Mesaverde	SENE	26	6	S	94	W	Pipeline
RWF 532-26	0504517330	Mesaverde	SENE	26	6	S	94	W	Pipeline
RWF 441-26	0504517326	Mesaverde	SENE	26	6	S	94	W	Pipeline
RWF 541-26	0504517325	Mesaverde	SENE	26	6	S	94	W	Pipeline
RWF 331-26	0504517336	Mesaverde	SENE	26	6	S	94	W	Pipeline
RWF 542-26	0504517310	Mesaverde	SENE	26	6	S	94	W	Pipeline

Well Name	API Number	Reservoir	Location						Transport Method
			Qtr/Qtr	Section	Town.		Range		
RWF 31-26	0504517337	Mesaverde	SENE	26	6	S	94	W	Pipeline
RWF 443-26	0504517309	Mesaverde	SENE	26	6	S	94	W	Pipeline
RWF 41-26	0504517328	Mesaverde	SENE	26	6	S	94	W	Pipeline
RWF 442-26	0504517311	Mesaverde	SENE	26	6	S	94	W	Pipeline
RWF 332-26	0504517332	Mesaverde	SENE	26	6	S	94	W	Pipeline
RWF 432-26	0504517331	Mesaverde	SENE	26	6	S	94	W	Pipeline
RWF 341-26	0504517327	Mesaverde	SENE	26	6	S	94	W	Pipeline
RWF 32-26	0504517333	Mesaverde	SENE	26	6	S	94	W	Pipeline
RWF 431-26	0504517335	Mesaverde	SENE	26	6	S	94	W	Pipeline
RWF 42-26	0504517324	Mesaverde	SENE	26	6	S	94	W	Pipeline
RWF 33-26	0504517329	Mesaverde	SENE	26	6	S	94	W	Pipeline
RWF 342-26	0504517312	Mesaverde	SENE	26	6	S	94	W	Pipeline
RWF 544-23	0504518248	Mesaverde	SESE	23	6	S	94	W	Pipeline
RWF 543-23	0504518245	Mesaverde	NWSE	23	6	S	94	W	Pipeline
RWF 344-23	0504518250	Mesaverde	NWSE	23	6	S	94	W	Pipeline
RWF 333-23	0504518241	Mesaverde	NWSE	23	6	S	94	W	Pipeline
RWF 534-23	0504518243	Mesaverde	NWSE	23	6	S	94	W	Pipeline
RWF 533-23	0504518246	Mesaverde	NWSE	23	6	S	94	W	Pipeline
RWF 33-23	0504518240	Mesaverde	NWSE	23	6	S	94	W	Pipeline
RWF 434-23	0504518254	Mesaverde	NWSE	23	6	S	94	W	Pipeline
RWF 343-23	0504518244	Mesaverde	NWSE	23	6	S	94	W	Pipeline
RWF 444-23	0504518249	Mesaverde	NWSE	23	6	S	94	W	Pipeline
RWF 443-23	0504518251	Mesaverde	NWSE	23	6	S	94	W	Pipeline
RWF 44-23	0504518252	Mesaverde	NWSE	23	6	S	94	W	Pipeline
RWF 433-23	0504518242	Mesaverde	NWSE	23	6	S	94	W	Pipeline
RWF 334-23	0504518253	Mesaverde	NWSE	23	6	S	94	W	Pipeline
RWF 34-23	0504518247	Mesaverde	NWSE	23	6	S	94	W	Pipeline
RMV 47-26	0504517058	Mesaverde	SWSE	26	6	S	94	W	Pipeline
RWF 344-26	0504517060	Mesaverde	SWSE	26	6	S	94	W	Pipeline
RWF 343-26	0504517053	Mesaverde	SWSE	26	6	S	94	W	Pipeline
RWF 544-26	0504517050	Mesaverde	SWSE	26	6	S	94	W	Pipeline
RWF 43-26	0504517054	Mesaverde	SWSE	26	6	S	94	W	Pipeline
RWF 433-26	0504517059	Mesaverde	SWSE	26	6	S	94	W	Pipeline
RWF 434-26	0504517055	Mesaverde	SWSE	26	6	S	94	W	Pipeline
RWF 44-26	0504517061	Mesaverde	SWSE	26	6	S	94	W	Pipeline

Well Name	API Number	Reservoir	Location						Transport Method
			Qtr/Qtr	Section	Town.		Range		
RWF 533-26	0504517057	Mesaverde	SWSE	26	6	S	94	W	Pipeline
RWF 543-26	0504517052	Mesaverde	SWSE	26	6	S	94	W	Pipeline
RWF 34-26	0504517056	Mesaverde	SWSE	26	6	S	94	W	Pipeline