

State of Colorado
Oil and Gas Conservation Commission

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



DOCUMENT
#2215004

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.)

RECEIVED
7/13/2011

1. OGCC Operator Number: 96850	4. Contact Name Karolina Blaney	Complete the Attachment Checklist
2. Name of Operator: Williams Production RMT	Phone: 970 683 2295	
3. Address: 1058 County Road 215	Fax: 970 285 9573	OP OGCC
City: Parachute State: CO Zip: 81635	282512	
5. API Number 05- NA	OGCC Facility ID Number 682512	Survey Plat
6. Well/Facility Name:	7. Well/Facility Number TR 34-23-597	Directional Survey
8. Location (Qtr/Tr, Sec, Twp, Rng, Meridian): SWSE S23 T5S R97W 6th PM		Surface Eqpm Diagram
9. County: Garfield	10. Field Name: Trail Ridge	Technical Info Page
11. Federal, Indian or State Lease Number:		Other

General Notice

<input type="checkbox"/> CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)	
Change of Surface Footage from Exterior Section Lines:	<input type="checkbox"/> FNL/FSL <input type="checkbox"/> FEL/FWL
Change of Surface Footage to Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/>
Change of Bottomhole Footage from Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/>
Change of Bottomhole Footage to Exterior Section Lines:	<input type="checkbox"/> attach directional survey
Bottomhole location Qtr/Tr, Sec, Twp, Rng, Mer	
Latitude	Distance to nearest property line
Longitude	Distance to nearest bldg, public rd, utility or RR
Ground Elevation	Distance to nearest lease line
	Is location in a High Density Area (rule 603b)? Yes/No
	Distance to nearest well same formation
	Surface owner consultation date:
GPS DATA:	
Date of Measurement	PDOP Reading
	Instrument Operator's Name
<input type="checkbox"/> CHANGE SPACING UNIT	<input type="checkbox"/> Remove from surface bond
Formation	Signed surface use agreement attached
Formation Code	
Spacing order number	
Unit Acreage	
Unit configuration	
<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling):	<input type="checkbox"/> CHANGE WELL NAME
Effective Date:	NUMBER
Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	From:
	To:
	Effective Date:
<input type="checkbox"/> ABANDONED LOCATION:	<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS
Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No	Date well shut in or temporarily abandoned:
Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No	Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No
Date Ready for Inspection:	MIT required if shut in longer than two years. Date of last MIT
<input type="checkbox"/> SPUD DATE:	<input type="checkbox"/> REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)
<input type="checkbox"/> 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
<input type="checkbox"/> RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004.	
Final reclamation will commence on approximately	
<input type="checkbox"/> Final reclamation is completed and site is ready for inspection.	

Technical Engineering/Environmental Notice

<input type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Report of Work Done	
Approximate Start Date:	Date Work Completed: 7/13/2011	
Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)		
<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare	<input type="checkbox"/> E&P Waste Disposal
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well	<input type="checkbox"/> Beneficial Reuse of E&P Waste
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested	<input type="checkbox"/> Status Update/Change of Remediation Plans
<input type="checkbox"/> Casing/Cementing Program Change	<input checked="" type="checkbox"/> Other: Form 15 COAs	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: 7/13/2011 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:

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number: 96850	API Number:
2. Name of Operator: Williams Production RMT	OGCC Facility ID # 682512
3. Well/Facility Name:	Well/Facility Number: TR 34-23-597
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): SWSE S23 T5S R97W 6th PM	

282512

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This 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 accordance with the TR 34-23-597 Pit Permit Form 15 conditions of approval (see attached), Williams is submit the following document in order to stay in compliance:

- Analytical data of the grab water sample collected from pit

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number: _____ API Number: _____

2. Name of Operator: _____ OGCC Facility ID # _____

3. Well/Facility Name: _____ Well/Facility Number: _____

4. Location (QtrQtr, Sec, Twp, Rng, Meridian): _____

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

Form 15

FORM

15

Rev 6/99



01631030

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

MAR 31 2009

COGCC

Complete the

Attachment Checklist

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.

FORM SUBMITTED FOR:

CHANGE OF USE

☐ Pit Report☒ Pit Permit

OGCC Operator Number: 96850

Name of Operator: Williams Production RMT Co

Address: 1515 Arapahoe St., Tower 3, Suite 1000

City: Denver State: Co Zip: 80202

Contact Name and Telephone:

Lisa Dee

No: (303) 260-4538

Fax: (303) 629-8268

	Oper	OGCC
Detailed Site Plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Topo Map w/ Pit Location	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Water Analysis (Form 25)	<input type="checkbox"/>	<input type="checkbox"/>
Source Wells (Form 26)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pit Design/Plan & Cross Sect	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Design Calculations	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sensitive Area Determ.	<input type="checkbox"/>	<input type="checkbox"/>
Mud Program	<input type="checkbox"/>	<input type="checkbox"/>
Form 2A	<input checked="" type="checkbox"/>	<input type="checkbox"/>

API Number (of associated well): See attached Form 26

OGCC Facility ID (of other associated facility): Applied For Location 324360

Pit Location (QtrQtr, Sec, Twp, Rng, Meridian): Chevron TR 34-23-597 pad (SWSE of Sec. 23: T5S-R97W 6th P.M.)

Latitude: N39.593671 NAD83

Longitude: W108.241692 NAD83

County: Garfield

Pit Use: ☐ Production ☐ Drilling (Attach mud program) ☒ Special Purpose (Describe Use): Multiwell PitPit Type: ☒ Lined ☐ Unlined Surface Discharge Permit: ☐ Yes ☐ NoOffsite disposal of pit contents: ☐ Injection ☐ Commercial Pit/Facility Name: TR 34-23-597 Pit/Facility No: _____

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 Attach data used for determination.

Distance (in feet) to nearest surface water: +/- 1215' ground water: +/- 2215' (spring) water wells: +/- 1.68 mi

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 ☐ CRPNon-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 from USNRCS survey: Sheet No: Website Data Soil Complex/Series No: 55

Soils Series Name: Parachute-Irigul Complex Horizon thickness (in inches): A: 0-10" ; B: 10-25" ; C: 25-29"

Soils Series Name: See attached Form 2A Horizon thickness (in inches): A: 0-6" ; B: 6-13" ; C: 13-17"

Attach detailed site plan and topo map with pit location.

Pit Design and Construction

Size of pit (feet): Length: 155' 178' Width: 78' 74' Depth: 18' 18'

Calculated pit volume (bbls): 17,666 bbls Daily inflow rate (bbls/day): 20

Daily disposal rates (attach calculations): Evaporation: 10.98 bbls/day Percolation: none bbls/day

Type of liner material: Poly Thickness: 24mil

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): Separator

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: Lisa Dee

Signed:

Title: Regulatory Specialist - Piceance Highlands Asset Team

Date: 3/3/2009

OGCC Approved:

Title: OGCC SUPERVISOR

Date: 3/22/11

CONDITIONS OF APPROVAL, IF ANY:

FACILITY NUMBER: 444555-282512

-OPERATOR TO SUBMIT ANALYTICAL RESULT FROM GRAB SAMPLE OF PIT WATER

JAX

Analytical Data



07/13/11

Technical Report for

Williams Production RMT Company

TR 34-23-597 Pit

Accutest Job Number: T77680

Sampling Date: 06/03/11

Report to:

Williams Production RMT Company

karolina.blaney@williams.com

ATTN: Karolina Blaney

Total number of pages in report: 15



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.

A handwritten signature in black ink that reads '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)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

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Sample Summary

Williams Production RMT Company
TR 34-23-597 Pit

Job No: T77680

Sample Number	Collected		Time By	Received	Matrix		Client Sample ID
	Date				Code	Type	
T77680-1	06/03/11	12:30	RW	06/04/11	AQ	Water	TR 34-23 PIT
T77680-1F	06/03/11	12:30	RW	06/04/11	AQ	Water Filtered	TR 34-23 PIT (DISSOLVED)

Sample Results

Report of Analysis

Report of Analysis

Page 1 of 2

Client Sample ID:	TR 34-23 PIT	Date Sampled:	06/03/11
Lab Sample ID:	T77680-1	Date Received:	06/04/11
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	TR 34-23-597 Pit		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G001737.D	1	06/10/11	JL	n/a	n/a	VG74
Run #2	G001817.D	50	06/14/11	JL	n/a	n/a	VG79
Run #3	X0073120.D	200	06/14/11	JL	n/a	n/a	VX1054

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml
Run #3	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	4620 ^a	2500	240	ug/l	
71-43-2	Benzene	2900 ^a	100	25	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	0.49	ug/l	
75-25-2	Bromoform	ND	2.0	1.4	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	
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	
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	
124-48-1	Dibromochloromethane	ND	2.0	0.61	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	
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	1140 ^a	100	27	ug/l	
591-78-6	2-Hexanone	ND	10	3.2	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	
75-09-2	Methylene chloride	ND	5.0	0.41	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	3.9	ug/l	
100-42-5	Styrene	ND	2.0	0.56	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	
127-18-4	Tetrachloroethylene	ND	2.0	0.91	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

Report of Analysis

Page 2 of 2

Client Sample ID: TR 34-23 PIT
Lab Sample ID: T77680-1
Matrix: AQ - Water
Method: SW846 8260B
Project: TR 34-23-597 Pit

Date Sampled: 06/03/11
Date Received: 06/04/11
Percent Solids: n/a

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	12100 ^b	400	87	ug/l	
79-01-6	Trichloroethylene	ND	2.0	0.52	ug/l	
75-01-4	Vinyl chloride	ND	2.0	1.0	ug/l	
1330-20-7	Xylene (total)	20300 ^a	300	84	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
1868-53-7	Dibromofluoromethane	86%	94%	96%	79-122%
17060-07-0	1,2-Dichloroethane-D4	94%	91%	106%	75-121%
2037-26-5	Toluene-D8	96%	98%	100%	87-119%
460-00-4	4-Bromofluorobenzene	98%	103%	100%	80-133%

(a) Result is from Run# 2

(b) Result is from Run# 3

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Report of Analysis

Page 1 of 3

Client Sample ID:	TR 34-23 PIT	Date Sampled:	06/03/11
Lab Sample ID:	T77680-1	Date Received:	06/04/11
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	TR 34-23-597 Pit		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W5823.D	4	06/06/11	SG	06/06/11	OP18745	EW298
Run #2	W5819.D	10	06/06/11	SG	06/06/11	OP18745	EW298

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2	900 ml	1.0 ml

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	59.8	44	22	ug/l	
95-57-8	2-Chlorophenol	ND	22	5.3	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	22	5.2	ug/l	
120-83-2	2,4-Dichlorophenol	ND	22	9.8	ug/l	
105-67-9	2,4-Dimethylphenol	73.9	22	5.6	ug/l	
51-28-5	2,4-Dinitrophenol	ND	110	67	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	44	6.1	ug/l	
95-48-7	2-Methylphenol	144	22	3.7	ug/l	
	3&4-Methylphenol	127	22	7.0	ug/l	
88-75-5	2-Nitrophenol	ND	22	8.8	ug/l	
100-02-7	4-Nitrophenol	ND	110	30	ug/l	
87-86-5	Pentachlorophenol	ND	110	59	ug/l	
108-95-2	Phenol	98.7	22	3.3	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	22	5.2	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	22	5.1	ug/l	
83-32-9	Acenaphthene	ND	22	6.9	ug/l	
208-96-8	Acenaphthylene	ND	22	5.4	ug/l	
120-12-7	Anthracene	ND	22	4.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	22	4.8	ug/l	
50-32-8	Benzo(a)pyrene	ND	22	4.8	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	22	3.9	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	22	7.4	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	22	4.7	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	22	6.1	ug/l	
85-68-7	Butyl benzyl phthalate	ND	22	7.2	ug/l	
100-51-6	Benzyl Alcohol	ND	22	5.8	ug/l	
91-58-7	2-Chloronaphthalene	ND	22	6.2	ug/l	
106-47-8	4-Chloroaniline	ND	22	19	ug/l	
86-74-8	Carbazole	ND	22	6.6	ug/l	
218-01-9	Chrysene	ND	22	4.4	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	22	5.7	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	22	5.8	ug/l	

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Report of Analysis

Page 2 of 3

Client Sample ID:	TR 34-23 PIT	Date Sampled:	06/03/11
Lab Sample ID:	T77680-1	Date Received:	06/04/11
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	TR 34-23-597 Pit		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	22	8.8	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	22	5.8	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	22	5.6	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	22	5.6	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	22	5.7	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	22	6.4	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	22	5.9	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	44	14	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	22	6.9	ug/l	
132-64-9	Dibenzofuran	ND	22	5.9	ug/l	
84-74-2	Di-n-butyl phthalate	ND	22	4.5	ug/l	
117-84-0	Di-n-octyl phthalate	ND	22	5.8	ug/l	
84-66-2	Diethyl phthalate	ND	22	4.8	ug/l	
131-11-3	Dimethyl phthalate	ND	22	4.7	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	22	7.8	ug/l	
206-44-0	Fluoranthene	ND	22	4.3	ug/l	
86-73-7	Fluorene	ND	22	6.0	ug/l	
118-74-1	Hexachlorobenzene	ND	22	6.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	22	4.9	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	44	23	ug/l	
67-72-1	Hexachloroethane	ND	22	4.3	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	22	8.0	ug/l	
78-59-1	Isophorone	ND	22	5.3	ug/l	
91-57-6	2-Methylnaphthalene	91.1	22	5.7	ug/l	
88-74-4	2-Nitroaniline	ND	22	6.3	ug/l	
99-09-2	3-Nitroaniline	ND	22	15	ug/l	
100-01-6	4-Nitroaniline	ND	22	10	ug/l	
91-20-3	Naphthalene	69.3	22	5.0	ug/l	
98-95-3	Nitrobenzene	ND	22	7.7	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	22	6.3	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	22	7.4	ug/l	
85-01-8	Phenanthrene	ND	22	4.3	ug/l	
129-00-0	Pyrene	ND	22	7.4	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	22	5.6	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	17%	0% ^b	10-66%
4165-62-2	Phenol-d5	48%	55% ^b	10-53%
118-79-6	2,4,6-Tribromophenol	117%	49%	32-128%

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Report of Analysis

Page 3 of 3

Client Sample ID:	TR 34-23 PIT	Date Sampled:	06/03/11
Lab Sample ID:	T77680-1	Date Received:	06/04/11
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	TR 34-23-597 Pit		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	92%	95%	29-115%
321-60-8	2-Fluorobiphenyl	87%	96%	34-113%
1718-51-0	Terphenyl-d14	76%	79%	12-145%

(a) Elevated reporting limits and internal standards are not within advisory limits due to matrix interference.

High concentration of non-target compounds were detected in the sample. Confirmed by re-analysis.

(b) Outside control limits due to dilution.

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: TR 34-23 PIT
Lab Sample ID: T77680-1
Matrix: AQ - Water
Project: TR 34-23-597 Pit

Date Sampled: 06/03/11
Date Received: 06/04/11
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	296	5.0	0.66	mg/l	1	06/13/11	MC	SM 4500 CO2 D
Alkalinity, Carbonate	0.66 U	5.0	0.66	mg/l	1	06/13/11	MC	SM18 2320B
Alkalinity, Total as CaCO3	296	20	6.7	mg/l	1	06/13/11 10:00	MC	SM 2320B
Bromide	54.3	5.0		mg/l	10	06/04/11	BF	SM18 4500BRB
Chloride	5970	500	0.38	mg/l	1000	06/04/11	BF	SM 4500 CL C
Hydroxide Alkalinity	0.66 U	5.0	0.66	mg/l	1	06/13/11	MC	SM18 4500CO2D
Solids, Total Dissolved	9760	200	52	mg/l	1	06/10/11	BG	SM 2540C
Specific Conductivity	16800	1.0		umhos/cm	1	06/14/11 13:00	KD	EPA 120.1
Sulfate	6.5	0.50	3.1	mg/l	1	06/04/11	BF	SM 4500 SO4
pH	6.93			su	1	06/04/11 13:10	KD	SM 4500H+ B/9040

RL = Reporting Limit
MDL = Method Detection Limit

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

Report of Analysis

Page 1 of 1

Client Sample ID: TR 34-23 PIT (DISSOLVED)**Lab Sample ID:** T77680-1F**Date Sampled:** 06/03/11**Matrix:** AQ - Water Filtered**Date Received:** 06/04/11**Percent Solids:** n/a**Project:** TR 34-23-597 Pit

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Calcium	125000	5000	25	ug/l	1	06/07/11	06/09/11 NS	SW846 6010B ¹	SW846 3010A ³
Iron	3720	100	23	ug/l	1	06/07/11	06/09/11 NS	SW846 6010B ¹	SW846 3010A ³
Magnesium	14100	5000	7.9	ug/l	1	06/07/11	06/09/11 NS	SW846 6010B ¹	SW846 3010A ³
Manganese	768	15	1.9	ug/l	1	06/07/11	06/09/11 NS	SW846 6010B ¹	SW846 3010A ³
Potassium	76900	5000	45	ug/l	1	06/07/11	06/09/11 NS	SW846 6010B ¹	SW846 3010A ³
Sodium	3340000	50000	1000	ug/l	10	06/07/11	06/10/11 NS	SW846 6010B ²	SW846 3010A ³

(1) Instrument QC Batch: MA5800

(2) Instrument QC Batch: MA5807

(3) Prep QC Batch: MP14895

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

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

Client / Reporting Information		Project Information		Requested Analyses		Matrix Codes	
Company Name: <u>Williams Production</u> Address: <u>258 City Rd 215</u> City: <u>Prochule CO</u> Zip: <u>81635</u> Contact: <u>Karolina Blaney</u> E-mail: <u>karolina.blaney@williams.com</u> Phone: <u>706 832 2245 / 970 285 9573</u>		Project Name: <u>TR 34-23-597 P14</u> Street: _____ City: _____ State: _____ Billing Information (if different from Report to): Company Name: _____ Street Address: _____ City: _____ State: _____ Zip: _____ Attention: <u>Karolina Blaney</u>		Matrix Codes: DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank		LAB USE ONLY	
Field ID / Point of Collection: <u>TR 34-23 P14</u> Date: <u>6/3/11</u> Time: <u>12:30</u> Sampled By: <u>RD</u> Matrix: <u>L</u> # of bottles: <u>9</u>		Data Deliverable Information: <input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> TRRP <input checked="" type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> EDD Format <input type="checkbox"/> FULL1 (Level 3+4) <input type="checkbox"/> Other _____ <input type="checkbox"/> REDT1 (Level 3+4) <input type="checkbox"/> Commercial "C" Commercial "A" = Results Only Commercial "B" = Results + QC Summary Commercial "C" = Results + QC & Surrogate Summary		Comments / Special Instructions:			
Turnaround Time (Business days): <input checked="" type="checkbox"/> Standard <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 4 Day RUSH <input type="checkbox"/> 3 Day RUSH <input type="checkbox"/> 2 Day RUSH <input type="checkbox"/> 1 Day EMERGENCY Emergency & Rush T/A data available VIA Lablink		Approved By (Accutest PM): / Date: _____		Sample Custody must be documented below each time samples change possession, including courier delivery.			
Relinquished by Sampler: <u>Real W. W.</u> Date Time: <u>6/3/11</u> Relinquished by Sampler: <u>FED EX</u> Date Time: <u>6/4/11 10:10</u> Relinquished by: _____		Received By: <u>1</u> Received By: <u>ALGC</u> Received By: <u>James Huddleston</u> Received By: <u>5</u>		Relinquished By: <u>2</u> Relinquished By: <u>4</u> Custody Seal # <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact Preserved where applicable <input type="checkbox"/> On Ice <input checked="" type="checkbox"/> Cooler Temp. <u>4.4°C</u>			

See Attached

31
3

Accutest Job Number: T77680 **Client:** WILLIAMS PRODUCTION **Project:** TR 34-23-597 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 or N

Y or N

- | | | | | | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | IR Gun | |
| 3. Cooler media: | Ice (Bag) | |

Quality Control Preservation

Y or N

N/A

WTB STB

- | | | | | | |
|---------------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | |
| 4. VOCs headspace free: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

Y or N N/A

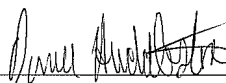
- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

Accutest Laboratories
 V:713.271.4700

10165 Harwin Drive
 F: 713.271.4770

Houston, TX 77036
 www.accutest.com

 6/4/11

T77680: Chain of Custody

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Sample Receipt Log

Job #: T77680

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	T77680-1	1 LAG	1	1 I	N/P	Note #2 - Preservative check not applicable.	IRGUN4	4.5	-0.1	4.4
1	T77680-1	1 LAG	2	1 I	N/P	Note #2 - Preservative check not applicable.	IRGUN4	4.5	-0.1	4.4
1	T77680-1	500 ml	3	1 I	N/P	Note #2 - Preservative check not applicable.	IRGUN4	4.5	-0.1	4.4
1	T77680-1	1000 ml	4	3 C	N/P	Note #2 - Preservative check not applicable.	IRGUN4	4.5	-0.1	4.4
1	T77680-1	1000 ml	5	3 C	N/P	Note #2 - Preservative check not applicable.	IRGUN4	4.5	-0.1	4.4
1	T77680-1	1000 ml	6	3 C	N/P	Note #2 - Preservative check not applicable.	IRGUN4	4.5	-0.1	4.4
1	T77680-1	40 ml	7	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	4.5	-0.1	4.4
1	T77680-1	40 ml	8	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	4.5	-0.1	4.4
1	T77680-1	40 ml	9	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN4	4.5	-0.1	4.4

T77680: Chain of Custody

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