

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
#2221366

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
12/8/2011

1. OGCC Operator Number: 96850	4. Contact Name Ty Woodworth	Complete the Attachment Checklist OP OGCC
2. Name of Operator: Williams Production RMT Company	Phone: 970 274 9254	
3. Address: 1058 County Road 215 City: Parachute State: CO Zip: 81635	Fax: 970 285 9573	
5. API Number 05-045-07466	OGCC Facility ID Number 324085	Survey Plat
6. Well/Facility Name:	7. Well/Facility Number RMV 216-21	Directional Survey
8. Location (Qtr/Sec, Twp, Rng, Meridian): SENW S21, T6S, R94W, 6th PM		Surface Eqpm Diagram
9. County: Garfield	10. Field Name: Rulison Field	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: <table border="1"><tr><td></td><td>FNL/FSL</td><td></td><td>FEL/FWL</td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table> Change of Surface Footage to Exterior Section Lines: <table border="1"><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table> Change of Bottomhole Footage from Exterior Section Lines: <table border="1"><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table> Change of Bottomhole Footage to Exterior Section Lines: <table border="1"><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table> attach directional survey Bottomhole location Qtr/Sec, Twp, Rng, Mer: _____ Latitude _____ Distance to nearest property line _____ Distance to nearest bldg, public rd, utility or RR _____ Longitude _____ Distance to nearest lease line _____ Is location in a High Density Area (rule 603b)? Yes/No _____ Ground Elevation _____ Distance to nearest well same formation _____ Surface owner consultation date: _____			FNL/FSL		FEL/FWL																																																													<input type="checkbox"/> GPS DATA: Date of Measurement _____ PDOP Reading _____ Instrument Operator's Name _____	
	FNL/FSL		FEL/FWL																																																																
<input type="checkbox"/> CHANGE SPACING UNIT Formation _____ Formation Code _____ Spacing order number _____ Unit Acreage _____ Unit configuration _____		<input type="checkbox"/> Remove from surface bond Signed surface use agreement attached _____																																																																	
<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling): Effective Date: _____ Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual		<input type="checkbox"/> CHANGE WELL NAME NUMBER From: _____ To: _____ Effective Date: _____																																																																	
<input type="checkbox"/> ABANDONED LOCATION: Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No Date Ready for inspection: _____		<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS Date well shut in or temporarily abandoned: _____ Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No 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 Method used _____ Cementing tool setting/perf depth _____ Cement volume _____ Cement top _____ Cement bottom _____ Date _____ *submit cbl and cement job summaries																																																																			
<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 Approximate Start Date: _____		<input type="checkbox"/> Report of Work Done Date Work Completed: _____	
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"/> Change Drilling Plans <input type="checkbox"/> Gross Interval Changed? <input type="checkbox"/> Casing/Cementing Program Change	<input type="checkbox"/> Request to Vent or Flare <input type="checkbox"/> Repair Well <input type="checkbox"/> Rule 502 variance requested <input type="checkbox"/> Other: _____	<input type="checkbox"/> E&P Waste Disposal <input type="checkbox"/> Beneficial Reuse of E&P Waste <input checked="" type="checkbox"/> 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: 12/2/2011 Email: Karolina.Blaney@Williams.com
 Print Name: Karolina Blaney Title: Environmental Specialist

COGCC Approved: Chris Canfield Title: FOR Date: 01/26/2012
 CONDITIONS OF APPROVAL, IF ANY: EPS NW Region

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number: 96850	API Number: 05-045-07466
2. Name of Operator: Williams Production RMT Company	OGCC Facility ID # 324085
3. Well/Facility Name: RMV 216-21	Well/Facility Number: RMV 216-21
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): SENW S21, T6S, R94W, 6th	

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**

COGCC Spill Tracking number for this release is 1632846

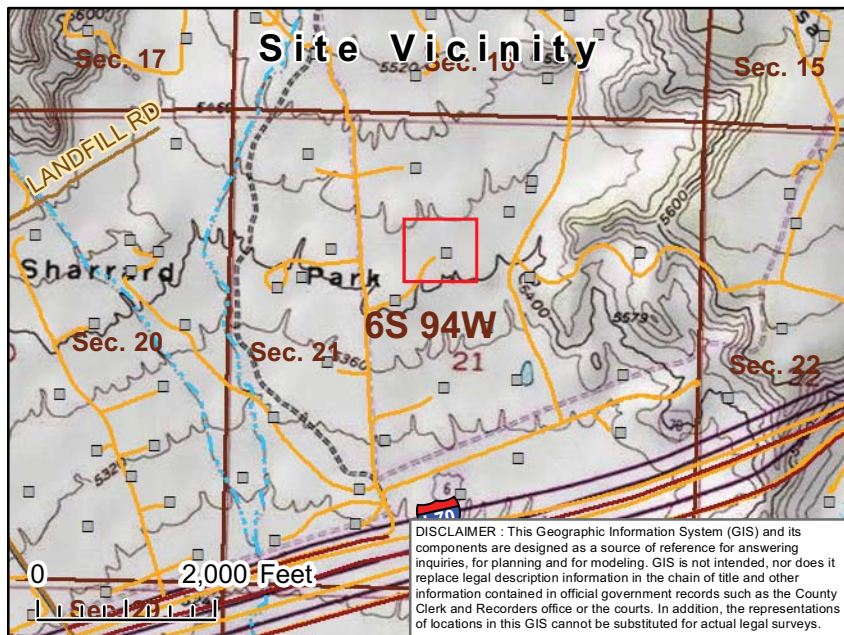
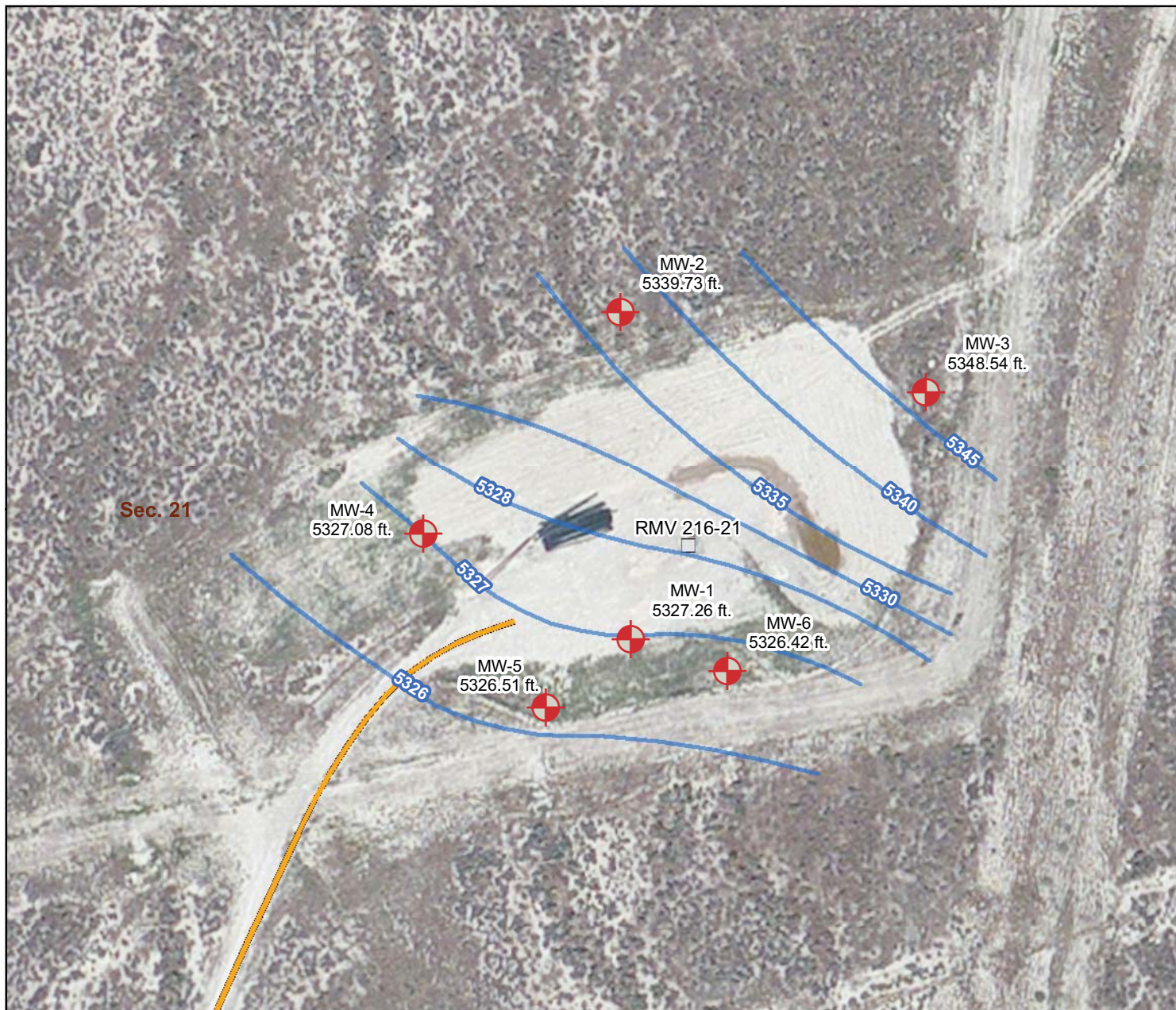
Updated Project Summary

As part of the ongoing investigation of the RMV 216-21 workover pit, one (1) monitoring well was installed downgradient of the pit during the further site investigation conducted in October of 2010. The monitoring well was installed to determine if contaminants, known to be present in the pit, have migrated vertically and impacted groundwater. The well was initially sampled in December of 2010. Analytical results were non-detect indicating that groundwater had not been impacted by the pit. An additional water sample was collected from the MW-1 in July of 2011. Analytical results indicated very low levels of benzene (2.2 ug/L) and ethylbenzene (1 ug/L) both of which were below the COGCC and CDPHE standard of 5ug/L for Benzene and 700 ug/L for Ethylbenzene. Due to the fact the analytical results were very low, the well was re-sampled in August of 2011 to confirm the July results. Results from the August 2011 sampling event revealed similar results with a Benzene concentration of 1.7 ug/L and an Ethylbenzene concentration of 1.1 ug/L. During the August 2011 sampling event, Xylene was also detected at 2.2 ug/L which is well below the COGCC and CDPHE standard of 10,000 ug/L.

To further delineate the extent of suspected groundwater contamination, 5 additional monitoring wells were drilled and installed in October 2011. One upgradient well was installed north of the pit, two were installed on the east and west end of the pit, and two downgradient wells were installed to the southeast and southwest of MW-1. The locations of the newly installed wells are depicted in Attachment A. The wells were developed and sampled in November of 2011. Water levels were collected after development and prior to sampling. The water level measurements are also presented graphically in the form of a potentiometric map on Attachment A.

Analytical results indicated benzene concentrations in MW-5 of 28 ug/L which exceeds the COGCC and CDPHE standard. In addition the TDS concentration of 5,500 mg/L exceeded the COGCC standard of 1.25 x background when compared to the TDS concentrations in the upgradient monitoring well (MW-2) which was 2,700 mg/L. MW-6 had a benzene concentration of 1.3 ug/L which is below the COGCC and CDPHE standard. All of the remaining wells (MW-1, MW-2, MW-3, and MW-4) were non-detect. A copy of the analytical results are included as Attachment B.

Based on the results of the additional site investigation, Williams is considering and evaluating several remediation options which will be described in a subsequent Form 4.

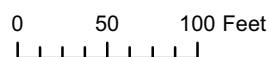
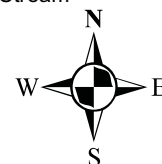


Monitoring Well Locations

Location: RMV 216-26
Williams Production RMT

Legend

- PLSS**
- Williams Access Roads
- Hydrographic Features**
- Township
 - Section
 - Perennial Stream
 - Intermittent Stream



RMV 216-21 Groundwater Investigation Results

Client Sample ID:		COGCC Table 910-1 Standards	MW 1	MW 1	MW 1	MW 1	MW 2 (background)	MW 3	MW 4
Date Sampled:			10/18/2010	7/14/2011	8/5/2011	11/8/2011	11/8/2011	11/8/2011	11/8/2011
GC/MS Volatiles (SW846 8260B)									
Benzene	ug/l	5 ug/l	ND	2.2	1.7	ND	ND	ND	ND
Ethylbenzene	ug/l	700 ug/l	ND	1	1.1	ND	ND	ND	ND
Toluene	ug/l	560 ug/l	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	ug/l	1400 ug/l	ND	ND	2.2	ND	ND	ND	ND
Metals Analysis									
Calcium	mg/l			210		220	230	230	210
Iron	mg/l			ND		2.4	2.3	2.1	0.9
Magnesium	mg/l			200		170	180	180	240
Manganese	mg/l			0.077		0.52	ND	0.18	0.086
Potassium	mg/l			5.6		7	6.6	6.4	5.3
Sodium	mg/l			400		310	320	330	470
General Chemistry									
Bromide	mg/l			1.2		ND	ND	ND	1.1
Fluoride	mg/l			0.61		0.6	0.62	0.56	0.58
Chloride	mg/l	1.25 x bkgd	260	270		18	17	32	360
Nitrogen, Nitrate	mg/l			29		32	21	54	36
Nitrogen, Nitrite	mg/l			0.11		0.1	ND	0.12	0.041
Nitrogen, Nitrate-Nitrite	mg/l			29		32	22	57	36
Sulfate	mg/l	1.25 x bkgd		1400		1500	1400	1400	1500
TDS	mg/l	1.25 x bkgd	3100	3800		2500	2700	2700	3300

RMV 216-21 Groundwater Investigation Results

Client Sample ID:		COGCC Table 910-1 Standards	MW 5	MW 6
Date Sampled:			11/8/2011	11/8/2011
GC/MS Volatiles (SW846 8260B)				
Benzene	ug/l	5 ug/l	28	1.3
Ethylbenzene	ug/l	700 ug/l	ND	ND
Toluene	ug/l	560 ug/l	ND	ND
Xylene (total)	ug/l	1400 ug/l	ND	ND
Metals Analysis				
Calcium	mg/l		310	220
Iron	mg/l		2.3	ND
Magnesium	mg/l		360	210
Manganese	mg/l		0.49	0.26
Potassium	mg/l		7.6	5.4
Sodium	mg/l		900	420
General Chemistry				
Bromide	mg/l		4.6	0.7
Fluoride	mg/l		0.6	0.62
Chloride	mg/l	1.25 x bkgd	1300	260
Nitrogen, Nitrate	mg/l		39	30
Nitrogen, Nitrite	mg/l		9.5	0.29
Nitrogen, Nitrate-Nitrite	mg/l		51	32
Sulfate	mg/l	1.25 x bkgd	1800	1400
TDS	mg/l	1.25 x bkgd	5500	3000

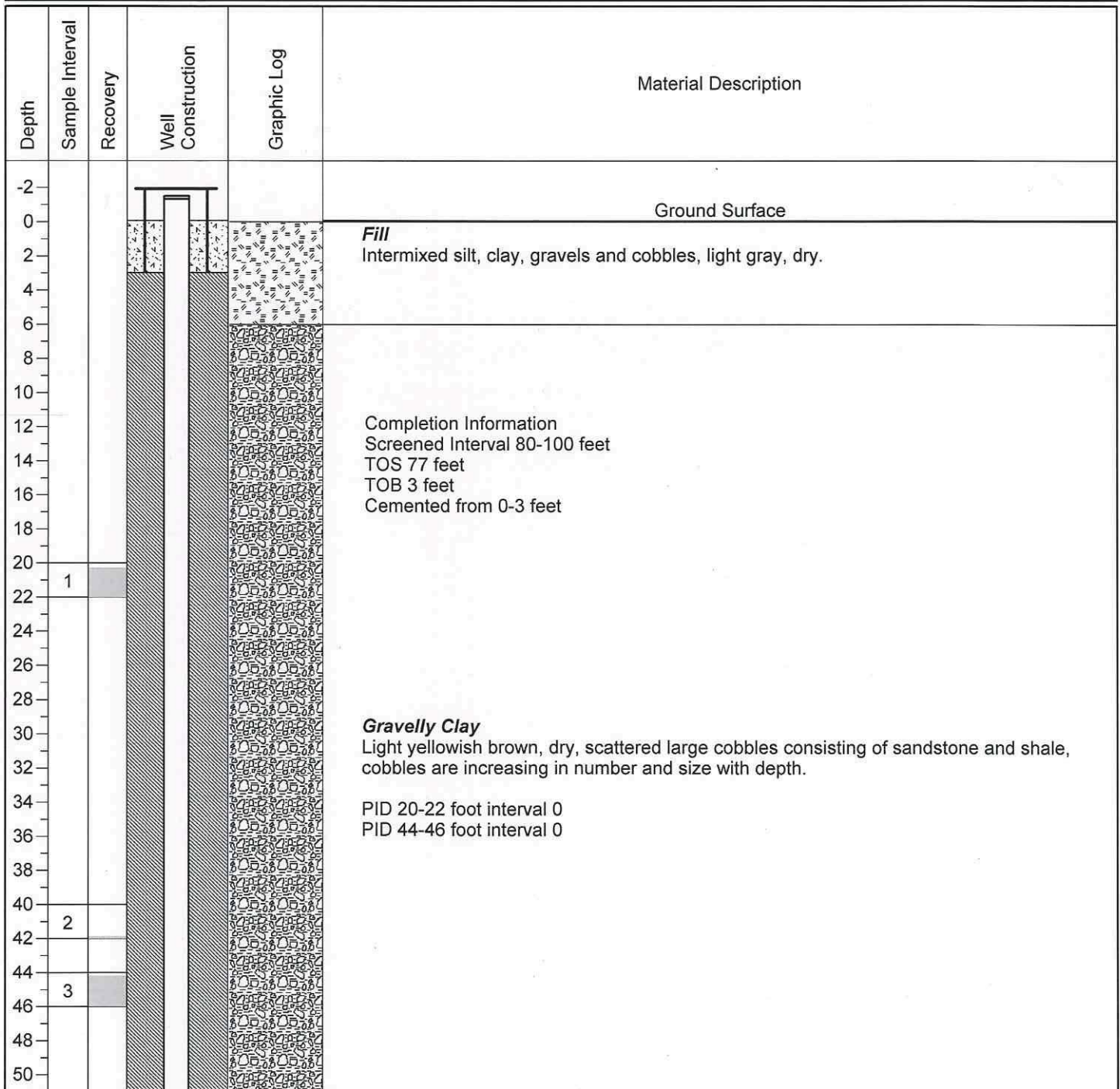
Well Summary

**744 Horizon Court, Ste. 140
Grand Junction, CO 81501
970-243-3271**

Project: Drilling Pit Sampling
Location: RMV 216-21
Date(s): 10/5-6/2010
Contractor: D.A. Smith Drilling Company
Rig Type: Simco 9100
Drilling Method: DTH Hammer w/Cased Hole
Sample Type: 2' x 3" Split Spoon

Well Name: BH08/MW1
Total Depth: 100 Feet
Elevation TOC: 5411.50 Feet
Elevation Ground: 5408.70 Feet
Latitude: 39.513684
Longitude: -107.894310
Logged By: M.E. Mumby

Page 1 of 2



Well Summary

**744 Horizon Court, Ste. 140
Grand Junction, CO 81501
970-243-3271**

Project: Drilling Pit Sampling
Location: RMV 216-21
Date(s): 10/5-6/2010
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Latitude: 39.513684
Longitude: -107.894310
Logged By: M.E. Mumby

Page 2 of 2

Depth	Sample Interval	Recovery	Well Construction	Graphic Log	Material Description
52					
54					
56					
58					
60					
62	5				Cobbles Clay Light yellowish brown, dry, large sandstone cobbles intermixed with clay, no odors, or visible staining.
64					
66					
68					Clayey Silt Clayey silt, yellowish brown, becoming moist, abundant large sandstone cobbles throughout interval, increasing moisture content, having to add water at approximately 70 feet, abundant cobbles again from 76 to 79 feet, decreasing cobbles at 80 feet, well bore is making water on its own at 80 feet.
70					
72					
74	6				PID 60-62 for interval 0
76					
78					
80	7				
82					
84					
86					Gravels Cobbles Silt Light yellowish brown, saturated, gravels and cobbles in a clayey silt to silt matrix, gravels consists of both sandstone and shales while the cobbles tend to be composed primarily of sandstone, no visible odors or staining, well bore is sustaining flow at approximately .5 to .75 GPM without the addition of water.
88					
90					
92					
94					
96					
98					
100					
102					

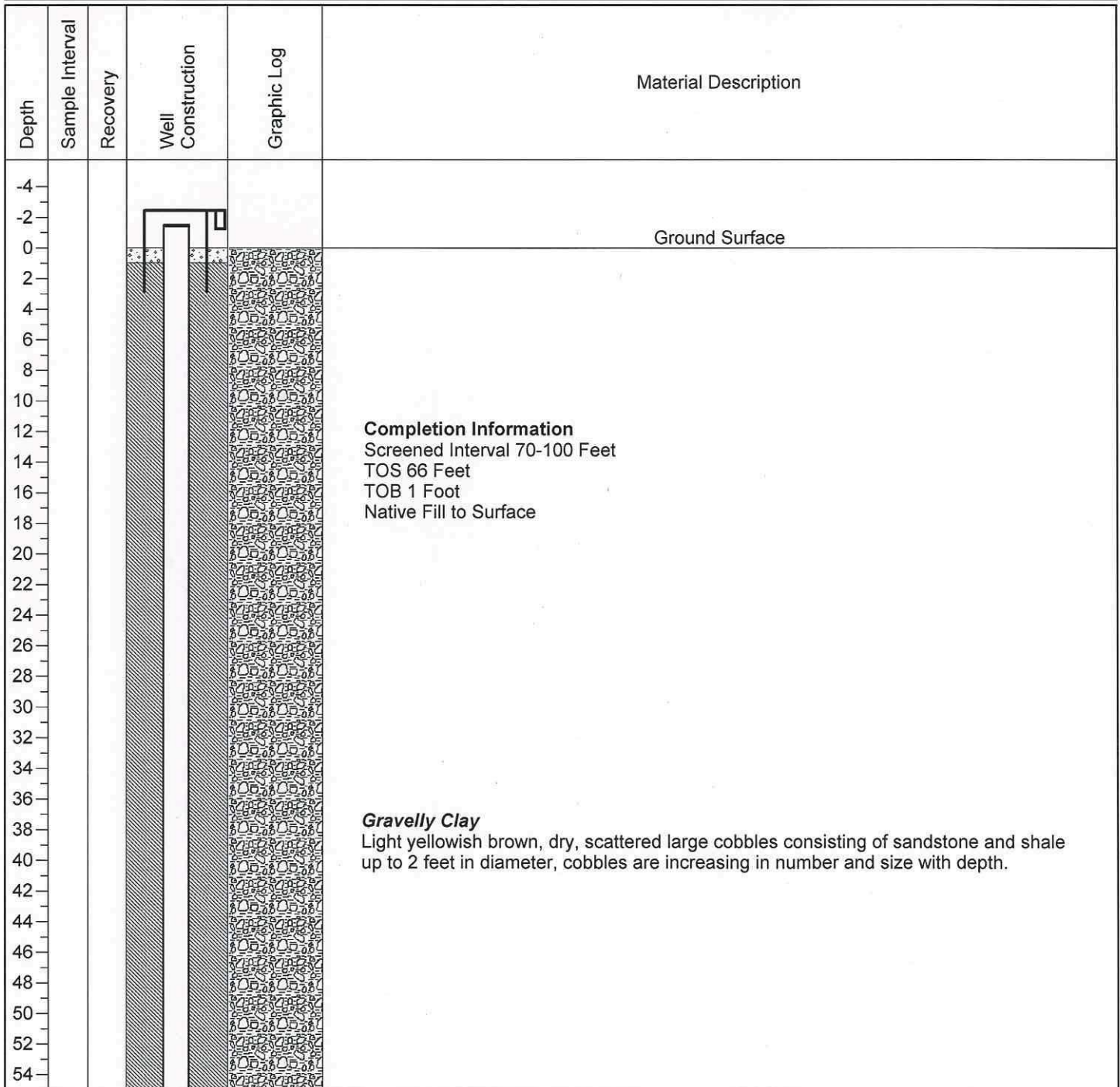
Well Summary

744 Horizon Court, Ste. 140
Grand Junction, CO 81501
970-243-3271

Project: Drilling Pit Sampling
Location: RMV 216-21
Date(s): 9/23/2011
Contractor: Himes Drilling
Rig Type: Schramm T-300
Drilling Method: Air Rotary
Sample Type: Cuttings

Well Name: MW-2
Total Depth: 108 Feet
Elevation TOC: 5419.19 Feet
Elevation Ground: 5416.8 Feet
Latitude: 39.514310
Longitude: -107.894361
Logged By: M.E. Mumby

Page 1 of 2



Well Summary

744 Horizon Court, Ste. 140
Grand Junction, CO 81501
970-243-3271

Project: Drilling Pit Sampling
Location: RMV 216-21
Date(s): 9/23/2011
Contractor: Himes Drilling
Rig Type: Schramm T-300
Drilling Method: Air Rotary
Sample Type: Cuttings

Well Name: MW-2
Total Depth: 108 Feet
Elevation TOC: 5419.19 Feet
Elevation Ground: 5416.8 Feet
Latitude: 39.514310
Longitude: -107.894361
Logged By: M.E. Mumby

Page 2 of 2

Depth	Sample Interval	Recovery	Well Construction	Graphic Log	Material Description
56					
58					
60					
62					
64					
66					
68					
70					
72					
74					
76					
78					
80					
82					
84					Gravels Cobbles Silt/Sand Light yellowish brown, saturated, gravels and cobbles in a clayey silt to silt/sand matrix, gravels consist of both sandstone and shales while the cobbles tend to be composed primarily of sandstone, sand is fine to coarse grained, no visible odors or staining, injecting water at 84 feet, lots of caving below 78 feet, had to set outer casing string at 85 feet, casing was run to 90 feet.
86					
88					
90					
92					
94					
96					
98					
100					Shale (Bedrock) Primarily Shale with interbedded sandstone, dry below 92 feet, Wasatch Fm.
102					
104					
106					
108					
110					
112					

Well Summary

744 Horizon Court, Ste. 140
Grand Junction, CO 81501
970-243-3271

Project: Drilling Pit Sampling

Location: RMV 216-21

Date(s): 9/27/2011

Contractor: Himes Drilling

Rig Type: Schramm T-300

Drilling Method: Air Rotary

Sample Type: Cuttings

Well Name: MW-3

Total Depth: 107 Feet

Elevation TOC: 5417.10 Feet

Elevation Ground: 5415.20 Feet

Latitude: 39.514176

Longitude: -107.893598

Logged By: M.E. Mumby

Page 1 of 2

Depth	Sample Interval	Recovery	Well Construction	Graphic Log	Material Description
-4					
-2					
0					Ground Surface
2					
4					
6					
8					
10					
12					
14					
16					
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					
42					
44					
46					
48					
50					
52					
54					

Completion Information

Screened Interval 70-100 Feet

TOS 67 Feet

TOB 1 Foot

Native Fill to Surface

Gravelly Clay

Light yellowish brown, dry, scattered large cobbles consisting of sandstone and shale up to 2 feet in diameter, cobbles are increasing in number and size with depth.

Well Summary

744 Horizon Court, Ste. 140
Grand Junction, CO 81501
970-243-3271

Project: Drilling Pit Sampling

Location: RMV 216-21

Date(s): 9/27/2011

Contractor: Himes Drilling

Rig Type: Schramm T-300

Drilling Method: Air Rotary

Sample Type: Cuttings

Well Name: MW-3

Total Depth: 107 Feet

Elevation TOC: 5417.10 Feet

Elevation Ground: 5415.20 Feet

Latitude: 39.514176

Longitude: -107.893598

Logged By: M.E. Mumby

Page 2 of 2

Depth	Sample Interval	Recovery	Well Construction	Graphic Log	Material Description
56					
58					
60					
62					
64					
66					
68					
70					
72					
74					
76					
78					
80					
82					
84					
86					
88					
90					
92					
94					
96					
98					
100					
102					
104					
106					
108					
110					
112					

Gravels Cobbles Silt/Sand

Light yellowish brown, saturated, gravels and cobbles in a clayey silt to silt/sand matrix, gravels consist of both sandstone and shales while the cobbles tend to be composed primarily of sandstone, sand is fine to coarse grained, no visible odors or staining, injecting water at 81 feet, having alot of caving below 78 feet, hole did stay open enough to set well, did not have to utilize the outer casing.

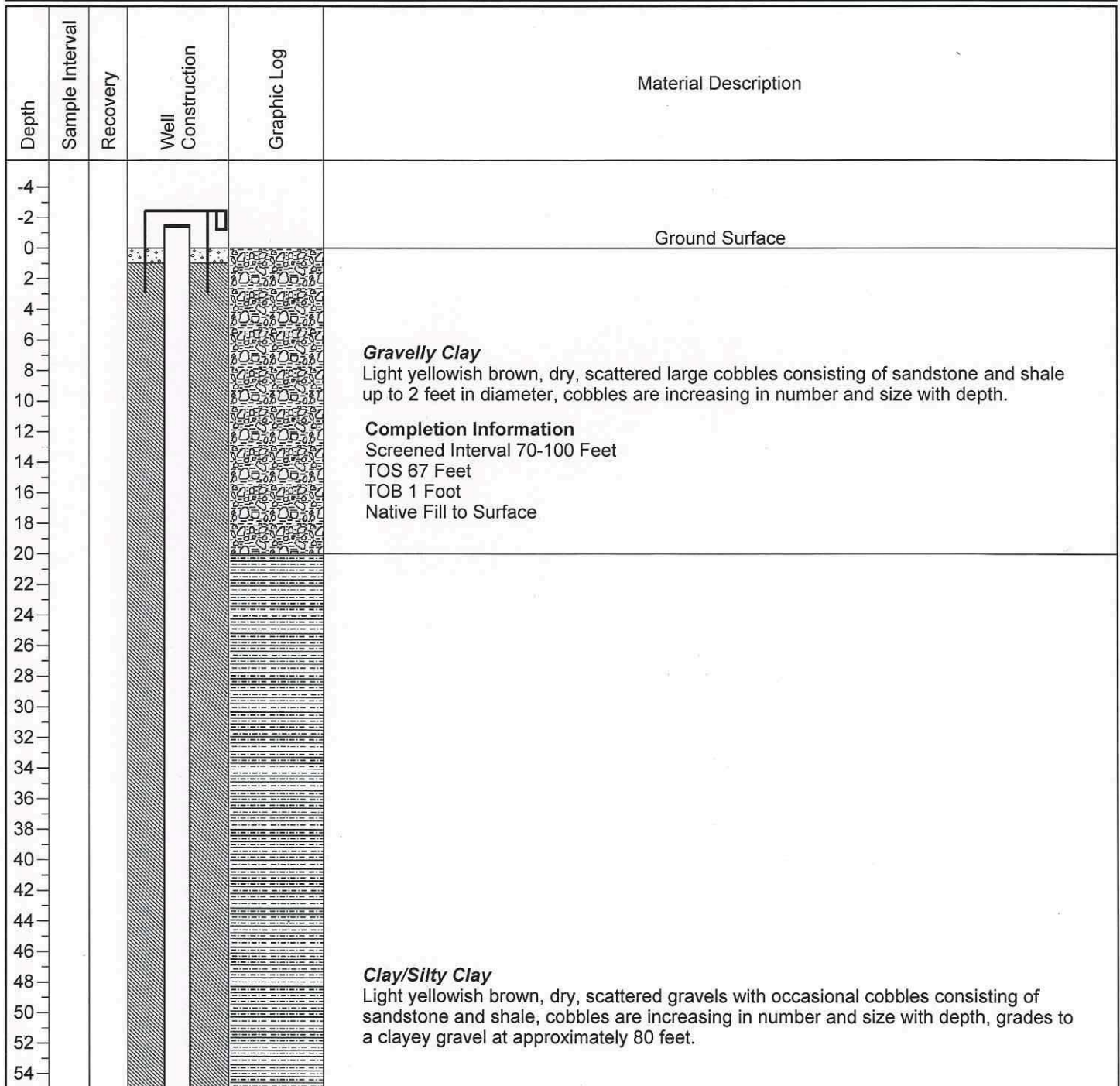
Well Summary

744 Horizon Court, Ste. 140
Grand Junction, CO 81501
970-243-3271

Project: Drilling Pit Sampling
Location: RMV 216-21
Date(s): 9/27/2011
Contractor: Himes Drilling
Rig Type: Schramm T-300
Drilling Method: Air Rotary
Sample Type: Cuttings

Well Name: MW-4
Total Depth: 107 Feet
Elevation TOC: 5412.79 Feet
Elevation Ground: 5410.30 Feet
Latitude: 39.513874
Longitude: -107.894831
Logged By: M.E. Mumby

Page 1 of 2



Well Summary

744 Horizon Court, Ste. 140
Grand Junction, CO 81501
970-243-3271

Project: Drilling Pit Sampling
Location: RMV 216-21
Date(s): 9/27/2011
Contractor: Himes Drilling
Rig Type: Schramm T-300
Drilling Method: Air Rotary
Sample Type: Cuttings

Well Name: MW-4
Total Depth: 107 Feet
Elevation TOC: 5412.79 Feet
Elevation Ground: 5410.30 Feet
Latitude: 39.513874
Longitude: -107.894831
Logged By: M.E. Mumby

Page 2 of 2

Depth	Sample Interval	Recovery	Well Construction	Graphic Log	Material Description
56					
58					
60					
62					
64					
66					
68					
70					
72					
74					
76					
78					
80					
82					<p>Clayey Gravels Cobbles Silt/ Some Sand Light yellowish brown, saturated, gravels and cobbles in a silty clay to silt/sand matrix, gravels consist of both sandstone and shales while the cobbles tend to be composed primarily of sandstone, sand is fine to medium grained, no visible odors or staining, injecting water at 81 feet, well bore is not making much water on it's own, hole did stay open enough to set well, did not have to utilize the outer casing.</p>
84					
86					
88					
90					
92					
94					
96					
98					
100					
102					
104					
106					
108					
110					
112					

Well Summary

744 Horizon Court, Ste. 140
Grand Junction, CO 81501
970-243-3271

Project: Drilling Pit Sampling

Location: RMV 216-21

Date(s): 9/28/2011

Contractor: Himes Drilling

Rig Type: Schramm T-300

Drilling Method: Air Rotary

Sample Type: Cuttings

Well Name: MW-5

Total Depth: 107 Feet

Elevation TOC: 5408.84 Feet

Elevation Ground: 5406.50 Feet

Latitude: 39.513547

Longitude: -107.894514

Logged By: M.E. Mumby

Page 1 of 2

Depth	Sample Interval	Recovery	Well Construction	Graphic Log	Material Description
-4					
-2					
0					Ground Surface
2					
4					
6					
8					
10					
12					
14					
16					
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					
42					
44					
46					
48					
50					
52					
54					

Completion Information

Screened Interval 63-93 Feet

TOS 58 Feet

TOB 1 Foot

Native Fill to Surface

Gravelly Clay

Light yellowish brown, dry, scattered large cobbles consisting of sandstone and shale up to 2 feet in diameter, cobbles are increasing in number and size with depth, becomes very cobbly at 60 feet, hole is caving quite a bit.

Well Summary

744 Horizon Court, Ste. 140
Grand Junction, CO 81501
970-243-3271

Project: Drilling Pit Sampling
Location: RMV 216-21
Date(s): 9/28/2011
Contractor: Himes Drilling
Rig Type: Schramm T-300
Drilling Method: Air Rotary
Sample Type: Cuttings

Well Name: MW-5
Total Depth: 107 Feet
Elevation TOC: 5408.84 Feet
Elevation Ground: 5406.50 Feet
Latitude: 39.513547
Longitude: -107.894514
Logged By: M.E. Mumby

Page 2 of 2

Depth	Sample Interval	Recovery	Well Construction	Graphic Log	Material Description
56					
58					
60					
62					
64					
66					
68					
70					
72					
74					
76					
78					
80					
82					
84					
86					
88					
90					
92					
94					
96					
98					
100					
102					
104					
106					
108					
110					
112					

Gravels Cobbles Silt/Sand

Light yellowish brown, saturated, gravels and cobbles in a clayey silt to silt/sand matrix, gravels consist of both sandstone and shales while the cobbles tend to be composed primarily of sandstone, sand is fine to coarse grained, no visible odors or staining, injecting water at 84 feet, lots of caving below 60 feet, had to set outer casing string at 100 feet, casing was run to 90 feet.

Well Summary

744 Horizon Court, Ste. 140
Grand Junction, CO 81501
970-243-3271

Project: Drilling Pit Sampling

Location: RMV 216-21

Date(s): 9/29/2011

Contractor: Himes Drilling

Rig Type: Schramm T-300

Drilling Method: Air Rotary

Sample Type: Cuttings

Well Name: MW-6

Total Depth: 107 Feet

Elevation TOC: 5408.75 Feet

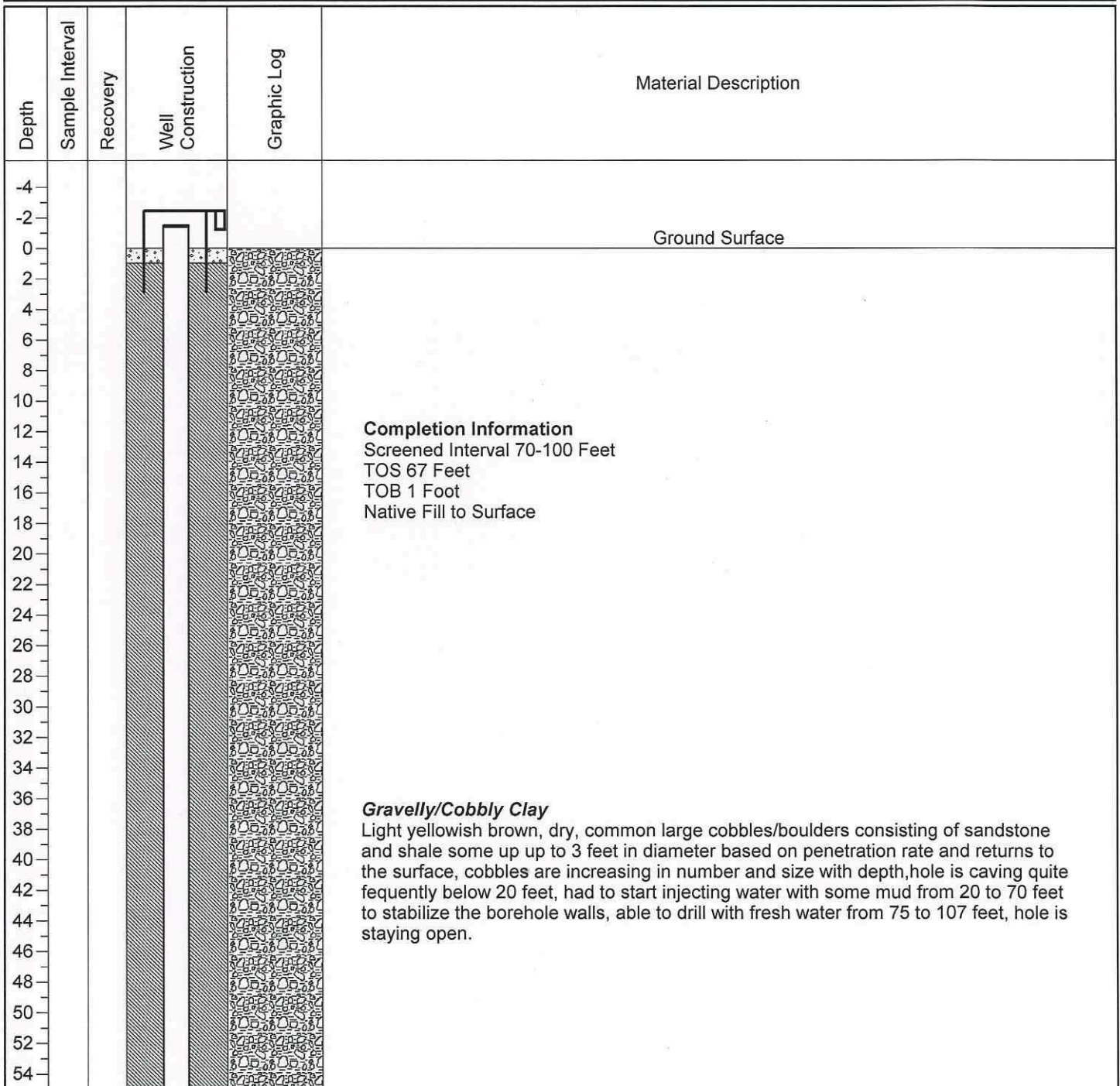
Elevation Ground: 5406.20 Feet

Latitude: 39.513629

Longitude: -107.894068

Logged By: M.E. Mumby

Page 1 of 2



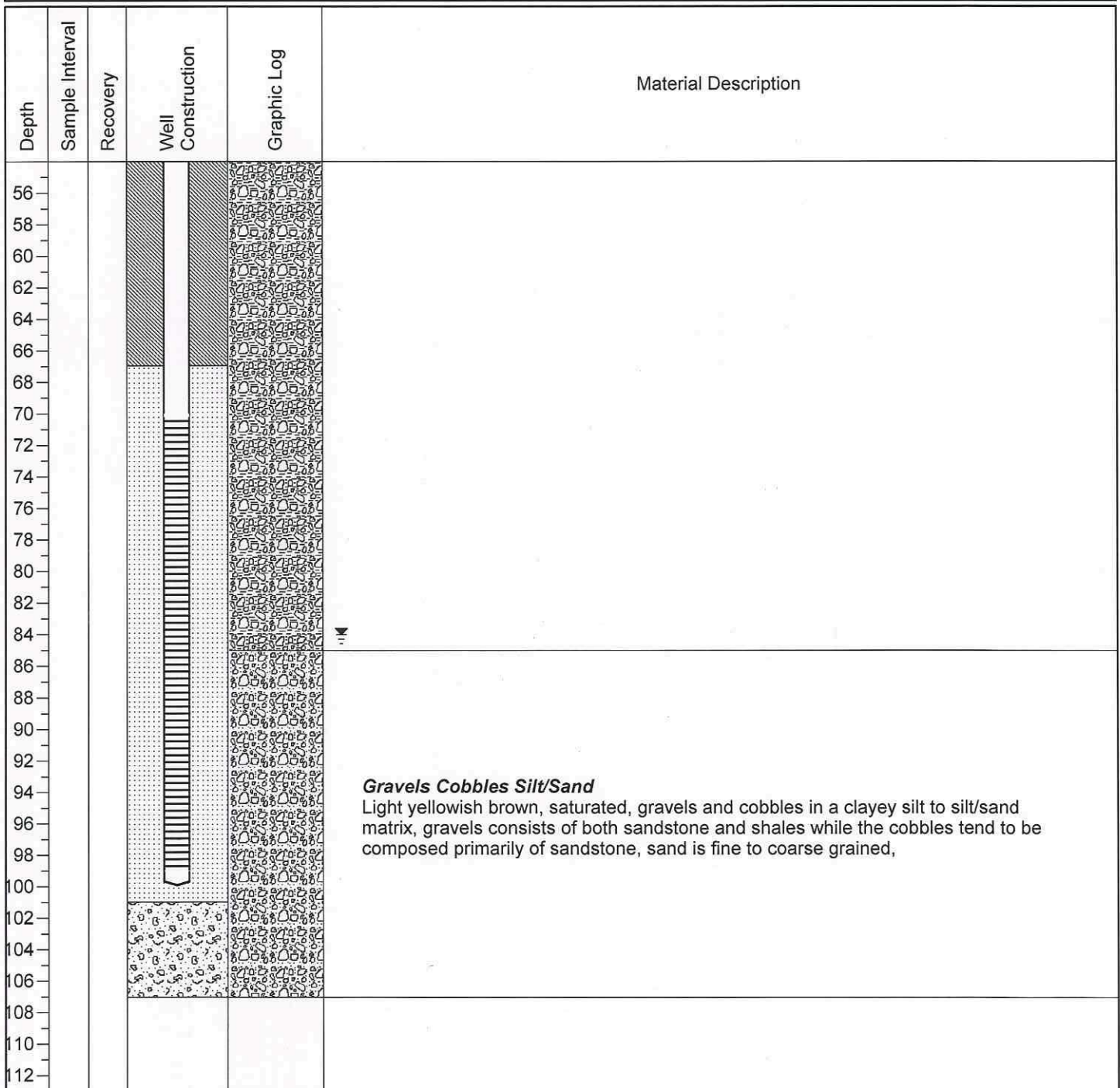
Well Summary

744 Horizon Court, Ste. 140
Grand Junction, CO 81501
970-243-3271

Project: Drilling Pit Sampling
Location: RMV 216-21
Date(s): 9/29/2011
Contractor: Himes Drilling
Rig Type: Schramm T-300
Drilling Method: Air Rotary
Sample Type: Cuttings

Well Name: MW-6
Total Depth: 107 Feet
Elevation TOC: 5408.75 Feet
Elevation Ground: 5406.20 Feet
Latitude: 39.513629
Longitude: -107.894068
Logged By: M.E. Mumby

Page 2 of 2





15-Aug-2011

Mark Mumby
HRL Compliance Solutions
744 Horizon Ct. Suite 140
Grand Junction, CO 81506

Re: **Williams RMU 216-21 Well Pad - 8/5/11**

Work Order: **1108237**

Dear Mark,

ALS Environmental received 1 sample on 06-Aug-2011 11:10 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 9.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Ann Preston".

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: IL100452

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Client: HRL Compliance Solutions
Project: Williams RMU 216-21 Well Pad - 8/5/11
Work Order: 1108237

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1108237-01	RMU 216-21 MW 1	Water		8/5/2011 11:46	8/6/2011 11:10	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: Williams RMU 216-21 Well Pad - 8/5/11
WorkOrder: 1108237

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
TDL	Target Detection Limit

<u>Units Reported</u>	<u>Description</u>
µg/L	Micrograms per Liter

ALS Group USA, Corp**Date:** 15-Aug-11**Client:** HRL Compliance Solutions**Project:** Williams RMU 216-21 Well Pad - 8/5/11**Work Order:** 1108237**Sample ID:** RMU 216-21 MW 1**Lab ID:** 1108237-01**Collection Date:** 8/5/2011 11:46 AM**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: BG
Benzene	1.7		1.0	µg/L	1	8/11/2011 12:59 PM
Ethylbenzene	1.1		1.0	µg/L	1	8/11/2011 12:59 PM
m,p-Xylene	2.2		2.0	µg/L	1	8/11/2011 12:59 PM
o-Xylene	ND		1.0	µg/L	1	8/11/2011 12:59 PM
Toluene	ND		1.0	µg/L	1	8/11/2011 12:59 PM
Xylenes, Total	2.2		2.0	µg/L	1	8/11/2011 12:59 PM
Surr: 1,2-Dichloroethane-d4	94.2		70-120	%REC	1	8/11/2011 12:59 PM
Surr: 4-Bromofluorobenzene	93.6		75-120	%REC	1	8/11/2011 12:59 PM
Surr: Dibromofluoromethane	99.2		85-115	%REC	1	8/11/2011 12:59 PM
Surr: Toluene-d8	97.0		85-120	%REC	1	8/11/2011 12:59 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.



25-Jul-2011

Mark Mumby
HRL Compliance Solutions
744 Horizon Ct. Suite 140
Grand Junction, CO 81506

Re: **RMV 216-21 East Webster Mesa CPOD 7/14/11**

Work Order: **1107395**

Dear Mark,

ALS Environmental received 1 sample on 18-Jul-2011 09:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 18.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Ann Preston".

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: IL100452

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Client: HRL Compliance Solutions
Project: RMV 216-21 East Webster Mesa CPOD 7/14/11
Work Order: 1107395

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1107395-01	MW-1	Water		7/14/2011 10:45	7/18/2011 09:00	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: RMV 216-21 East Webster Mesa CPOD 7/14/11
Work Order: 1107395

Case Narrative

Batch R92546a sample MW-1 MS/MSD recoveries for Calcium, Magnesium and Sodium were above control limits, but the amount of these 3 elements found in the parent sample was greater than 4 times the amount spiked. The MSD recovery for Silver was slightly below control limits, but both the MS recovery and RPD met quality control criteria.

Batch R92356 sample MW-1 MS/MSD recoveries for Chloride, Nitrate, and Sulfate were outside control limits, but the amount of these compounds found in the parent sample was greater than 4 times the amount spiked.

Client: HRL Compliance Solutions
Project: RMV 216-21 East Webster Mesa CPOD 7/14/11
WorkOrder: 1107395

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
TDL	Target Detection Limit

<u>Units Reported</u>	<u>Description</u>
µg/L	Micrograms per Liter
mg/L	Milligrams per Liter

ALS Group USA, Corp

Date: 25-Jul-11

Client: HRL Compliance Solutions

Project: RMV 216-21 East Webster Mesa CPOD 7/14/11

Work Order: 1107395

Sample ID: MW-1

Lab ID: 1107395-01

Collection Date: 7/14/2011 10:45 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RM
GRO (C6-C10)	ND		0.20	mg/L	1	7/22/2011 12:47 PM
Surr: Toluene-d8	102		70-130	%REC	1	7/22/2011 12:47 PM
MERCURY BY CVAA (DISSOLVED)			SW7470		Prep Date: 7/21/2011	Analyst: CES
Mercury	ND		0.00020	mg/L	1	7/21/2011 04:02 PM
METALS BY ICP-MS (DISSOLVED)			SW6020A			Analyst: CES
Antimony	ND		0.0010	mg/L	1	7/23/2011 03:11 AM
Arsenic	0.0018		0.0010	mg/L	1	7/23/2011 03:11 AM
Beryllium	ND		0.0010	mg/L	1	7/23/2011 03:11 AM
Cadmium	ND		0.0020	mg/L	1	7/23/2011 03:11 AM
Calcium	210		5.0	mg/L	10	7/23/2011 02:29 AM
Chromium	ND		0.0050	mg/L	1	7/23/2011 03:11 AM
Copper	ND		0.0040	mg/L	1	7/23/2011 03:11 AM
Iron	ND		0.080	mg/L	1	7/23/2011 03:11 AM
Lead	ND		0.0030	mg/L	1	7/23/2011 03:11 AM
Magnesium	200		2.0	mg/L	10	7/23/2011 02:29 AM
Manganese	0.077		0.0050	mg/L	1	7/23/2011 03:11 AM
Nickel	ND		0.0050	mg/L	1	7/23/2011 03:11 AM
Potassium	5.6		0.20	mg/L	1	7/23/2011 03:11 AM
Selenium	0.036		0.0050	mg/L	1	7/23/2011 03:11 AM
Silver	ND		0.00020	mg/L	1	7/23/2011 03:11 AM
Sodium	400		2.0	mg/L	10	7/23/2011 02:29 AM
Thallium	ND		0.0010	mg/L	1	7/23/2011 03:11 AM
Zinc	ND		0.010	mg/L	1	7/23/2011 03:11 AM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: AK
Benzene	2.2		1.0	µg/L	1	7/20/2011 01:37 PM
Ethylbenzene	1.0		1.0	µg/L	1	7/20/2011 01:37 PM
m,p-Xylene	ND		2.0	µg/L	1	7/20/2011 01:37 PM
o-Xylene	ND		1.0	µg/L	1	7/20/2011 01:37 PM
Toluene	ND		1.0	µg/L	1	7/20/2011 01:37 PM
Xylenes, Total	ND		2.0	µg/L	1	7/20/2011 01:37 PM
Surr: 1,2-Dichloroethane-d4	100		70-120	%REC	1	7/20/2011 01:37 PM
Surr: 4-Bromofluorobenzene	98.8		75-120	%REC	1	7/20/2011 01:37 PM
Surr: Dibromofluoromethane	99.7		85-115	%REC	1	7/20/2011 01:37 PM
Surr: Toluene-d8	103		85-120	%REC	1	7/20/2011 01:37 PM
ANIONS BY ION CHROMATOGRAPHY			SW9056			Analyst: ED
Bromide	1.2		0.10	mg/L	1	7/18/2011 11:55 AM
Chloride	270		100	mg/L	100	7/18/2011 02:03 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp**Date:** 25-Jul-11**Client:** HRL Compliance Solutions**Project:** RMV 216-21 East Webster Mesa CPOD 7/14/11**Work Order:** 1107395**Sample ID:** MW-1**Lab ID:** 1107395-01**Collection Date:** 7/14/2011 10:45 AM**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluoride	0.61		0.10	mg/L	1	7/18/2011 11:55 AM
Nitrogen, Nitrate	29	H	2.0	mg/L	100	7/18/2011 02:03 PM
Nitrogen, Nitrite	0.11	H	0.020	mg/L	1	7/18/2011 11:55 AM
Sulfate	1,400		100	mg/L	100	7/18/2011 02:03 PM
Nitrogen, Nitrate-Nitrite	29		2.0	mg/L	100	7/18/2011 02:03 PM
TOTAL DISSOLVED SOLIDS			A2540 C			Analyst: RD
Total Dissolved Solids	3,800		10	mg/L	1	7/18/2011 03:19 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.



17-Nov-2011

Kris Rowe
HRL Compliance Solutions
744 Horizon Ct. Suite 140
Grand Junction, CO 81506

Re: **Williams RMV 216-21 11/8/11**

Work Order: **1111374**

Dear Kris,

ALS Environmental received 6 samples on 10-Nov-2011 10:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 25.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Ann Preston".

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: IL100452

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Client: HRL Compliance Solutions
Project: Williams RMV 216-21 11/8/11
Work Order: 1111374

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1111374-01	MW-1	Water		11/8/2011 15:55	11/10/2011 10:00	<input type="checkbox"/>
1111374-02	MW-2	Water		11/8/2011 13:35	11/10/2011 10:00	<input type="checkbox"/>
1111374-03	MW-3	Water		11/8/2011 14:05	11/10/2011 10:00	<input type="checkbox"/>
1111374-04	MW-4	Water		11/8/2011 14:35	11/10/2011 10:00	<input type="checkbox"/>
1111374-05	MW-5	Water		11/8/2011 13:05	11/10/2011 10:00	<input type="checkbox"/>
1111374-06	MW-6	Water		11/8/2011 15:30	11/10/2011 10:00	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: Williams RMV 216-21 11/8/11
Work Order: 1111374

Case Narrative

Batch R97511A MS/MSD data for Metals is not related to this project's samples.

Batch R97745 sample MW-2 MS/MSD recoveries for Sulfate were above control limits, however, the result in the parent sample is greater than 4x the spiked amount. No qualification is required for this analyte.

Client: HRL Compliance Solutions
Project: Williams RMV 216-21 11/8/11
WorkOrder: 1111374

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
SD	Serial Dilution
TDL	Target Detection Limit

<u>Units Reported</u>	<u>Description</u>
µg/L	Micrograms per Liter
mg/L	Milligrams per Liter

ALS Group USA, Corp

Date: 17-Nov-11

Client: HRL Compliance Solutions
Project: Williams RMV 216-21 11/8/11
Sample ID: MW-1
Collection Date: 11/8/2011 03:55 PM

Work Order: 1111374
Lab ID: 1111374-01
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: JD
GRO (C6-C10)	ND		0.20	mg/L	1	11/15/2011 05:29 PM
Surr: Toluene-d8	96.2		70-130	%REC	1	11/15/2011 05:29 PM
METALS BY ICP-MS (DISSOLVED)			SW6020A			Analyst: RH
Calcium	220		5.0	mg/L	10	11/11/2011 08:18 AM
Iron	2.4		0.80	mg/L	10	11/11/2011 08:18 AM
Magnesium	170		2.0	mg/L	10	11/11/2011 08:18 AM
Manganese	0.52		0.050	mg/L	10	11/11/2011 08:18 AM
Potassium	7.0		2.0	mg/L	10	11/11/2011 08:18 AM
Sodium	310		2.0	mg/L	10	11/11/2011 08:18 AM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: BG
Benzene	ND		1.0	µg/L	1	11/16/2011 03:32 AM
Ethylbenzene	ND		1.0	µg/L	1	11/16/2011 03:32 AM
m,p-Xylene	ND		2.0	µg/L	1	11/16/2011 03:32 AM
o-Xylene	ND		1.0	µg/L	1	11/16/2011 03:32 AM
Toluene	ND		1.0	µg/L	1	11/16/2011 03:32 AM
Xylenes, Total	ND		3.0	µg/L	1	11/16/2011 03:32 AM
Surr: 1,2-Dichloroethane-d4	98.8		70-120	%REC	1	11/16/2011 03:32 AM
Surr: 4-Bromofluorobenzene	99.5		75-120	%REC	1	11/16/2011 03:32 AM
Surr: Dibromofluoromethane	100		85-115	%REC	1	11/16/2011 03:32 AM
Surr: Toluene-d8	97.3		85-120	%REC	1	11/16/2011 03:32 AM
ANIONS BY ION CHROMATOGRAPHY			SW9056			Analyst: ED
Bromide	ND		0.10	mg/L	1	11/14/2011 11:05 AM
Chloride	18		1.0	mg/L	1	11/14/2011 11:05 AM
Fluoride	0.60		0.10	mg/L	1	11/14/2011 11:05 AM
Sulfate	1,500		100	mg/L	100	11/14/2011 01:48 PM
NITROGEN, NITRITE			A4500-NO2 B			Analyst: MB
Nitrogen, Nitrite	0.10		0.020	mg/L	1	11/10/2011 04:00 PM
NITROGEN, NITRATE			E353.2 R2.0			Analyst: JJG
Nitrogen, Nitrate	32		0.10	mg/L	5	11/11/2011 12:13 PM
NITROGEN, NITRATE-NITRITE			E353.2 R2.0			Analyst: JJG
Nitrogen, Nitrate-Nitrite	32		0.10	mg/L	5	11/11/2011 12:13 PM
TOTAL DISSOLVED SOLIDS			A2540 C			Analyst: EE
Total Dissolved Solids	2,500		10	mg/L	1	11/11/2011 02:50 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 17-Nov-11

Client: HRL Compliance Solutions
Project: Williams RMV 216-21 11/8/11
Sample ID: MW-2
Collection Date: 11/8/2011 01:35 PM

Work Order: 1111374
Lab ID: 1111374-02
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: JD
GRO (C6-C10)	ND		0.20	mg/L	1	11/15/2011 05:54 PM
Surr: Toluene-d8	92.1		70-130	%REC	1	11/15/2011 05:54 PM
METALS BY ICP-MS (DISSOLVED)			SW6020A			Analyst: RH
Calcium	230		5.0	mg/L	10	11/11/2011 08:23 AM
Iron	2.3		0.80	mg/L	10	11/11/2011 08:23 AM
Magnesium	180		2.0	mg/L	10	11/11/2011 08:23 AM
Manganese	ND		0.050	mg/L	10	11/11/2011 08:23 AM
Potassium	6.6		2.0	mg/L	10	11/11/2011 08:23 AM
Sodium	320		2.0	mg/L	10	11/11/2011 08:23 AM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: BG
Benzene	ND		1.0	µg/L	1	11/16/2011 03:57 AM
Ethylbenzene	ND		1.0	µg/L	1	11/16/2011 03:57 AM
m,p-Xylene	ND		2.0	µg/L	1	11/16/2011 03:57 AM
o-Xylene	ND		1.0	µg/L	1	11/16/2011 03:57 AM
Toluene	ND		1.0	µg/L	1	11/16/2011 03:57 AM
Xylenes, Total	ND		3.0	µg/L	1	11/16/2011 03:57 AM
Surr: 1,2-Dichloroethane-d4	99.2		70-120	%REC	1	11/16/2011 03:57 AM
Surr: 4-Bromofluorobenzene	99.9		75-120	%REC	1	11/16/2011 03:57 AM
Surr: Dibromofluoromethane	101		85-115	%REC	1	11/16/2011 03:57 AM
Surr: Toluene-d8	97.6		85-120	%REC	1	11/16/2011 03:57 AM
ANIONS BY ION CHROMATOGRAPHY			SW9056			Analyst: ED
Bromide	ND		0.10	mg/L	1	11/14/2011 11:25 AM
Chloride	17		1.0	mg/L	1	11/14/2011 11:25 AM
Fluoride	0.62		0.10	mg/L	1	11/14/2011 11:25 AM
Sulfate	1,400		100	mg/L	100	11/14/2011 03:13 PM
NITROGEN, NITRITE			A4500-NO2 B			Analyst: MB
Nitrogen, Nitrite	ND		0.020	mg/L	1	11/10/2011 04:00 PM
NITROGEN, NITRATE			E353.2 R2.0			Analyst: JJG
Nitrogen, Nitrate	21		0.10	mg/L	5	11/11/2011 12:13 PM
NITROGEN, NITRATE-NITRITE			E353.2 R2.0			Analyst: JJG
Nitrogen, Nitrate-Nitrite	22		0.10	mg/L	5	11/11/2011 12:13 PM
TOTAL DISSOLVED SOLIDS			A2540 C			Analyst: EE
Total Dissolved Solids	2,700		10	mg/L	1	11/11/2011 02:50 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 17-Nov-11

Client: HRL Compliance Solutions
Project: Williams RMV 216-21 11/8/11
Sample ID: MW-3
Collection Date: 11/8/2011 02:05 PM

Work Order: 1111374
Lab ID: 1111374-03
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: JD
GRO (C6-C10)	ND		0.20	mg/L	1	11/15/2011 06:20 PM
Surr: Toluene-d8	97.2		70-130	%REC	1	11/15/2011 06:20 PM
METALS BY ICP-MS (DISSOLVED)			SW6020A			Analyst: RH
Calcium	230		5.0	mg/L	10	11/11/2011 08:28 AM
Iron	2.1		0.80	mg/L	10	11/11/2011 08:28 AM
Magnesium	180		2.0	mg/L	10	11/11/2011 08:28 AM
Manganese	0.18		0.050	mg/L	10	11/11/2011 08:28 AM
Potassium	6.4		2.0	mg/L	10	11/11/2011 08:28 AM
Sodium	330		2.0	mg/L	10	11/11/2011 08:28 AM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: BG
Benzene	ND		1.0	µg/L	1	11/16/2011 04:22 AM
Ethylbenzene	ND		1.0	µg/L	1	11/16/2011 04:22 AM
m,p-Xylene	ND		2.0	µg/L	1	11/16/2011 04:22 AM
o-Xylene	ND		1.0	µg/L	1	11/16/2011 04:22 AM
Toluene	ND		1.0	µg/L	1	11/16/2011 04:22 AM
Xylenes, Total	ND		3.0	µg/L	1	11/16/2011 04:22 AM
Surr: 1,2-Dichloroethane-d4	100		70-120	%REC	1	11/16/2011 04:22 AM
Surr: 4-Bromofluorobenzene	99.9		75-120	%REC	1	11/16/2011 04:22 AM
Surr: Dibromofluoromethane	101		85-115	%REC	1	11/16/2011 04:22 AM
Surr: Toluene-d8	98.0		85-120	%REC	1	11/16/2011 04:22 AM
ANIONS BY ION CHROMATOGRAPHY			SW9056			Analyst: ED
Bromide	ND		0.10	mg/L	1	11/14/2011 11:46 AM
Chloride	32		1.0	mg/L	1	11/14/2011 11:46 AM
Fluoride	0.56		0.10	mg/L	1	11/14/2011 11:46 AM
Sulfate	1,400		100	mg/L	100	11/14/2011 02:08 PM
NITROGEN, NITRITE			A4500-NO2 B			Analyst: MB
Nitrogen, Nitrite	0.12		0.020	mg/L	1	11/10/2011 04:00 PM
NITROGEN, NITRATE			E353.2 R2.0			Analyst: JJG
Nitrogen, Nitrate	54		0.20	mg/L	10	11/11/2011 12:13 PM
NITROGEN, NITRATE-NITRITE			E353.2 R2.0			Analyst: JJG
Nitrogen, Nitrate-Nitrite	57		0.20	mg/L	10	11/11/2011 12:13 PM
TOTAL DISSOLVED SOLIDS			A2540 C			Analyst: EE
Total Dissolved Solids	2,700		10	mg/L	1	11/11/2011 02:50 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 17-Nov-11

Client: HRL Compliance Solutions
Project: Williams RMV 216-21 11/8/11
Sample ID: MW-4
Collection Date: 11/8/2011 02:35 PM

Work Order: 1111374
Lab ID: 1111374-04
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: JD
GRO (C6-C10)	ND		0.20	mg/L	1	11/15/2011 06:45 PM
Surr: Toluene-d8	102		70-130	%REC	1	11/15/2011 06:45 PM
METALS BY ICP-MS (DISSOLVED)			SW6020A			Analyst: RH
Calcium	210		5.0	mg/L	10	11/11/2011 08:33 AM
Iron	0.90		0.80	mg/L	10	11/11/2011 08:33 AM
Magnesium	240		2.0	mg/L	10	11/11/2011 08:33 AM
Manganese	0.086		0.050	mg/L	10	11/11/2011 08:33 AM
Potassium	5.3		2.0	mg/L	10	11/11/2011 08:33 AM
Sodium	470		2.0	mg/L	10	11/11/2011 08:33 AM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: BG
Benzene	ND		1.0	µg/L	1	11/16/2011 04:47 AM
Ethylbenzene	ND		1.0	µg/L	1	11/16/2011 04:47 AM
m,p-Xylene	ND		2.0	µg/L	1	11/16/2011 04:47 AM
o-Xylene	ND		1.0	µg/L	1	11/16/2011 04:47 AM
Toluene	ND		1.0	µg/L	1	11/16/2011 04:47 AM
Xylenes, Total	ND		3.0	µg/L	1	11/16/2011 04:47 AM
Surr: 1,2-Dichloroethane-d4	99.4		70-120	%REC	1	11/16/2011 04:47 AM
Surr: 4-Bromofluorobenzene	98.5		75-120	%REC	1	11/16/2011 04:47 AM
Surr: Dibromofluoromethane	101		85-115	%REC	1	11/16/2011 04:47 AM
Surr: Toluene-d8	98.0		85-120	%REC	1	11/16/2011 04:47 AM
ANIONS BY ION CHROMATOGRAPHY			SW9056			Analyst: ED
Bromide	1.1		0.10	mg/L	1	11/14/2011 12:06 PM
Chloride	360		100	mg/L	100	11/14/2011 04:13 PM
Fluoride	0.58		0.10	mg/L	1	11/14/2011 12:06 PM
Sulfate	1,500		100	mg/L	100	11/14/2011 04:13 PM
NITROGEN, NITRITE			A4500-NO2 B			Analyst: MB
Nitrogen, Nitrite	0.041		0.020	mg/L	1	11/10/2011 04:00 PM
NITROGEN, NITRATE			E353.2 R2.0			Analyst: JJG
Nitrogen, Nitrate	36		0.10	mg/L	5	11/11/2011 12:13 PM
NITROGEN, NITRATE-NITRITE			E353.2 R2.0			Analyst: JJG
Nitrogen, Nitrate-Nitrite	36		0.10	mg/L	5	11/11/2011 12:13 PM
TOTAL DISSOLVED SOLIDS			A2540 C			Analyst: EE
Total Dissolved Solids	3,300		10	mg/L	1	11/11/2011 02:50 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 17-Nov-11

Client: HRL Compliance Solutions
Project: Williams RMV 216-21 11/8/11
Sample ID: MW-5
Collection Date: 11/8/2011 01:05 PM

Work Order: 1111374
Lab ID: 1111374-05
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: JD
GRO (C6-C10)	ND		0.20	mg/L	1	11/15/2011 07:10 PM
Surr: Toluene-d8	98.4		70-130	%REC	1	11/15/2011 07:10 PM
METALS BY ICP-MS (DISSOLVED)			SW6020A			Analyst: RH
Calcium	310		5.0	mg/L	10	11/11/2011 08:38 AM
Iron	2.3		0.80	mg/L	10	11/11/2011 08:38 AM
Magnesium	360		2.0	mg/L	10	11/11/2011 08:38 AM
Manganese	0.49		0.050	mg/L	10	11/11/2011 08:38 AM
Potassium	7.6		2.0	mg/L	10	11/11/2011 08:38 AM
Sodium	900		2.0	mg/L	10	11/11/2011 08:38 AM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: BG
Benzene	28		1.0	µg/L	1	11/16/2011 05:12 AM
Ethylbenzene	ND		1.0	µg/L	1	11/16/2011 05:12 AM
m,p-Xylene	ND		2.0	µg/L	1	11/16/2011 05:12 AM
o-Xylene	ND		1.0	µg/L	1	11/16/2011 05:12 AM
Toluene	ND		1.0	µg/L	1	11/16/2011 05:12 AM
Xylenes, Total	ND		3.0	µg/L	1	11/16/2011 05:12 AM
Surr: 1,2-Dichloroethane-d4	99.1		70-120	%REC	1	11/16/2011 05:12 AM
Surr: 4-Bromofluorobenzene	98.9		75-120	%REC	1	11/16/2011 05:12 AM
Surr: Dibromofluoromethane	99.7		85-115	%REC	1	11/16/2011 05:12 AM
Surr: Toluene-d8	97.2		85-120	%REC	1	11/16/2011 05:12 AM
ANIONS BY ION CHROMATOGRAPHY			SW9056			Analyst: ED
Bromide	4.6		0.10	mg/L	1	11/14/2011 12:26 PM
Chloride	1,300		100	mg/L	100	11/14/2011 04:33 PM
Fluoride	0.60		0.10	mg/L	1	11/14/2011 12:26 PM
Sulfate	1,800		100	mg/L	100	11/14/2011 04:33 PM
NITROGEN, NITRITE			A4500-NO2 B			Analyst: MB
Nitrogen, Nitrite	9.5		1.0	mg/L	50	11/10/2011 04:00 PM
NITROGEN, NITRATE			E353.2 R2.0			Analyst: JJG
Nitrogen, Nitrate	39		0.20	mg/L	10	11/11/2011 12:13 PM
NITROGEN, NITRATE-NITRITE			E353.2 R2.0			Analyst: JJG
Nitrogen, Nitrate-Nitrite	51		0.20	mg/L	10	11/11/2011 12:13 PM
TOTAL DISSOLVED SOLIDS			A2540 C			Analyst: EE
Total Dissolved Solids	5,500		10	mg/L	1	11/11/2011 02:50 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 17-Nov-11

Client: HRL Compliance Solutions
Project: Williams RMV 216-21 11/8/11
Sample ID: MW-6
Collection Date: 11/8/2011 03:30 PM

Work Order: 1111374
Lab ID: 1111374-06
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: JD
GRO (C6-C10)	ND		0.20	mg/L	1	11/15/2011 07:35 PM
Surr: Toluene-d8	98.2		70-130	%REC	1	11/15/2011 07:35 PM
METALS BY ICP-MS (DISSOLVED)			SW6020A			Analyst: RH
Calcium	220		5.0	mg/L	10	11/11/2011 08:43 AM
Iron	ND		0.80	mg/L	10	11/11/2011 08:43 AM
Magnesium	210		2.0	mg/L	10	11/11/2011 08:43 AM
Manganese	0.26		0.050	mg/L	10	11/11/2011 08:43 AM
Potassium	5.4		2.0	mg/L	10	11/11/2011 08:43 AM
Sodium	420		2.0	mg/L	10	11/11/2011 08:43 AM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: BG
Benzene	1.3		1.0	µg/L	1	11/16/2011 05:37 AM
Ethylbenzene	ND		1.0	µg/L	1	11/16/2011 05:37 AM
m,p-Xylene	ND		2.0	µg/L	1	11/16/2011 05:37 AM
o-Xylene	ND		1.0	µg/L	1	11/16/2011 05:37 AM
Toluene	ND		1.0	µg/L	1	11/16/2011 05:37 AM
Xylenes, Total	ND		3.0	µg/L	1	11/16/2011 05:37 AM
Surr: 1,2-Dichloroethane-d4	100		70-120	%REC	1	11/16/2011 05:37 AM
Surr: 4-Bromofluorobenzene	98.3		75-120	%REC	1	11/16/2011 05:37 AM
Surr: Dibromofluoromethane	103		85-115	%REC	1	11/16/2011 05:37 AM
Surr: Toluene-d8	98.0		85-120	%REC	1	11/16/2011 05:37 AM
ANIONS BY ION CHROMATOGRAPHY			SW9056			Analyst: ED
Bromide	0.70		0.10	mg/L	1	11/14/2011 12:46 PM
Chloride	260		100	mg/L	100	11/14/2011 04:53 PM
Fluoride	0.62		0.10	mg/L	1	11/14/2011 12:46 PM
Sulfate	1,400		100	mg/L	100	11/14/2011 04:53 PM
NITROGEN, NITRITE			A4500-NO2 B			Analyst: MB
Nitrogen, Nitrite	0.29		0.020	mg/L	1	11/10/2011 04:00 PM
NITROGEN, NITRATE			E353.2 R2.0			Analyst: JJG
Nitrogen, Nitrate	30		0.10	mg/L	5	11/11/2011 12:13 PM
NITROGEN, NITRATE-NITRITE			E353.2 R2.0			Analyst: JJG
Nitrogen, Nitrate-Nitrite	32		0.10	mg/L	5	11/11/2011 12:13 PM
TOTAL DISSOLVED SOLIDS			A2540 C			Analyst: EE
Total Dissolved Solids	3,000		10	mg/L	1	11/11/2011 02:50 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.