

DISCLAIMER: This Geographic Information System (GIS) and its components are designed as a source of reference for answering inquiries, for planning and for modeling. GIS is not intended, nor does it replace legal description information in the chain of title and other information contained in official government records such as the County Clerk and Records office or the courts. In addition, the representations of locations in this GIS cannot be substituted for actual legal surveys.

2nd Qtr 2014 Potentiometric Map  
**Location: Clough 14-22**  
 39.507060 -107.878716  
 WPX Energy

- |                      |                                |
|----------------------|--------------------------------|
| Upgradient Well      | <b>Transportation Features</b> |
| Downgradient Well    | Public Roads                   |
| Potentiometric Lines | Access Roads                   |
| Excavated Area       | <b>Hydrographic Features</b>   |
| <b>PLSS</b>          | Perennial Stream               |
| Township             | Intermittent Stream            |
| Section              |                                |





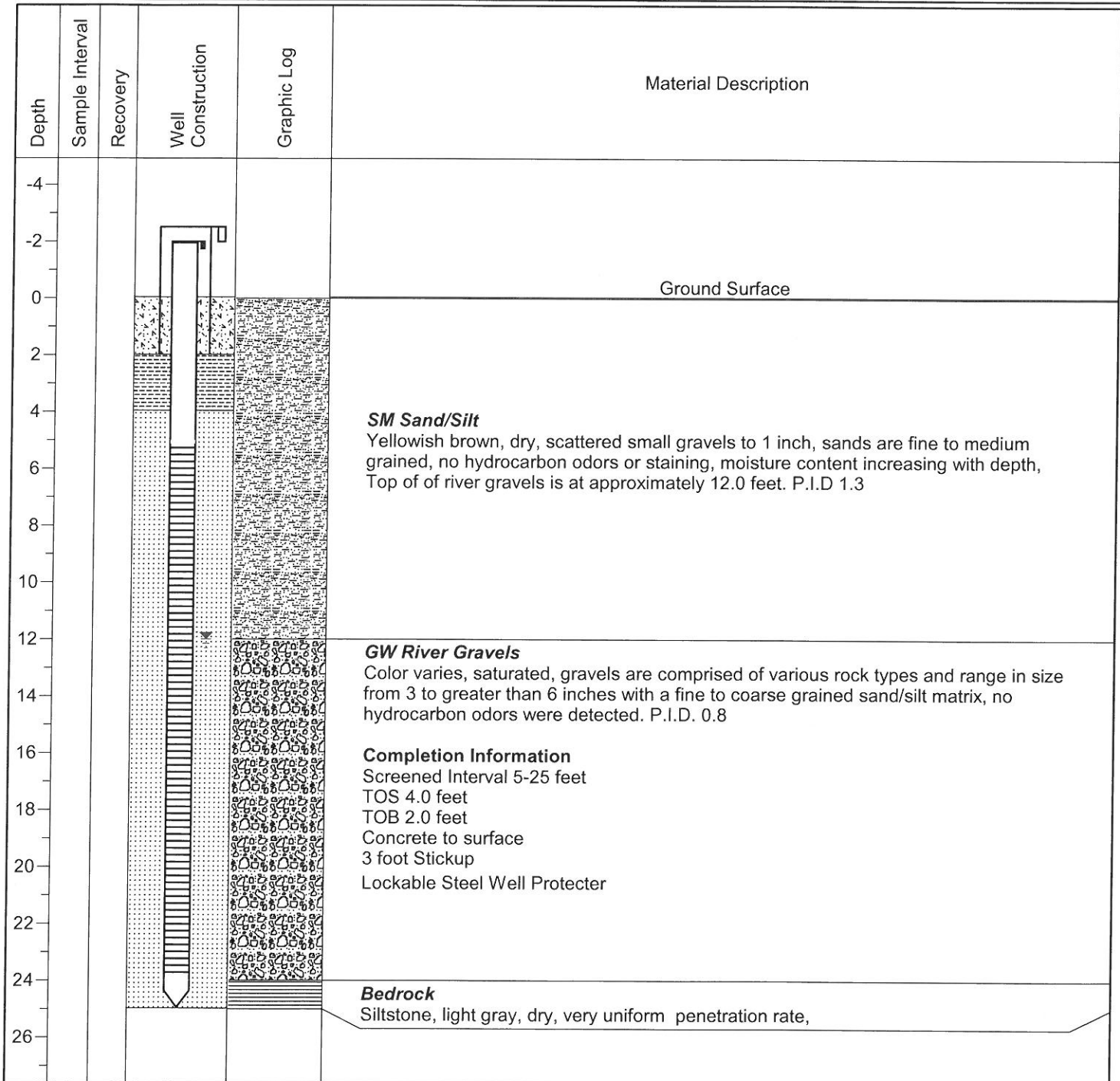
**HCSI**  
DRILLING SERVICES-REPAIRS-TOOL SERVICES

### Well Summary

2385 F 1/2 Road  
Grand Junction, CO 81507  
970-243-3271

**Project:** Clough 14-22MV  
**Location:** Clough 14-22MV Well PAD  
**Date(s):** 6/16/2014  
**Contractor:** D.A. Smith Crilling  
**Rig Type:** Simco 9100  
**Drilling Method:** Air Rotary/ODEX  
**Sample Type:** Cuttings

**Well Name:** MW-1  
**Total Depth:** 25 Feet  
**Elevation TOC:** 5233.62  
**Elevation Ground:** 5231.04  
**Latitude:** 39.507224N  
**Longitude:** -107.878414W  
**Logged By:** M.E. Mumby





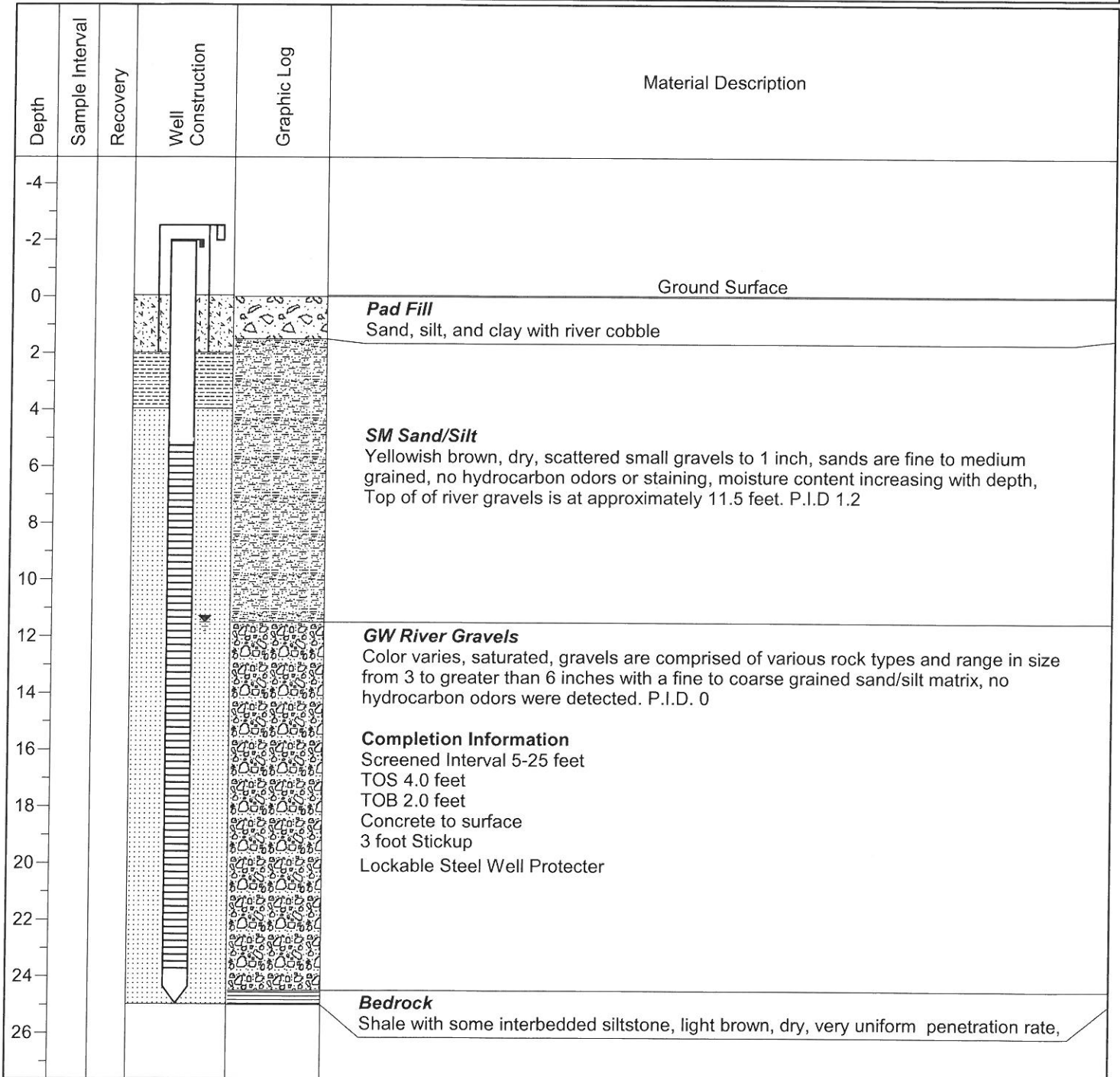
**HCSI**  
DRILLING SERVICES • GRAND JUNCTION, COLORADO

**Well Summary**

2385 F 1/2 Road  
Grand Junction, CO 81507  
970-243-3271

**Project:** Clough 14-22MV  
**Location:** Clough 14-22MV Well PAD  
**Date(s):** 6/16/2014  
**Contractor:** D.A. Smith Crilling  
**Rig Type:** Simco 9100  
**Drilling Method:** Air Rotary/ODEX  
**Sample Type:** Cuttings

**Well Name:** MW-2  
**Total Depth:** 25 Feet  
**Elevation TOC:** 5233.51  
**Elevation Ground:** 5231.22  
**Latitude:** 39.506996N  
**Longitude:** -107.878418W  
**Logged By:** M.E. Mumby





**HCSI**  
DRILLING SERVICES-GRAND JUNCTION COLORADO

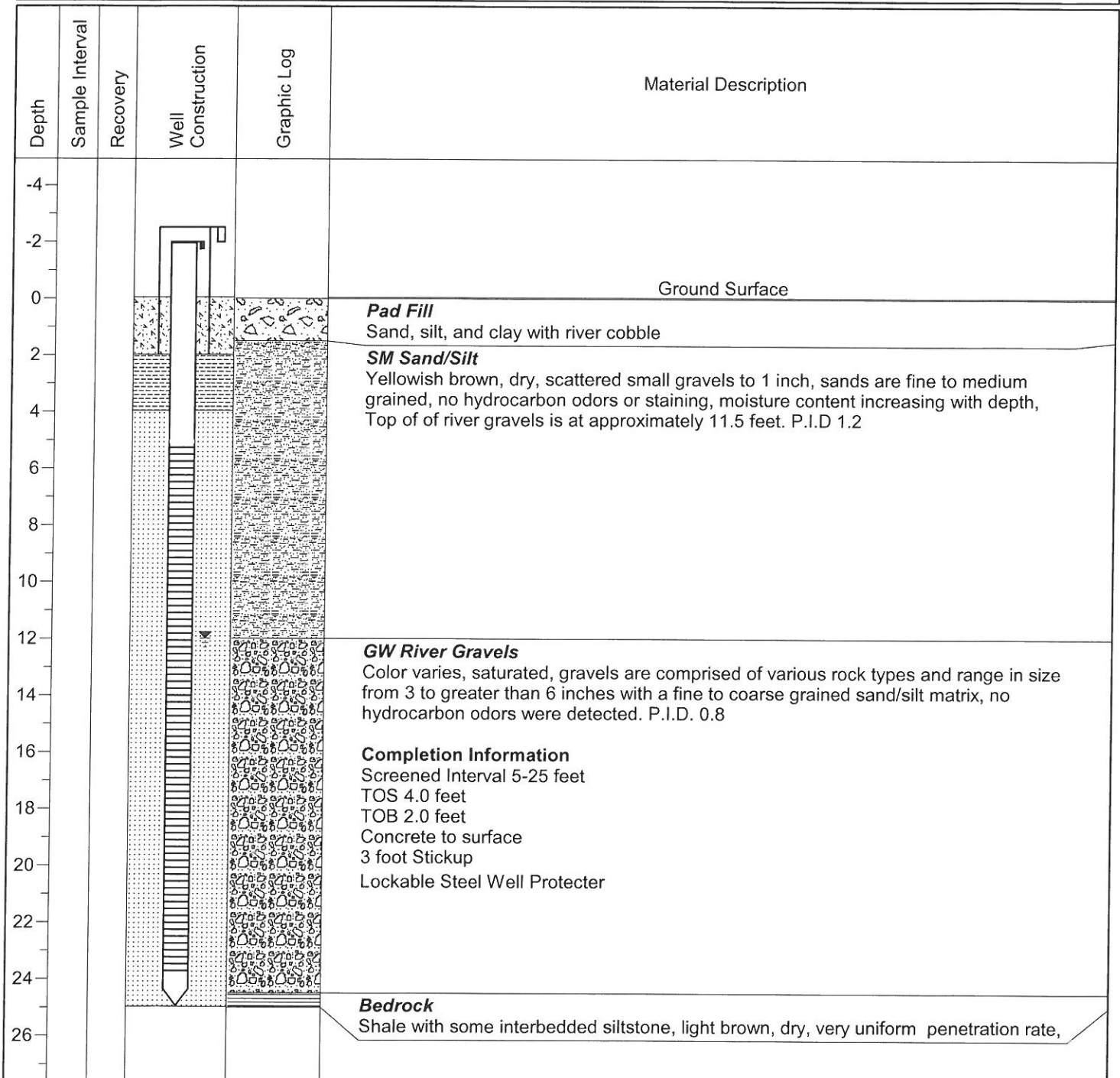
## Well Summary

2385 F 1/2 Road  
Grand Junction, CO 81507  
970-243-3271

**Project:** Clough 14-22MV  
**Location:** Clough 14-22MV Well PAD  
**Date(s):** 6/16/2014  
**Contractor:** D.A. Smith Crilling  
**Rig Type:** Simco 9100  
**Drilling Method:** Air Rotary/ODEX  
**Sample Type:** Cuttings

**Well Name:** MW-3  
**Total Depth:** 25 Feet  
**Elevation TOC:** 5233.76  
**Elevation Ground:** 5231.55  
**Latitude:** 39.506931N  
**Longitude:** -107.878584W  
**Logged By:** M.E. Mumby

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**HCSI**  
DRILLING SERVICES • GEOTECHNICAL SERVICES

## Well Summary

2385 F 1/2 Road  
 Grand Junction, CO 81507  
 970-243-3271

**Project:** Clough 14-22MV  
**Location:** Clough 14-22MV Well PAD  
**Date(s):** 6/17/2014  
**Contractor:** D.A. Smith Crilling  
**Rig Type:** Simco 9100  
**Drilling Method:** Air Rotary/ODEX  
**Sample Type:** Cuttings

**Well Name:** MW-4  
**Total Depth:** 25 Feet  
**Elevation TOC:** 5233.93  
**Elevation Ground:** 5231.23  
**Latitude:** 39.506822N  
**Longitude:** -107.878726W  
**Logged By:** M.E. Mumby

Depth	Sample Interval	Recovery	Well Construction	Graphic Log	Material Description
-4					
-2					
0					Ground Surface
2					<b>Pad Fill</b> Sand, silt, and clay with abundant river cobble
4					
6					<b>SM Sand/Silt</b> Yellowish brown, dry, scattered small gravels to 1 inch, sands are fine to medium grained, no hydrocarbon odors or staining, moisture content increasing with depth, Top of of river gravels is at approximately 11.5 feet. P.I.D 1.2
8					
10					
12					
14					<b>GW River Gravels</b> Color varies, saturated, gravels are comprised of various rock types and range in size from 3 to greater than 6 inches with a fine to coarse grained sand/silt matrix, silt content is increasing, no hydrocarbon odors were detected. P.I.D. 0
16					
18					<b>Completion Information</b> Screened Interval 5-25 feet TOS 4.0 feet TOB 2.0 feet Concrete to surface 3 foot Stickup Lockable Steel Well Protector
20					
22					
24					
26					



**HCSI**  
DRILLING SERVICE TO THE GRAND JUNCTION AREA

## Well Summary

2385 F 1/2 Road  
Grand Junction, CO 81507  
970-243-3271

**Project:** Clough 14-22MV  
**Location:** Clough 14-22MV Well PAD  
**Date(s):** 6/17/2014  
**Contractor:** D.A. Smith Drilling  
**Rig Type:** Simco 9100  
**Drilling Method:** Air Rotary/ODEX  
**Sample Type:** Cuttings

**Well Name:** MW-5  
**Total Depth:** 25 Feet  
**Elevation TOC:** 5234.02  
**Elevation Ground:** 5231.56  
**Latitude:** 39.506865N  
**Longitude:** -107.878957W  
**Logged By:** M.E. Mumby

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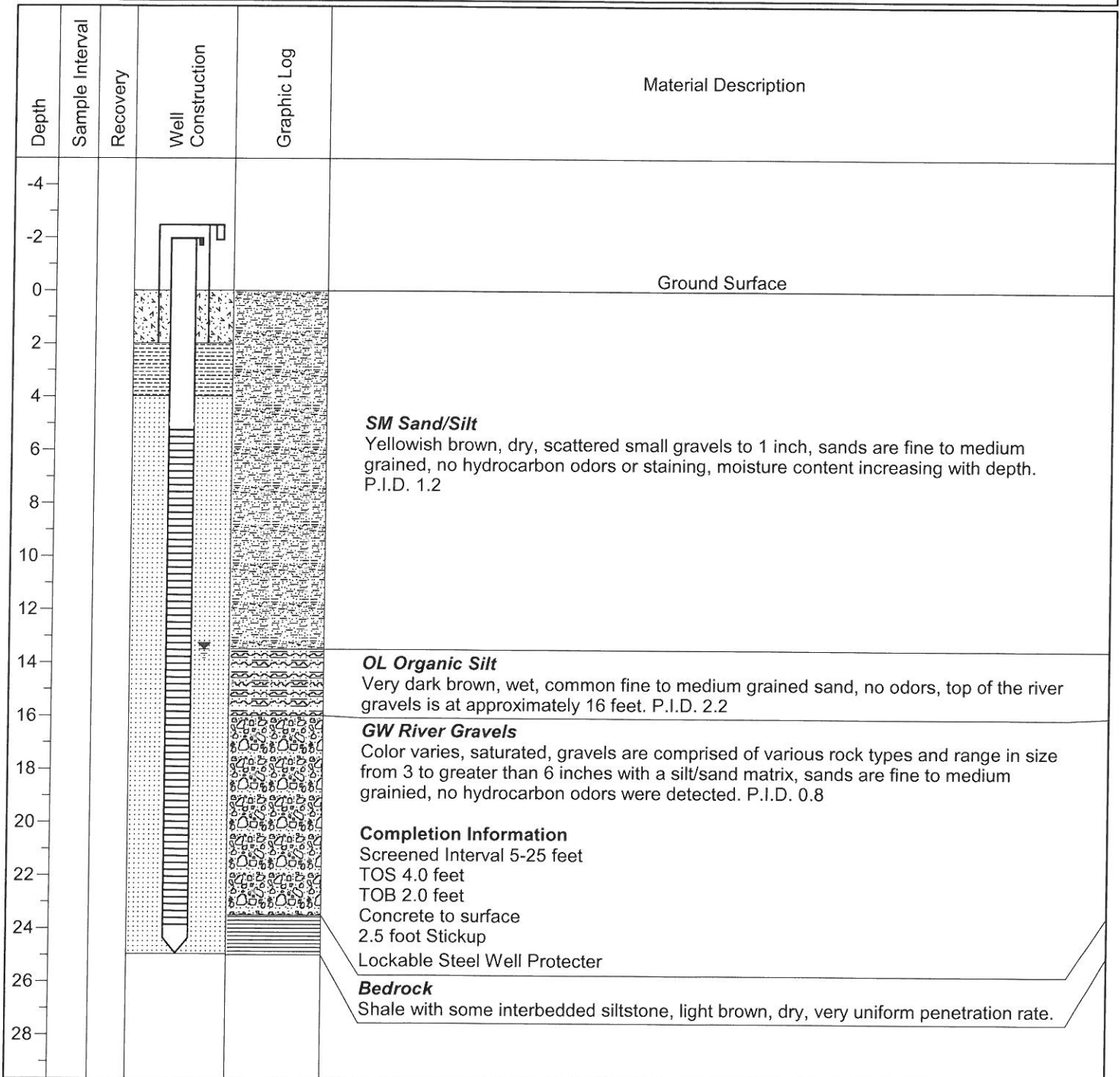


Table 1

Clough 14-22 MV Groundwater Analytical Results

Sample ID:		COGCC Table 910-1 Standards	MW 1 (Background)	MW2	MW 3	MW 4	MW 5
Date Sampled:			6/26/2014	6/26/2014	6/26/2014	6/26/2014	6/26/2014
Depth to Water (ft.)			18.09	18.03	18.35	18.55	18.65
<b>GC/MS Volatiles (SW846 8260B)</b>							
Benzene	ug/l	5 ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	ug/l	700 ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	ug/l	560 ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Xylene (total)	ug/l	1400 ug/l	<3.0	<3.0	<3.0	<3.0	<3.0
<b>Metals Analysis</b>							
Calcium	mg/l		490	460	500	540	450
Iron	mg/l		<0.8	<0.8	<0.8	<0.8	<0.8
Magnesium	mg/l		710	670	850	950	860
Manganese	mg/l		0.53	0.13	1.4	3	1.5
Potassium	mg/l		13	15	15	14	20
Selenium	mg/l		<0.05	<0.05	<0.05	<0.05	<0.05
Sodium	mg/l		4100	3800	4600	4900	5100
<b>General Chemistry</b>							
Alkalinity, Bicarbonate as CaCO3	mg/l		750	700	780	840	620
Alkalinity, Carbonate	mg/l		<10	<10	<10	<10	<10
Alkalinity, Total as CaCO3	mg/l		750	700	780	840	620
Nitrogen, Nitrate	mg/l		<0.02	0.03	<0.02	<0.02	<0.02
Nitrogen, Nitrite	mg/l		<0.02	<0.02	<0.02	<0.02	<0.02
Chloride	mg/l	1.25 x bkgd	3000	3000	3900	4600	4100
Sulfate	mg/l	1.25 x bkgd	8100	7500	9300	9500	11000
TDS	mg/l	1.25 x bkgd	17000	16000	2100	22000	20000
pH			7.06	7.15	7.04	6.91	7.44



08-Jul-2014

Mark Mumby  
HRL Compliance Solutions, Inc  
2385 F 1/2 Road  
Grand Junction, CO 81505

Re: **WPX Clough 14-22 MW 6.26.14**

Work Order: **14061482**

Dear Mark,

ALS Environmental received 6 samples on 27-Jun-2014 09:30 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.

Sample results are compliant with NELAP standard requirements and QC results achieved 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 26.

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: Chad Whelton

Ann Preston  
Project Manager



Certificate No: MN 532786

### Report of Laboratory Analysis

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental ALS Environmental logo icon consisting of a small blue triangle with a yellow flame.

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER

**Client:** HRL Compliance Solutions, Inc  
**Project:** WPX Clough 14-22 MW 6.26.14  
**Work Order:** 14061482

**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>
14061482-01	Clough 14-22 MW1	Water		6/26/2014 11:00	6/27/2014 09:30	<input type="checkbox"/>
14061482-02	Clough 14-22 MW2	Water		6/26/2014 11:20	6/27/2014 09:30	<input type="checkbox"/>
14061482-03	Clough 14-22 MW3	Water		6/26/2014 11:40	6/27/2014 09:30	<input type="checkbox"/>
14061482-04	Clough 14-22 MW4	Water		6/26/2014 12:00	6/27/2014 09:30	<input type="checkbox"/>
14061482-05	Clough 14-22 MW5	Water		6/26/2014 12:20	6/27/2014 09:30	<input type="checkbox"/>
14061482-06	Trip Blank	Water		6/26/2014	6/27/2014 09:30	<input type="checkbox"/>

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**Client:** HRL Compliance Solutions, Inc  
**Project:** WPX Clough 14-22 MW 6.26.14  
**Work Order:** 14061482

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**Case Narrative**

Batch R143500, Method PH\_9040\_W, Sample 14061482-01C, -02C, -03C, -04C and -05C:  
This is considered a "field test" and, as such, the recommended sample holding time expired prior to sample receipt.

**Client:** HRL Compliance Solutions, Inc  
**Project:** WPX Clough 14-22 MW 6.26.14  
**WorkOrder:** 14061482

**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 is present at an estimated concentration between the MDL and Report 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
LCS D	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

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

**ALS Group USA, Corp**

Date: 08-Jul-14

**Client:** HRL Compliance Solutions, Inc  
**Project:** WPX Clough 14-22 MW 6.26.14  
**Sample ID:** Clough 14-22 MW1  
**Collection Date:** 6/26/2014 11:00 AM

**Work Order:** 14061482  
**Lab ID:** 14061482-01  
**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS BY ICP-MS (DISSOLVED)</b>			<b>SW6020A</b>		Prep: FILTER / 6/30/14	Analyst: <b>ML</b>
Calcium	490		5.0	mg/L	10	7/6/2014 07:39 PM
Iron	ND		0.80	mg/L	10	7/6/2014 07:39 PM
Magnesium	710		2.0	mg/L	10	7/6/2014 07:39 PM
Manganese	0.53		0.050	mg/L	10	7/6/2014 07:39 PM
Potassium	13		2.0	mg/L	10	7/6/2014 07:39 PM
Selenium	ND		0.050	mg/L	10	7/6/2014 07:39 PM
Sodium	4,100		20	mg/L	100	7/7/2014 11:25 AM
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260</b>			Analyst: <b>RS</b>
Benzene	ND		1.0	µg/L	1	7/2/2014 08:09 AM
Ethylbenzene	ND		1.0	µg/L	1	7/2/2014 08:09 AM
m,p-Xylene	ND		2.0	µg/L	1	7/2/2014 08:09 AM
o-Xylene	ND		1.0	µg/L	1	7/2/2014 08:09 AM
Toluene	ND		1.0	µg/L	1	7/2/2014 08:09 AM
Xylenes, Total	ND		3.0	µg/L	1	7/2/2014 08:09 AM
Surr: 1,2-Dichloroethane-d4	103		75-120	%REC	1	7/2/2014 08:09 AM
Surr: 4-Bromofluorobenzene	97.5		80-110	%REC	1	7/2/2014 08:09 AM
Surr: Dibromofluoromethane	97.2		85-115	%REC	1	7/2/2014 08:09 AM
Surr: Toluene-d8	93.2		85-110	%REC	1	7/2/2014 08:09 AM
<b>ALKALINITY</b>			<b>A2320 B-97</b>			Analyst: <b>EE</b>
Alkalinity, Bicarbonate (as CaCO3)	750		10	mg/L	1	7/1/2014 10:35 AM
Alkalinity, Carbonate (as CaCO3)	ND		10	mg/L	1	7/1/2014 10:35 AM
Alkalinity, Total (as CaCO3)	750		12	mg/L	1	7/1/2014 10:35 AM
<b>ANIONS BY ION CHROMATOGRAPHY</b>			<b>SW9056</b>			Analyst: <b>ED</b>
Chloride	3,000		500	mg/L	500	7/3/2014 06:05 AM
Sulfate	8,100		500	mg/L	500	7/3/2014 06:05 AM
<b>NITROGEN, NITRITE</b>			<b>A4500-NO2 B</b>			Analyst: <b>EE</b>
Nitrogen, Nitrite	ND		0.020	mg/L	1	6/27/2014 10:15 AM
<b>NITROGEN, NITRATE</b>			<b>E353.2 R2.0</b>			Analyst: <b>JJG</b>
Nitrogen, Nitrate	ND		0.020	mg/L	1	6/30/2014 11:02 AM
<b>PH</b>			<b>SW9040</b>			Analyst: <b>EE</b>
pH (laboratory)	7.06			s.u.	1	6/27/2014 10:45 AM
<b>TOTAL DISSOLVED SOLIDS</b>			<b>A2540 C-97</b>		Prep: Water Ext. / 6/28/14	Analyst: <b>JI</b>
Total Dissolved Solids	17,000		10	mg/L	1	6/28/2014 04:45 PM

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

**ALS Group USA, Corp**

Date: 08-Jul-14

**Client:** HRL Compliance Solutions, Inc  
**Project:** WPX Clough 14-22 MW 6.26.14  
**Sample ID:** Clough 14-22 MW2  
**Collection Date:** 6/26/2014 11:20 AM

**Work Order:** 14061482  
**Lab ID:** 14061482-02  
**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS BY ICP-MS (DISSOLVED)</b>			<b>SW6020A</b>		Prep: FILTER / 6/30/14	Analyst: <b>ML</b>
Calcium	460		5.0	mg/L	10	7/6/2014 07:45 PM
Iron	ND		0.80	mg/L	10	7/6/2014 07:45 PM
Magnesium	670		2.0	mg/L	10	7/6/2014 07:45 PM
Manganese	0.13		0.050	mg/L	10	7/6/2014 07:45 PM
Potassium	15		2.0	mg/L	10	7/6/2014 07:45 PM
Selenium	ND		0.050	mg/L	10	7/6/2014 07:45 PM
Sodium	3,800		20	mg/L	100	7/7/2014 11:31 AM
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260</b>			Analyst: <b>RS</b>
Benzene	ND		1.0	µg/L	1	7/2/2014 08:35 AM
Ethylbenzene	ND		1.0	µg/L	1	7/2/2014 08:35 AM
m,p-Xylene	ND		2.0	µg/L	1	7/2/2014 08:35 AM
o-Xylene	ND		1.0	µg/L	1	7/2/2014 08:35 AM
Toluene	ND		1.0	µg/L	1	7/2/2014 08:35 AM
Xylenes, Total	ND		3.0	µg/L	1	7/2/2014 08:35 AM
Surr: 1,2-Dichloroethane-d4	102		75-120	%REC	1	7/2/2014 08:35 AM
Surr: 4-Bromofluorobenzene	101		80-110	%REC	1	7/2/2014 08:35 AM
Surr: Dibromofluoromethane	97.8		85-115	%REC	1	7/2/2014 08:35 AM
Surr: Toluene-d8	95.7		85-110	%REC	1	7/2/2014 08:35 AM
<b>ALKALINITY</b>			<b>A2320 B-97</b>			Analyst: <b>EE</b>
Alkalinity, Bicarbonate (as CaCO3)	700		10	mg/L	1	7/1/2014 10:35 AM
Alkalinity, Carbonate (as CaCO3)	ND		10	mg/L	1	7/1/2014 10:35 AM
Alkalinity, Total (as CaCO3)	700		12	mg/L	1	7/1/2014 10:35 AM
<b>ANIONS BY ION CHROMATOGRAPHY</b>			<b>SW9056</b>			Analyst: <b>ED</b>
Chloride	3,000		500	mg/L	500	7/3/2014 06:26 AM
Sulfate	7,500		500	mg/L	500	7/3/2014 06:26 AM
<b>NITROGEN, NITRITE</b>			<b>A4500-NO2 B</b>			Analyst: <b>EE</b>
Nitrogen, Nitrite	0.030		0.020	mg/L	1	6/27/2014 10:15 AM
<b>NITROGEN, NITRATE</b>			<b>E353.2 R2.0</b>			Analyst: <b>JJG</b>
Nitrogen, Nitrate	ND		0.020	mg/L	1	6/30/2014 11:02 AM
<b>PH</b>			<b>SW9040</b>			Analyst: <b>EE</b>
pH (laboratory)	7.15			s.u.	1	6/27/2014 10:45 AM
<b>TOTAL DISSOLVED SOLIDS</b>			<b>A2540 C-97</b>		Prep: Water Ext. / 6/28/14	Analyst: <b>JI</b>
Total Dissolved Solids	16,000		20	mg/L	1	6/28/2014 04:45 PM

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

# ALS Group USA, Corp

Date: 08-Jul-14

**Client:** HRL Compliance Solutions, Inc  
**Project:** WPX Clough 14-22 MW 6.26.14  
**Sample ID:** Clough 14-22 MW3  
**Collection Date:** 6/26/2014 11:40 AM

**Work Order:** 14061482  
**Lab ID:** 14061482-03  
**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS BY ICP-MS (DISSOLVED)</b>			<b>SW6020A</b>		Prep: FILTER / 6/30/14	Analyst: <b>ML</b>
Calcium	500		5.0	mg/L	10	7/6/2014 07:51 PM
Iron	ND		0.80	mg/L	10	7/6/2014 07:51 PM
Magnesium	850		2.0	mg/L	10	7/6/2014 07:51 PM
Manganese	1.4		0.050	mg/L	10	7/6/2014 07:51 PM
Potassium	15		2.0	mg/L	10	7/6/2014 07:51 PM
Selenium	ND		0.050	mg/L	10	7/6/2014 07:51 PM
Sodium	4,600		20	mg/L	100	7/7/2014 11:37 AM
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260</b>			Analyst: <b>RS</b>
Benzene	ND		1.0	µg/L	1	7/2/2014 09:01 AM
Ethylbenzene	ND		1.0	µg/L	1	7/2/2014 09:01 AM
m,p-Xylene	ND		2.0	µg/L	1	7/2/2014 09:01 AM
o-Xylene	ND		1.0	µg/L	1	7/2/2014 09:01 AM
Toluene	ND		1.0	µg/L	1	7/2/2014 09:01 AM
Xylenes, Total	ND		3.0	µg/L	1	7/2/2014 09:01 AM
Surr: 1,2-Dichloroethane-d4	103		75-120	%REC	1	7/2/2014 09:01 AM
Surr: 4-Bromofluorobenzene	96.8		80-110	%REC	1	7/2/2014 09:01 AM
Surr: Dibromofluoromethane	98.0		85-115	%REC	1	7/2/2014 09:01 AM
Surr: Toluene-d8	93.8		85-110	%REC	1	7/2/2014 09:01 AM
<b>ALKALINITY</b>			<b>A2320 B-97</b>			Analyst: <b>EE</b>
Alkalinity, Bicarbonate (as CaCO3)	780		10	mg/L	1	7/1/2014 10:35 AM
Alkalinity, Carbonate (as CaCO3)	ND		10	mg/L	1	7/1/2014 10:35 AM
Alkalinity, Total (as CaCO3)	780		12	mg/L	1	7/1/2014 10:35 AM
<b>ANIONS BY ION CHROMATOGRAPHY</b>			<b>SW9056</b>			Analyst: <b>ED</b>
Chloride	3,900		1,000	mg/L	1000	7/3/2014 07:26 AM
Sulfate	9,300		1,000	mg/L	1000	7/3/2014 07:26 AM
<b>NITROGEN, NITRITE</b>			<b>A4500-NO2 B</b>			Analyst: <b>EE</b>
Nitrogen, Nitrite	ND		0.020	mg/L	1	6/27/2014 10:15 AM
<b>NITROGEN, NITRATE</b>			<b>E353.2 R2.0</b>			Analyst: <b>JJG</b>
Nitrogen, Nitrate	ND		0.020	mg/L	1	6/30/2014 11:02 AM
<b>PH</b>			<b>SW9040</b>			Analyst: <b>EE</b>
pH (laboratory)	7.04			s.u.	1	6/27/2014 10:45 AM
<b>TOTAL DISSOLVED SOLIDS</b>			<b>A2540 C-97</b>		Prep: Water Ext. / 6/28/14	Analyst: <b>JI</b>
Total Dissolved Solids	21,000		20	mg/L	1	6/28/2014 04:45 PM

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

**ALS Group USA, Corp**

Date: 08-Jul-14

**Client:** HRL Compliance Solutions, Inc  
**Project:** WPX Clough 14-22 MW 6.26.14  
**Sample ID:** Clough 14-22 MW4  
**Collection Date:** 6/26/2014 12:00 PM

**Work Order:** 14061482  
**Lab ID:** 14061482-04  
**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS BY ICP-MS (DISSOLVED)</b>			<b>SW6020A</b>		Prep: FILTER / 6/30/14	Analyst: <b>ML</b>
Calcium	540		5.0	mg/L	10	7/6/2014 07:58 PM
Iron	ND		0.80	mg/L	10	7/6/2014 07:58 PM
Magnesium	950		2.0	mg/L	10	7/6/2014 07:58 PM
Manganese	3.0		0.050	mg/L	10	7/6/2014 07:58 PM
Potassium	14		2.0	mg/L	10	7/6/2014 07:58 PM
Selenium	ND		0.050	mg/L	10	7/6/2014 07:58 PM
Sodium	4,900		20	mg/L	100	7/7/2014 11:43 AM
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260</b>			Analyst: <b>RS</b>
Benzene	ND		1.0	µg/L	1	7/2/2014 09:27 AM
Ethylbenzene	ND		1.0	µg/L	1	7/2/2014 09:27 AM
m,p-Xylene	ND		2.0	µg/L	1	7/2/2014 09:27 AM
o-Xylene	ND		1.0	µg/L	1	7/2/2014 09:27 AM
Toluene	ND		1.0	µg/L	1	7/2/2014 09:27 AM
Xylenes, Total	ND		3.0	µg/L	1	7/2/2014 09:27 AM
Surr: 1,2-Dichloroethane-d4	105		75-120	%REC	1	7/2/2014 09:27 AM
Surr: 4-Bromofluorobenzene	97.4		80-110	%REC	1	7/2/2014 09:27 AM
Surr: Dibromofluoromethane	100		85-115	%REC	1	7/2/2014 09:27 AM
Surr: Toluene-d8	93.4		85-110	%REC	1	7/2/2014 09:27 AM
<b>ALKALINITY</b>			<b>A2320 B-97</b>			Analyst: <b>EE</b>
Alkalinity, Bicarbonate (as CaCO3)	840		10	mg/L	1	7/1/2014 10:35 AM
Alkalinity, Carbonate (as CaCO3)	ND		10	mg/L	1	7/1/2014 10:35 AM
Alkalinity, Total (as CaCO3)	840		12	mg/L	1	7/1/2014 10:35 AM
<b>ANIONS BY ION CHROMATOGRAPHY</b>			<b>SW9056</b>			Analyst: <b>ED</b>
Chloride	4,600		1,000	mg/L	1000	7/3/2014 07:46 AM
Sulfate	9,500		1,000	mg/L	1000	7/3/2014 07:46 AM
<b>NITROGEN, NITRITE</b>			<b>A4500-NO2 B</b>			Analyst: <b>EE</b>
Nitrogen, Nitrite	ND		0.020	mg/L	1	6/27/2014 10:15 AM
<b>NITROGEN, NITRATE</b>			<b>E353.2 R2.0</b>			Analyst: <b>JJG</b>
Nitrogen, Nitrate	ND		0.020	mg/L	1	6/30/2014 11:02 AM
<b>PH</b>			<b>SW9040</b>			Analyst: <b>EE</b>
pH (laboratory)	6.91			s.u.	1	6/27/2014 10:45 AM
<b>TOTAL DISSOLVED SOLIDS</b>			<b>A2540 C-97</b>		Prep: Water Ext. / 6/28/14	Analyst: <b>JJ</b>
Total Dissolved Solids	22,000		20	mg/L	1	6/28/2014 04:45 PM

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

**ALS Group USA, Corp**

Date: 08-Jul-14

**Client:** HRL Compliance Solutions, Inc  
**Project:** WPX Clough 14-22 MW 6.26.14  
**Sample ID:** Clough 14-22 MW5  
**Collection Date:** 6/26/2014 12:20 PM

**Work Order:** 14061482  
**Lab ID:** 14061482-05  
**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS BY ICP-MS (DISSOLVED)</b>			<b>SW6020A</b>		Prep: FILTER / 6/30/14	Analyst: <b>ML</b>
Calcium	450		5.0	mg/L	10	7/6/2014 08:04 PM
Iron	ND		0.80	mg/L	10	7/6/2014 08:04 PM
Magnesium	860		2.0	mg/L	10	7/6/2014 08:04 PM
Manganese	1.5		0.050	mg/L	10	7/6/2014 08:04 PM
Potassium	20		2.0	mg/L	10	7/6/2014 08:04 PM
Selenium	ND		0.050	mg/L	10	7/6/2014 08:04 PM
Sodium	5,100		20	mg/L	100	7/7/2014 11:50 AM
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260</b>			Analyst: <b>RS</b>
Benzene	ND		1.0	µg/L	1	7/2/2014 09:53 AM
Ethylbenzene	ND		1.0	µg/L	1	7/2/2014 09:53 AM
m,p-Xylene	ND		2.0	µg/L	1	7/2/2014 09:53 AM
o-Xylene	ND		1.0	µg/L	1	7/2/2014 09:53 AM
Toluene	ND		1.0	µg/L	1	7/2/2014 09:53 AM
Xylenes, Total	ND		3.0	µg/L	1	7/2/2014 09:53 AM
Surr: 1,2-Dichloroethane-d4	104		75-120	%REC	1	7/2/2014 09:53 AM
Surr: 4-Bromofluorobenzene	97.8		80-110	%REC	1	7/2/2014 09:53 AM
Surr: Dibromofluoromethane	98.2		85-115	%REC	1	7/2/2014 09:53 AM
Surr: Toluene-d8	91.4		85-110	%REC	1	7/2/2014 09:53 AM
<b>ALKALINITY</b>			<b>A2320 B-97</b>			Analyst: <b>EE</b>
Alkalinity, Bicarbonate (as CaCO3)	620		10	mg/L	1	7/1/2014 10:35 AM
Alkalinity, Carbonate (as CaCO3)	ND		10	mg/L	1	7/1/2014 10:35 AM
Alkalinity, Total (as CaCO3)	620		12	mg/L	1	7/1/2014 10:35 AM
<b>ANIONS BY ION CHROMATOGRAPHY</b>			<b>SW9056</b>			Analyst: <b>ED</b>
Chloride	4,100		1,000	mg/L	1000	7/3/2014 08:07 AM
Sulfate	11,000		1,000	mg/L	1000	7/3/2014 08:07 AM
<b>NITROGEN, NITRITE</b>			<b>A4500-NO2 B</b>			Analyst: <b>EE</b>
Nitrogen, Nitrite	ND		0.020	mg/L	1	6/27/2014 10:15 AM
<b>NITROGEN, NITRATE</b>			<b>E353.2 R2.0</b>			Analyst: <b>JJG</b>
Nitrogen, Nitrate	ND		0.020	mg/L	1	6/30/2014 11:02 AM
<b>PH</b>			<b>SW9040</b>			Analyst: <b>EE</b>
pH (laboratory)	7.44			s.u.	1	6/27/2014 10:45 AM
<b>TOTAL DISSOLVED SOLIDS</b>			<b>A2540 C-97</b>		Prep: Water Ext. / 6/28/14	Analyst: <b>JJ</b>
Total Dissolved Solids	20,000		20	mg/L	1	6/28/2014 04:45 PM

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

**ALS Group USA, Corp**

Date: 08-Jul-14

**Client:** HRL Compliance Solutions, Inc  
**Project:** WPX Clough 14-22 MW 6.26.14  
**Sample ID:** Trip Blank  
**Collection Date:** 6/26/2014

**Work Order:** 14061482  
**Lab ID:** 14061482-06  
**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260</b>		Analyst: <b>RS</b>	
Benzene	ND		1.0	µg/L	1	7/2/2014 03:04 AM
Ethylbenzene	ND		1.0	µg/L	1	7/2/2014 03:04 AM
m,p-Xylene	ND		2.0	µg/L	1	7/2/2014 03:04 AM
o-Xylene	ND		1.0	µg/L	1	7/2/2014 03:04 AM
Toluene	ND		1.0	µg/L	1	7/2/2014 03:04 AM
Xylenes, Total	ND		3.0	µg/L	1	7/2/2014 03:04 AM
Surr: 1,2-Dichloroethane-d4	105		75-120	%REC	1	7/2/2014 03:04 AM
Surr: 4-Bromofluorobenzene	96.9		80-110	%REC	1	7/2/2014 03:04 AM
Surr: Dibromofluoromethane	96.9		85-115	%REC	1	7/2/2014 03:04 AM
Surr: Toluene-d8	95.2		85-110	%REC	1	7/2/2014 03:04 AM

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

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 14061482  
**Project:** WPX Clough 14-22 MW 6.26.14

**QC BATCH REPORT**

Batch ID: **60101** Instrument ID **ICPMS2** Method: **E200.8** **(Dissolve)**

<b>MBLK</b>		Sample ID: <b>MBLK-60101-60101</b>				Units: <b>mg/L</b>		Analysis Date: <b>7/2/2014 05:16 AM</b>		
Client ID:		Run ID: <b>ICPMS2_140701A</b>			SeqNo: <b>2832447</b>		Prep Date: <b>6/30/2014</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Iron ND 0.080

<b>MBLK</b>		Sample ID: <b>MBLK-60101-60101</b>				Units: <b>mg/L</b>		Analysis Date: <b>7/2/2014 05:16 AM</b>		
Client ID:		Run ID: <b>ICPMS2_140701A</b>			SeqNo: <b>2833717</b>		Prep Date: <b>6/30/2014</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Iron ND 0.080  
 Magnesium ND 0.20  
 Manganese ND 0.0050  
 Potassium ND 0.20  
 Selenium ND 0.0050  
 Sodium ND 0.20

<b>MBLK</b>		Sample ID: <b>MBLK-60101-60101</b>				Units: <b>mg/L</b>		Analysis Date: <b>7/3/2014 11:10 PM</b>		
Client ID:		Run ID: <b>ICPMS2_140703A</b>			SeqNo: <b>2836749</b>		Prep Date: <b>6/30/2014</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Calcium ND 0.50

<b>LCS</b>		Sample ID: <b>LCS-60101-60101</b>				Units: <b>mg/L</b>		Analysis Date: <b>7/2/2014 05:22 AM</b>		
Client ID:		Run ID: <b>ICPMS2_140701A</b>			SeqNo: <b>2832448</b>		Prep Date: <b>6/30/2014</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Iron 9.267 0.080 10 0 92.7 85-115 0

<b>LCS</b>		Sample ID: <b>LCS-60101-60101</b>				Units: <b>mg/L</b>		Analysis Date: <b>7/2/2014 05:22 AM</b>		
Client ID:		Run ID: <b>ICPMS2_140701A</b>			SeqNo: <b>2833718</b>		Prep Date: <b>6/30/2014</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Iron 9.267 0.080 10 0 92.7 80-120 0  
 Magnesium 9.251 0.20 10 0 92.5 80-120 0  
 Manganese 0.08963 0.0050 0.1 0 89.6 80-120 0  
 Potassium 8.967 0.20 10 0 89.7 80-120 0  
 Selenium 0.0899 0.0050 0.1 0 89.9 80-120 0  
 Sodium 9.036 0.20 10 0 90.4 80-120 0

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 14061482  
**Project:** WPX Clough 14-22 MW 6.26.14

# QC BATCH REPORT

Batch ID: **60101**      Instrument ID **ICPMS2**      Method: **E200.8**      **(Dissolve)**

LCS		Sample ID: <b>LCS-60101-60101</b>				Units: <b>mg/L</b>		Analysis Date: <b>7/3/2014 11:35 PM</b>		
Client ID:		Run ID: <b>ICPMS2_140703A</b>				SeqNo: <b>2836753</b>		Prep Date: <b>6/30/2014</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Calcium	9.315	0.50	10	0	93.2	80-120	0			
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MS		Sample ID: <b>14061435-01AMS</b>				Units: <b>mg/L</b>		Analysis Date: <b>7/2/2014 05:47 AM</b>		
Client ID:		Run ID: <b>ICPMS2_140701A</b>				SeqNo: <b>2832452</b>		Prep Date: <b>6/30/2014</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Iron	10.31	0.080	10	0.1753	101	70-130	0			
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MS		Sample ID: <b>14061436-01AMS</b>				Units: <b>mg/L</b>		Analysis Date: <b>7/2/2014 06:06 AM</b>		
Client ID:		Run ID: <b>ICPMS2_140701A</b>				SeqNo: <b>2832455</b>		Prep Date: <b>6/30/2014</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Iron	10.39	0.080	10	0.04043	103	70-130	0			
Magnesium	26.32	0.20	10	16.75	95.7	70-130	0			
Manganese	0.1061	0.0050	0.1	0.005204	101	70-130	0			
Potassium	15.79	0.20	10	5.492	103	70-130	0			
Selenium	0.1022	0.0050	0.1	0.004206	98	70-130	0			
Sodium	73.82	0.20	10	65.87	79.5	70-130	0			O

MS		Sample ID: <b>14061436-01AMS</b>				Units: <b>mg/L</b>		Analysis Date: <b>7/3/2014 11:41 PM</b>		
Client ID:		Run ID: <b>ICPMS2_140703A</b>				SeqNo: <b>2836754</b>		Prep Date: <b>6/30/2014</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Calcium	26.23	0.50	10	16.58	96.5	75-125	0			
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MSD		Sample ID: <b>14061435-01AMSD</b>				Units: <b>mg/L</b>		Analysis Date: <b>7/2/2014 05:53 AM</b>		
Client ID:		Run ID: <b>ICPMS2_140701A</b>				SeqNo: <b>2832453</b>		Prep Date: <b>6/30/2014</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Iron	10.32	0.080	10	0.1753	101	70-130	10.31	0.0969	20	
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 14061482  
**Project:** WPX Clough 14-22 MW 6.26.14

## QC BATCH REPORT

Batch ID: **60101**      Instrument ID **ICPMS2**      Method: **E200.8**      **(Dissolve)**

MSD		Sample ID: 14061436-01AMSD				Units: mg/L		Analysis Date: 7/2/2014 06:12 AM		
Client ID:		Run ID: ICPMS2_140701A			SeqNo: 2832456		Prep Date: 6/30/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	10.64	0.080	10	0.04043	106	70-130	10.39	2.38	20	
Magnesium	26.96	0.20	10	16.75	102	70-130	26.32	2.4	20	
Manganese	0.1082	0.0050	0.1	0.005204	103	70-130	0.1061	1.96	20	
Potassium	16.14	0.20	10	5.492	106	70-130	15.79	2.19	20	
Selenium	0.1087	0.0050	0.1	0.004206	104	70-130	0.1022	6.16	20	
Sodium	75.43	0.20	10	65.87	95.6	70-130	73.82	2.16	20	O

MSD		Sample ID: 14061436-01AMSD				Units: mg/L		Analysis Date: 7/3/2014 11:48 PM		
Client ID:		Run ID: ICPMS2_140703A			SeqNo: 2836755		Prep Date: 6/30/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	26.25	0.50	10	16.58	96.7	75-125	26.23	0.0762	20	

The following samples were analyzed in this batch:

14061482-01C	14061482-02C	14061482-03C
14061482-04C	14061482-05C	

Client: HRL Compliance Solutions, Inc  
 Work Order: 14061482  
 Project: WPX Clough 14-22 MW 6.26.14

# QC BATCH REPORT

Batch ID: **R143704A** Instrument ID **VMS5** Method: **SW8260**

MBLK		Sample ID: <b>VBLKW2-140701-R143704A</b>				Units: <b>µg/L</b>		Analysis Date: <b>7/2/2014 02:13 AM</b>		
Client ID:		Run ID: <b>VMS5_140701B</b>				SeqNo: <b>2832980</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Ethylbenzene	ND	1.0								
m,p-Xylene	ND	2.0								
o-Xylene	ND	1.0								
Toluene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 1,2-Dichloroethane-d4	20.3	0	20	0	102	75-120	0			
Surr: 4-Bromofluorobenzene	19.2	0	20	0	96	80-110	0			
Surr: Dibromofluoromethane	19.2	0	20	0	96	85-115	0			
Surr: Toluene-d8	18.43	0	20	0	92.2	85-110	0			

LCS		Sample ID: <b>VLCSW2-140701-R143704A</b>				Units: <b>µg/L</b>		Analysis Date: <b>7/2/2014 01:23 AM</b>		
Client ID:		Run ID: <b>VMS5_140701B</b>				SeqNo: <b>2832979</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.75	1.0	20	0	98.8	85-125	0			
Ethylbenzene	19.67	1.0	20	0	98.4	85-125	0			
m,p-Xylene	39.11	2.0	40	0	97.8	75-130	0			
o-Xylene	19.52	1.0	20	0	97.6	80-125	0			
Toluene	19.93	1.0	20	0	99.6	85-125	0			
Xylenes, Total	58.63	3.0	60	0	97.7	80-126	0			
Surr: 1,2-Dichloroethane-d4	19.75	0	20	0	98.8	75-120	0			
Surr: 4-Bromofluorobenzene	19.96	0	20	0	99.8	80-110	0			
Surr: Dibromofluoromethane	19.18	0	20	0	95.9	85-115	0			
Surr: Toluene-d8	18.95	0	20	0	94.8	85-110	0			

MS		Sample ID: <b>14061482-05A MS</b>				Units: <b>µg/L</b>		Analysis Date: <b>7/2/2014 10:44 AM</b>		
Client ID: <b>Clough 14-22 MW5</b>		Run ID: <b>VMS5_140701B</b>				SeqNo: <b>2833121</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.78	1.0	20	0	93.9	85-125	0			
Ethylbenzene	18.31	1.0	20	0	91.6	85-125	0			
m,p-Xylene	36.41	2.0	40	0	91	75-130	0			
o-Xylene	18.11	1.0	20	0	90.6	80-125	0			
Toluene	18.59	1.0	20	0	93	85-125	0			
Xylenes, Total	54.52	3.0	60	0	90.9	80-126	0			
Surr: 1,2-Dichloroethane-d4	20.18	0	20	0	101	75-120	0			
Surr: 4-Bromofluorobenzene	20.32	0	20	0	102	80-110	0			
Surr: Dibromofluoromethane	19.88	0	20	0	99.4	85-115	0			
Surr: Toluene-d8	19.16	0	20	0	95.8	85-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 14061482  
**Project:** WPX Clough 14-22 MW 6.26.14

# QC BATCH REPORT

Batch ID: **R143704A**      Instrument ID **VMS5**      Method: **SW8260**

MSD		Sample ID: 14061482-05A MSD				Units: µg/L		Analysis Date: 7/2/2014 11:10 AM		
Client ID: Clough 14-22 MW5		Run ID: VMS5_140701B		SeqNo: 2833122		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.84	1.0	20	0	94.2	85-125	18.78	0.319	30	
Ethylbenzene	18.83	1.0	20	0	94.2	85-125	18.31	2.8	30	
m,p-Xylene	37.23	2.0	40	0	93.1	75-130	36.41	2.23	30	
o-Xylene	18.6	1.0	20	0	93	80-125	18.11	2.67	30	
Toluene	18.67	1.0	20	0	93.4	85-125	18.59	0.429	30	
Xylenes, Total	55.83	3.0	60	0	93	80-126	54.52	2.37	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	20.27	0	20	0	101	75-120	20.18	0.445	30	
<i>Surr: 4-Bromofluorobenzene</i>	19.91	0	20	0	99.6	80-110	20.32	2.04	30	
<i>Surr: Dibromofluoromethane</i>	19.94	0	20	0	99.7	85-115	19.88	0.301	30	
<i>Surr: Toluene-d8</i>	18.63	0	20	0	93.2	85-110	19.16	2.8	30	

The following samples were analyzed in this batch:

14061482-01A	14061482-02A	14061482-03A
14061482-04A	14061482-05A	14061482-06A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 14061482  
**Project:** WPX Clough 14-22 MW 6.26.14

## QC BATCH REPORT

Batch ID: **60129**      Instrument ID **TDS**      Method: **A2540 C-97**

<b>MBLK</b>		Sample ID: <b>MB-60129-60129</b>				Units: <b>mg/L</b>		Analysis Date: <b>6/28/2014 04:45 PM</b>		
Client ID:		Run ID: <b>TDS_140628B</b>		SeqNo: <b>2827897</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Dissolved Solids      ND      10

<b>LCS</b>		Sample ID: <b>LCS-60129-60129</b>				Units: <b>mg/L</b>		Analysis Date: <b>6/28/2014 04:45 PM</b>		
Client ID:		Run ID: <b>TDS_140628B</b>		SeqNo: <b>2827898</b>		Prep Date: <b>6/28/2014</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Dissolved Solids      472      10      495      0      95.4      80-120      0

<b>DUP</b>		Sample ID: <b>14061112-06C DUP</b>				Units: <b>mg/L</b>		Analysis Date: <b>6/28/2014 04:45 PM</b>		
Client ID:		Run ID: <b>TDS_140628B</b>		SeqNo: <b>2827900</b>		Prep Date: <b>6/28/2014</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Dissolved Solids      836      20      0      0      0      0-0      856      2.36      20

<b>DUP</b>		Sample ID: <b>14061462-07C DUP</b>				Units: <b>mg/L</b>		Analysis Date: <b>6/28/2014 04:45 PM</b>		
Client ID:		Run ID: <b>TDS_140628B</b>		SeqNo: <b>2827914</b>		Prep Date: <b>6/28/2014</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Dissolved Solids      5560      100      0      0      0      0-0      5540      0.36      20

**The following samples were analyzed in this batch:**

14061482-01C	14061482-02C	14061482-03C
14061482-04C	14061482-05C	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 14061482  
**Project:** WPX Clough 14-22 MW 6.26.14

# QC BATCH REPORT

Batch ID: **R143458**      Instrument ID **WETCHEM**      Method: **A4500-NO2 B**

<b>MBLK</b>	Sample ID: <b>WBLKW1-062714-R143458</b>				Units: <b>mg/L</b>			Analysis Date: <b>6/27/2014 10:15 AM</b>		
Client ID:	Run ID: <b>WETCHEM_140627E</b>			SeqNo: <b>2827065</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrite      ND      0.020

<b>LCS</b>	Sample ID: <b>WLCSW1-062714-R143458</b>				Units: <b>mg/L</b>			Analysis Date: <b>6/27/2014 10:15 AM</b>		
Client ID:	Run ID: <b>WETCHEM_140627E</b>			SeqNo: <b>2827066</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrite      0.1925      0.020      0.2      0      96.2      80-120      0

<b>MS</b>	Sample ID: <b>1406077-29B MS</b>				Units: <b>mg/L</b>			Analysis Date: <b>6/27/2014 10:15 AM</b>		
Client ID:	Run ID: <b>WETCHEM_140627E</b>			SeqNo: <b>2827068</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrite      0.1869      0.020      0.2      0.0087      89.1      75-125      0

<b>MSD</b>	Sample ID: <b>1406077-29B MSD</b>				Units: <b>mg/L</b>			Analysis Date: <b>6/27/2014 10:15 AM</b>		
Client ID:	Run ID: <b>WETCHEM_140627E</b>			SeqNo: <b>2827069</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrite      0.1865      0.020      0.2      0.0087      88.9      75-125      0.1869      0.214      20

The following samples were analyzed in this batch:

14061482-01C	14061482-02C	14061482-03C
14061482-04C	14061482-05C	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 14061482  
**Project:** WPX Clough 14-22 MW 6.26.14

# QC BATCH REPORT

Batch ID: **R143500**      Instrument ID **WETCHEM**      Method: **A4500-H B-96**

<b>LCS</b>		Sample ID: <b>WLCSW1-062714-R143500</b>				Units: <b>s.u.</b>		Analysis Date: <b>6/27/2014 10:45 AM</b>		
Client ID:		Run ID: <b>WETCHEM_140627L</b>			SeqNo: <b>2827621</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH (laboratory)      3.96      0      4      0      99      90-110      0

<b>LCS</b>		Sample ID: <b>WLCSW1-140627-R143500</b>				Units: <b>s.u.</b>		Analysis Date: <b>6/27/2014 10:45 AM</b>		
Client ID:		Run ID: <b>WETCHEM_140627L</b>			SeqNo: <b>2827656</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH (laboratory)      3.96      0      4      0      99      90-110      0

<b>LCS</b>		Sample ID: <b>WLCSW1-140627-R143500</b>				Units: <b>s.u.</b>		Analysis Date: <b>6/27/2014 10:45 AM</b>		
Client ID:		Run ID: <b>WETCHEM_140627L</b>			SeqNo: <b>2827661</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH (laboratory)      3.96      0      4      0      99      90-110      0

<b>LCS</b>		Sample ID: <b>WLCSW1-140627-R143500</b>				Units: <b>s.u.</b>		Analysis Date: <b>6/27/2014 10:45 AM</b>		
Client ID:		Run ID: <b>WETCHEM_140627L</b>			SeqNo: <b>2827664</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH (laboratory)      3.96      0      4      0      99      90-110      0

<b>DUP</b>		Sample ID: <b>14061435-02A DUP</b>				Units: <b>s.u.</b>		Analysis Date: <b>6/27/2014 10:45 AM</b>		
Client ID:		Run ID: <b>WETCHEM_140627L</b>			SeqNo: <b>2827623</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH (laboratory)      7.01      0      0      0      0      0-0      7      0.143      20

<b>DUP</b>		Sample ID: <b>14061447-01C DUP</b>				Units: <b>s.u.</b>		Analysis Date: <b>6/27/2014 10:45 AM</b>		
Client ID:		Run ID: <b>WETCHEM_140627L</b>			SeqNo: <b>2827658</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH (laboratory)      7.16      0      0      0      0      0-0      7.16      0      20

<b>DUP</b>		Sample ID: <b>14061482-01C DUP</b>				Units: <b>s.u.</b>		Analysis Date: <b>6/27/2014 10:45 AM</b>		
Client ID: <b>Clough 14-22 MW1</b>		Run ID: <b>WETCHEM_140627L</b>			SeqNo: <b>2827667</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH (laboratory)      7.06      0      0      0      0      0-0      7.06      0      20

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 14061482  
**Project:** WPX Clough 14-22 MW 6.26.14

# QC BATCH REPORT

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Batch ID: **R143500**      Instrument ID **WETCHEM**      Method: **A4500-H B-96**

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**The following samples were analyzed in this batch:**

14061482-01C	14061482-02C	14061482-03C
14061482-04C	14061482-05C	

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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 14061482  
**Project:** WPX Clough 14-22 MW 6.26.14

# QC BATCH REPORT

Batch ID: **R143591**      Instrument ID: **LACHAT2**      Method: **E353.2 R2.0**

<b>MBLK</b>		Sample ID: <b>WBLKW1-140630-R143591</b>				Units: <b>mg/L</b>		Analysis Date: <b>6/30/2014 11:02 AM</b>		
Client ID:		Run ID: <b>LACHAT2_140630A</b>		SeqNo: <b>2829765</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrate      ND      0.020

<b>LCS</b>		Sample ID: <b>WLCSW1-140630-R143591</b>				Units: <b>mg/L</b>		Analysis Date: <b>6/30/2014 11:02 AM</b>		
Client ID:		Run ID: <b>LACHAT2_140630A</b>		SeqNo: <b>2829766</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrate      4.865      0.020      5      0      97.3      90-110      0

<b>MS</b>		Sample ID: <b>14061482-01D MS</b>				Units: <b>mg/L</b>		Analysis Date: <b>6/30/2014 11:02 AM</b>		
Client ID: <b>Clough 14-22 MW1</b>		Run ID: <b>LACHAT2_140630A</b>		SeqNo: <b>2829768</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrate      4.884      0.020      5      0      97.7      90-110      0

<b>MSD</b>		Sample ID: <b>14061482-01D MSD</b>				Units: <b>mg/L</b>		Analysis Date: <b>6/30/2014 11:02 AM</b>		
Client ID: <b>Clough 14-22 MW1</b>		Run ID: <b>LACHAT2_140630A</b>		SeqNo: <b>2829769</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrate      4.908      0.020      5      0      98.2      90-110      4.884      0.49      20

The following samples were analyzed in this batch:

14061482-01D	14061482-02D	14061482-03D
14061482-04D	14061482-05D	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 14061482  
**Project:** WPX Clough 14-22 MW 6.26.14

## QC BATCH REPORT

Batch ID: **R143665b**      Instrument ID **Titrator 1**      Method: **A2320 B-97**

MBLK		Sample ID: <b>WBLKW1-070114-R143665b</b>				Units: <b>mg/L</b>		Analysis Date: <b>7/1/2014 10:35 AM</b>		
Client ID:		Run ID: <b>TITRATOR 1_140701A</b>			SeqNo: <b>2831440</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (as CaCO3)	3.79	10								J
Alkalinity, Carbonate (as CaCO3)	ND	10								
Alkalinity, Total (as CaCO3)	3.79	12								J

LCS		Sample ID: <b>WLCSW1-070114-R143665b</b>				Units: <b>mg/L</b>		Analysis Date: <b>7/1/2014 10:35 AM</b>		
Client ID:		Run ID: <b>TITRATOR 1_140701A</b>			SeqNo: <b>2831441</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (as CaCO3)	904.2	10	925	0	97.8	70-130	0			
Alkalinity, Total (as CaCO3)	937.2	12	1000	0	93.7	90-106	0			

DUP		Sample ID: <b>14061420-19B DUP</b>				Units: <b>mg/L</b>		Analysis Date: <b>7/1/2014 10:35 AM</b>		
Client ID:		Run ID: <b>TITRATOR 1_140701A</b>			SeqNo: <b>2831443</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (as CaCO3)	60.89	12	0	0	0		56.69	7.14	20	

The following samples were analyzed in this batch:

14061482-01C	14061482-02C	14061482-03C
14061482-04C	14061482-05C	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 14061482  
**Project:** WPX Clough 14-22 MW 6.26.14

# QC BATCH REPORT

Batch ID: **R143860**      Instrument ID **IC4**      Method: **SW9056**

MBLK		Sample ID: <b>CCB/MBLK-R143860</b>				Units: <b>mg/L</b>		Analysis Date: <b>7/3/2014 02:43 AM</b>			
Client ID:		Run ID: <b>IC4_140703A</b>				SeqNo: <b>2836066</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chloride	ND	1.0									
Sulfate	ND	1.0									

LCS		Sample ID: <b>LCS-R143860</b>				Units: <b>mg/L</b>		Analysis Date: <b>7/3/2014 03:03 AM</b>			
Client ID:		Run ID: <b>IC4_140703A</b>				SeqNo: <b>2836067</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chloride	9.42	1.0	10	0	94.2	88-107	0				
Sulfate	9.566	1.0	10	0	95.7	85-110	0				

MS		Sample ID: <b>14061255-15A MS</b>				Units: <b>mg/L</b>		Analysis Date: <b>7/3/2014 08:47 AM</b>			
Client ID:		Run ID: <b>IC4_140703A</b>				SeqNo: <b>2836084</b>		Prep Date:		DF: <b>200</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chloride	2720	200	1000	1690	103	75-125	0				
Sulfate	971.4	200	1000	51.48	92	75-125	0				

MSD		Sample ID: <b>14061255-15A MSD</b>				Units: <b>mg/L</b>		Analysis Date: <b>7/3/2014 09:07 AM</b>			
Client ID:		Run ID: <b>IC4_140703A</b>				SeqNo: <b>2836085</b>		Prep Date:		DF: <b>200</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chloride	2707	200	1000	1690	102	75-125	2720	0.476	20		
Sulfate	958.4	200	1000	51.48	90.7	75-125	971.4	1.35	20		

The following samples were analyzed in this batch:

14061482-01C	14061482-02C	14061482-03C
14061482-04C	14061482-05C	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.



# ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524  
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

## Chain-of-Custody

Form 202r8

WORKORDER #	14061482
PAGE	1 of 1

PROJECT NAME	WPX Clough 14-22 Monitors	SAMPLER	Reed Wold	DATE	6/26/14
PROJECT No.	Wells	SITE ID	clough 14-22	TURNAROUND	5 Day
COMPANY NAME	HRL Compliance	EDD FORMAT			
SEND REPORT TO	Mark Mumby	PURCHASE ORDER			
ADDRESS	2385 F 1/2 Rd	BILL TO COMPANY	WPX		
CITY / STATE / ZIP	Grand Junction, CO 81506	INVOICE ATTN TO	Karolina Blaney		
PHONE	970-243-3271	ADDRESS	1058 Co Rd 215		
FAX	970-243-3280	CITY / STATE / ZIP	Parachure CO 81635		
E-MAIL	mmumby@hrlcomp.com rwold@hrlcomp.com	PHONE	970-883-2295		
		E-MAIL	Karolina.blaney@wpxenergy.com		

See Attached  
 BTEX  
 Dissolve in Mg/Mn/Br  
 HK  
 C/S by Mg/Mn  
 TDS  
 pit

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC
1	clough 14-22 MW 1	W	6/26/14	11:00	10	1,8	
2	" " MW 2	↓	↓	11:20	↓	↓	
3	" " MW 3	↓	↓	11:40	↓	↓	
4	" " MW 4	↓	↓	12:00	↓	↓	
5	" " MW 5	↓	↓	12:20	↓	↓	

\*Time Zone (Circle): EST CST MST PST Matrix: O=oil S=soil NS=non-soil solid W=water L=liquid E=extract F=filter

For metals or anions, please detail analytes below.

Comments:  4.0-2 	QC PACKAGE (check below)	
	<input checked="" type="checkbox"/>	LEVEL II (Standard QC)
	<input type="checkbox"/>	LEVEL III (Std QC + forma)
	<input type="checkbox"/>	LEVEL IV (Std QC + forma + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Reed Wold	6/26/14	1:00
RECEIVED BY		W.M.	6-26-14	1:00
RELINQUISHED BY		M.M.	6-26	1:00
RECEIVED BY		Diane F. Shea	6/27/14	0930
RELINQUISHED BY				
RECEIVED BY				

<b>BTEX</b>
Benzene
Toluene
Ethylbenzene
Xylene (total)
<b>Metals</b>
Calcium
Iron
Magnesium
Manganese
Potassium
Selenium
Sodium
<b>General Chemistry</b>
Alkalinity, Bicarbonate as CaCO <sub>3</sub>
Alkalinity, Carbonate
Alkalinity, Total as CaCO <sub>3</sub>
Chloride
Nitrogen, Nitrate
Nitrogen Nitrite
Solids, Total Dissolved
Sulfate
pH

} Diss

→ H<sub>2</sub>SO<sub>4</sub>

5 vohiel  
 4 voo  
 1 Lp neat

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **27-Jun-14 09:30**

Work Order: **14061482**

Received by: **DS**

Checklist completed by Diane Shaw 27-Jun-14  
eSignature Date

Reviewed by: Ann Preston 29-Jun-14  
eSignature Date

Matrices: **Water**

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<input type="text" value="4.0 c"/>		
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text" value="6/27/2014 4:36:01 PM"/>		
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:	<input type="text"/>		

Login Notes:

-----

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

From: (979) 285-5783  
Nick Martinez  
ALS Environmental  
127 E. 1st Street  
PARACHUTE, CO 81635

Origin ID: RLA



Ship Date: 26 JUN 14  
ActWgt: 09.0 LB  
CAD: 2264840/NET13480  
Dims: 14 X 28 X 15 IN



SHIP TO: (616) 399-6970  
sample receiving  
ALS Laboratory Group  
3352 128TH AVE  
HOLLAND, MI 49424

BILL SENDER

Ref # 082014-1  
Invoice #  
PO # Parachute  
Dept #

2 of 3  
FRI - 27 JUN 10:30A  
PRIORITY OVERNIGHT

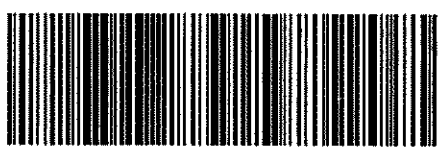


MP5# 7704 3816 2788  
0263

Matr# 7704 3816 2755 0281

49424  
MI-US  
GRR

**XX GRR**



SZ2G58BC4F220

**\*After printing this label:**

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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ALS Parachute Custody Seal  
 DATE 6-26  
 Time 10:00  
 Name [Signature]