



30-Aug-2012

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

Re: **Lone Mountain Prod. Co. Fees 29-8 Pit Clos 8/16/12**

Work Order: **1208716**

Dear Mark,

ALS Environmental received 1 sample on 23-Aug-2012 11:30 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.

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 21.

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: MN331938

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**Client:** HRL Compliance Solutions  
**Project:** Lone Mountain Prod. Co. Fees 29-8 Pit Clos 8/16/12  
**Work Order:** 1208716

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**Work Order Sample Summary**

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<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>
1208716-01	Pit Bottom	Soil		8/16/2012 10:00	8/23/2012 11:30	<input type="checkbox"/>

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**Client:** HRL Compliance Solutions  
**Project:** Lone Mountain Prod. Co. Fees 29-8 Pit Clos 8/16/12  
**Work Order:** 1208716

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**Case Narrative**

Batch 43163 MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Batch 43193 MS/MSD data for Hexavalent Chromium is not related to this project's samples. No data requires qualification.

**Client:** HRL Compliance Solutions  
**Project:** Lone Mountain Prod. Co. Fees 29-8 Pit Clos 8/16/12  
**WorkOrder:** 1208716

## **QUALIFIERS, ACRONYMS, UNITS**

<b><u>Qualifier</u></b>	<b><u>Description</u></b>
*	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

<b><u>Acronym</u></b>	<b><u>Description</u></b>
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

<b><u>Units Reported</u></b>	<b><u>Description</u></b>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight
µmhos/cm @25°	
none	
s.u.	Standard Units

# ALS Group USA, Corp

Date: 30-Aug-12

**Client:** HRL Compliance Solutions

**Project:** Lone Mountain Prod. Co. Fees 29-8 Pit Clos 8/16/12

**Work Order:** 1208716

**Sample ID:** Pit Bottom

**Lab ID:** 1208716-01

**Collection Date:** 8/16/2012 10:00 AM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>DIESEL RANGE ORGANICS BY GC-FID</b>						
<b>DRO (C10-C28)</b>	<b>42</b>		<b>4.2</b>	<b>mg/Kg-dry</b>	<b>1</b>	<b>8/27/2012 11:37 PM</b>
Surr: 4-Terphenyl-d14	69.1		39-115	%REC	1	8/27/2012 11:37 PM
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>						
<b>GRO (C6-C10)</b>	<b>ND</b>		<b>2.6</b>	<b>mg/Kg-dry</b>	<b>50</b>	<b>8/24/2012 10:48 AM</b>
Surr: Toluene-d8	107		50-150	%REC	50	8/24/2012 10:48 AM
<b>MERCURY BY CVAA</b>						
<b>Mercury</b>	<b>0.038</b>		<b>0.016</b>	<b>mg/Kg-dry</b>	<b>1</b>	<b>8/29/2012 02:00 PM</b>
<b>METALS BY ICP-MS</b>						
<b>Arsenic</b>	<b>5.4</b>		<b>0.66</b>	<b>mg/Kg-dry</b>	<b>2</b>	<b>8/25/2012 12:25 AM</b>
<b>Barium</b>	<b>49</b>		<b>0.66</b>	<b>mg/Kg-dry</b>	<b>2</b>	<b>8/25/2012 12:25 AM</b>
Cadmium	ND		0.27	mg/Kg-dry	2	8/25/2012 12:25 AM
<b>Chromium</b>	<b>6.1</b>		<b>0.66</b>	<b>mg/Kg-dry</b>	<b>2</b>	<b>8/25/2012 12:25 AM</b>
<b>Copper</b>	<b>8.0</b>		<b>0.66</b>	<b>mg/Kg-dry</b>	<b>2</b>	<b>8/25/2012 12:25 AM</b>
<b>Lead</b>	<b>11</b>		<b>0.66</b>	<b>mg/Kg-dry</b>	<b>2</b>	<b>8/25/2012 12:25 AM</b>
<b>Nickel</b>	<b>11</b>		<b>0.66</b>	<b>mg/Kg-dry</b>	<b>2</b>	<b>8/25/2012 12:25 AM</b>
<b>Selenium</b>	<b>0.78</b>		<b>0.66</b>	<b>mg/Kg-dry</b>	<b>2</b>	<b>8/25/2012 12:25 AM</b>
Silver	ND		0.66	mg/Kg-dry	2	8/25/2012 12:25 AM
<b>Zinc</b>	<b>35</b>		<b>1.3</b>	<b>mg/Kg-dry</b>	<b>2</b>	<b>8/25/2012 12:25 AM</b>
<b>SOLUBLE CATIONS FOR SAR</b>						
<b>Calcium</b>	<b>610</b>		<b>5.1</b>	<b>mg/L-dry</b>	<b>10</b>	<b>8/27/2012 06:25 PM</b>
<b>Magnesium</b>	<b>96</b>		<b>2.1</b>	<b>mg/L-dry</b>	<b>10</b>	<b>8/27/2012 06:25 PM</b>
<b>Sodium</b>	<b>170</b>		<b>2.1</b>	<b>mg/L-dry</b>	<b>10</b>	<b>8/27/2012 06:25 PM</b>
<b>SODIUM ADSORPTION RATIO</b>						
<b>Sodium Adsorption Ratio</b>	<b>1.7</b>		<b>0.010</b>	<b>none</b>	<b>1</b>	<b>8/28/2012</b>
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
<b>Acenaphthene</b>	<b>ND</b>		<b>15</b>	<b>µg/Kg-dry</b>	<b>1</b>	<b>8/28/2012 10:45 AM</b>
<b>Anthracene</b>	<b>ND</b>		<b>15</b>	<b>µg/Kg-dry</b>	<b>1</b>	<b>8/28/2012 10:45 AM</b>
<b>Benzo(a)anthracene</b>	<b>ND</b>		<b>17</b>	<b>µg/Kg-dry</b>	<b>1</b>	<b>8/28/2012 10:45 AM</b>
<b>Benzo(a)pyrene</b>	<b>ND</b>		<b>17</b>	<b>µg/Kg-dry</b>	<b>1</b>	<b>8/28/2012 10:45 AM</b>
<b>Benzo(b)fluoranthene</b>	<b>ND</b>		<b>18</b>	<b>µg/Kg-dry</b>	<b>1</b>	<b>8/28/2012 10:45 AM</b>
<b>Benzo(g,h,i)perylene</b>	<b>ND</b>		<b>29</b>	<b>µg/Kg-dry</b>	<b>1</b>	<b>8/28/2012 10:45 AM</b>
<b>Benzo(k)fluoranthene</b>	<b>ND</b>		<b>18</b>	<b>µg/Kg-dry</b>	<b>1</b>	<b>8/28/2012 10:45 AM</b>
<b>Chrysene</b>	<b>ND</b>		<b>15</b>	<b>µg/Kg-dry</b>	<b>1</b>	<b>8/28/2012 10:45 AM</b>
<b>Dibenzo(a,h)anthracene</b>	<b>ND</b>		<b>18</b>	<b>µg/Kg-dry</b>	<b>1</b>	<b>8/28/2012 10:45 AM</b>
<b>Fluoranthene</b>	<b>ND</b>		<b>15</b>	<b>µg/Kg-dry</b>	<b>1</b>	<b>8/28/2012 10:45 AM</b>
<b>Fluorene</b>	<b>ND</b>		<b>15</b>	<b>µg/Kg-dry</b>	<b>1</b>	<b>8/28/2012 10:45 AM</b>

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

# ALS Group USA, Corp

Date: 30-Aug-12

Client: HRL Compliance Solutions

Project: Lone Mountain Prod. Co. Fees 29-8 Pit Clos 8/16/12

Work Order: 1208716

Sample ID: Pit Bottom

Lab ID: 1208716-01

Collection Date: 8/16/2012 10:00 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	ND		20	µg/Kg-dry	1	8/28/2012 10:45 AM
<b>Naphthalene</b>	<b>19</b>		<b>15</b>	<b>µg/Kg-dry</b>	<b>1</b>	8/28/2012 10:45 AM
Pyrene	ND		15	µg/Kg-dry	1	8/28/2012 10:45 AM
Surr: 2-Fluorobiphenyl	83.8		12-100	%REC	1	8/28/2012 10:45 AM
Surr: 4-Terphenyl-d14	102		25-137	%REC	1	8/28/2012 10:45 AM
Surr: Nitrobenzene-d5	83.8		37-107	%REC	1	8/28/2012 10:45 AM
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260</b>		Prep Date: <b>8/23/2012</b>	Analyst: <b>AK</b>
Benzene	ND		31	µg/Kg-dry	1	8/23/2012 09:07 PM
Ethylbenzene	ND		31	µg/Kg-dry	1	8/23/2012 09:07 PM
<b>m,p-Xylene</b>	<b>330</b>		<b>62</b>	<b>µg/Kg-dry</b>	<b>1</b>	8/23/2012 09:07 PM
<b>o-Xylene</b>	<b>93</b>		<b>31</b>	<b>µg/Kg-dry</b>	<b>1</b>	8/23/2012 09:07 PM
<b>Toluene</b>	<b>40</b>		<b>31</b>	<b>µg/Kg-dry</b>	<b>1</b>	8/23/2012 09:07 PM
<b>Xylenes, Total</b>	<b>420</b>		<b>93</b>	<b>µg/Kg-dry</b>	<b>1</b>	8/23/2012 09:07 PM
Surr: 1,2-Dichloroethane-d4	105		70-130	%REC	1	8/23/2012 09:07 PM
Surr: 4-Bromofluorobenzene	97.4		70-130	%REC	1	8/23/2012 09:07 PM
Surr: Dibromofluoromethane	98.8		70-130	%REC	1	8/23/2012 09:07 PM
Surr: Toluene-d8	101		70-130	%REC	1	8/23/2012 09:07 PM
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>			<b>USDA H60 METHO</b>		Prep Date: <b>8/27/2012</b>	Analyst: <b>JB</b>
Electrical Conductivity @ Saturation	2.3		0.0050	mmhos/cm @25	1	8/28/2012 02:30 PM
<b>CHROMIUM, TRIVALENT</b>			<b>CALCULATION</b>			Analyst: <b>JJG</b>
Chromium, Trivalent	6.1		0.51	mg/Kg-dry	1	8/28/2012 07:51 AM
<b>CHROMIUM, HEXAVALENT</b>			<b>SW7196A</b>		Prep Date: <b>8/23/2012</b>	Analyst: <b>MB</b>
Chromium, Hexavalent	ND		0.50	mg/Kg-dry	1	8/27/2012 02:10 PM
<b>MOISTURE</b>			<b>A2540 G</b>			Analyst: <b>NZ</b>
Moisture	2.8		0.050	% of sample	1	8/23/2012 05:20 PM
<b>PH</b>			<b>SW9045D</b>			Analyst: <b>JJG</b>
pH	7.80			s.u.	1	8/23/2012 09:30 AM

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

Client: HRL Compliance Solutions

# QC BATCH REPORT

Work Order: 1208716

Project: Lone Mountain Prod. Co. Fees 29-8 Pit Clos 8/16/1

Batch ID: 43176

Instrument ID GC5

Method: SW8015M

<b>MBLK</b>		Sample ID: <b>DBLKS1-43176-43176</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/27/2012 05:54 PM</b>		
Client ID:		Run ID: <b>GC5_120827A</b>				SeqNo: <b>2063845</b>		Prep Date: <b>8/27/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	5.0								
Surr: 4-Terphenyl-d14	1.04	0	2	0	52	39-115	0			

<b>LCS</b>		Sample ID: <b>DLCSS1-43176-43176</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/27/2012 06:21 PM</b>		
Client ID:		Run ID: <b>GC5_120827A</b>				SeqNo: <b>2063847</b>		Prep Date: <b>8/27/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	183.4	5.0	200	0	91.7	60-130	0			
Surr: 4-Terphenyl-d14	1.431	0	2	0	71.6	39-115	0			

<b>MS</b>		Sample ID: <b>1208672-01A MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/27/2012 06:47 PM</b>		
Client ID:		Run ID: <b>GC5_120827A</b>				SeqNo: <b>2063848</b>		Prep Date: <b>8/27/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	235.6	8.0	318.8	32.32	63.8	60-130	0			
Surr: 4-Terphenyl-d14	1.618	0	3.188	0	50.8	39-115	0			

<b>MSD</b>		Sample ID: <b>1208672-01A MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/27/2012 07:13 PM</b>		
Client ID:		Run ID: <b>GC5_120827A</b>				SeqNo: <b>2063849</b>		Prep Date: <b>8/27/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	236.8	8.1	324.3	32.32	63.1	60-130	235.6	0.53	30	
Surr: 4-Terphenyl-d14	1.647	0	3.243	0	50.8	39-115	1.618	1.74	30	

The following samples were analyzed in this batch: 1208716-01B

**Client:** HRL Compliance Solutions  
**Work Order:** 1208716  
**Project:** Lone Mountain Prod. Co. Fees 29-8 Pit Clos 8/16/1

## QC BATCH REPORT

Batch ID: **R108983** Instrument ID **GC9** Method: **SW8015**

<b>MBLK</b>	Sample ID: <b>GBLK1-120824-R108983</b>					Units: <b>µg/L</b>		Analysis Date: <b>8/24/2012 08:29 AM</b>		
Client ID:	Run ID: <b>GC9_120824A</b>				SeqNo: <b>2062438</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
GRO (C6-C10)	ND	200								
<i>Surr: Toluene-d8</i>	<i>104</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>104</i>	<i>70-130</i>	<i>0</i>			

<b>LCS</b>	Sample ID: <b>GLCS1-120824-R108983</b>					Units: <b>µg/L</b>		Analysis Date: <b>8/24/2012 08:04 AM</b>		
Client ID:	Run ID: <b>GC9_120824A</b>				SeqNo: <b>2062437</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
GRO (C6-C10)	10070	200	10000	0	101	70-130	0			
<i>Surr: Toluene-d8</i>	<i>101</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>			

<b>MS</b>	Sample ID: <b>1208692-02B MS</b>					Units: <b>µg/L</b>		Analysis Date: <b>8/24/2012 05:29 PM</b>		
Client ID:	Run ID: <b>GC9_120824A</b>				SeqNo: <b>2062446</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
GRO (C6-C10)	9480	200	10000	0	94.8	70-130	0			
<i>Surr: Toluene-d8</i>	<i>105.8</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>106</i>	<i>70-130</i>	<i>0</i>			

<b>MSD</b>	Sample ID: <b>1208692-02B MSD</b>					Units: <b>µg/L</b>		Analysis Date: <b>8/24/2012 05:53 PM</b>		
Client ID:	Run ID: <b>GC9_120824A</b>				SeqNo: <b>2062447</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
GRO (C6-C10)	10600	200	10000	0	106	70-130	9480	11.2	30	
<i>Surr: Toluene-d8</i>	<i>98.84</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>98.8</i>	<i>70-130</i>	<i>105.8</i>	<i>6.81</i>	<i>30</i>	

The following samples were analyzed in this batch:

1208716-01A

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



**Client:** HRL Compliance Solutions  
**Work Order:** 1208716  
**Project:** Lone Mountain Prod. Co. Fees 29-8 Pit Clos 8/16/1

## QC BATCH REPORT

Batch ID: **43217**      Instrument ID **HG1**      Method: **SW7471**

<b>MBLK</b>		Sample ID: <b>MBLK-43217-43217</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/29/2012 01:23 PM</b>		
Client ID:		Run ID: <b>HG1_120829A</b>				SeqNo: <b>2065315</b>		Prep Date: <b>8/29/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury      ND      0.020

<b>LCS</b>		Sample ID: <b>LCS-43217-43217</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/29/2012 01:25 PM</b>		
Client ID:		Run ID: <b>HG1_120829A</b>				SeqNo: <b>2065317</b>		Prep Date: <b>8/29/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury      0.1705      0.020      0.1665      0      102      80-120      0

<b>MS</b>		Sample ID: <b>1208716-01BMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/29/2012 02:02 PM</b>		
Client ID: <b>Pit Bottom</b>		Run ID: <b>HG1_120829A</b>				SeqNo: <b>2065339</b>		Prep Date: <b>8/29/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury      0.1802      0.017      0.1405      0.03686      102      75-125      0

<b>MSD</b>		Sample ID: <b>1208716-01BMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/29/2012 02:04 PM</b>		
Client ID: <b>Pit Bottom</b>		Run ID: <b>HG1_120829A</b>				SeqNo: <b>2065340</b>		Prep Date: <b>8/29/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury      0.1671      0.016      0.132      0.03686      98.7      75-125      0.1802      7.52      35

The following samples were analyzed in this batch:

1208716-01B

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1208716  
**Project:** Lone Mountain Prod. Co. Fees 29-8 Pit Clos 8/16/1

## QC BATCH REPORT

Batch ID: **43163**      Instrument ID **ICPMS1**      Method: **SW6020A**

<b>MBLK</b>		Sample ID: <b>MBLK-43163-43163</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/24/2012 08:25 PM</b>		
Client ID:		Run ID: <b>ICPMS1_120824A</b>				SeqNo: <b>2062308</b>		Prep Date: <b>8/24/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Barium	0.02034	0.25								J
Cadmium	0.01886	0.10								J
Chromium	0.0675	0.25								J
Copper	ND	0.25								
Lead	0.02736	0.25								J
Nickel	0.00513	0.25								J
Selenium	0.02084	0.25								J
Silver	ND	0.25								
Zinc	ND	0.50								

<b>LCS</b>		Sample ID: <b>LCS-43163-43163</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/24/2012 10:04 PM</b>		
Client ID:		Run ID: <b>ICPMS1_120824A</b>				SeqNo: <b>2062325</b>		Prep Date: <b>8/24/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.337	0.25	5	0	86.7	80-120	0			
Barium	4.46	0.25	5	0	89.2	80-120	0			
Cadmium	4.62	0.10	5	0	92.4	80-120	0			
Chromium	4.55	0.25	5	0	91	80-120	0			
Copper	4.442	0.25	5	0	88.8	80-120	0			
Lead	4.611	0.25	5	0	92.2	80-120	0			
Nickel	4.5	0.25	5	0	90	80-120	0			
Silver	4.473	0.25	5	0	89.5	80-120	0			
Zinc	4.13	0.50	5	0	82.6	80-120	0			

<b>LCS</b>		Sample ID: <b>LCS-43163-43163</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/28/2012 02:26 PM</b>		
Client ID:		Run ID: <b>ICPMS1_120828A</b>				SeqNo: <b>2064409</b>		Prep Date: <b>8/24/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	4.035	0.25	5	0	80.7	80-120	0			

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1208716  
**Project:** Lone Mountain Prod. Co. Fees 29-8 Pit Clos 8/16/1

## QC BATCH REPORT

Batch ID: **43163** Instrument ID **ICPMS1** Method: **SW6020A**

MS Sample ID: <b>1208665-01BMS</b>				Units: <b>mg/Kg</b>			Analysis Date: <b>8/24/2012 11:20 PM</b>			
Client ID:		Run ID: <b>ICPMS1_120824A</b>			SeqNo: <b>2062339</b>		Prep Date: <b>8/24/2012</b>		DF: <b>2</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.643	0.71	7.102	2.982	93.8	75-125	0			
Cadmium	7.043	0.28	7.102	0.1751	96.7	75-125	0			
Chromium	33.95	0.71	7.102	24.26	136	75-125	0			S
Copper	19.94	0.71	7.102	11.79	115	75-125	0			
Lead	31.89	0.71	7.102	17.76	199	75-125	0			S
Nickel	20.6	0.71	7.102	11.99	121	75-125	0			
Selenium	6.307	0.71	7.102	0.391	83.3	75-125	0			
Silver	5.866	0.71	7.102	0.04182	82	75-125	0			
Zinc	52.13	1.4	7.102	36.56	219	75-125	0			SO

MS Sample ID: <b>1208665-01BMS</b>				Units: <b>mg/Kg</b>			Analysis Date: <b>8/27/2012 06:10 PM</b>			
Client ID:		Run ID: <b>ICPMS1_120827A</b>			SeqNo: <b>2063606</b>		Prep Date: <b>8/24/2012</b>		DF: <b>20</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	1035	7.1	7.102	1152	-1640	75-125	0			BSO

MSD Sample ID: <b>1208665-01BMSD</b>				Units: <b>mg/Kg</b>			Analysis Date: <b>8/24/2012 11:25 PM</b>			
Client ID:		Run ID: <b>ICPMS1_120824A</b>			SeqNo: <b>2062340</b>		Prep Date: <b>8/24/2012</b>		DF: <b>2</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.661	0.67	6.667	2.982	100	75-125	9.643	0.185	25	
Cadmium	6.96	0.27	6.667	0.1751	102	75-125	7.043	1.18	25	
Chromium	34.08	0.67	6.667	24.26	147	75-125	33.95	0.386	25	S
Copper	18.4	0.67	6.667	11.79	99.1	75-125	19.94	8.05	25	
Lead	29.08	0.67	6.667	17.76	170	75-125	31.89	9.22	25	S
Nickel	19.87	0.67	6.667	11.99	118	75-125	20.6	3.61	25	
Selenium	6.252	0.67	6.667	0.391	87.9	75-125	6.307	0.873	25	
Silver	5.741	0.67	6.667	0.04182	85.5	75-125	5.866	2.16	25	
Zinc	45.93	1.3	6.667	36.56	141	75-125	52.13	12.6	25	SO

MSD Sample ID: <b>1208665-01BMSD</b>				Units: <b>mg/Kg</b>			Analysis Date: <b>8/27/2012 06:15 PM</b>			
Client ID:		Run ID: <b>ICPMS1_120827A</b>			SeqNo: <b>2063607</b>		Prep Date: <b>8/24/2012</b>		DF: <b>20</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	1257	6.7	6.667	1152	1580	75-125	1035	19.4	25	BSO

The following samples were analyzed in this batch:

1208716-01B

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1208716  
**Project:** Lone Mountain Prod. Co. Fees 29-8 Pit Clos 8/16/1

## QC BATCH REPORT

Batch ID: **43175**      Instrument ID **SVMS7**      Method: **SW8270**

<b>MBLK</b>		Sample ID: <b>SBLKS1-43175-43175</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>8/28/2012 10:17 AM</b>		
Client ID:		Run ID: <b>SVMS7_120828A</b>				SeqNo: <b>2063926</b>		Prep Date: <b>8/27/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	30								
Anthracene	ND	30								
Benzo(a)anthracene	ND	30								
Benzo(a)pyrene	ND	30								
Benzo(b)fluoranthene	ND	30								
Benzo(g,h,i)perylene	ND	30								
Benzo(k)fluoranthene	ND	30								
Chrysene	ND	30								
Dibenzo(a,h)anthracene	ND	30								
Fluoranthene	ND	30								
Fluorene	ND	30								
Indeno(1,2,3-cd)pyrene	ND	30								
Naphthalene	ND	30								
Pyrene	ND	30								
<i>Surr: 2-Fluorobiphenyl</i>	1363	0	1667	0	81.8	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1789	0	1667	0	107	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1386	0	1667	0	83.1	37-107	0			

<b>LCS</b>		Sample ID: <b>SLCSS1-43175-43175</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>8/28/2012 08:53 AM</b>		
Client ID:		Run ID: <b>SVMS7_120828A</b>				SeqNo: <b>2063923</b>		Prep Date: <b>8/27/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	531	30	666.7	0	79.6	45-110	0			
Anthracene	529.7	30	666.7	0	79.4	55-105	0			
Benzo(a)anthracene	617.3	30	666.7	0	92.6	50-110	0			
Benzo(a)pyrene	522.7	30	666.7	0	78.4	50-110	0			
Benzo(b)fluoranthene	642.3	30	666.7	0	96.3	45-115	0			
Benzo(g,h,i)perylene	642.7	30	666.7	0	96.4	40-125	0			
Benzo(k)fluoranthene	513.7	30	666.7	0	77	45-115	0			
Chrysene	581.7	30	666.7	0	87.2	55-110	0			
Dibenzo(a,h)anthracene	685	30	666.7	0	103	40-125	0			
Fluoranthene	560	30	666.7	0	84	55-115	0			
Fluorene	517.3	30	666.7	0	77.6	50-110	0			
Indeno(1,2,3-cd)pyrene	717	30	666.7	0	108	40-120	0			
Naphthalene	529	30	666.7	0	79.3	40-105	0			
Pyrene	572.3	30	666.7	0	85.8	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1418	0	1667	0	85.1	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1751	0	1667	0	105	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1414	0	1667	0	84.9	37-107	0			

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1208716  
**Project:** Lone Mountain Prod. Co. Fees 29-8 Pit Clos 8/16/1

## QC BATCH REPORT

Batch ID: **43175**      Instrument ID **SVMS7**      Method: **SW8270**

MS				Sample ID: <b>1208716-01B MS</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>8/28/2012 09:21 AM</b>	
Client ID: <b>Pit Bottom</b>				Run ID: <b>SVMS7_120828A</b>			SeqNo: <b>2063924</b>		Prep Date: <b>8/27/2012</b>	
							DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	960.4	58	1288	0	74.5	45-110	0			
Anthracene	1025	58	1288	0	79.5	55-105	0			
Benzo(a)anthracene	1190	58	1288	0	92.4	50-110	0			
Benzo(a)pyrene	1041	58	1288	0	80.8	50-110	0			
Benzo(b)fluoranthene	1187	58	1288	0	92.1	45-115	0			
Benzo(g,h,i)perylene	1243	58	1288	0	96.4	40-125	0			
Benzo(k)fluoranthene	1080	58	1288	0	83.8	45-115	0			
Chrysene	1165	58	1288	0	90.4	55-110	0			
Dibenzo(a,h)anthracene	1327	58	1288	0	103	40-125	0			
Fluoranthene	1112	58	1288	0	86.3	55-115	0			
Fluorene	954	58	1288	0	74	50-110	0			
Indeno(1,2,3-cd)pyrene	1388	58	1288	0	108	40-120	0			
Naphthalene	985.6	58	1288	18.49	75.1	40-105	0			
Pyrene	1111	58	1288	0	86.2	45-125	0			
Surr: 2-Fluorobiphenyl	2573	0	3221	0	79.9	12-100	0			
Surr: 4-Terphenyl-d14	3316	0	3221	0	103	25-137	0			
Surr: Nitrobenzene-d5	2564	0	3221	0	79.6	37-107	0			

MSD				Sample ID: <b>1208716-01B MSD</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>8/28/2012 09:49 AM</b>	
Client ID: <b>Pit Bottom</b>				Run ID: <b>SVMS7_120828A</b>			SeqNo: <b>2063925</b>		Prep Date: <b>8/27/2012</b>	
							DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1001	59	1312	0	76.3	45-110	960.4	4.17	30	
Anthracene	1030	59	1312	0	78.5	55-105	1025	0.452	30	
Benzo(a)anthracene	1191	59	1312	0	90.8	50-110	1190	0.0891	30	
Benzo(a)pyrene	1044	59	1312	0	79.6	50-110	1041	0.284	30	
Benzo(b)fluoranthene	1237	59	1312	0	94.3	45-115	1187	4.09	30	
Benzo(g,h,i)perylene	1200	59	1312	0	91.5	40-125	1243	3.49	30	
Benzo(k)fluoranthene	1056	59	1312	0	80.5	45-115	1080	2.17	30	
Chrysene	1156	59	1312	0	88.1	55-110	1165	0.74	30	
Dibenzo(a,h)anthracene	1289	59	1312	0	98.3	40-125	1327	2.89	30	
Fluoranthene	1087	59	1312	0	82.8	55-115	1112	2.3	30	
Fluorene	983.6	59	1312	0	75	50-110	954	3.06	30	
Indeno(1,2,3-cd)pyrene	1348	59	1312	0	103	40-120	1388	2.92	30	
Naphthalene	1018	59	1312	18.49	76.2	40-105	985.6	3.21	30	
Pyrene	1098	59	1312	0	83.7	45-125	1111	1.16	30	
Surr: 2-Fluorobiphenyl	2660	0	3279	0	81.1	12-100	2573	3.3	40	
Surr: 4-Terphenyl-d14	3230	0	3279	0	98.5	25-137	3316	2.61	40	
Surr: Nitrobenzene-d5	2622	0	3279	0	80	37-107	2564	2.23	40	

The following samples were analyzed in this batch: | 1208716-01B |

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1208716  
**Project:** Lone Mountain Prod. Co. Fees 29-8 Pit Clos 8/16/1

## QC BATCH REPORT

Batch ID: **43144**      Instrument ID **VMS7**      Method: **SW8260**

<b>MBLK</b>		Sample ID: <b>MBLK-43144-43144</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>8/23/2012 02:24 PM</b>		
Client ID:		Run ID: <b>VMS7_120823A</b>				SeqNo: <b>2061489</b>		Prep Date: <b>8/23/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	1098	0	1000	0	110	70-130	0			
Surr: 4-Bromofluorobenzene	987	0	1000	0	98.7	70-130	0			
Surr: Dibromofluoromethane	1014	0	1000	0	101	70-130	0			
Surr: Toluene-d8	1006	0	1000	0	101	70-130	0			

<b>LCS</b>		Sample ID: <b>LCS-43144-43144</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>8/23/2012 01:08 PM</b>		
Client ID:		Run ID: <b>VMS7_120823A</b>				SeqNo: <b>2061488</b>		Prep Date: <b>8/23/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1016	30	1000	0	102	75-125	0			
Ethylbenzene	1030	30	1000	0	103	75-125	0			
m,p-Xylene	2089	60	2000	0	104	80-125	0			
o-Xylene	1034	30	1000	0	103	75-125	0			
Toluene	1004	30	1000	0	100	70-125	0			
Xylenes, Total	3124	90	3000	0	104	75-125	0			
Surr: 1,2-Dichloroethane-d4	1032	0	1000	0	103	70-130	0			
Surr: 4-Bromofluorobenzene	969	0	1000	0	96.9	70-130	0			
Surr: Dibromofluoromethane	1026	0	1000	0	103	70-130	0			
Surr: Toluene-d8	999	0	1000	0	99.9	70-130	0			

<b>MS</b>		Sample ID: <b>1208716-01A MS</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>8/23/2012 10:00 PM</b>		
Client ID: <b>Pit Bottom</b>		Run ID: <b>VMS7_120823A</b>				SeqNo: <b>2061468</b>		Prep Date: <b>8/23/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1111	30	1000	0	111	75-125	0			
Ethylbenzene	1084	30	1000	0	108	75-125	0			
m,p-Xylene	2448	60	2000	320	106	80-125	0			
o-Xylene	1144	30	1000	90	105	75-125	0			
Toluene	1092	30	1000	38.5	105	70-125	0			
Xylenes, Total	3592	90	3000	410	106	75-125	0			
Surr: 1,2-Dichloroethane-d4	1114	0	1000	0	111	70-130	0			
Surr: 4-Bromofluorobenzene	1007	0	1000	0	101	70-130	0			
Surr: Dibromofluoromethane	1062	0	1000	0	106	70-130	0			
Surr: Toluene-d8	1020	0	1000	0	102	70-130	0			

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1208716  
**Project:** Lone Mountain Prod. Co. Fees 29-8 Pit Clos 8/16/1

## QC BATCH REPORT

Batch ID: **43144**      Instrument ID **VMS7**      Method: **SW8260**

MSD				Sample ID: <b>1208716-01A MSD</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>8/23/2012 10:25 PM</b>	
Client ID: <b>Pit Bottom</b>				Run ID: <b>VMS7_120823A</b>			SeqNo: <b>2061471</b>		Prep Date: <b>8/23/2012</b>	
							DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1056	30	1000	0	106	75-125	1111	5.03	30	
Ethylbenzene	1068	30	1000	0	107	75-125	1084	1.53	30	
m,p-Xylene	2430	60	2000	320	105	80-125	2448	0.738	30	
o-Xylene	1124	30	1000	90	103	75-125	1144	1.72	30	
Toluene	1077	30	1000	38.5	104	70-125	1092	1.34	30	
Xylenes, Total	3554	90	3000	410	105	75-125	3592	1.05	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1026</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>103</i>	<i>70-130</i>	<i>1114</i>	<i>8.13</i>	<i>30</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>991</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.1</i>	<i>70-130</i>	<i>1007</i>	<i>1.6</i>	<i>30</i>	
<i>Surr: Dibromofluoromethane</i>	<i>1026</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>103</i>	<i>70-130</i>	<i>1062</i>	<i>3.4</i>	<i>30</i>	
<i>Surr: Toluene-d8</i>	<i>1016</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>102</i>	<i>70-130</i>	<i>1020</i>	<i>0.344</i>	<i>30</i>	

The following samples were analyzed in this batch: | 1208716-01A |

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1208716  
**Project:** Lone Mountain Prod. Co. Fees 29-8 Pit Clos 8/16/1

## QC BATCH REPORT

Batch ID: **43193**      Instrument ID **WETCHEM**      Method: **SW7196A**

<b>MBLK</b>		Sample ID: <b>MBLK-43193-43193</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/27/2012 02:10 PM</b>		
Client ID:		Run ID: <b>WETCHEM_120827E</b>				SeqNo: <b>2063037</b>		Prep Date: <b>8/23/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent      ND      0.50

<b>LCS</b>		Sample ID: <b>LCS-43193-43193</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/27/2012 02:10 PM</b>		
Client ID:		Run ID: <b>WETCHEM_120827E</b>				SeqNo: <b>2063038</b>		Prep Date: <b>8/23/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent      1.75      0.50      1.984      0      88.2      75-110      0

<b>MS</b>		Sample ID: <b>1208665-01B MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/27/2012 02:10 PM</b>		
Client ID:		Run ID: <b>WETCHEM_120827E</b>				SeqNo: <b>2063045</b>		Prep Date: <b>8/23/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent      1.044      0.50      2      0      52.2      60-130      0      S

<b>MSD</b>		Sample ID: <b>1208665-01B MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/27/2012 02:10 PM</b>		
Client ID:		Run ID: <b>WETCHEM_120827E</b>				SeqNo: <b>2063046</b>		Prep Date: <b>8/23/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent      1.028      0.49      1.969      0      52.2      60-130      1.044      1.59      30      S

The following samples were analyzed in this batch:

1208716-01B

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



**Client:** HRL Compliance Solutions  
**Work Order:** 1208716  
**Project:** Lone Mountain Prod. Co. Fees 29-8 Pit Clos 8/16/1

## QC BATCH REPORT

Batch ID: **R108916**      Instrument ID **WETCHEM**      Method: **A4500-H B**

LCS		Sample ID: LCS-R108916-R108916					Units: s.u.		Analysis Date: 8/23/2012 09:30 AM		
Client ID:			Run ID: WETCHEM_120823Q			SeqNo: 2060922		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

pH      4.54      0      4.4      0      103      90-110      0

LCS		Sample ID: LCS-R108916-R108916					Units: s.u.		Analysis Date: 8/23/2012 09:30 AM		
Client ID:			Run ID: WETCHEM_120823Q			SeqNo: 2060925		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

pH      4.54      0      4.4      0      103      90-110      0

DUP				Sample ID: 1208724-01A DUP				Units: s.u.			Analysis Date: 8/23/2012 09:30 AM			
Client ID:				Run ID: WETCHEM_120823Q				SeqNo: 2060924			Prep Date:		DF: 1	
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		

pH      6.74      0      0      0      0      0-0      6.74      0      20

DUP		Sample ID: 1208699-01A DUP				Units: s.u.		Analysis Date: 8/23/2012 09:30 AM		
Client ID:		Run ID: WETCHEM_120823Q			SeqNo: 2060930		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH      7.71      0      0      0      0      0-0      7.71      0      20

The following samples were analyzed in this batch:

1208716-01B

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1208716  
**Project:** Lone Mountain Prod. Co. Fees 29-8 Pit Clos 8/16/1

## QC BATCH REPORT

Batch ID: **R108930** Instrument ID **MOIST** Method: **A2540 G**

<b>MBLK</b>		Sample ID: <b>WBLKS1-R108930</b>				Units: % of sample		Analysis Date: <b>8/23/2012 05:20 PM</b>		
Client ID:		Run ID: <b>MOIST_120823A</b>				SeqNo: <b>2061358</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

Moisture ND 0.050

<b>LCS</b>		Sample ID: <b>LCS-R108930</b>				Units: % of sample		Analysis Date: <b>8/23/2012 05:20 PM</b>		
Client ID:		Run ID: <b>MOIST_120823A</b>				SeqNo: <b>2061354</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

Moisture 100 0.050 100 0 100 99.5-100.5 0

<b>DUP</b>		Sample ID: <b>1208716-01B DUP</b>				Units: % of sample		Analysis Date: <b>8/23/2012 05:20 PM</b>		
Client ID: <b>Pit Bottom</b>		Run ID: <b>MOIST_120823A</b>				SeqNo: <b>2061350</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

Moisture 2.67 0.050 0 0 0 0-0 2.75 2.95 20

The following samples were analyzed in this batch:

1208716-01B



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

[illegible]

\*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.

<b>Comments:</b> <div style="text-align: center; font-size: 2em; margin-top: 20px;">3.0°C</div>	<b>QC PACKAGE (check below)</b>	
	X	LEVEL II (Standard QC)
		LEVEL III (Std QC + forms)
		LEVEL IV (Std QC + forms + raw data)
<b>Preservative Key:</b> 1-HCl    2-HNO <sub>3</sub> 3-H <sub>2</sub> SO <sub>4</sub> 4-NaOH    5-NaHSO <sub>4</sub> 7-Other    8-4 degrees C    9-5035		

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Dan Pinegar	8/22/2012	5:00 PM
RECEIVED BY		Diane F Shaw	8/23/12	1130
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 23-Aug-12 11:30

Work Order: 1208716

Received by: DS

Checklist completed by Diane Shaw 23-Aug-12  
eSignature Date

Reviewed by: Ann Preston 23-Aug-12  
eSignature Date

Matrices: Soil

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"/>	
Temperature(s)/Thermometer(s):	<u>3.0 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>8/23/2012 11:57:09 AM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:			
Login Notes:			

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

**ALS Environmental**

3352 128th Avenue  
Holland, Michigan 49424  
Tel. +1 616 399 6070  
Fax. +1 616 399 6185

**CUSTODY SEAL**

Date: 2-22-02 Time: 1:00 PM  
Name: DAN PINEGAR  
Company: ALS

Seal Broken By: \_\_\_\_\_

Date: \_\_\_\_\_

**Ex Retrieval Copy**

fedex.com 1800.GoFedEx 1800.463.3339

Sender's Name: DAN PINEGAR Phone: 972 243-3771

Company: ALS

Address: 3352 128th Ave

City: GRAND JUNCTION State: CO ZIP: 81505

**2 Your Internal Billing Reference**

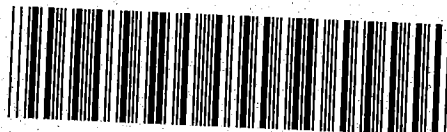
3 To Recipient's Name: RECEIVING Phone: 616 399-6070

Company: ALS GROUP

Address: 3352 128th Ave

Address: 3352 128th Ave

City: HOLLAND State: MI ZIP: 49424



8717 2931 7864

- 1 ☒ FedEx Priority Overnight  
Next business morning. \* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- 5 ☐ FedEx Standard Overnight  
Next business afternoon. \* Saturday Delivery NOT available.
- 3 ☐ FedEx 2Day  
Second business day. \* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- 20 ☐ FedEx Express Saver  
Third business day. \* Saturday Delivery NOT available.

- 4b Express Freight Service  
Next business day. \* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- 83 ☐ FedEx 3Day Freight  
Third business day. \* Saturday Delivery NOT available.

- 8 ☐ FedEx 2Day Freight  
Second business day. \* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- 5 ☐ Packaging  
Declared value limit \$500.
- 6 ☐ FedEx Envelope\* 2 ☐ FedEx Pak\*  
Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- 3 ☐ FedEx Box 4 ☐ FedEx Tube 1 ☒ Other

**3 SATURDAY DELIVERY**

- 10 ☐ Direct Signature  
Someone at recipient's address may sign for delivery. Fee applies.
- 34 ☐ Indirect Signature  
If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.
- Does this shipment contain dangerous goods?  
One box must be checked.
- ☒ No 4 ☐ Yes  
As per attached Shipper's Declaration.
- 6 ☐ Dry Ice  
Dry ice, 9, UN 1845
- ☐ Cargo Aircraft Only

- 7 Payment Bill to:
- 1 ☐ Sender  
Acct. No. in Section 7 will be billed.
- 2 ☐ Recipient
- 3 ☐ Third Party
- 4 ☐ Credit Card
- 5 ☐ Cash/Check
- Total Packages: \_\_\_\_\_ Total Weight: \_\_\_\_\_ lbs.
- Credit Card Auth. \_\_\_\_\_

\*Our liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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