



30-Jun-2014

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

Re: **Federal 28-3 Pit Closure 6.20.14**

Work Order: **14061226**

Dear Mark,

ALS Environmental received 4 samples on 24-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 27.

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: 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 The ALS logo, a stylized blue triangle with a yellow flame-like shape inside.

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RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: Federal 28-3 Pit Closure 6.20.14
Work Order: 14061226

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>
14061226-01	Pit Bottom	Soil		6/20/2014 12:45	6/24/2014 09:30	<input type="checkbox"/>
14061226-02	Bkgd 1	Soil		6/20/2014 12:55	6/24/2014 09:30	<input type="checkbox"/>
14061226-03	Bkgd 2	Soil		6/20/2014 13:05	6/24/2014 09:30	<input type="checkbox"/>
14061226-04	Bkgd 3	Soil		6/20/2014 13:10	6/24/2014 09:30	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: Federal 28-3 Pit Closure 6.20.14
Work Order: 14061226

Case Narrative

Batch 60013 MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Batch 60032 MS/MSD data for PAHs is not related to this project's samples. No data requires qualification.

Batch 60130 sample Pit Bottom MS/MSD recoveries for Hexavalent Chromium were below the control limit due to matrix interference. The corresponding result in the parent sample may be biased low for Hexavalent Chromium.

<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
LCSD	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>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter
mmhos/cm @25°C	Millimhos-Centimeter at 25 Degrees Celcius
none	
s.u.	Standard Units

ALS Group USA, Corp

Date: 30-Jun-14

Client: HRL Compliance Solutions, Inc
Project: Federal 28-3 Pit Closure 6.20.14
Sample ID: Pit Bottom
Collection Date: 6/20/2014 12:45 PM

Work Order: 14061226
Lab ID: 14061226-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	170		SW8015M		Prep: SW3541 / 6/25/14	Analyst: IT
<i>Surr: 4-Terphenyl-d14</i>	79.9		5.0	mg/Kg-dry	1	6/25/2014 11:46 PM
			39-133	%REC	1	6/25/2014 11:46 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015		Prep: SW5035 / 6/24/14	Analyst: IT
<i>Surr: Toluene-d8</i>	97.4		3.0	mg/Kg-dry	1	6/24/2014 10:06 PM
			50-150	%REC	1	6/24/2014 10:06 PM
MERCURY BY CVAA						
Mercury	0.044		SW7471		Prep: SW7471 / 6/26/14	Analyst: LR
			0.017	mg/Kg-dry	1	6/26/2014 09:26 PM
METALS BY ICP-MS						
Arsenic	4.8		SW6020A		Prep: SW3050B / 6/24/14	Analyst: ML
Barium	140		2.3	mg/Kg-dry	5	6/25/2014 08:18 AM
Cadmium	ND		2.3	mg/Kg-dry	5	6/25/2014 08:18 AM
Chromium	11		0.91	mg/Kg-dry	5	6/25/2014 08:18 AM
Copper	14		2.3	mg/Kg-dry	5	6/25/2014 08:18 AM
Lead	17		2.3	mg/Kg-dry	5	6/25/2014 08:18 AM
Nickel	18		2.3	mg/Kg-dry	5	6/25/2014 08:18 AM
Selenium	ND		2.3	mg/Kg-dry	5	6/25/2014 08:18 AM
Silver	ND		2.3	mg/Kg-dry	5	6/25/2014 08:18 AM
Zinc	70		4.6	mg/Kg-dry	5	6/25/2014 08:18 AM
SOLUBLE CATIONS FOR SAR						
Calcium	1,600		SW6020A		Prep: USDA Method 20B / 6/27/14	Analyst: RH
Magnesium	420		100	mg/L	200	6/30/2014 01:26 AM
Sodium	7,300		40	mg/L	200	6/30/2014 01:26 AM
			40	mg/L	200	6/30/2014 01:26 AM
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	42		USDA H60 METHO		Prep: USDA Method 20B / 6/27/14	Analyst: ML
			0.010	none	1	6/29/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
Acenaphthene	ND		SW8270		Prep: SW3541 / 6/25/14	Analyst: RM
Acenaphthylene	ND		8.0	µg/Kg-dry	1	6/26/2014 09:49 PM
Anthracene	ND		8.0	µg/Kg-dry	1	6/26/2014 09:49 PM
Benzo(a)anthracene	36		8.0	µg/Kg-dry	1	6/26/2014 09:49 PM
Benzo(a)pyrene	ND		8.0	µg/Kg-dry	1	6/26/2014 09:49 PM
Benzo(b)fluoranthene	ND		8.0	µg/Kg-dry	1	6/26/2014 09:49 PM
Benzo(g,h,i)perylene	ND		8.0	µg/Kg-dry	1	6/26/2014 09:49 PM
Benzo(k)fluoranthene	ND		8.0	µg/Kg-dry	1	6/26/2014 09:49 PM
Chrysene	ND		8.0	µg/Kg-dry	1	6/26/2014 09:49 PM

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

ALS Group USA, Corp

Date: 30-Jun-14

Client: HRL Compliance Solutions, Inc
Project: Federal 28-3 Pit Closure 6.20.14
Sample ID: Pit Bottom
Collection Date: 6/20/2014 12:45 PM

Work Order: 14061226
Lab ID: 14061226-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		8.0	µg/Kg-dry	1	6/26/2014 09:49 PM
Fluoranthene	23		8.0	µg/Kg-dry	1	6/26/2014 09:49 PM
Fluorene	43		8.0	µg/Kg-dry	1	6/26/2014 09:49 PM
Indeno(1,2,3-cd)pyrene	ND		8.0	µg/Kg-dry	1	6/26/2014 09:49 PM
Naphthalene	38		8.0	µg/Kg-dry	1	6/26/2014 09:49 PM
Pyrene	ND		8.0	µg/Kg-dry	1	6/26/2014 09:49 PM
Surr: 2-Fluorobiphenyl	66.8		12-100	%REC	1	6/26/2014 09:49 PM
Surr: 4-Terphenyl-d14	80.3		25-137	%REC	1	6/26/2014 09:49 PM
Surr: Nitrobenzene-d5	46.5		37-107	%REC	1	6/26/2014 09:49 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 6/24/14		Analyst: RS
Benzene	ND		36	µg/Kg-dry	1	6/28/2014 12:42 PM
Ethylbenzene	ND		36	µg/Kg-dry	1	6/28/2014 12:42 PM
m,p-Xylene	110		73	µg/Kg-dry	1	6/28/2014 12:42 PM
o-Xylene	ND		36	µg/Kg-dry	1	6/28/2014 12:42 PM
Toluene	ND		36	µg/Kg-dry	1	6/28/2014 12:42 PM
Xylenes, Total	130		110	µg/Kg-dry	1	6/28/2014 12:42 PM
Surr: 1,2-Dichloroethane-d4	97.0		70-130	%REC	1	6/28/2014 12:42 PM
Surr: 4-Bromofluorobenzene	97.7		70-130	%REC	1	6/28/2014 12:42 PM
Surr: Dibromofluoromethane	95.1		70-130	%REC	1	6/28/2014 12:42 PM
Surr: Toluene-d8	97.6		70-130	%REC	1	6/28/2014 12:42 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 6/27/14		Analyst: JB
Electrical Conductivity @ Saturation	54		0.050	mmhos/cm @25	10	6/27/2014 12:00 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: EE
Chromium, Trivalent	11		0.60	mg/Kg-dry	1	6/30/2014 12:45 PM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 6/28/14		Analyst: JI
Chromium, Hexavalent	ND		0.60	mg/Kg-dry	1	6/28/2014 03:25 PM
MOISTURE			A2540 G			Analyst: TM
Moisture	17		0.050	% of sample	1	6/24/2014 02:33 PM
PH			SW9045D	Prep: EXTRACT / 6/24/14		Analyst: TM
pH	7.3			s.u.	1	6/25/2014 10:22 AM

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

ALS Group USA, Corp

Date: 30-Jun-14

Client: HRL Compliance Solutions, Inc

Project: Federal 28-3 Pit Closure 6.20.14

Sample ID: Bkgd 1

Collection Date: 6/20/2014 12:55 PM

Work Order: 14061226

Lab ID: 14061226-02

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 6/24/14	Analyst: ML
Arsenic	3.8		2.0	mg/Kg-dry	5	6/25/2014 08:24 AM
SOLUBLE CATIONS FOR SAR			SW6020A		Prep: USDA Method 20B / 6/27/14	Analyst: RH
Calcium	290		10	mg/L	20	6/30/2014 01:33 AM
Magnesium	77		4.0	mg/L	20	6/30/2014 01:33 AM
Sodium	1,300		4.0	mg/L	20	6/30/2014 01:33 AM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep: USDA Method 20B / 6/27/14	Analyst: ML
Sodium Adsorption Ratio	17		0.010	none	1	6/29/2014
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep: USDA Method 20B / 6/27/14	Analyst: JB
Electrical Conductivity @ Saturation	8.6		0.050	mmhos/cm @25	10	6/27/2014 12:00 PM
MOISTURE			A2540 G			Analyst: TM
Moisture	0.79		0.050	% of sample	1	6/24/2014 02:33 PM
PH			SW9045D		Prep: EXTRACT / 6/24/14	Analyst: TM
pH	8.5			s.u.	1	6/25/2014 10:22 AM

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

ALS Group USA, Corp

Date: 30-Jun-14

Client: HRL Compliance Solutions, Inc

Project: Federal 28-3 Pit Closure 6.20.14

Sample ID: Bkgd 2

Collection Date: 6/20/2014 01:05 PM

Work Order: 14061226

Lab ID: 14061226-03

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>						
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 6/24/14	Analyst: ML
Arsenic	4.2		1.9	mg/Kg-dry	5	6/25/2014 08:30 AM
MOISTURE			A2540 G			Analyst: TM
Moisture	0.23		0.050	% of sample	1	6/24/2014 02:33 PM

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

ALS Group USA, Corp

Date: 30-Jun-14

Client: HRL Compliance Solutions, Inc

Project: Federal 28-3 Pit Closure 6.20.14

Sample ID: Bkgd 3

Collection Date: 6/20/2014 01:10 PM

Work Order: 14061226

Lab ID: 14061226-04

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>						
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 6/24/14	Analyst: ML
Arsenic	3.4		1.8	mg/Kg-dry	5	6/25/2014 08:36 AM
MOISTURE			A2540 G			Analyst: TM
Moisture	0.36		0.050	% of sample	1	6/24/2014 02:33 PM

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

Client: HRL Compliance Solutions, Inc
Work Order: 14061226
Project: Federal 28-3 Pit Closure 6.20.14

QC BATCH REPORT

Batch ID: **60033** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-60033-60033				Units: mg/Kg		Analysis Date: 6/25/2014 09:17 PM		
Client ID:		Run ID: GC8_140625A				SeqNo: 2824578		Prep Date: 6/25/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	5.0								
<i>Surr: 4-Terphenyl-d14</i>	<i>1.918</i>	<i>0</i>	<i>2</i>	<i>0</i>	<i>95.9</i>	<i>39-133</i>	<i>0</i>			

LCS		Sample ID: DLCSS1-60033-60033				Units: mg/Kg		Analysis Date: 6/25/2014 09:47 PM		
Client ID:		Run ID: GC8_140625A				SeqNo: 2824579		Prep Date: 6/25/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	151.9	5.0	200	0	76	61-109	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>1.532</i>	<i>0</i>	<i>2</i>	<i>0</i>	<i>76.6</i>	<i>39-133</i>	<i>0</i>			

MS		Sample ID: 14061229-01B MS				Units: mg/Kg		Analysis Date: 6/25/2014 10:17 PM		
Client ID:		Run ID: GC8_140625A				SeqNo: 2824580		Prep Date: 6/25/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	238.4	8.1	325.6	22.39	66.3	48-110	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>2.651</i>	<i>0</i>	<i>3.256</i>	<i>0</i>	<i>81.4</i>	<i>39-133</i>	<i>0</i>			

MSD		Sample ID: 14061229-01B MSD				Units: mg/Kg		Analysis Date: 6/25/2014 10:47 PM		
Client ID:		Run ID: GC8_140625A				SeqNo: 2824581		Prep Date: 6/25/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	247.8	7.8	313.3	22.39	71.9	48-110	238.4	3.86	30	
<i>Surr: 4-Terphenyl-d14</i>	<i>2.814</i>	<i>0</i>	<i>3.133</i>	<i>0</i>	<i>89.8</i>	<i>39-133</i>	<i>2.651</i>	<i>5.95</i>	<i>30</i>	

The following samples were analyzed in this batch:

14061226-01B

Client: HRL Compliance Solutions, Inc
Work Order: 14061226
Project: Federal 28-3 Pit Closure 6.20.14

QC BATCH REPORT

Batch ID: **60018** Instrument ID **GC10** Method: **SW8015**

MBLK		Sample ID: MBLK-60018-60018				Units: µg/Kg		Analysis Date: 6/24/2014 07:15 PM		
Client ID:		Run ID: GC10_140624B				SeqNo: 2823392		Prep Date: 6/24/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	2,500								
<i>Surr: Toluene-d8</i>	4896	0	5000	0	97.9	50-150	0			

LCS		Sample ID: LCS-60018-60018				Units: µg/Kg		Analysis Date: 6/24/2014 06:50 PM		
Client ID:		Run ID: GC10_140624B				SeqNo: 2823391		Prep Date: 6/24/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	469900	2,500	500000	0	94	70-130	0			
<i>Surr: Toluene-d8</i>	5665	0	5000	0	113	50-150	0			

MS		Sample ID: 14061222-01A MS				Units: µg/Kg		Analysis Date: 6/24/2014 08:04 PM		
Client ID:		Run ID: GC10_140624B				SeqNo: 2823394		Prep Date: 6/24/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	445100	2,500	500000	0	89	70-130	0			
<i>Surr: Toluene-d8</i>	5597	0	5000	0	112	50-150	0			

MS		Sample ID: 14061222-01A MS				Units: µg/Kg		Analysis Date: 6/24/2014 08:28 PM		
Client ID:		Run ID: GC10_140624B				SeqNo: 2823395		Prep Date: 6/24/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	433900	2,500	500000	0	86.8	70-130	0			
<i>Surr: Toluene-d8</i>	5508	0	5000	0	110	50-150	0			

The following samples were analyzed in this batch:

14061226-01A

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

Client: HRL Compliance Solutions, Inc
Work Order: 14061226
Project: Federal 28-3 Pit Closure 6.20.14

QC BATCH REPORT

Batch ID: **60083** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-60083-60083					Units: mg/Kg		Analysis Date: 6/26/2014 08:56 PM		
Client ID:			Run ID: HG1_140626A			SeqNo: 2826367		Prep Date: 6/26/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury ND 0.020

LCS		Sample ID: LCS-60083-60083					Units: mg/Kg		Analysis Date: 6/26/2014 08:58 PM		
Client ID:			Run ID: HG1_140626A			SeqNo: 2826368		Prep Date: 6/26/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.1592 0.020 0.1665 0 95.6 80-120 0

MS		Sample ID: 14061346-03BMS					Units: mg/Kg		Analysis Date: 6/26/2014 09:53 PM		
Client ID:			Run ID: HG1_140626A			SeqNo: 2826440		Prep Date: 6/26/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.1194 0.014 0.1168 0.004877 98 75-125 0

MSD		Sample ID: 14061346-03BMSD				Units: mg/Kg		Analysis Date: 6/26/2014 09:56 PM		
Client ID:			Run ID: HG1_140626A			SeqNo: 2826441		Prep Date: 6/26/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1218 0.015 0.1212 0.004877 96.5 75-125 0.1194 2.01 35

The following samples were analyzed in this batch:

14061226-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14061226
Project: Federal 28-3 Pit Closure 6.20.14

QC BATCH REPORT

Batch ID: **60013** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK				Sample ID: MBLK-60013-60013				Units: mg/Kg			Analysis Date: 6/25/2014 07:20 AM			
Client ID:				Run ID: ICPMS1_140624A				SeqNo: 2823102			Prep Date: 6/24/2014		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Arsenic		ND	0.25											
Barium		ND	0.25											
Cadmium		ND	0.10											
Chromium		ND	0.25											
Copper		ND	0.25											
Lead		ND	0.25											
Nickel		ND	0.25											
Selenium		ND	0.25											
Silver		ND	0.25											
Zinc		0.02792	0.50								J			

LCS				Sample ID: LCS-60013-60013			Units: mg/Kg		Analysis Date: 6/25/2014 07:44 AM		
Client ID:			Run ID: ICPMS1_140624A			SeqNo: 2823106		Prep Date: 6/24/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	4.496	0.25	5	0	89.9	80-120	0				
Barium	4.634	0.25	5	0	92.7	80-120	0				
Cadmium	4.57	0.10	5	0	91.4	80-120	0				
Chromium	4.91	0.25	5	0	98.2	80-120	0				
Copper	4.758	0.25	5	0	95.2	80-120	0				
Lead	4.467	0.25	5	0	89.3	80-120	0				
Nickel	4.89	0.25	5	0	97.8	80-120	0				
Selenium	4.378	0.25	5	0	87.6	80-120	0				
Silver	4.758	0.25	5	0	95.2	80-120	0				
Zinc	4.804	0.50	5	0	96.1	80-120	0				

MS				Sample ID: 14061235-06CMS			Units: mg/Kg		Analysis Date: 6/25/2014 11:40 AM		
Client ID:			Run ID: ICPMS1_140624A			SeqNo: 2823903		Prep Date: 6/24/2014		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	9.804	1.8	7.133	4.701	71.5	75-125	0			S	
Barium	92.33	1.8	7.133	78.52	194	75-125	0			SO	
Cadmium	6.812	0.71	7.133	0.3815	90.2	75-125	0				
Chromium	21.15	1.8	7.133	11.58	134	75-125	0			S	
Copper	31.07	1.8	7.133	31.37	-4.28	75-125	0			SO	
Lead	97.18	1.8	7.133	118.8	-304	75-125	0			SO	
Nickel	21.37	1.8	7.133	14.28	99.5	75-125	0				
Selenium	8.213	1.8	7.133	2.257	83.5	75-125	0				
Silver	6.273	1.8	7.133	0.1092	86.4	75-125	0				
Zinc	107.1	3.6	7.133	115.5	-118	75-125	0			SO	

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

Client: HRL Compliance Solutions, Inc
Work Order: 14061226
Project: Federal 28-3 Pit Closure 6.20.14

QC BATCH REPORT

Batch ID: **60013** Instrument ID **ICPMS1** Method: **SW6020A**

MSD		Sample ID: 14061235-06CMSD				Units: mg/Kg		Analysis Date: 6/25/2014 11:46 AM		
Client ID:		Run ID: ICPMS1_140624A				SeqNo: 2823904		Prep Date: 6/24/2014		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.06	1.7	6.944	4.701	77.2	75-125	9.804	2.57	25	
Barium	85.45	1.7	6.944	78.52	99.9	75-125	92.33	7.74	25	O
Cadmium	6.743	0.69	6.944	0.3815	91.6	75-125	6.812	1.01	25	
Chromium	19.74	1.7	6.944	11.58	118	75-125	21.15	6.91	25	
Copper	34.06	1.7	6.944	31.37	38.7	75-125	31.07	9.18	25	SO
Lead	110.9	1.7	6.944	118.8	-114	75-125	97.18	13.2	25	SO
Nickel	21.17	1.7	6.944	14.28	99.3	75-125	21.37	0.937	25	
Selenium	7.698	1.7	6.944	2.257	78.3	75-125	8.213	6.48	25	
Silver	6.069	1.7	6.944	0.1092	85.8	75-125	6.273	3.3	25	
Zinc	127.6	3.5	6.944	115.5	174	75-125	107.1	17.5	25	SO

The following samples were analyzed in this batch:

14061226-01B	14061226-02A	14061226-03A
14061226-04A		

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

Client: HRL Compliance Solutions, Inc
Work Order: 14061226
Project: Federal 28-3 Pit Closure 6.20.14

QC BATCH REPORT

Batch ID: **60090** Instrument ID **SAR** Method: **USDA H60 Method**

DUP				Sample ID: 14061229-02BDUP				Units: none			Analysis Date: 6/29/2014		
Client ID:				Run ID: SAR_140629A				SeqNo: 2829657		Prep Date: 6/27/2014		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
Sodium Adsorption Ratio		20.35	0.010	0	0	0		20.97	3	50			

The following samples were analyzed in this batch:

14061226-01C	14061226-02B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 14061226
Project: Federal 28-3 Pit Closure 6.20.14

QC BATCH REPORT

Batch ID: **60032** Instrument ID **SVMS8** Method: **SW8270**

MBLK		Sample ID: SBLKS1-60032-60032				Units: µg/Kg		Analysis Date: 6/26/2014 08:30 AM		
Client ID:		Run ID: SVMS8_140626A				SeqNo: 2825737		Prep Date: 6/25/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	6.7								
Acenaphthylene	ND	6.7								
Anthracene	ND	6.7								
Benzo(a)anthracene	ND	6.7								
Benzo(a)pyrene	ND	6.7								
Benzo(b)fluoranthene	ND	6.7								
Benzo(g,h,i)perylene	ND	6.7								
Benzo(k)fluoranthene	ND	6.7								
Chrysene	ND	6.7								
Dibenzo(a,h)anthracene	ND	6.7								
Fluoranthene	ND	6.7								
Fluorene	ND	6.7								
Indeno(1,2,3-cd)pyrene	ND	6.7								
Naphthalene	ND	6.7								
Pyrene	ND	6.7								
<i>Surr: 2-Fluorobiphenyl</i>	1178	0	1667	0	70.7	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1625	0	1667	0	97.5	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1003	0	1667	0	60.2	37-107	0			

LCS		Sample ID: SLCSS1-60032-60032				Units: µg/Kg		Analysis Date: 6/26/2014 08:50 AM		
Client ID:		Run ID: SVMS8_140626A				SeqNo: 2825738		Prep Date: 6/25/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	588.7	6.7	666.7	0	88.3	45-110	0			
Acenaphthylene	620.3	6.7	666.7	0	93	45-105	0			
Anthracene	682.3	6.7	666.7	0	102	55-105	0			
Benzo(a)anthracene	635	6.7	666.7	0	95.2	50-110	0			
Benzo(a)pyrene	713	6.7	666.7	0	107	50-110	0			
Benzo(b)fluoranthene	679.3	6.7	666.7	0	102	45-115	0			
Benzo(g,h,i)perylene	596.7	6.7	666.7	0	89.5	40-125	0			
Benzo(k)fluoranthene	682	6.7	666.7	0	102	45-115	0			
Chrysene	667.3	6.7	666.7	0	100	55-110	0			
Dibenzo(a,h)anthracene	613.7	6.7	666.7	0	92	40-125	0			
Fluoranthene	712.3	6.7	666.7	0	107	55-115	0			
Fluorene	625.3	6.7	666.7	0	93.8	50-110	0			
Indeno(1,2,3-cd)pyrene	660.7	6.7	666.7	0	99.1	40-120	0			
Naphthalene	543	6.7	666.7	0	81.4	40-105	0			
Pyrene	689.7	6.7	666.7	0	103	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1240	0	1667	0	74.4	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1652	0	1667	0	99.1	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1135	0	1667	0	68.1	37-107	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 14061226
Project: Federal 28-3 Pit Closure 6.20.14

QC BATCH REPORT

Batch ID: **60032** Instrument ID **SVMS8** Method: **SW8270**

MS				Sample ID: 14061229-01B MS			Units: µg/Kg		Analysis Date: 6/26/2014 12:00 PM	
Client ID:				Run ID: SVMS8_140626A			SeqNo: 2825749		Prep Date: 6/25/2014	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1109	13	1291	0	85.9	45-110	0			
Acenaphthylene	1210	13	1291	0	93.7	45-105	0			
Anthracene	1387	13	1291	0	107	55-105	0			S
Benzo(a)anthracene	1246	13	1291	27.17	94.4	50-110	0			
Benzo(a)pyrene	1427	13	1291	0	111	50-110	0			S
Benzo(b)fluoranthene	1300	13	1291	0	101	45-115	0			
Benzo(g,h,i)perylene	1288	13	1291	0	99.7	40-125	0			
Benzo(k)fluoranthene	1259	13	1291	0	97.5	45-115	0			
Chrysene	1244	13	1291	0	96.3	55-110	0			
Dibenzo(a,h)anthracene	1273	13	1291	0	98.6	40-125	0			
Fluoranthene	1395	13	1291	16.9	107	55-115	0			
Fluorene	1229	13	1291	0	95.1	50-110	0			
Indeno(1,2,3-cd)pyrene	1476	13	1291	0	114	40-120	0			
Naphthalene	978.1	13	1291	0	75.7	40-105	0			
Pyrene	1291	13	1291	0	100	45-125	0			
Surr: 2-Fluorobiphenyl	2317	0	3228	0	71.8	12-100	0			
Surr: 4-Terphenyl-d14	3043	0	3228	0	94.3	25-137	0			
Surr: Nitrobenzene-d5	2119	0	3228	0	65.7	37-107	0			

MSD				Sample ID: 14061229-01B MSD			Units: µg/Kg		Analysis Date: 6/26/2014 12:20 PM	
Client ID:				Run ID: SVMS8_140626A			SeqNo: 2825751		Prep Date: 6/25/2014	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1135	13	1307	0	86.8	45-110	1109	2.31	30	
Acenaphthylene	1222	13	1307	0	93.5	45-105	1210	1	30	
Anthracene	1404	13	1307	0	107	55-105	1387	1.21	30	S
Benzo(a)anthracene	1277	13	1307	27.17	95.6	50-110	1246	2.45	30	
Benzo(a)pyrene	1454	13	1307	0	111	50-110	1427	1.85	30	S
Benzo(b)fluoranthene	1353	13	1307	0	103	45-115	1300	3.96	30	
Benzo(g,h,i)perylene	1291	13	1307	0	98.7	40-125	1288	0.207	30	
Benzo(k)fluoranthene	1290	13	1307	0	98.7	45-115	1259	2.44	30	
Chrysene	1254	13	1307	0	95.9	55-110	1244	0.799	30	
Dibenzo(a,h)anthracene	1282	13	1307	0	98.1	40-125	1273	0.706	30	
Fluoranthene	1351	13	1307	16.9	102	55-115	1395	3.18	30	
Fluorene	1233	13	1307	0	94.3	50-110	1229	0.37	30	
Indeno(1,2,3-cd)pyrene	1476	13	1307	0	113	40-120	1476	0.0616	30	
Naphthalene	990.7	13	1307	0	75.8	40-105	978.1	1.28	30	
Pyrene	1394	13	1307	0	107	45-125	1291	7.65	30	
Surr: 2-Fluorobiphenyl	2360	0	3267	0	72.2	12-100	2317	1.83	40	
Surr: 4-Terphenyl-d14	3303	0	3267	0	101	25-137	3043	8.2	40	
Surr: Nitrobenzene-d5	2156	0	3267	0	66	37-107	2119	1.73	40	

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

Client: HRL Compliance Solutions, Inc
Work Order: 14061226
Project: Federal 28-3 Pit Closure 6.20.14

QC BATCH REPORT

Batch ID: **60032** Instrument ID **SVMS8** Method: **SW8270**

The following samples were analyzed in this batch:

14061226- 01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14061226
Project: Federal 28-3 Pit Closure 6.20.14

QC BATCH REPORT

Batch ID: **60009** Instrument ID **VMS9** Method: **SW8260B**

MBLK				Sample ID: MBLK-60009-60009				Units: µg/Kg			Analysis Date: 6/24/2014 02:43 PM			
Client ID:				Run ID: VMS9_140624A				SeqNo: 2823141			Prep Date: 6/24/2014		DF: 1	
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	1009	0	1000	0	101	70-130		0						
Surr: 4-Bromofluorobenzene	925	0	1000	0	92.5	70-130		0						
Surr: Dibromofluoromethane	914	0	1000	0	91.4	70-130		0						
Surr: Toluene-d8	914.5	0	1000	0	91.4	70-130		0						

LCS				Sample ID: LCS-60009-60009			Units: µg/Kg		Analysis Date: 6/24/2014 12:14 PM		
Client ID:		Run ID: VMS9_140624A			SeqNo: 2823140		Prep Date: 6/24/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	1118	30	1000	0	112	75-125	0				
Ethylbenzene	1013	30	1000	0	101	75-125	0				
m,p-Xylene	2070	60	2000	0	104	80-125	0				
o-Xylene	1033	30	1000	0	103	75-125	0				
Toluene	1106	30	1000	0	111	70-125	0				
Xylenes, Total	3104	90	3000	0	103	75-125	0				
Surr: 1,2-Dichloroethane-d4	960	0	1000	0	96	70-130	0				
Surr: 4-Bromofluorobenzene	1062	0	1000	0	106	70-130	0				
Surr: Dibromofluoromethane	922.5	0	1000	0	92.2	70-130	0				
Surr: Toluene-d8	982	0	1000	0	98.2	70-130	0				

MS					Sample ID: 14061229-01A MS			Units: µg/Kg		Analysis Date: 6/28/2014 01:31 PM	
Client ID:			Run ID: VMS9_140627A			SeqNo: 2827989		Prep Date: 6/24/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	900.5	30	1000	0	90	75-125	0				
Ethylbenzene	942	30	1000	0	94.2	75-125	0				
m,p-Xylene	1865	60	2000	0	93.2	80-125	0				
o-Xylene	975.5	30	1000	0	97.6	75-125	0				
Toluene	899.5	30	1000	14	88.6	70-125	0				
Xylenes, Total	2840	90	3000	0	94.7	75-125	0				
Surr: 1,2-Dichloroethane-d4	956.5	0	1000	0	95.6	70-130	0				
Surr: 4-Bromofluorobenzene	1050	0	1000	0	105	70-130	0				
Surr: Dibromofluoromethane	953.5	0	1000	0	95.4	70-130	0				
Surr: Toluene-d8	991	0	1000	0	99.1	70-130	0				

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

Client: HRL Compliance Solutions, Inc
Work Order: 14061226
Project: Federal 28-3 Pit Closure 6.20.14

QC BATCH REPORT

Batch ID: **60009** Instrument ID **VMS9** Method: **SW8260B**

MSD				Sample ID: 14061229-01A MSD			Units: µg/Kg		Analysis Date: 6/28/2014 01:56 PM	
Client ID:				Run ID: VMS9_140627A			SeqNo: 2827990		Prep Date: 6/24/2014	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	868	30	1000	0	86.8	75-125	900.5	3.68	30	
Ethylbenzene	928	30	1000	0	92.8	75-125	942	1.5	30	
m,p-Xylene	1816	60	2000	0	90.8	80-125	1865	2.66	30	
o-Xylene	955.5	30	1000	0	95.6	75-125	975.5	2.07	30	
Toluene	870.5	30	1000	14	85.6	70-125	899.5	3.28	30	
Xylenes, Total	2772	90	3000	0	92.4	75-125	2840	2.46	30	
Surr: 1,2-Dichloroethane-d4	937.5	0	1000	0	93.8	70-130	956.5	2.01	30	
Surr: 4-Bromofluorobenzene	1073	0	1000	0	107	70-130	1050	2.17	30	
Surr: Dibromofluoromethane	958.5	0	1000	0	95.8	70-130	953.5	0.523	30	
Surr: Toluene-d8	996	0	1000	0	99.6	70-130	991	0.503	30	

The following samples were analyzed in this batch:

14061226-01A

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

Client: HRL Compliance Solutions, Inc
Work Order: 14061226
Project: Federal 28-3 Pit Closure 6.20.14

QC BATCH REPORT

Batch ID: **60022** Instrument ID **WETCHEM** Method: **SW9045D**

LCS					Sample ID: LCS-60022-60022					Units: s.u.			Analysis Date: 6/25/2014 10:22 AM			
Client ID:					Run ID: WETCHEM_140625B					SeqNo: 2823192			Prep Date: 6/24/2014		DF: 1	
Analyte					Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
pH					3.98	0	4	0	99.5	90-110	0					

DUP					Sample ID: 14061193-01A DUP				Units: s.u.		Analysis Date: 6/25/2014 10:22 AM			
Client ID:			Run ID: WETCHEM_140625B				SeqNo: 2823195		Prep Date: 6/24/2014		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
pH		5.62	0	0	0	0	0-0	5.7	1.41	20				

DUP				Sample ID: 14061194-01A DUP				Units: s.u.		Analysis Date: 6/25/2014 10:22 AM			
Client ID:				Run ID: WETCHEM_140625B				SeqNo: 2823197		Prep Date: 6/24/2014		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
pH		7.17	0	0	0	0	0-0	7.12	0.7	20			

The following samples were analyzed in this batch:

14061226-01B	14061226-02A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 14061226
Project: Federal 28-3 Pit Closure 6.20.14

QC BATCH REPORT

Batch ID: **60090** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP		Sample ID: 14061229-02B DUP				Units: mmhos/cm @25°C		Analysis Date: 6/27/2014 12:00 PM		
Client ID:		Run ID: WETCHEM_140627G				SeqNo: 2827378		Prep Date: 6/27/2014		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	12.43	0.050	0	0	0		13.2	6.01	50	

The following samples were analyzed in this batch:

14061226-01C	14061226-02B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 14061226
Project: Federal 28-3 Pit Closure 6.20.14

QC BATCH REPORT

Batch ID: **60130** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-60130-60130				Units: mg/Kg		Analysis Date: 6/28/2014 03:25 PM		
Client ID:		Run ID: WETCHEM_140628B				SeqNo: 2827921		Prep Date: 6/28/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 0.50

LCS		Sample ID: LCS-60130-60130				Units: mg/Kg		Analysis Date: 6/28/2014 03:25 PM		
Client ID:		Run ID: WETCHEM_140628B				SeqNo: 2827922		Prep Date: 6/28/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 2.22 0.50 2 0 111 80-120 0

MS		Sample ID: 14061226-01BMS				Units: mg/Kg		Analysis Date: 6/28/2014 03:25 PM		
Client ID: Pit Bottom		Run ID: WETCHEM_140628B				SeqNo: 2827923		Prep Date: 6/28/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.728 0.50 2 0.2311 24.8 75-125 0 S

MS		Sample ID: 14061226-01BMSI				Units: mg/Kg		Analysis Date: 6/28/2014 03:25 PM		
Client ID: Pit Bottom		Run ID: WETCHEM_140628B				SeqNo: 2827925		Prep Date: 6/28/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 8.036 0.50 1307 0.2311 0.597 75-125 0 S

MSD		Sample ID: 14061226-01BMSD				Units: mg/Kg		Analysis Date: 6/28/2014 03:25 PM		
Client ID: Pit Bottom		Run ID: WETCHEM_140628B				SeqNo: 2827924		Prep Date: 6/28/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.8247 0.50 1.992 0.2311 29.8 75-125 0.728 12.5 20 S

The following samples were analyzed in this batch:

14061226-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14061226
Project: Federal 28-3 Pit Closure 6.20.14

QC BATCH REPORT

Batch ID: **R143325** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R143325					Units: % of sample		Analysis Date: 6/24/2014 02:33 PM		
Client ID:			Run ID: MOIST_140624B			SeqNo: 2823704		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture ND 0.050

LCS		Sample ID: LCS-R143325					Units: % of sample		Analysis Date: 6/24/2014 02:33 PM		
Client ID:			Run ID: MOIST_140624B			SeqNo: 2823702		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 99.99 0.050 100 0 100 99.5-100.5 0

DUP				Sample ID: 14061218-10A DUP				Units: % of sample			Analysis Date: 6/24/2014 02:33 PM			
Client ID:				Run ID: MOIST_140624B				SeqNo: 2823682			Prep Date:		DF: 1	
Analyte				Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 5.38 0.050 0 0 0 0-0 5.37 0.186 20

DUP				Sample ID: 14061226-01B DUP				Units: % of sample			Analysis Date: 6/24/2014 02:33 PM			
Client ID: Pit Bottom				Run ID: MOIST_140624B				SeqNo: 2823685			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Moisture 16.91 0.050 0 0 0 0-0 17.33 2.45 20

The following samples were analyzed in this batch:

14061226-01B	14061226-02A	14061226-03A
14061226-04A		

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 282r#

WORKORDER #	14061226
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PAGE	1 of 1
DISPOSAL	By Lab or Return to Client

PROJECT NAME	Fees Federal 28-3 Pit Closure	SAMPLER	M.E.M	DATE	6/23/2014
PROJECT No.	HCSF Job #14-233	SITE ID	Federal 28-3 Pad	TURNAROUND	5-day
COMPANY NAME	HRH Compliance	EDD FORMAT			
SEND REPORT TO	Mark Mumby	PURCHASE ORDER			
ADDRESS	2385 F/2 Road	BILL TO COMPANY	HRH Compliance		
CITY / STATE / ZIP	Grand Jct. CO 81505	INVOICE ATTN TO	Melissa DeRose		
PHONE	970-243-3271	ADDRESS	Scme		
FAX	970-243-3280	CITY / STATE / ZIP			
E-MAIL	mmumby@hrhcomp.com	PHONE			
		FAX			
		E-MAIL			

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	BTX	GR	DR	PAH - TdC 910-1	Metals Table 910-1	SAR, Ec, pit	Arsenic
1	Pit Bottom	S	6/20/14	12:45	3	9/2		X	X	X	X	X		
2	Bkqd 1			12:55	2								X	X
3	Bkqd 2			13:05	1								X	
4	Bkqd 3			13:10	1								X	

*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:	Please Send Cooler Back 3.4°C
QC PACKAGE (check below)	
<input checked="" type="checkbox"/> LEVEL II (Standard QC)	
<input type="checkbox"/> LEVEL III (Std QC + forms)	
<input type="checkbox"/> LEVEL IV (Std QC + forms + 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	M.E.M	Mark E. Mumby	6/23/14	17:15
RECEIVED BY	D. F. Shew	Diane F. Shew	6/24/14	0930
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **24-Jun-14 09:30**

Work Order: **14061226**

Received by: **DS**

Checklist completed by Diane Shaw 24-Jun-14
eSignature Date

Reviewed by: Ann Preston 24-Jun-14
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"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>3.4 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>6/24/2014 11:10:22 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:

UNITED STATES-US
TO SAMPLE RECEIVING
ALS LAB GROUP
2352 128TH AVE

ALS Environmental
3352 128th Avenue
Holland, Michigan 49424
Tel. +1 616 399 6070
Fax. +1 616 399 6785

CUSTODY SEAL

Date: 6/23/14 Time: 16:35
Name: Mark Mumby
Company: H&L Compliance

Seal Broken By:

Date:

49424

REF:

DEPT:



FedEx

FedEx NEW Package
Express US Airbill

Tracking Number: 8022 0273 1940

Form ID No. 0200

TRK# 8022 0273 1940

TUE - 24 JUN 10
PRIORITY OVERNIGHT

1 From
Date: 6/23/14
Sender's Name: Mark E. Mumby Phone: 970 243-3271
Company: H&L Compliance Solutions Inc.
Address: 2385 F 1/2 Road
City: Grand Tot State: CO ZIP: 81505

2 Your Internal Billing Reference

3 To
Recipient's Name: Sample Receiving Phone: 416 399-6070
Company: ALS Environmental
Address: 3352 128th Avenue
City: Holland State: MI ZIP: 49424

HOLD Weekday
FedEx location address
REQUIRED. NOT available for
FedEx First Overnight.

HOLD Saturday
FedEx location address
REQUIRED. Available ONLY for
FedEx Priority Overnight and
FedEx 2Day to select locations.

4 Express Package Service

NOTE: Service order has changed. Please select carefully.

Next Business Day

- ☐ FedEx First Overnight
Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- ☒ FedEx Priority Overnight
Next business morning. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- ☐ FedEx Standard Overnight
Saturday Delivery NOT available.

5 Packaging

- ☐ FedEx Envelope* ☐ FedEx Pak*

6 Special Handling and Delivery Signature

- ☐ SATURDAY Delivery
NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

- ☐ No Signature Required
Packaging must be tamper-evident and require a signature for delivery.

- ☐ Direct Signature
Signature of recipient's address may sign for delivery. For applies.

- ☐ Indirect Signature
If no one is available at address, someone at address may sign if restricted delivery.

Does this shipment contain dangerous goods?

One box must be checked.

- ☒ No ☐ Yes (see attached Shipper's Declaration) ☐ Yes (Shipper's Declaration not required) ☐ Dry Ice (Dry Ice, U.S. DOT 185) ☐ Cargo Aircraft Only

7 Payment

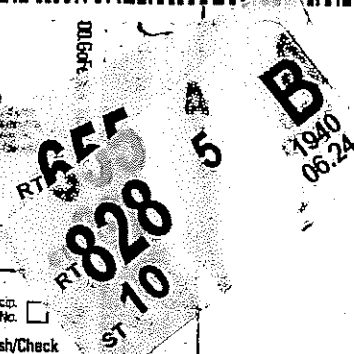
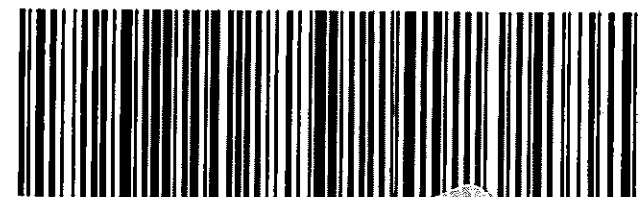
- Sender: ☐ Sender ☒ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

Total Packages: 1 Total Weight: 2.2

Credit Card Auth.

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

XX GRRA



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fedex.com 1.800.GoFedEx 1.800.463.3339



8022 0273 1940