



23-Aug-2012

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

Re: **Fees USA 29-8 Pit Closure 8/15/12**

Work Order: **1208514**

Dear Mark,

ALS Environmental received 3 samples on 16-Aug-2012 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.

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 13.

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

Client: HRL Compliance Solutions
Project: Fees USA 29-8 Pit Closure 8/15/12
Work Order: 1208514

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>
1208514-01	BKGD 1	Soil		8/15/2012 10:35	8/16/2012 09:30	<input type="checkbox"/>
1208514-02	BKGD 2	Soil		8/15/2012 10:40	8/16/2012 09:30	<input type="checkbox"/>
1208514-03	BKGD 3	Soil		8/15/2012 10:45	8/16/2012 09:30	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: Fees USA 29-8 Pit Closure 8/15/12
Work Order: 1208514

Case Narrative

Batch 43083 sample BKGD 3 MSD recovery for Arsenic was below control limits. Both the MS recovery and RPD met quality control criteria. No data requires qualification.

Client: HRL Compliance Solutions
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WorkOrder: 1208514

**QUALIFIERS,
ACRONYMS, UNITS**

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

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

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

ALS Group USA, Corp

Date: 23-Aug-12

Client: HRL Compliance Solutions
Project: Fees USA 29-8 Pit Closure 8/15/12
Sample ID: BKGD 1
Collection Date: 8/15/2012 10:35 AM

Work Order: 1208514
Lab ID: 1208514-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 8/21/2012	Analyst: ML
Arsenic	4.9		0.82	mg/Kg-dry	2	8/22/2012 04:01 PM
MOISTURE			A2540 G			Analyst: NZ
Moisture	2.4		0.050	% of sample	1	8/17/2012 04:30 PM

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

ALS Group USA, Corp

Date: 23-Aug-12

Client: HRL Compliance Solutions

Project: Fees USA 29-8 Pit Closure 8/15/12

Work Order: 1208514

Sample ID: BKGD 2

Lab ID: 1208514-02

Collection Date: 8/15/2012 10:40 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 8/21/2012	Analyst: ML
Arsenic	4.7		0.68	mg/Kg-dry	2	8/22/2012 06:17 PM
MOISTURE			A2540 G			Analyst: NZ
Moisture	0.62		0.050	% of sample	1	8/17/2012 04:30 PM

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

ALS Group USA, Corp

Date: 23-Aug-12

Client: HRL Compliance Solutions
Project: Fees USA 29-8 Pit Closure 8/15/12
Sample ID: BKGD 3
Collection Date: 8/15/2012 10:45 AM

Work Order: 1208514
Lab ID: 1208514-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 8/21/2012	Analyst: ML
Arsenic	4.2		0.32	mg/Kg-dry	1	8/22/2012 12:59 PM
SOLUBLE CATIONS FOR SAR			SW6020A		Prep Date: 8/22/2012	Analyst: RH
Calcium	97		5.0	mg/L-dry	10	8/22/2012 03:19 PM
Magnesium	9.5		2.0	mg/L-dry	10	8/22/2012 03:19 PM
Sodium	14		2.0	mg/L-dry	10	8/22/2012 03:19 PM
SODIUM ADSORPTION RATIO			USDA H60 METHO			Analyst: RH
Sodium Adsorption Ratio	0.35		0.010	none	1	8/22/2012
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep Date: 8/22/2012	Analyst: JB
Electrical Conductivity @ Saturation	0.77		0.050	mmhos/cm @25	10	8/22/2012 01:00 PM
MOISTURE			A2540 G			Analyst: NZ
Moisture	0.050		0.050	% of sample	1	8/17/2012 04:30 PM
PH			SW9045D			Analyst: JB
pH	8.77			s.u.	1	8/17/2012 09:00 AM

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

Client: HRL Compliance Solutions

QC BATCH REPORT

Work Order: 1208514

Project: Fees USA 29-8 Pit Closure 8/15/12

Batch ID: **43083** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK	Sample ID: MBLK-43083-43083				Units: mg/Kg		Analysis Date: 8/22/2012 08:49 AM			
Client ID:	Run ID: ICPMS1_120821A			SeqNo: 2059002		Prep Date: 8/21/2012		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								

LCS	Sample ID: LCS-43083-43083				Units: mg/Kg		Analysis Date: 8/22/2012 08:54 AM			
Client ID:	Run ID: ICPMS1_120821A			SeqNo: 2059003		Prep Date: 8/21/2012		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.407	0.25	5	0	88.1	80-120	0			

MS	Sample ID: 1208514-03AMS				Units: mg/Kg		Analysis Date: 8/22/2012 01:04 PM			
Client ID: BKGD 3	Run ID: ICPMS1_120822A			SeqNo: 2059603		Prep Date: 8/21/2012		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.32	0.32	6.477	4.183	94.7	75-125	0			

MSD	Sample ID: 1208514-03AMSD				Units: mg/Kg		Analysis Date: 8/22/2012 01:10 PM			
Client ID: BKGD 3	Run ID: ICPMS1_120822A			SeqNo: 2059605		Prep Date: 8/21/2012		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	8.533	0.31	6.297	4.183	69.1	75-125	10.32	18.9	25	S

The following samples were analyzed in this batch: 1208514-01A 1208514-02A 1208514-03A

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

Client: HRL Compliance Solutions
Work Order: 1208514
Project: Fees USA 29-8 Pit Closure 8/15/12

QC BATCH REPORT

Batch ID: **R108691** Instrument ID **WETCHEM** Method: **SW9045D**

LCS	Sample ID: WLCSS1-120817-R108691					Units: s.u.		Analysis Date: 8/17/2012 09:00 AM		
Client ID:	Run ID: WETCHEM_120817J			SeqNo: 2055795		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 4.48 0 4.4 0 102 90-110 0

DUP	Sample ID: 1208493-01A DUP					Units: s.u.		Analysis Date: 8/17/2012 09:00 AM		
Client ID:	Run ID: WETCHEM_120817J			SeqNo: 2055809		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 8.57 0 0 0 0 0-0 8.57 0 20

DUP	Sample ID: 1208495-01A DUP					Units: s.u.		Analysis Date: 8/17/2012 09:00 AM		
Client ID:	Run ID: WETCHEM_120817J			SeqNo: 2055810		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 8.85 0 0 0 0 0-0 8.85 0 20

The following samples were analyzed in this batch:

Client: HRL Compliance Solutions
 Work Order: 1208514
 Project: Fees USA 29-8 Pit Closure 8/15/12

QC BATCH REPORT

Batch ID: **R108726** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS1-R108726		Units: % of sample				Analysis Date: 8/17/2012 04:30 PM			
Client ID:	Run ID: MOIST_120817B		SeqNo: 2057063		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-R108726		Units: % of sample				Analysis Date: 8/17/2012 04:30 PM			
Client ID:	Run ID: MOIST_120817B		SeqNo: 2057059		Prep Date:		DF: 1			
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

DUP	Sample ID: 1208501-01B DUP		Units: % of sample				Analysis Date: 8/17/2012 04:30 PM			
Client ID:	Run ID: MOIST_120817B		SeqNo: 2057047		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 25.98 0.050 0 0 0 0-0 31.7 19.8 20

DUP	Sample ID: 1208563-07B DUP		Units: % of sample				Analysis Date: 8/17/2012 04:30 PM			
Client ID:	Run ID: MOIST_120817B		SeqNo: 2057056		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 23.49 0.050 0 0 0 0-0 22.36 4.93 20

The following samples were analyzed in this batch:

1208514-01A	1208514-02A	1208514-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **16-Aug-12 09:30**

Work Order: **1208514**

Received by: **DS**

Checklist completed by *Diane Shaw* 16-Aug-12
eSignature Date

Reviewed by: *Ann Preston* 16-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>4.4 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>8/16/2012 1:27:15 PM</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:

CUSTOMER SEALED

DATE

SIGNATURE



Quality Environmental Containers
800-455-3950 • 304-255-3900

FedEx NEW Package
Express US Airbill

FedEx Tracking Number

8001 2141 8635

0200 Form 10-10

FedEx Retrieval Copy

1 From [Redacted]
 Date 9/15/03
 Sender's Name ALS Group
 Phone 970.243.2710
 Company ALS Compliance Solutions, Inc.
 Address 225 9th St. R1C
 City Grand Junction State CO ZIP 81505

2 Your Internal Billing Reference

3 To Recipient's Name Gayle Rivington
 Phone 616.399.6070
 Company ALS Group Laboratory
 Address 3352 118th AVE
 City Holland State MI ZIP 49424

Express Package Service To most locations
 NOTE: Service option has changed. Please select carefully.
 Packages up to 150 lbs. For packages over 150 lbs., see the new FedEx Express Freight US Airbill.

01 FedEx Business Day
 02 FedEx First Overnight
 03 FedEx Priority Overnight
 04 FedEx Standard Overnight
 05 NEW FedEx 2Day A.M.
 06 FedEx 2Day
 07 FedEx Express Saver

5 Packaging Declared value limit \$500
 01 FedEx Envelope
 02 FedEx Pak
 03 FedEx Box
 04 FedEx Tube
 05 Other

6 Special Handling and Delivery Signature Options

01 SATURDAY DELIVERY
 02 No Signature Required
 03 Direct Signature
 04 Indirect Signature

Does this shipment contain dangerous goods?
 One box must be checked.
 01 No
 02 Yes
 03 Yes
 04 Yes
 05 Dry Ice
 06 Cargo Aircraft Only

7 Payment Bill to:
 Sender [Redacted]
 Recipient 3 Third Party 4 Credit Card 5 Cash/Check

Total Packages 1
 Total Weight 47 lbs
 Total Packages Total Weight
 1 47 lbs



8001 2141 8635

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