



27-Nov-2013

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

Re: **Grant Bros. Gravel Pit 11.20.13**

Work Order: **13111168**

Dear Mark,

ALS Environmental received 4 samples on 21-Nov-2013 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 18.

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

Sincerely,

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

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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

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Environmental 

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RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: Grant Bros. Gravel Pit 11.20.13
Work Order: 13111168

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>
13111168-01	Ditch Berm Pt 1	Soil		11/20/2013 11:30	11/21/2013 09:30	<input type="checkbox"/>
13111168-02	Ditch Berm Pt 2	Soil		11/20/2013 11:40	11/21/2013 09:30	<input type="checkbox"/>
13111168-03	Ditch Berm Pt 3	Soil		11/20/2013 11:50	11/21/2013 09:30	<input type="checkbox"/>
13111168-04	Ditch Berm Pt 4	Soil		11/20/2013 12:00	11/21/2013 09:30	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: Grant Bros. Gravel Pit 11.20.13
WorkOrder: 13111168

QUALIFIERS, ACRONYMS, UNITS

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

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
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
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

ALS Group USA, Corp

Date: 27-Nov-13

Client: HRL Compliance Solutions
Project: Grant Bros. Gravel Pit 11.20.13
Sample ID: Ditch Berm Pt 1
Collection Date: 11/20/2013 11:30 AM

Work Order: 13111168
Lab ID: 13111168-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep Date: 11/22/2013	Analyst: CW
DRO (C10-C28)	36		5.3	mg/Kg-dry	1	11/25/2013 06:37 PM
Surr: 4-Terphenyl-d14	57.6		39-115	%REC	1	11/25/2013 06:37 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015		Prep Date: 11/19/2013	Analyst: CW
GRO (C6-C10)	ND		3.3	mg/Kg-dry	1	11/26/2013 01:39 PM
Surr: Toluene-d8	107		50-150	%REC	1	11/26/2013 01:39 PM
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep Date: 11/22/2013	Analyst: CW
Acenaphthene	ND		8.6	µg/Kg-dry	1	11/22/2013 09:40 PM
Acenaphthylene	ND		8.6	µg/Kg-dry	1	11/22/2013 09:40 PM
Anthracene	ND		8.6	µg/Kg-dry	1	11/22/2013 09:40 PM
Benzo(a)anthracene	ND		8.6	µg/Kg-dry	1	11/22/2013 09:40 PM
Benzo(a)pyrene	ND		8.6	µg/Kg-dry	1	11/22/2013 09:40 PM
Benzo(b)fluoranthene	ND		8.6	µg/Kg-dry	1	11/22/2013 09:40 PM
Benzo(g,h,i)perylene	ND		8.6	µg/Kg-dry	1	11/22/2013 09:40 PM
Benzo(k)fluoranthene	ND		8.6	µg/Kg-dry	1	11/22/2013 09:40 PM
Chrysene	ND		8.6	µg/Kg-dry	1	11/22/2013 09:40 PM
Dibenzo(a,h)anthracene	ND		8.6	µg/Kg-dry	1	11/22/2013 09:40 PM
Fluoranthene	ND		8.6	µg/Kg-dry	1	11/22/2013 09:40 PM
Fluorene	ND		8.6	µg/Kg-dry	1	11/22/2013 09:40 PM
Indeno(1,2,3-cd)pyrene	ND		8.6	µg/Kg-dry	1	11/22/2013 09:40 PM
Naphthalene	ND		8.6	µg/Kg-dry	1	11/22/2013 09:40 PM
Pyrene	ND		8.6	µg/Kg-dry	1	11/22/2013 09:40 PM
Surr: 2-Fluorobiphenyl	75.0		12-100	%REC	1	11/22/2013 09:40 PM
Surr: 4-Terphenyl-d14	98.0		25-137	%REC	1	11/22/2013 09:40 PM
Surr: Nitrobenzene-d5	67.0		37-107	%REC	1	11/22/2013 09:40 PM
VOLATILE ORGANIC COMPOUNDS						
			SW8260B		Prep Date: 11/19/2013	Analyst: BG
Benzene	ND		39	µg/Kg-dry	1	11/26/2013 03:19 AM
Ethylbenzene	ND		39	µg/Kg-dry	1	11/26/2013 03:19 AM
m,p-Xylene	ND		78	µg/Kg-dry	1	11/26/2013 03:19 AM
o-Xylene	ND		39	µg/Kg-dry	1	11/26/2013 03:19 AM
Toluene	ND		39	µg/Kg-dry	1	11/26/2013 03:19 AM
Xylenes, Total	ND		120	µg/Kg-dry	1	11/26/2013 03:19 AM
Surr: 1,2-Dichloroethane-d4	99.4		70-130	%REC	1	11/26/2013 03:19 AM
Surr: 4-Bromofluorobenzene	100		70-130	%REC	1	11/26/2013 03:19 AM
Surr: Dibromofluoromethane	98.7		70-130	%REC	1	11/26/2013 03:19 AM
Surr: Toluene-d8	97.0		70-130	%REC	1	11/26/2013 03:19 AM
MOISTURE						
			A2540 G			Analyst: MEB
Moisture	23		0.050	% of sample	1	11/25/2013 03:15 PM

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

ALS Group USA, Corp

Date: 27-Nov-13

Client: HRL Compliance Solutions
Project: Grant Bros. Gravel Pit 11.20.13
Sample ID: Ditch Berm Pt 2
Collection Date: 11/20/2013 11:40 AM

Work Order: 13111168
Lab ID: 13111168-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep Date: 11/22/2013	Analyst: CW
DRO (C10-C28)	220		6.5	mg/Kg-dry	1	11/25/2013 07:07 PM
Surr: 4-Terphenyl-d14	71.7		39-115	%REC	1	11/25/2013 07:07 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015		Prep Date: 11/19/2013	Analyst: CW
GRO (C6-C10)	ND		4.0	mg/Kg-dry	1	11/26/2013 02:03 PM
Surr: Toluene-d8	108		50-150	%REC	1	11/26/2013 02:03 PM
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep Date: 11/22/2013	Analyst: CW
Acenaphthene	ND		10	µg/Kg-dry	1	11/22/2013 10:39 PM
Acenaphthylene	ND		10	µg/Kg-dry	1	11/22/2013 10:39 PM
Anthracene	ND		10	µg/Kg-dry	1	11/22/2013 10:39 PM
Benzo(a)anthracene	ND		10	µg/Kg-dry	1	11/22/2013 10:39 PM
Benzo(a)pyrene	ND		10	µg/Kg-dry	1	11/22/2013 10:39 PM
Benzo(b)fluoranthene	ND		10	µg/Kg-dry	1	11/22/2013 10:39 PM
Benzo(g,h,i)perylene	ND		10	µg/Kg-dry	1	11/22/2013 10:39 PM
Benzo(k)fluoranthene	ND		10	µg/Kg-dry	1	11/22/2013 10:39 PM
Chrysene	ND		10	µg/Kg-dry	1	11/22/2013 10:39 PM
Dibenzo(a,h)anthracene	ND		10	µg/Kg-dry	1	11/22/2013 10:39 PM
Fluoranthene	ND		10	µg/Kg-dry	1	11/22/2013 10:39 PM
Fluorene	ND		10	µg/Kg-dry	1	11/22/2013 10:39 PM
Indeno(1,2,3-cd)pyrene	ND		10	µg/Kg-dry	1	11/22/2013 10:39 PM
Naphthalene	ND		10	µg/Kg-dry	1	11/22/2013 10:39 PM
Pyrene	ND		10	µg/Kg-dry	1	11/22/2013 10:39 PM
Surr: 2-Fluorobiphenyl	67.0		12-100	%REC	1	11/22/2013 10:39 PM
Surr: 4-Terphenyl-d14	85.0		25-137	%REC	1	11/22/2013 10:39 PM
Surr: Nitrobenzene-d5	53.1		37-107	%REC	1	11/22/2013 10:39 PM
VOLATILE ORGANIC COMPOUNDS						
			SW8260B		Prep Date: 11/19/2013	Analyst: BG
Benzene	ND		47	µg/Kg-dry	1	11/26/2013 03:43 AM
Ethylbenzene	ND		47	µg/Kg-dry	1	11/26/2013 03:43 AM
m,p-Xylene	ND		95	µg/Kg-dry	1	11/26/2013 03:43 AM
o-Xylene	ND		47	µg/Kg-dry	1	11/26/2013 03:43 AM
Toluene	ND		47	µg/Kg-dry	1	11/26/2013 03:43 AM
Xylenes, Total	ND		140	µg/Kg-dry	1	11/26/2013 03:43 AM
Surr: 1,2-Dichloroethane-d4	99.3		70-130	%REC	1	11/26/2013 03:43 AM
Surr: 4-Bromofluorobenzene	98.9		70-130	%REC	1	11/26/2013 03:43 AM
Surr: Dibromofluoromethane	100		70-130	%REC	1	11/26/2013 03:43 AM
Surr: Toluene-d8	97.3		70-130	%REC	1	11/26/2013 03:43 AM
MOISTURE						
			A2540 G			Analyst: MEB
Moisture	37		0.050	% of sample	1	11/25/2013 03:15 PM

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

ALS Group USA, Corp

Date: 27-Nov-13

Client: HRL Compliance Solutions
Project: Grant Bros. Gravel Pit 11.20.13
Sample ID: Ditch Berm Pt 3
Collection Date: 11/20/2013 11:50 AM

Work Order: 13111168
Lab ID: 13111168-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep Date: 11/22/2013	Analyst: CW
DRO (C10-C28)	270		8.3	mg/Kg-dry	1	11/25/2013 08:07 PM
Surr: 4-Terphenyl-d14	63.6		39-115	%REC	1	11/25/2013 08:07 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015		Prep Date: 11/19/2013	Analyst: CW
GRO (C6-C10)	ND		5.1	mg/Kg-dry	1	11/26/2013 02:26 PM
Surr: Toluene-d8	106		50-150	%REC	1	11/26/2013 02:26 PM
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep Date: 11/22/2013	Analyst: CW
Acenaphthene	ND		13	µg/Kg-dry	1	11/22/2013 10:00 PM
Acenaphthylene	ND		13	µg/Kg-dry	1	11/22/2013 10:00 PM
Anthracene	ND		13	µg/Kg-dry	1	11/22/2013 10:00 PM
Benzo(a)anthracene	ND		13	µg/Kg-dry	1	11/22/2013 10:00 PM
Benzo(a)pyrene	ND		13	µg/Kg-dry	1	11/22/2013 10:00 PM
Benzo(b)fluoranthene	ND		13	µg/Kg-dry	1	11/22/2013 10:00 PM
Benzo(g,h,i)perylene	ND		13	µg/Kg-dry	1	11/22/2013 10:00 PM
Benzo(k)fluoranthene	ND		13	µg/Kg-dry	1	11/22/2013 10:00 PM
Chrysene	ND		13	µg/Kg-dry	1	11/22/2013 10:00 PM
Dibenzo(a,h)anthracene	ND		13	µg/Kg-dry	1	11/22/2013 10:00 PM
Fluoranthene	ND		13	µg/Kg-dry	1	11/22/2013 10:00 PM
Fluorene	ND		13	µg/Kg-dry	1	11/22/2013 10:00 PM
Indeno(1,2,3-cd)pyrene	ND		13	µg/Kg-dry	1	11/22/2013 10:00 PM
Naphthalene	ND		13	µg/Kg-dry	1	11/22/2013 10:00 PM
Pyrene	ND		13	µg/Kg-dry	1	11/22/2013 10:00 PM
Surr: 2-Fluorobiphenyl	69.9		12-100	%REC	1	11/22/2013 10:00 PM
Surr: 4-Terphenyl-d14	86.8		25-137	%REC	1	11/22/2013 10:00 PM
Surr: Nitrobenzene-d5	59.1		37-107	%REC	1	11/22/2013 10:00 PM
VOLATILE ORGANIC COMPOUNDS						
			SW8260B		Prep Date: 11/19/2013	Analyst: BG
Benzene	ND		61	µg/Kg-dry	1	11/26/2013 04:07 AM
Ethylbenzene	ND		61	µg/Kg-dry	1	11/26/2013 04:07 AM
m,p-Xylene	ND		120	µg/Kg-dry	1	11/26/2013 04:07 AM
o-Xylene	ND		61	µg/Kg-dry	1	11/26/2013 04:07 AM
Toluene	ND		61	µg/Kg-dry	1	11/26/2013 04:07 AM
Xylenes, Total	ND		180	µg/Kg-dry	1	11/26/2013 04:07 AM
Surr: 1,2-Dichloroethane-d4	98.6		70-130	%REC	1	11/26/2013 04:07 AM
Surr: 4-Bromofluorobenzene	99.8		70-130	%REC	1	11/26/2013 04:07 AM
Surr: Dibromofluoromethane	99.4		70-130	%REC	1	11/26/2013 04:07 AM
Surr: Toluene-d8	97.8		70-130	%REC	1	11/26/2013 04:07 AM
MOISTURE						
			A2540 G			Analyst: MEB
Moisture	51		0.050	% of sample	1	11/25/2013 03:15 PM

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

ALS Group USA, Corp

Date: 27-Nov-13

Client: HRL Compliance Solutions
Project: Grant Bros. Gravel Pit 11.20.13
Sample ID: Ditch Berm Pt 4
Collection Date: 11/20/2013 12:00 PM

Work Order: 13111168
Lab ID: 13111168-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep Date: 11/22/2013	Analyst: CW
DRO (C10-C28)	80		5.4	mg/Kg-dry	1	11/25/2013 08:37 PM
Surr: 4-Terphenyl-d14	75.6		39-115	%REC	1	11/25/2013 08:37 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015		Prep Date: 11/19/2013	Analyst: CW
GRO (C6-C10)	ND		3.3	mg/Kg-dry	1	11/26/2013 02:50 PM
Surr: Toluene-d8	106		50-150	%REC	1	11/26/2013 02:50 PM
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep Date: 11/22/2013	Analyst: CW
Acenaphthene	ND		8.6	µg/Kg-dry	1	11/22/2013 08:20 PM
Acenaphthylene	ND		8.6	µg/Kg-dry	1	11/22/2013 08:20 PM
Anthracene	ND		8.6	µg/Kg-dry	1	11/22/2013 08:20 PM
Benzo(a)anthracene	ND		8.6	µg/Kg-dry	1	11/22/2013 08:20 PM
Benzo(a)pyrene	ND		8.6	µg/Kg-dry	1	11/22/2013 08:20 PM
Benzo(b)fluoranthene	ND		8.6	µg/Kg-dry	1	11/22/2013 08:20 PM
Benzo(g,h,i)perylene	ND		8.6	µg/Kg-dry	1	11/22/2013 08:20 PM
Benzo(k)fluoranthene	ND		8.6	µg/Kg-dry	1	11/22/2013 08:20 PM
Chrysene	ND		8.6	µg/Kg-dry	1	11/22/2013 08:20 PM
Dibenzo(a,h)anthracene	ND		8.6	µg/Kg-dry	1	11/22/2013 08:20 PM
Fluoranthene	ND		8.6	µg/Kg-dry	1	11/22/2013 08:20 PM
Fluorene	ND		8.6	µg/Kg-dry	1	11/22/2013 08:20 PM
Indeno(1,2,3-cd)pyrene	ND		8.6	µg/Kg-dry	1	11/22/2013 08:20 PM
Naphthalene	ND		8.6	µg/Kg-dry	1	11/22/2013 08:20 PM
Pyrene	ND		8.6	µg/Kg-dry	1	11/22/2013 08:20 PM
Surr: 2-Fluorobiphenyl	71.7		12-100	%REC	1	11/22/2013 08:20 PM
Surr: 4-Terphenyl-d14	103		25-137	%REC	1	11/22/2013 08:20 PM
Surr: Nitrobenzene-d5	65.9		37-107	%REC	1	11/22/2013 08:20 PM
VOLATILE ORGANIC COMPOUNDS						
			SW8260B		Prep Date: 11/19/2013	Analyst: BG
Benzene	ND		39	µg/Kg-dry	1	11/26/2013 04:32 AM
Ethylbenzene	ND		39	µg/Kg-dry	1	11/26/2013 04:32 AM
m,p-Xylene	ND		78	µg/Kg-dry	1	11/26/2013 04:32 AM
o-Xylene	ND		39	µg/Kg-dry	1	11/26/2013 04:32 AM
Toluene	ND		39	µg/Kg-dry	1	11/26/2013 04:32 AM
Xylenes, Total	ND		120	µg/Kg-dry	1	11/26/2013 04:32 AM
Surr: 1,2-Dichloroethane-d4	96.7		70-130	%REC	1	11/26/2013 04:32 AM
Surr: 4-Bromofluorobenzene	98.4		70-130	%REC	1	11/26/2013 04:32 AM
Surr: Dibromofluoromethane	101		70-130	%REC	1	11/26/2013 04:32 AM
Surr: Toluene-d8	96.2		70-130	%REC	1	11/26/2013 04:32 AM
MOISTURE						
			A2540 G			Analyst: MEB
Moisture	23		0.050	% of sample	1	11/25/2013 03:15 PM

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

ALS Group USA, Corp

Date: 27-Nov-13

Client: HRL Compliance Solutions
Work Order: 13111168
Project: Grant Bros. Gravel Pit 11.20.13

QC BATCH REPORT

Batch ID: **53552** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-53552-53552				Units: mg/Kg		Analysis Date: 11/25/2013 02:37 PM		
Client ID:		Run ID: GC8_131125A				SeqNo: 2556648		Prep Date: 11/22/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	ND	4.2								
<i>Surr: 4-Terphenyl-d14</i>	<i>0.9107</i>	<i>0</i>	<i>1.667</i>	<i>0</i>	<i>54.6</i>	<i>39-115</i>	<i>0</i>			

LCS		Sample ID: DLCSS1-53552-53552				Units: mg/Kg		Analysis Date: 11/25/2013 03:07 PM		
Client ID:		Run ID: GC8_131125A				SeqNo: 2556649		Prep Date: 11/22/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	135.2	4.2	166.7	0	81.1	49-124	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>1.047</i>	<i>0</i>	<i>1.667</i>	<i>0</i>	<i>62.8</i>	<i>39-115</i>	<i>0</i>			

MS		Sample ID: 13111112-01B MS				Units: mg/Kg		Analysis Date: 11/25/2013 03:36 PM		
Client ID:		Run ID: GC8_131125A				SeqNo: 2556650		Prep Date: 11/22/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	652.7	8.0	318.1	334.7	100	49-130	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>4.031</i>	<i>0</i>	<i>3.181</i>	<i>0</i>	<i>127</i>	<i>39-115</i>	<i>0</i>			<i>S</i>

MSD		Sample ID: 13111112-01B MSD				Units: mg/Kg		Analysis Date: 11/25/2013 04:06 PM		
Client ID:		Run ID: GC8_131125A				SeqNo: 2556651		Prep Date: 11/22/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	602.7	8.1	324.1	334.7	82.7	49-130	652.7	7.97	30	
<i>Surr: 4-Terphenyl-d14</i>	<i>3.404</i>	<i>0</i>	<i>3.241</i>	<i>0</i>	<i>105</i>	<i>39-115</i>	<i>4.031</i>	<i>16.8</i>	<i>30</i>	

The following samples were analyzed in this batch:

13111168-01B	13111168-02B	13111168-03B
13111168-04B		

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

Client: HRL Compliance Solutions
Work Order: 13111168
Project: Grant Bros. Gravel Pit 11.20.13

QC BATCH REPORT

Batch ID: **53524** Instrument ID **GC10** Method: **SW8015**

MBLK		Sample ID: MBLK-53524-53524				Units: µg/Kg		Analysis Date: 11/21/2013 06:16 PM		
Client ID:		Run ID: GC10_131121A				SeqNo: 2549272		Prep Date: 11/19/2013		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								
Surr: Toluene-d8	5172	0	5000	0	103	50-150	0			

LCS		Sample ID: LCS-53524-53524				Units: µg/Kg		Analysis Date: 11/21/2013 05:29 PM		
Client ID:		Run ID: GC10_131121A				SeqNo: 2549270		Prep Date: 11/19/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	392200	2,500	500000	0	78.4	70-130	0			
Surr: Toluene-d8	5331	0	5000	0	107	50-150	0			

MS		Sample ID: 13111126-02A MS				Units: µg/Kg		Analysis Date: 11/22/2013 12:08 PM		
Client ID:		Run ID: GC10_131121A				SeqNo: 2549283		Prep Date: 11/19/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	395500	2,500	500000	0	79.1	70-130	0			
Surr: Toluene-d8	5636	0	5000	0	113	50-150	0			

MSD		Sample ID: 13111126-02A MSD				Units: µg/Kg		Analysis Date: 11/22/2013 12:32 PM		
Client ID:		Run ID: GC10_131121A				SeqNo: 2549284		Prep Date: 11/19/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	386400	2,500	500000	0	77.3	70-130	395500	2.34	30	
Surr: Toluene-d8	5546	0	5000	0	111	50-150	5636	1.6	30	

The following samples were analyzed in this batch:

13111168-01A	13111168-02A	13111168-03A
13111168-04A		

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

Client: HRL Compliance Solutions
Work Order: 13111168
Project: Grant Bros. Gravel Pit 11.20.13

QC BATCH REPORT

Batch ID: **53551** Instrument ID **SVMS8** Method: **SW8270**

MBLK		Sample ID: SBLKS1-53551-53551				Units: µg/Kg		Analysis Date: 11/22/2013 05:41 PM		
Client ID:		Run ID: SVMS8_131122B				SeqNo: 2554384		Prep Date: 11/22/2013		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>	1166	0	1667	0	69.9	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1703	0	1667	0	102	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1082	0	1667	0	64.9	37-107	0			

LCS		Sample ID: SLCSS1-53551-53551				Units: µg/Kg		Analysis Date: 11/22/2013 06:01 PM		
Client ID:		Run ID: SVMS8_131122B				SeqNo: 2554385		Prep Date: 11/22/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	496	6.7	666.7	0	74.4	45-110	0			
Acenaphthylene	530.3	6.7	666.7	0	79.5	45-105	0			
Anthracene	580.3	6.7	666.7	0	87	55-105	0			
Benzo(a)anthracene	617.3	6.7	666.7	0	92.6	50-110	0			
Benzo(a)pyrene	640.7	6.7	666.7	0	96.1	50-110	0			
Benzo(b)fluoranthene	652	6.7	666.7	0	97.8	45-115	0			
Benzo(g,h,i)perylene	624.3	6.7	666.7	0	93.6	40-125	0			
Benzo(k)fluoranthene	652	6.7	666.7	0	97.8	45-115	0			
Chrysene	621	6.7	666.7	0	93.1	55-110	0			
Dibenzo(a,h)anthracene	600	6.7	666.7	0	90	40-125	0			
Fluoranthene	596	6.7	666.7	0	89.4	55-115	0			
Fluorene	537	6.7	666.7	0	80.5	50-110	0			
Indeno(1,2,3-cd)pyrene	597.3	6.7	666.7	0	89.6	40-120	0			
Naphthalene	498.7	6.7	666.7	0	74.8	40-105	0			
Pyrene	675.3	6.7	666.7	0	101	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1132	0	1667	0	67.9	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1689	0	1667	0	101	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1066	0	1667	0	64	37-107	0			

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

Client: HRL Compliance Solutions
Work Order: 13111168
Project: Grant Bros. Gravel Pit 11.20.13

QC BATCH REPORT

Batch ID: **53551** Instrument ID **SVMS8** Method: **SW8270**

MS				Sample ID: 13111112-01B MS			Units: µg/Kg		Analysis Date: 11/22/2013 06:21 PM	
Client ID:		Run ID: SVMS8_131122B			SeqNo: 2554386		Prep Date: 11/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1073	13	1316	0	81.5	45-110	0			
Acenaphthylene	1129	13	1316	0	85.7	45-105	0			
Anthracene	1231	13	1316	0	93.5	55-105	0			
Benzo(a)anthracene	1283	13	1316	0	97.5	50-110	0			
Benzo(a)pyrene	1323	13	1316	0	100	50-110	0			
Benzo(b)fluoranthene	1321	13	1316	0	100	45-115	0			
Benzo(g,h,i)perylene	1318	13	1316	0	100	40-125	0			
Benzo(k)fluoranthene	1293	13	1316	0	98.2	45-115	0			
Chrysene	1269	13	1316	0	96.4	55-110	0			
Dibenzo(a,h)anthracene	1296	13	1316	0	98.4	40-125	0			
Fluoranthene	1182	13	1316	0	89.8	55-115	0			
Fluorene	1173	13	1316	29.57	86.9	50-110	0			
Indeno(1,2,3-cd)pyrene	1287	13	1316	0	97.8	40-120	0			
Naphthalene	1070	13	1316	78.74	75.3	40-105	0			
Pyrene	1261	13	1316	0	95.8	45-125	0			
Surr: 2-Fluorobiphenyl	2373	0	3290	0	72.1	12-100	0			
Surr: 4-Terphenyl-d14	3201	0	3290	0	97.3	25-137	0			
Surr: Nitrobenzene-d5	2096	0	3290	0	63.7	37-107	0			

MSD				Sample ID: 13111112-01B MSD			Units: µg/Kg		Analysis Date: 11/22/2013 06:41 PM	
Client ID:		Run ID: SVMS8_131122B			SeqNo: 2554387		Prep Date: 11/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1041	13	1319	0	78.9	45-110	1073	3.02	30	
Acenaphthylene	1107	13	1319	0	83.9	45-105	1129	1.96	30	
Anthracene	1232	13	1319	0	93.4	55-105	1231	0.117	30	
Benzo(a)anthracene	1275	13	1319	0	96.7	50-110	1283	0.6	30	
Benzo(a)pyrene	1282	13	1319	0	97.2	50-110	1323	3.11	30	
Benzo(b)fluoranthene	1298	13	1319	0	98.4	45-115	1321	1.79	30	
Benzo(g,h,i)perylene	1287	13	1319	0	97.6	40-125	1318	2.36	30	
Benzo(k)fluoranthene	1260	13	1319	0	95.5	45-115	1293	2.61	30	
Chrysene	1289	13	1319	0	97.7	55-110	1269	1.56	30	
Dibenzo(a,h)anthracene	1271	13	1319	0	96.3	40-125	1296	1.93	30	
Fluoranthene	1171	13	1319	0	88.7	55-115	1182	0.952	30	
Fluorene	1196	13	1319	29.57	88.4	50-110	1173	1.89	30	
Indeno(1,2,3-cd)pyrene	1264	13	1319	0	95.8	40-120	1287	1.79	30	
Naphthalene	1214	13	1319	78.74	86.1	40-105	1070	12.6	30	
Pyrene	1260	13	1319	0	95.5	45-125	1261	0.0373	30	
Surr: 2-Fluorobiphenyl	2404	0	3298	0	72.9	12-100	2373	1.27	40	
Surr: 4-Terphenyl-d14	3237	0	3298	0	98.2	25-137	3201	1.14	40	
Surr: Nitrobenzene-d5	2122	0	3298	0	64.3	37-107	2096	1.22	40	

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

Client: HRL Compliance Solutions
Work Order: 13111168
Project: Grant Bros. Gravel Pit 11.20.13

QC BATCH REPORT

Batch ID: **53551** Instrument ID **SVMS8** Method: **SW8270**

The following samples were analyzed in this batch:

13111168-01B	13111168-02B	13111168-03B
13111168-04B		

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

Client: HRL Compliance Solutions
Work Order: 13111168
Project: Grant Bros. Gravel Pit 11.20.13

QC BATCH REPORT

Batch ID: **53527** Instrument ID **VMS6** Method: **SW8260B**

MBLK Sample ID: MBLK-53527-53527				Units: µg/Kg			Analysis Date: 11/21/2013 03:37 PM			
Client ID:		Run ID: VMS6_131121A		SeqNo: 2549987		Prep Date: 11/19/2013		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	1002	0	1000	0	100	70-130	0			
Surr: 4-Bromofluorobenzene	984.5	0	1000	0	98.4	70-130	0			
Surr: Dibromofluoromethane	857.5	0	1000	0	85.8	70-130	0			
Surr: Toluene-d8	1002	0	1000	0	100	70-130	0			

LCS Sample ID: LCS-53527-53527				Units: µg/Kg			Analysis Date: 11/21/2013 01:59 PM			
Client ID:		Run ID: VMS6_131121A		SeqNo: 2549985		Prep Date: 11/19/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1026	30	1000	0	103	75-125	0			
Ethylbenzene	1025	30	1000	0	102	75-125	0			
m,p-Xylene	2068	60	2000	0	103	80-125	0			
o-Xylene	1056	30	1000	0	106	75-125	0			
Toluene	993	30	1000	0	99.3	70-125	0			
Xylenes, Total	3124	90	3000	0	104	75-125	0			
Surr: 1,2-Dichloroethane-d4	992.5	0	1000	0	99.2	70-130	0			
Surr: 4-Bromofluorobenzene	1018	0	1000	0	102	70-130	0			
Surr: Dibromofluoromethane	1010	0	1000	0	101	70-130	0			
Surr: Toluene-d8	994	0	1000	0	99.4	70-130	0			

MS Sample ID: 13111121-01A MS				Units: µg/Kg			Analysis Date: 11/25/2013 08:34 PM			
Client ID:		Run ID: VMS8_131125A		SeqNo: 2555404		Prep Date: 11/19/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	987.5	30	1000	0	98.8	75-125	0			
Ethylbenzene	944.5	30	1000	0	94.4	75-125	0			
m,p-Xylene	1854	60	2000	0	92.7	80-125	0			
o-Xylene	955.5	30	1000	0	95.6	75-125	0			
Toluene	931.5	30	1000	0	93.2	70-125	0			
Xylenes, Total	2810	90	3000	0	93.7	75-125	0			
Surr: 1,2-Dichloroethane-d4	932.5	0	1000	0	93.2	70-130	0			
Surr: 4-Bromofluorobenzene	993	0	1000	0	99.3	70-130	0			
Surr: Dibromofluoromethane	994	0	1000	0	99.4	70-130	0			
Surr: Toluene-d8	924	0	1000	0	92.4	70-130	0			

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

Client: HRL Compliance Solutions
Work Order: 13111168
Project: Grant Bros. Gravel Pit 11.20.13

QC BATCH REPORT

Batch ID: **53527** Instrument ID **VMS6** Method: **SW8260B**

MSD				Sample ID: 13111121-01A MSD			Units: µg/Kg		Analysis Date: 11/25/2013 08:58 PM	
Client ID:		Run ID: VMS8_131125A			SeqNo: 2555405		Prep Date: 11/19/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	973.5	30	1000	0	97.4	75-125	987.5	1.43	30	
Ethylbenzene	954.5	30	1000	0	95.4	75-125	944.5	1.05	30	
m,p-Xylene	1884	60	2000	0	94.2	80-125	1854	1.6	30	
o-Xylene	968.5	30	1000	0	96.8	75-125	955.5	1.35	30	
Toluene	912	30	1000	0	91.2	70-125	931.5	2.12	30	
Xylenes, Total	2853	90	3000	0	95.1	75-125	2810	1.52	30	
Surr: 1,2-Dichloroethane-d4	942	0	1000	0	94.2	70-130	932.5	1.01	30	
Surr: 4-Bromofluorobenzene	1012	0	1000	0	101	70-130	993	1.85	30	
Surr: Dibromofluoromethane	968.5	0	1000	0	96.8	70-130	994	2.6	30	
Surr: Toluene-d8	939	0	1000	0	93.9	70-130	924	1.61	30	

The following samples were analyzed in this batch:

13111168-01A	13111168-02A	13111168-03A
13111168-04A		

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

Client: HRL Compliance Solutions
Work Order: 13111168
Project: Grant Bros. Gravel Pit 11.20.13

QC BATCH REPORT

Batch ID: **R131322** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R131322				Units: % of sample		Analysis Date: 11/25/2013 03:15 PM		
Client ID:		Run ID: MOIST_131125B				SeqNo: 2556124		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-R131322				Units: % of sample		Analysis Date: 11/25/2013 03:15 PM		
Client ID:		Run ID: MOIST_131125B				SeqNo: 2556120		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: 13111150-01A DUP				Units: % of sample		Analysis Date: 11/25/2013 03:15 PM		
Client ID:		Run ID: MOIST_131125B				SeqNo: 2556110		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 4.23 0.050 0 0 0 0-0 4.22 0.237 20

The following samples were analyzed in this batch:

13111168-01B	13111168-02B	13111168-03B
13111168-04B		

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



ALS Laboratory Group

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

Chain-of-Custody

Form 202r8

WORKORDER #

13111168

PAGE

1 of 1

DISPOSAL

By Lab or Return to Client

PROJECT NAME	Grant Brothers Gravel pit	SAMPLER	Reed Wold	DATE	11/20/13
PROJECT No.	Ditch Berm	SITE ID	Grant Brothers Gravel Pit	TURNAROUND	5 days
COMPANY NAME	HRL Compliance	EDD FORMAT			
SEND REPORT TO	Mark Mumby	PURCHASE ORDER			
ADDRESS	2385 F 1/2 Rd	BILL TO COMPANY			
CITY / STATE / ZIP	Grand Junction, CO 81506	INVOICE ATTN TO			
PHONE	970-243-3271	ADDRESS			
FAX	970-243-3280	CITY / STATE / ZIP			
E-MAIL	mmumby@hrlcomp.com rwold@hrlcomp.com	PHONE			
		FAX			
		E-MAIL			
Lab ID	Krowe@HRLcomp.com	Matrix			
Field ID		Sample Date			
		Sample Time			
		# Bottles			
		Pres.			
		QC			
1	Ditch Berm Pt1	SG	11/20/13	11:30	2 8
2	Ditch Berm Pt2	↓	↓	11:40	2 ↓
3	Ditch Berm Pt3	↓	↓	11:50	2 ↓
4	Ditch Berm Pt4	↓	↓	12:00	2 ↓

*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:	QC PACKAGE (check below)
2.62 NA	<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)
	<input type="checkbox"/>
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035	

SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY: Reed Wold	Reed Wold	11/20/13	3:00
RECEIVED BY: [Signature]	[Signature]	11-20	3:00
RELINQUISHED BY: [Signature]	[Signature]	11-20	3:10
RECEIVED BY: [Signature]	Diane F. Shaw	11/21/13	0930
RELINQUISHED BY:			
RECEIVED BY:			

From: (970) 424-4749
Lab Hub, LLC

Origin ID: RILA



Ship Date: 20NOV13
Acct: 60.0 LB
CAD: 102923490/INET3430

Dims: 25 X 14 X 15 IN

127 E First Street

PARACHUTE, CO 81635



Delivery Address Bar Code



SHIP TO: (616) 399-6070

BILL RECIPIENT

Sample receiving
ALS Holland
3352 128TH AVE

HOLLAND, MI 49424

Ref # 1001-112013-1
Invoice #
PO #
Dept #

THU - 21 NOV AA
STANDARD OVERNIGHT

TRK# 7972 1042 3846
0201

XX GRR

49424
MI-US
GRR



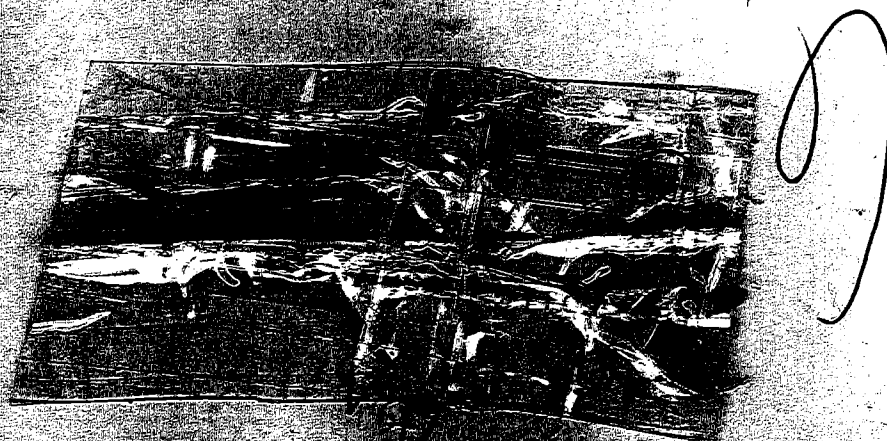
51AS105581AGE

After printing this label:

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

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

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Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **21-Nov-13 09:30**

Work Order: **13111168**

Received by: **DS**

Checklist completed by Diane Shaw 21-Nov-13
eSignature Date

Reviewed by: Lee Arnold 21-Nov-13
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>2.6 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>11/21/2013 2:43:16 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: