

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303)894-2100 Fax: (303)894-2109



SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b.)

1. OGCC Operator Number: 6720	4. Contact Name: Habib Guerrero	Complete the Attachment Checklist OP OGCC
2. Name of Operator: Robert L. Bayless LLC	Phone: 505-564-7810	
3. Address: PO BOX 168 City: Farmington State: NM Zip: 87499	Fax: 505-326-6911	
5. API Number 05- See Page 2	OGCC Facility ID Number N/A	Survey Plat
6. Well/Facility Name: Philadelphia Creek	7. Well/Facility Number N/A	Directional Survey
8. Location (Qtr/Sec, Twp, Rng, Meridian): See Page 2		Surface Eqmpt Diagram
9. County: Rio Blanco	10. Field Name: Philadelphia Creek	Technical Info Page
11. Federal, Indian or State Lease Number:		Other

General Notice

<input type="checkbox"/> CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)	
Change of Surface Footage from Exterior Section Lines:	<input type="checkbox"/> FNL/FSL <input type="checkbox"/> FEL/FWL
Change of Surface Footage to Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Change of Bottomhole Footage from Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Change of Bottomhole Footage to Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> attach directional survey
Bottomhole location Qtr/Sec, Twp, Rng, Mer	
Latitude	Distance to nearest property line Distance to nearest bldg, public rd, utility or RR
Longitude	Distance to nearest lease line Is location in a High Density Area (rule 603b)? Yes/No
Ground Elevation	Distance to nearest well same formation Surface owner consultation date:
GPS DATA: Date of Measurement PDOP Reading Instrument Operator's Name	
<input type="checkbox"/> CHANGE SPACING UNIT Formation Formation Code Spacing order number Unit Acreage Unit configuration	
<input type="checkbox"/> Remove from surface bond Signed surface use agreement attached	
<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling): Effective Date: Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	<input type="checkbox"/> CHANGE WELL NAME From: To: Effective Date: NUMBER
<input type="checkbox"/> ABANDONED LOCATION: Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No Date Ready for inspection:	<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS Date well shut in or temporarily abandoned: Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No MIT required if shut in longer than two years. Date of last MIT
<input type="checkbox"/> SPUD DATE:	<input type="checkbox"/> REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)
<input type="checkbox"/> SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK Method used Cementing tool setting/perf depth Cement volume Cement top Cement bottom Date *submit cbl and cement job summaries	
<input type="checkbox"/> RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004. Final reclamation will commence on approximately Final reclamation is completed and site is ready for inspection.	

Technical Engineering/Environmental Notice

<input type="checkbox"/> Notice of Intent Approximate Start Date:	<input type="checkbox"/> Report of Work Done Date Work Completed:
Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)	
<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested
<input type="checkbox"/> Casing/Cementing Program Change	<input checked="" type="checkbox"/> Other: Pit Closures
	<input type="checkbox"/> E&P Waste Disposal
	<input type="checkbox"/> Beneficial Reuse of E&P Waste
	<input type="checkbox"/> Status Update/Change of Remediation Plans for Spills and Releases

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: Habib Guerrero Date: 1/4/2013 Email: hguerrero@rlbayless.com
Print Name: Habib Guerrero Title: Operation Engineer

COGCC Approved: _____ Title: _____ Date: _____
CONDITIONS OF APPROVAL, IF ANY:

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number: 6720 API Number: See Below
2. Name of Operator: Robert L. Bayless LLC OGCC Facility ID # N/A
3. Well/Facility Name: Philadelphia Creek Well/Facility Number: N/A
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): See Below

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. **DESCRIBE PROPOSED OR COMPLETED OPERATIONS**

Robert L. Bayless (Bayless) is submitting this Sundry Notice Form 4 as notice of cloures for the pits listed below located in the Philadelphia Creek unit, in Rio Blanco County. By definition as outlined in COGCC Rule 903, these piggings/blow down pits do not require the necessary Form 15 permitting.

Samples have been collected from each of the pits listed from a depth of 0-12" below surface to be analyzed for COGCC Table 910-1. Analysis indicates that soils with the pits do not exceed standards set forth in COGCC Table 910-1. It was noted that these pigging/blowdown pits may have been constructed in the early 1980's and were never put into use.

Bayless is requesting approval to backfill the pigging/blowdown pits listed below;

Philadelphia Creek # 30	API # 05-103-08376	Location: NESW, Sec 2, T2S, R101W , 6th PM
Philadelphia Creek # 36	API # 05-103-08422	Location: NWSE, Sec 36, T1S, R101W, 6th PM
Philadelphia Creek # 41	API # 05-103-08515	Location: NWSW, Sec 28, T1S, R101W, 6th PM
Philadelphia Creek # 42	API # 05-103-08525	Location: NWNW, Sec 28, T1S, R101W, 6th PM
Philadelphia Creek # 43	API # 05-103-08516	Location: SENE, Sec 28, T1S, R101W, 6th PM

Attached is the analytical results for each of the pits listed above.

Attachment 4: Philadelphia Creek #42 Analytical Results



06-Jul-2012

Kris Rowe
HRL Compliance Solutions
2385 F 1/2 Road
Grand Junction, CO 81505

Re: **Bayless Pit Closure Philadelphia Creek #42 6/26/12**

Work Order: **1206952**

Dear Kris,

ALS Environmental received 4 samples on 28-Jun-2012 09:00 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 30.

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

Sincerely,

A handwritten signature in black ink that reads "Ann Preston".

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: MN331938

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

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

Environmental

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: Bayless Pit Closure Philadelphia Creek #42 6/26/12
Work Order: 1206952

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>
1206952-01	Pit Bottom	Soil		6/26/2012 10:30	6/28/2012 09:00	<input type="checkbox"/>
1206952-02	BKGD 1	Soil		6/26/2012 10:40	6/28/2012 09:00	<input type="checkbox"/>
1206952-03	BKGD 2	Soil		6/26/2012 10:45	6/28/2012 09:00	<input type="checkbox"/>
1206952-04	BKGD 3	Soil		6/26/2012 10:50	6/28/2012 09:00	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: Bayless Pit Closure Philadelphia Creek #42 6/26/12
Work Order: 1206952

Case Narrative

Batch 42079 sample 1206952-01 for Hexavalent Chromium was run at a dilution due to sample being too dark to read on the spectrophotometer.

Batch 42093 MS/NSD data for Metals is not related to this project's samples. No data requires qualification.

Batch R106736 sample 1206952-02 % Moisture duplicate RPD was above control limits.

Client: HRL Compliance Solutions
Project: Bayless Pit Closure Philadelphia Creek #42 6/26/12
WorkOrder: 1206952

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
µg/Kg-dry as noted	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight
s.u.	Standard Units

ALS Group USA, Corp

Date: 06-Jul-12

Client: HRL Compliance Solutions

Project: Bayless Pit Closure Philadelphia Creek #42 6/26/12

Work Order: 1206952

Sample ID: Pit Bottom

Lab ID: 1206952-01

Collection Date: 6/26/2012 10:30 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	29		4.4	mg/Kg-dry	1	Analyst: CW 7/2/2012 09:05 PM
Surr: 4-Terphenyl-d14	41.1		39-115	%REC	1	7/2/2012 09:05 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		2.6	mg/Kg-dry	50	Analyst: CW 7/2/2012 01:57 PM
Surr: Toluene-d8	109		50-150	%REC	50	7/2/2012 01:57 PM
MERCURY BY CVAA						
Mercury	0.13		0.019	mg/Kg-dry	1	Analyst: LR 7/2/2012 12:20 PM
METALS BY ICP-MS						
Arsenic	3.5		0.77	mg/Kg-dry	2	Analyst: ML 7/3/2012 01:07 PM
Barium	130		0.77	mg/Kg-dry	2	7/2/2012 08:09 PM
Cadmium	0.53		0.31	mg/Kg-dry	2	7/2/2012 08:09 PM
Chromium	12		0.77	mg/Kg-dry	2	7/2/2012 08:09 PM
Copper	15		0.77	mg/Kg-dry	2	7/3/2012 01:07 PM
Lead	14		0.77	mg/Kg-dry	2	7/2/2012 08:09 PM
Nickel	13		0.77	mg/Kg-dry	2	7/2/2012 08:09 PM
Selenium	1.6		0.77	mg/Kg-dry	2	7/2/2012 08:09 PM
Silver	ND		0.77	mg/Kg-dry	2	7/2/2012 08:09 PM
Zinc	62		1.5	mg/Kg-dry	2	7/3/2012 01:07 PM
SUBCONTRACTED ANALYSES						
Subcontracted Analyses	Rcvd 7/5/12		SUBCONTRACT	as noted	1	Analyst: A&LGL 7/5/2012
SEMI-VOLATILE ORGANIC COMPOUNDS						
Acenaphthene	ND		16	µg/Kg-dry	1	Analyst: RM 7/3/2012 11:27 PM
Anthracene	ND		16	µg/Kg-dry	1	7/3/2012 11:27 PM
Benzo(a)anthracene	ND		21	µg/Kg-dry	1	7/3/2012 11:27 PM
Benzo(a)pyrene	ND		21	µg/Kg-dry	1	7/3/2012 11:27 PM
Benzo(b)fluoranthene	ND		21	µg/Kg-dry	1	7/3/2012 11:27 PM
Benzo(g,h,i)perylene	ND		32	µg/Kg-dry	1	7/3/2012 11:27 PM
Benzo(k)fluoranthene	ND		32	µg/Kg-dry	1	7/3/2012 11:27 PM
Chrysene	29		16	µg/Kg-dry	1	7/3/2012 11:27 PM
Dibenzo(a,h)anthracene	ND		19	µg/Kg-dry	1	7/3/2012 11:27 PM
Fluoranthene	ND		16	µg/Kg-dry	1	7/3/2012 11:27 PM
Fluorene	ND		16	µg/Kg-dry	1	7/3/2012 11:27 PM
Indeno(1,2,3-cd)pyrene	ND		21	µg/Kg-dry	1	7/3/2012 11:27 PM
Naphthalene	ND		16	µg/Kg-dry	1	7/3/2012 11:27 PM
Pyrene	ND		16	µg/Kg-dry	1	7/3/2012 11:27 PM
Surr: 2-Fluorobiphenyl	66.1		12-100	%REC	1	7/3/2012 11:27 PM

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

ALS Group USA, Corp

Date: 06-Jul-12

Client: HRL Compliance Solutions

Project: Bayless Pit Closure Philadelphia Creek #42 6/26/12

Work Order: 1206952

Sample ID: Pit Bottom

Lab ID: 1206952-01

Collection Date: 6/26/2012 10:30 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 4-Terphenyl-d14	77.1		25-137	%REC	1	7/3/2012 11:27 PM
Surr: Nitrobenzene-d5	54.7		37-107	%REC	1	7/3/2012 11:27 PM
VOLATILE ORGANIC COMPOUNDS			SW8260		Prep Date: 6/29/2012	Analyst: BG
Benzene	ND		32	µg/Kg-dry	1	7/3/2012 08:05 PM
Ethylbenzene	ND		32	µg/Kg-dry	1	7/3/2012 08:05 PM
m,p-Xylene	ND		63	µg/Kg-dry	1	7/3/2012 08:05 PM
o-Xylene	ND		32	µg/Kg-dry	1	7/3/2012 08:05 PM
Toluene	ND		32	µg/Kg-dry	1	7/3/2012 08:05 PM
Xylenes, Total	ND		95	µg/Kg-dry	1	7/3/2012 08:05 PM
Surr: 1,2-Dichloroethane-d4	102		70-130	%REC	1	7/3/2012 08:05 PM
Surr: 4-Bromofluorobenzene	104		70-130	%REC	1	7/3/2012 08:05 PM
Surr: Dibromofluoromethane	100		70-130	%REC	1	7/3/2012 08:05 PM
Surr: Toluene-d8	104		70-130	%REC	1	7/3/2012 08:05 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	12		0.53	mg/Kg-dry	1	7/6/2012 05:00 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 6/28/2012	Analyst: MB
Chromium, Hexavalent	ND		130	mg/Kg-dry	251	6/29/2012 04:00 PM
MOISTURE			A2540 G			Analyst: CG
Moisture	5.4		0.050	% of sample	1	6/28/2012 03:09 PM
PH			SW9045D			Analyst: NZ
pH	7.66			s.u.	1	6/29/2012 12:00 PM

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

ALS Group USA, Corp**Date:** 06-Jul-12**Client:** HRL Compliance Solutions**Project:** Bayless Pit Closure Philadelphia Creek #42 6/26/12**Work Order:** 1206952**Sample ID:** BKGD 1**Lab ID:** 1206952-02**Collection Date:** 6/26/2012 10:40 AM**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 7/2/2012	Analyst: ML
Arsenic	2.6		0.77	mg/Kg-dry	2	7/3/2012 01:13 PM
SUBCONTRACTED ANALYSES			SUBCONTRACT			Analyst: A&LGL
Subcontracted Analyses	Rcvd 7/5/12			as noted	1	7/5/2012
MOISTURE			A2540 G			Analyst: CG
Moisture	0.52		0.050	% of sample	1	6/28/2012 03:25 PM
PH			SW9045D			Analyst: NZ
pH	8.12			s.u.	1	6/29/2012 08:00 AM

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

ALS Group USA, Corp

Date: 06-Jul-12

Client: HRL Compliance Solutions

Project: Bayless Pit Closure Philadelphia Creek #42 6/26/12

Work Order: 1206952

Sample ID: BKGD 2

Lab ID: 1206952-03

Collection Date: 6/26/2012 10:45 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 7/2/2012	Analyst: ML
Arsenic	2.0		0.69	mg/Kg-dry	2	7/3/2012 01:19 PM
MOISTURE			A2540 G			Analyst: CG
Moisture	0.46		0.050	% of sample	1	6/28/2012 03:25 PM

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

ALS Group USA, Corp

Date: 06-Jul-12

Client: HRL Compliance Solutions

Project: Bayless Pit Closure Philadelphia Creek #42 6/26/12

Work Order: 1206952

Sample ID: BKGD 3

Lab ID: 1206952-04

Collection Date: 6/26/2012 10:50 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 7/2/2012	Analyst: ML
Arsenic	2.2		0.70	mg/Kg-dry	2	7/3/2012 01:25 PM
MOISTURE			A2540 G			Analyst: CG
Moisture	0.48		0.050	% of sample	1	6/28/2012 03:25 PM

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

Report Number: F12185-0128

Account Number: 91000

A & L GREAT LAKES LABORATORIES, INC.

3505 Conestoga Drive • Fort Wayne, Indiana 46808-4413 • Phone 260-483-4759 • Fax 260-483-5274

www.algreatlakes.com • lab@algreatlakes.com



QUALITY ANALYSES FOR INFORMED DECISIONS

TO: ALS LABORATORY GROUP
3352 128TH AVE
HOLLAND, MI 49424-9263

RE: PROJECT 1206952

DATE RECEIVED: 07/03/2012

DATE REPORTED: 07/05/2012

PAGE: 1

P.O. NUMBER: 20-1206952

ATTN: ANN PRESTON

REPORT OF ANALYSIS

LAB NO.	SAMPLE ID	ANALYSIS	RESULT	UNIT	METHOD
55356	PITBOTTOM	Sat'd Paste Extraction with DIW			USDA Handbook 60
		Conductivity (ECe)	0.65	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	67	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	36	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	62	ppm	USDA Handbook 60
		Sodium Adsorption Ratio (SAR)	1.5	-	USDA Handbook 60
55357	BKGD1	Sat'd Paste Extraction with DIW			USDA Handbook 60
		Conductivity (ECe)	0.45	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	49	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	18	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	69	ppm	USDA Handbook 60
		Sodium Adsorption Ratio (SAR)	2.1	-	USDA Handbook 60

ALS Group USA, Corp

Date: 06-Jul-12

Client: HRL Compliance Solutions

QC BATCH REPORT

Work Order: 1206952

Project: Bayless Pit Closure Philadelphia Creek #42 6/26/12

Batch ID: **42088**

Instrument ID **GC8**

Method: **SW8015M**

MBLK		Sample ID: DBLKS1-42088-42088				Units: mg/Kg		Analysis Date: 7/2/2012 04:57 PM		
Client ID:		Run ID: GC8_120702A				SeqNo: 2019693		Prep Date: 7/2/2012		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>0.7887</i>	<i>0</i>	<i>1.667</i>	<i>0</i>	<i>47.3</i>	<i>39-115</i>	<i>0</i>			

LCS		Sample ID: DLCSS1-42088-42088				Units: mg/Kg		Analysis Date: 7/2/2012 05:22 PM		
Client ID:		Run ID: GC8_120702A				SeqNo: 2019700		Prep Date: 7/2/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	132	4.2	166.7	0	79.2	60-130	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>0.8327</i>	<i>0</i>	<i>1.667</i>	<i>0</i>	<i>50</i>	<i>39-115</i>	<i>0</i>			

MS		Sample ID: 12061026-01B MS				Units: mg/Kg		Analysis Date: 7/2/2012 05:22 PM		
Client ID:		Run ID: GC8_120702A				SeqNo: 2019694		Prep Date: 7/2/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	378.9	12	499.6	0	75.8	60-130	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>2.1</i>	<i>0</i>	<i>4.996</i>	<i>0</i>	<i>42</i>	<i>39-115</i>	<i>0</i>			

MSD		Sample ID: 12061026-01B MSD				Units: mg/Kg		Analysis Date: 7/2/2012 05:47 PM		
Client ID:		Run ID: GC8_120702A				SeqNo: 2019701		Prep Date: 7/2/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	424.1	12	493.2	0	86	60-130	378.9	11.3	30	
<i>Surr: 4-Terphenyl-d14</i>	<i>2.591</i>	<i>0</i>	<i>4.932</i>	<i>0</i>	<i>52.5</i>	<i>39-115</i>	<i>2.1</i>	<i>20.9</i>	<i>30</i>	

The following samples were analyzed in this batch: | 1206952-01B |

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

Client: HRL Compliance Solutions
Work Order: 1206952
Project: Bayless Pit Closure Philadelphia Creek #42 6/26/12

QC BATCH REPORT

Batch ID: **R106827** Instrument ID **GC9** Method: **SW8015**

MBLK		Sample ID: MBLK-R106827-R106827				Units: µg/L		Analysis Date: 7/2/2012 09:02 AM		
Client ID:		Run ID: GC9_120702A				SeqNo: 2018643		Prep Date:		DF: 1
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>100.8</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>			

LCS		Sample ID: LCS-R106827-R106827				Units: µg/L		Analysis Date: 7/2/2012 08:37 AM		
Client ID:		Run ID: GC9_120702A				SeqNo: 2018642		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	25360	200	25000	0	101	70-130	0			
<i>Surr: Toluene-d8</i>	<i>101.4</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>			

MS		Sample ID: 1206960-01A MS				Units: µg/Kg		Analysis Date: 7/2/2012 05:39 PM		
Client ID:		Run ID: GC9_120702A				SeqNo: 2018663		Prep Date:		DF: 50
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	1498000	2,500	1250000	0	120	70-130	0			
<i>Surr: Toluene-d8</i>	<i>4880</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>97.6</i>	<i>50-150</i>	<i>0</i>			

MSD		Sample ID: 1206960-01A MSD				Units: µg/Kg		Analysis Date: 7/2/2012 06:04 PM		
Client ID:		Run ID: GC9_120702A				SeqNo: 2018664		Prep Date:		DF: 50
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	1457000	2,500	1250000	0	117	70-130	1498000	2.78	30	
<i>Surr: Toluene-d8</i>	<i>4864</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>97.3</i>	<i>50-150</i>	<i>4880</i>	<i>0.318</i>	<i>30</i>	

The following samples were analyzed in this batch:

1206952-01A

Client: HRL Compliance Solutions
Work Order: 1206952
Project: Bayless Pit Closure Philadelphia Creek #42 6/26/12

QC BATCH REPORT

Batch ID: **42058** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-42058-42058				Units: mg/Kg		Analysis Date: 7/2/2012 12:11 PM		
Client ID:		Run ID: HG1_120702A				SeqNo: 2018214		Prep Date: 6/29/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.00125 0.020 J

LCS		Sample ID: LCS-42058-42058				Units: mg/Kg		Analysis Date: 7/2/2012 12:14 PM		
Client ID:		Run ID: HG1_120702A				SeqNo: 2018215		Prep Date: 6/29/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1832 0.020 0.1665 0 110 80-120 0

MS		Sample ID: 1206961-08BMS				Units: mg/Kg		Analysis Date: 7/2/2012 02:06 PM		
Client ID:		Run ID: HG1_120702B				SeqNo: 2018261		Prep Date: 6/29/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.146 0.015 0.1281 0.01968 98.6 75-125 0

MSD		Sample ID: 1206961-08BMSD				Units: mg/Kg		Analysis Date: 7/2/2012 02:08 PM		
Client ID:		Run ID: HG1_120702B				SeqNo: 2018262		Prep Date: 6/29/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1584 0.016 0.1361 0.01968 102 75-125 0.146 8.16 35

The following samples were analyzed in this batch:

1206952-01B

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

Client: HRL Compliance Solutions
Work Order: 1206952
Project: Bayless Pit Closure Philadelphia Creek #42 6/26/12

QC BATCH REPORT

Batch ID: **42093** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-42093-42093				Units: mg/Kg		Analysis Date: 7/2/2012 05:30 PM		
Client ID:		Run ID: ICPMS1_120702A				SeqNo: 2018770		Prep Date: 7/2/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.42								
Barium	ND	0.42								
Cadmium	ND	0.17								
Chromium	0.02696	0.42								J
Copper	0.05431	0.42								J
Lead	ND	0.42								
Nickel	0.02248	0.42								J
Selenium	ND	0.42								
Silver	ND	0.42								
Zinc	0.04978	0.83								J

LCS		Sample ID: LCS-42093-42093				Units: mg/Kg		Analysis Date: 7/2/2012 05:36 PM		
Client ID:		Run ID: ICPMS1_120702A				SeqNo: 2018771		Prep Date: 7/2/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	7.026	0.42	8.333	0	84.3	80-120	0			
Barium	7.698	0.42	8.333	0	92.4	80-120	0			
Cadmium	7.832	0.17	8.333	0	94	80-120	0			
Chromium	7.242	0.42	8.333	0	86.9	80-120	0			
Copper	7.121	0.42	8.333	0	85.4	80-120	0			
Lead	7.792	0.42	8.333	0	93.5	80-120	0			
Nickel	7.116	0.42	8.333	0	85.4	80-120	0			
Selenium	7.098	0.42	8.333	0	85.2	80-120	0			
Silver	7.332	0.42	8.333	0	88	80-120	0			
Zinc	7.415	0.83	8.333	0	89	80-120	0			

MS		Sample ID: 1206950-01BMS				Units: mg/Kg		Analysis Date: 7/2/2012 07:14 PM		
Client ID:		Run ID: ICPMS1_120702A				SeqNo: 2018787		Prep Date: 7/2/2012		DF: 2
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.338	0.68	6.821	4.891	65.2	80-120	0			S
Barium	191.1	0.68	6.821	225.9	-510	80-120	0			SO
Cadmium	6.147	0.27	6.821	0.4688	83.2	80-120	0			
Chromium	12.62	0.68	6.821	8.989	53.3	80-120	0			S
Copper	24.54	0.68	6.821	22.12	35.5	80-120	0			S
Lead	22.16	0.68	6.821	20.08	30.5	80-120	0			S
Nickel	18.51	0.68	6.821	14.81	54.3	80-120	0			S
Selenium	6.008	0.68	6.821	1.213	70.3	80-120	0			S
Silver	5.029	0.68	6.821	0.08706	72.4	80-120	0			S
Zinc	63.37	1.4	6.821	65.17	-26.3	80-120	0			SO

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

Client: HRL Compliance Solutions
Work Order: 1206952
Project: Bayless Pit Closure Philadelphia Creek #42 6/26/12

QC BATCH REPORT

Batch ID: **42093** Instrument ID **ICPMS1** Method: **SW6020A**

MSD		Sample ID: 1206950-01BMSD				Units: mg/Kg		Analysis Date: 7/2/2012 07:20 PM		
Client ID:		Run ID: ICPMS1_120702A				SeqNo: 2018788		Prep Date: 7/2/2012		DF: 2
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.74	0.77	7.68	4.891	76.2	80-120	9.338	14	25	S
Barium	191.4	0.77	7.68	225.9	-449	80-120	191.1	0.139	25	SO
Cadmium	7.324	0.31	7.68	0.4688	89.3	80-120	6.147	17.5	25	
Chromium	14.58	0.77	7.68	8.989	72.8	80-120	12.62	14.4	25	S
Copper	25.41	0.77	7.68	22.12	42.8	80-120	24.54	3.46	25	S
Lead	22.3	0.77	7.68	20.08	29	80-120	22.16	0.669	25	S
Nickel	19.2	0.77	7.68	14.81	57.2	80-120	18.51	3.65	25	S
Selenium	7.061	0.77	7.68	1.213	76.1	80-120	6.008	16.1	25	S
Silver	6.022	0.77	7.68	0.08706	77.3	80-120	5.029	18	25	S
Zinc	68.56	1.5	7.68	65.17	44.1	80-120	63.37	7.86	25	SO

The following samples were analyzed in this batch:

1206952-01B	1206952-02A	1206952-03A
1206952-04A		

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

Client: HRL Compliance Solutions
Work Order: 1206952
Project: Bayless Pit Closure Philadelphia Creek #42 6/26/12

QC BATCH REPORT

Batch ID: **42087** Instrument ID **SVMS4** Method: **SW8270**

MBLK		Sample ID: SBLKS1-42087-42087				Units: µg/Kg		Analysis Date: 7/2/2012 07:26 PM		
Client ID:		Run ID: SVMS4_120702A				SeqNo: 2020303		Prep Date: 7/2/2012		DF: 1
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>	1220	0	1667	0	73.2	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1419	0	1667	0	85.2	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1277	0	1667	0	76.6	37-107	0			

LCS		Sample ID: SLCSS1-42087-42087				Units: µg/Kg		Analysis Date: 7/2/2012 05:08 PM		
Client ID:		Run ID: SVMS4_120702A				SeqNo: 2020299		Prep Date: 7/2/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	571.7	30	666.7	0	85.7	45-110	0			
Anthracene	631	30	666.7	0	94.6	55-105	0			
Benzo(a)anthracene	603.7	30	666.7	0	90.5	50-110	0			
Benzo(a)pyrene	633.7	30	666.7	0	95	50-110	0			
Benzo(b)fluoranthene	641.7	30	666.7	0	96.2	45-115	0			
Benzo(g,h,i)perylene	710.7	30	666.7	0	107	40-125	0			
Benzo(k)fluoranthene	643.3	30	666.7	0	96.5	45-115	0			
Chrysene	662.3	30	666.7	0	99.3	55-110	0			
Dibenzo(a,h)anthracene	669	30	666.7	0	100	40-125	0			
Fluoranthene	626.7	30	666.7	0	94	55-115	0			
Fluorene	577	30	666.7	0	86.5	50-110	0			
Indeno(1,2,3-cd)pyrene	682.3	30	666.7	0	102	40-120	0			
Naphthalene	561.7	30	666.7	0	84.2	40-105	0			
Pyrene	629	30	666.7	0	94.3	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1330	0	1667	0	79.8	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1325	0	1667	0	79.5	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1315	0	1667	0	78.9	37-107	0			

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

Client: HRL Compliance Solutions
Work Order: 1206952
Project: Bayless Pit Closure Philadelphia Creek #42 6/26/12

QC BATCH REPORT

Batch ID: **42087** Instrument ID **SVMS4** Method: **SW8270**

MS				Units: µg/Kg				Analysis Date: 7/2/2012 05:43 PM		
Sample ID: 12061026-01B MS		Run ID: SVMS4_120702A		SeqNo: 2020300		Prep Date: 7/2/2012		DF: 1		
Client ID:										
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1462	90	1990	0	73.4	45-110	0			
Anthracene	1740	90	1990	0	87.4	55-105	0			
Benzo(a)anthracene	1646	90	1990	0	82.7	50-110	0			
Benzo(a)pyrene	1728	90	1990	0	86.8	50-110	0			
Benzo(b)fluoranthene	1818	90	1990	0	91.3	45-115	0			
Benzo(g,h,i)perylene	1851	90	1990	0	93	40-125	0			
Benzo(k)fluoranthene	1705	90	1990	0	85.6	45-115	0			
Chrysene	1765	90	1990	0	88.7	55-110	0			
Dibenzo(a,h)anthracene	1749	90	1990	0	87.9	40-125	0			
Fluoranthene	1717	90	1990	0	86.2	55-115	0			
Fluorene	1573	90	1990	0	79	50-110	0			
Indeno(1,2,3-cd)pyrene	1771	90	1990	0	89	40-120	0			
Naphthalene	1238	90	1990	0	62.2	40-105	0			
Pyrene	1723	90	1990	0	86.5	45-125	0			
Surr: 2-Fluorobiphenyl	3002	0	4976	0	60.3	12-100	0			
Surr: 4-Terphenyl-d14	3645	0	4976	0	73.3	25-137	0			
Surr: Nitrobenzene-d5	2931	0	4976	0	58.9	37-107	0			

MSD				Units: µg/Kg				Analysis Date: 7/2/2012 06:17 PM		
Sample ID: 12061026-01B MSD		Run ID: SVMS4_120702A		SeqNo: 2020301		Prep Date: 7/2/2012		DF: 1		
Client ID:										
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1418	86	1922	0	73.7	45-110	1462	3.07	30	
Anthracene	1604	86	1922	0	83.4	55-105	1740	8.16	30	
Benzo(a)anthracene	1527	86	1922	0	79.4	50-110	1646	7.49	30	
Benzo(a)pyrene	1600	86	1922	0	83.2	50-110	1728	7.65	30	
Benzo(b)fluoranthene	1683	86	1922	0	87.5	45-115	1818	7.73	30	
Benzo(g,h,i)perylene	1718	86	1922	0	89.4	40-125	1851	7.43	30	
Benzo(k)fluoranthene	1594	86	1922	0	82.9	45-115	1705	6.68	30	
Chrysene	1641	86	1922	0	85.3	55-110	1765	7.33	30	
Dibenzo(a,h)anthracene	1629	86	1922	0	84.7	40-125	1749	7.13	30	
Fluoranthene	1603	86	1922	0	83.4	55-115	1717	6.84	30	
Fluorene	1461	86	1922	0	76	50-110	1573	7.41	30	
Indeno(1,2,3-cd)pyrene	1648	86	1922	0	85.7	40-120	1771	7.2	30	
Naphthalene	1370	86	1922	0	71.3	40-105	1238	10.2	30	
Pyrene	1587	86	1922	0	82.5	45-125	1723	8.21	30	
Surr: 2-Fluorobiphenyl	3198	0	4805	0	66.6	12-100	3002	6.33	40	
Surr: 4-Terphenyl-d14	3432	0	4805	0	71.4	25-137	3645	6.02	40	
Surr: Nitrobenzene-d5	3272	0	4805	0	68.1	37-107	2931	11	40	

The following samples were analyzed in this batch: 1206952-01B

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

Client: HRL Compliance Solutions
Work Order: 1206952
Project: Bayless Pit Closure Philadelphia Creek #42 6/26/12

QC BATCH REPORT

Batch ID: **42094** Instrument ID **VMS7** Method: **SW8260**

MBLK		Sample ID: MBLK-42094-42094				Units: µg/Kg		Analysis Date: 6/29/2012 08:27 PM		
Client ID:		Run ID: VMS7_120629B				SeqNo: 2017648		Prep Date: 6/29/2012		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	920.5	0	1000	0	92	70-130	0			
Surr: 4-Bromofluorobenzene	921	0	1000	0	92.1	70-130	0			
Surr: Dibromofluoromethane	931.5	0	1000	0	93.2	70-130	0			
Surr: Toluene-d8	960.5	0	1000	0	96	70-130	0			

MBLK		Sample ID: MBLK-42094-42094				Units: µg/Kg		Analysis Date: 7/2/2012 01:30 PM		
Client ID:		Run ID: VMS8_120702A				SeqNo: 2018992		Prep Date: 6/29/2012		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	1023	0	1000	0	102	70-130	0			
Surr: 4-Bromofluorobenzene	964.5	0	1000	0	96.4	70-130	0			
Surr: Dibromofluoromethane	941	0	1000	0	94.1	70-130	0			
Surr: Toluene-d8	997.5	0	1000	0	99.8	70-130	0			

MBLK		Sample ID: MBLK-42094-42094				Units: µg/Kg		Analysis Date: 7/3/2012 03:54 PM		
Client ID:		Run ID: VMS7_120703A				SeqNo: 2020238		Prep Date: 6/29/2012		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	1071	0	1000	0	107	70-130	0			
Surr: 4-Bromofluorobenzene	1047	0	1000	0	105	70-130	0			
Surr: Dibromofluoromethane	1026	0	1000	0	103	70-130	0			
Surr: Toluene-d8	1060	0	1000	0	106	70-130	0			

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

Client: HRL Compliance Solutions
Work Order: 1206952
Project: Bayless Pit Closure Philadelphia Creek #42 6/26/12

QC BATCH REPORT

Batch ID: **42094** Instrument ID **VMS7** Method: **SW8260**

MBLK		Sample ID: MBLK-42094-42094				Units: µg/Kg		Analysis Date: 7/5/2012 04:24 PM		
Client ID:		Run ID: VMS5_120705A				SeqNo: 2021107		Prep Date: 6/29/2012		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	976.5	0	1000	0	97.6	70-130	0			
Surr: 4-Bromofluorobenzene	968.5	0	1000	0	96.8	70-130	0			
Surr: Dibromofluoromethane	1018	0	1000	0	102	70-130	0			
Surr: Toluene-d8	962.5	0	1000	0	96.2	70-130	0			

LCS		Sample ID: LCS-42094-42094				Units: µg/Kg		Analysis Date: 6/29/2012 07:37 PM		
Client ID:		Run ID: VMS7_120629B				SeqNo: 2017647		Prep Date: 6/29/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	948.5	30	1000	0	94.8	75-125	0			
Ethylbenzene	1018	30	1000	0	102	75-125	0			
m,p-Xylene	2035	60	2000	0	102	80-125	0			
o-Xylene	1019	30	1000	0	102	75-125	0			
Toluene	981	30	1000	0	98.1	70-125	0			
Xylenes, Total	3054	90	3000	0	102	75-125	0			
Surr: 1,2-Dichloroethane-d4	874.5	0	1000	0	87.4	70-130	0			
Surr: 4-Bromofluorobenzene	939	0	1000	0	93.9	70-130	0			
Surr: Dibromofluoromethane	918	0	1000	0	91.8	70-130	0			
Surr: Toluene-d8	954	0	1000	0	95.4	70-130	0			

LCS		Sample ID: LCS-42094-42094				Units: µg/Kg		Analysis Date: 7/2/2012 12:18 PM		
Client ID:		Run ID: VMS8_120702A				SeqNo: 2018991		Prep Date: 6/29/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1018	30	1000	0	102	75-125	0			
Ethylbenzene	1028	30	1000	0	103	75-125	0			
m,p-Xylene	2039	60	2000	0	102	80-125	0			
o-Xylene	1013	30	1000	0	101	75-125	0			
Toluene	1027	30	1000	0	103	70-125	0			
Xylenes, Total	3052	90	3000	0	102	75-125	0			
Surr: 1,2-Dichloroethane-d4	1019	0	1000	0	102	70-130	0			
Surr: 4-Bromofluorobenzene	990.5	0	1000	0	99	70-130	0			
Surr: Dibromofluoromethane	1018	0	1000	0	102	70-130	0			
Surr: Toluene-d8	1019	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: 1206952
Project: Bayless Pit Closure Philadelphia Creek #42 6/26/12

QC BATCH REPORT

Batch ID: **42094** Instrument ID **VMS7** Method: **SW8260**

LCS Sample ID: LCS-42094-42094				Units: µg/Kg		Analysis Date: 7/3/2012 02:38 PM				
Client ID:		Run ID: VMS7_120703A		SeqNo: 2020237		Prep Date: 6/29/2012		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1074	30	1000	0	107	75-125	0			
Ethylbenzene	1134	30	1000	0	113	75-125	0			
m,p-Xylene	2255	60	2000	0	113	80-125	0			
o-Xylene	1112	30	1000	0	111	75-125	0			
Toluene	1106	30	1000	0	111	70-125	0			
Xylenes, Total	3368	90	3000	0	112	75-125	0			
Surr: 1,2-Dichloroethane-d4	1027	0	1000	0	103	70-130	0			
Surr: 4-Bromofluorobenzene	1034	0	1000	0	103	70-130	0			
Surr: Dibromofluoromethane	1059	0	1000	0	106	70-130	0			
Surr: Toluene-d8	1074	0	1000	0	107	70-130	0			

LCS Sample ID: LCS-42094-42094				Units: µg/Kg		Analysis Date: 7/5/2012 02:20 PM				
Client ID:		Run ID: VMS5_120705A		SeqNo: 2021106		Prep Date: 6/29/2012		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	950	30	1000	0	95	75-125	0			
Ethylbenzene	994	30	1000	0	99.4	75-125	0			
m,p-Xylene	1846	60	2000	0	92.3	80-125	0			
o-Xylene	912.5	30	1000	0	91.2	75-125	0			
Toluene	1001	30	1000	0	100	70-125	0			
Xylenes, Total	2758	90	3000	0	92	75-125	0			
Surr: 1,2-Dichloroethane-d4	960	0	1000	0	96	70-130	0			
Surr: 4-Bromofluorobenzene	1012	0	1000	0	101	70-130	0			
Surr: Dibromofluoromethane	941	0	1000	0	94.1	70-130	0			
Surr: Toluene-d8	980.5	0	1000	0	98	70-130	0			

MS Sample ID: 1206960-07A MS				Units: µg/Kg		Analysis Date: 6/30/2012 04:48 AM				
Client ID:		Run ID: VMS7_120629B		SeqNo: 2018318		Prep Date: 6/29/2012		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	912	30	1000	0	91.2	75-125	0			
Ethylbenzene	977.5	30	1000	0	97.8	75-125	0			
m,p-Xylene	1936	60	2000	0	96.8	80-125	0			
o-Xylene	973.5	30	1000	0	97.4	75-125	0			
Toluene	936	30	1000	0	93.6	70-125	0			
Xylenes, Total	2909	90	3000	0	97	75-125	0			
Surr: 1,2-Dichloroethane-d4	855	0	1000	0	85.5	70-130	0			
Surr: 4-Bromofluorobenzene	935	0	1000	0	93.5	70-130	0			
Surr: Dibromofluoromethane	874.5	0	1000	0	87.4	70-130	0			
Surr: Toluene-d8	949.5	0	1000	0	95	70-130	0			

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

Client: HRL Compliance Solutions
Work Order: 1206952
Project: Bayless Pit Closure Philadelphia Creek #42 6/26/12

QC BATCH REPORT

Batch ID: **42094** Instrument ID **VMS7** Method: **SW8260**

MSD				Sample ID: 1206960-07A MSD			Units: µg/Kg		Analysis Date: 6/30/2012 05:13 AM	
Client ID:				Run ID: VMS7_120629B			SeqNo: 2018319		Prep Date: 6/29/2012	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	898	30	1000	0	89.8	75-125	912	1.55	30	
Ethylbenzene	958.5	30	1000	0	95.8	75-125	977.5	1.96	30	
m,p-Xylene	1910	60	2000	0	95.5	80-125	1936	1.35	30	
o-Xylene	957.5	30	1000	0	95.8	75-125	973.5	1.66	30	
Toluene	927	30	1000	0	92.7	70-125	936	0.966	30	
Xylenes, Total	2867	90	3000	0	95.6	75-125	2909	1.45	30	
Surr: 1,2-Dichloroethane-d4	815	0	1000	0	81.5	70-130	855	4.79	30	
Surr: 4-Bromofluorobenzene	935	0	1000	0	93.5	70-130	935	0	30	
Surr: Dibromofluoromethane	867.5	0	1000	0	86.8	70-130	874.5	0.804	30	
Surr: Toluene-d8	951.5	0	1000	0	95.2	70-130	949.5	0.21	30	

The following samples were analyzed in this batch: | 1206952-01A |

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

Client: HRL Compliance Solutions
Work Order: 1206952
Project: Bayless Pit Closure Philadelphia Creek #42 6/26/12

QC BATCH REPORT

Batch ID: **42079** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-42079-42079				Units: mg/Kg		Analysis Date: 6/29/2012 04:00 PM		
Client ID:		Run ID: WETCHEM_120629I				SeqNo: 2017483		Prep Date: 6/28/2012		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-42079-42079				Units: mg/Kg		Analysis Date: 6/29/2012 04:00 PM		
Client ID:		Run ID: WETCHEM_120629I				SeqNo: 2017482		Prep Date: 6/28/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.945 0.49 1.976 0 98.4 75-110 0

MS		Sample ID: 1206943-03A MS				Units: mg/Kg		Analysis Date: 6/29/2012 04:00 PM		
Client ID:		Run ID: WETCHEM_120629I				SeqNo: 2017474		Prep Date: 6/28/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 2.06 0.50 1.992 0.1434 96.2 60-130 0

MSD		Sample ID: 1206943-03A MSD				Units: mg/Kg		Analysis Date: 6/29/2012 04:00 PM		
Client ID:		Run ID: WETCHEM_120629I				SeqNo: 2017475		Prep Date: 6/28/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 2 0.50 1.984 0.1434 93.6 60-130 2.06 2.94 30

The following samples were analyzed in this batch:

1206952-01B

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

Client: HRL Compliance Solutions
Work Order: 1206952
Project: Bayless Pit Closure Philadelphia Creek #42 6/26/12

QC BATCH REPORT

Batch ID: **R106729** Instrument ID **WETCHEM** Method: **SW9045D**

LCS		Sample ID: LCS-R106729-R106729					Units: s.u.		Analysis Date: 6/29/2012 08:00 AM		
Client ID:			Run ID: WETCHEM_120629B			SeqNo: 2016561		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

pH	3.98	0	4.4	0	90.5	90-110	0			
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DUP		Sample ID: 1206951-03A DUP					Units: s.u.		Analysis Date: 6/29/2012 08:00 AM		
Client ID:		Run ID: WETCHEM_120629B			SeqNo: 2016607		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

pH	7.84	0	0	0	0	0-0	7.84	0	20	
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DUP		Sample ID: 1206960-01B DUP					Units: s.u.		Analysis Date: 6/29/2012 08:00 AM		
Client ID:		Run ID: WETCHEM_120629B			SeqNo: 2016617		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

pH	5.8	0	0	0	0	0-0	5.8	0	20	
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The following samples were analyzed in this batch:

1206952-02A

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

Client: HRL Compliance Solutions
Work Order: 1206952
Project: Bayless Pit Closure Philadelphia Creek #42 6/26/12

QC BATCH REPORT

Batch ID: **R106734** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS1-R106734					Units: % of sample		Analysis Date: 6/28/2012 03:09 PM		
Client ID:	Run ID: MOIST_120628C				SeqNo: 2016671		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-R106734					Units: % of sample		Analysis Date: 6/28/2012 03:09 PM		
Client ID:	Run ID: MOIST_120628C				SeqNo: 2016670		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: 1206947-05ADUP					Units: % of sample		Analysis Date: 6/28/2012 03:09 PM		
Client ID:	Run ID: MOIST_120628C				SeqNo: 2016626		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 0 0 0 0-0 0 0 20

DUP	Sample ID: 1206950-05ADUP					Units: % of sample		Analysis Date: 6/28/2012 03:09 PM		
Client ID:	Run ID: MOIST_120628C				SeqNo: 2016657		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 0.18 0.050 0 0 0 0-0 0.18 0 20

The following samples were analyzed in this batch:

1206952-01B

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

Client: HRL Compliance Solutions
Work Order: 1206952
Project: Bayless Pit Closure Philadelphia Creek #42 6/26/12

QC BATCH REPORT

Batch ID: **R106736** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS1-R106736					Units: % of sample		Analysis Date: 6/28/2012 03:25 PM		
Client ID:	Run ID: MOIST_120628D				SeqNo: 2016706		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-R106736					Units: % of sample		Analysis Date: 6/28/2012 03:25 PM		
Client ID:	Run ID: MOIST_120628D				SeqNo: 2016705		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: 1206952-02ADUP					Units: % of sample		Analysis Date: 6/28/2012 03:25 PM		
Client ID: BKGD 1	Run ID: MOIST_120628D				SeqNo: 2016689		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 0.66 0.050 0 0 0 0-0 0.52 23.7 20 R

DUP	Sample ID: 1206955-07ADUP					Units: % of sample		Analysis Date: 6/28/2012 03:25 PM		
Client ID:	Run ID: MOIST_120628D				SeqNo: 2016702		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 2.03 0.050 0 0 0 0-0 1.99 1.99 20

The following samples were analyzed in this batch:

1206952-02A	1206952-03A	1206952-04A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1206952
Project: Bayless Pit Closure Philadelphia Creek #42 6/26/12

QC BATCH REPORT

Batch ID: **R106759** Instrument ID **WETCHEM** Method: **SW9045D**

LCS					Sample ID: LCS-R106759-R106759					Units: s.u.			Analysis Date: 6/29/2012 12:00 PM			
Client ID:					Run ID: WETCHEM_120629G					SeqNo: 2017222			Prep Date:		DF: 1	
Analyte					Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH					3.99		0	4.4	0	90.7	90-110	0				

DUP					Sample ID: 12061001-01A DUP					Units: s.u.			Analysis Date: 6/29/2012 12:00 PM		
Client ID:				Run ID: WETCHEM_120629G				SeqNo: 2017462			Prep Date:		DF: 1		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
pH		10.81	0	0	0	0	0-0	10.81	0	20					

The following samples were analyzed in this batch:

1206952-01B

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 #

1206152

PROJECT NAME		SAMPLER		DATE		PAGE	
Bayless Pit Closure Philadelphia Creek # 42		Luke Miley		6/27/2012		1 of 1	
PROJECT No.		SITE ID		TURNAROUND		DISPOSAL	
				Standard 5 Day		By Lab or Return to Client	
COMPANY NAME		EDD FORMAT					
HRL Compliance Solutions, Inc.		PURCHASE ORDER					
SEND REPORT TO		BILL TO COMPANY					
Kris Rowe		INVOICE ATTN TO					
ADDRESS		ADDRESS					
744 Horizon Ct. Suite 140							
CITY / STATE / ZIP		CITY / STATE / ZIP					
Grand Junction, CO. 81506							
PHONE		PHONE					
970-243-3271							
FAX		FAX					
970-243-3280							
E-MAIL		E-MAIL					
Krowe@hrlcomp.com							
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC
1	Pit Bottom	S	6/26/2012	1030	3	4°C	
2	BKGD 1	S	6/26/2012	1040	2	4°C	
3	BKGD 2	S	6/26/2012	1045	1	4°C	
4	BKGD 3	S	6/26/2012	1050	1	4°C	

⑧ DRO/GRO/BTEX
PAH, Metals, pit
Cr 6 Cr 3 SAR-EC

*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:	<p>4.0-5.42</p>
QC PACKAGE (check below)	
x	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	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
<i>Luke Miley</i>	Luke Miley	6/27/2012	1700
RELINQUISHED BY	RECEIVED BY		
<i>Diane F Shaw</i>	Diane F Shaw	6/28/12	0900
RELINQUISHED BY	RECEIVED BY		
RELINQUISHED BY	RECEIVED BY		



Environmental

Subcontractor:

A & L Great Lakes Agricultural La

3505 Conestoga Dr

TEL: (260) 483-4759

FAX: (260) 483-5274

Ft. Wayne, IN 46808

Acct #: 91000

Salesperson

Bruce Schlatter

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Date: **28-Jun-12**

COC ID: **3726**

Due D **05-Jul-12**

Customer Information		Project Information		Parameter/Method Request for Analysis											
Purchase Order		Project Name	1206952	A	Subcontracted Analyses (SUBCONTRACT) SAR-EC										
Work Order		Project Number		B											
Company Name	ALS Group USA, Corp	Bill To Company	ALS Group USA, Corp	C											
Send Report To	Ann Preston	Inv Attn	Accounts Payable	D											
Address	3352 128th Avenue	Address	3352 128th Avenue	E											
				F											
City/State/Zip	Holland, Michigan 49424-9263	City/State/Zip	Holland, Michigan 49424-9263	G											
Phone	(616) 399-6070	Phone	(616) 399-6070	H											
Fax	(616) 399-6185	Fax	(616) 399-6185	I											
eMail Address	ann.preston@alsglobal.com	eMail CC		J											
ALS Sample ID	Client Sample ID	Matrix	Collection Date 24hr	Bottle	A	B	C	D	E	F	G	H	I	J	
1206952-01C	Pit Bottom	Soil	26/Jun/2012 10:30	(1) MISC	X										
1206952-02B	BKGD 1	Soil	26/Jun/2012 10:40	(1) MISC	X										

Comments:

Please analyze for SAR-EC. Email results to Ann Preston.

Relinquished by:

[Signature]

Date/Time

6/29/12

Received by:

[Signature]

Date/Time

Cooler IDs

Report/QC Level

Std

Relinquished by:

Date/Time

Received by:

Date/Time

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 28-Jun-12 09:00

Work Order: 1206952

Received by: DS

Checklist completed by Diane Shaw 28-Jun-12
eSignature Date

Reviewed by: Ann Preston 28-Jun-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>4.0-5.4 c</u>		
Cooler(s)/Kit(s):			
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:

4.0 - 5.4'c

CUSTODY SEAL
DATE 6/7/12
SIGNATURE [Signature]

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

Express **US Airbill** 8001 2142 0359 0200 Form ID No. **FedEx Retrieval Copy**

1 From
Date 6/7/12
Sender's Name WEST Phone 776 343-7552
Company WEST
Address 744 Harrison St Apt./Floor/State/Room 140
City Glenside, PA State PA ZIP 15116

2 Your Internal Billing Reference

3 To
Recipient's Name Sample Receiving Phone 616 399-6610
Company ALS Group
Address 3312 178th Ave Apt./Floor/State/Room
We cannot deliver to P.O. boxes or P.O. ZIP codes.
Address (Use this line for the HOLD location address or for continuation of your shipping address)
City Mass State MA ZIP 01924

4 Express Package Service *To most locations.
NOTE: Service order has changed. Please select carefully.

☐ Next Business Day
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☐ FedEx Box
☐ FedEx Tube
☒ Other

6 Special Handling and Delivery Signature Options

☒ No Signature Required
☐ Direct Signature
☐ Indirect Signature

Does this shipment contain dangerous goods?
☒ No
☐ Yes

7 Payment Bill to:
☐ Sender
☒ Recipient
☐ Third Party
☐ Credit Card
☐ Cash/Check

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