FORM 4
Rev 12/05

# 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
2. Name of Operator: Robert L. Bayless LLC
3. Address: PO BOX 168
City: Farmington State: NM Zip: 87499
4. Contact Name: Habib Guerrero
Phone: 505-564-7810
Fax: 505-326-6911

5. API Number: 05- 103-08381
OGCC Facility ID Number: Location ID# 315369
6. Well/Facility Name: Philadelphia Creek #33
7. Well/Facility Number: N/A
8. Location (QtrQtr, Sec, Twp, Rng, Meridian): SWSE, Sec 1, T2S, R101W, 6th PM
9. County: Rio Blanco
10. Field Name: Philadelphia Creek
11. Federal, Indian or State Lease Number:

Complete the Attachment Checklist

| | OP | OGCC |
|---|---|---|
| Survey Plat | | |
| Directional Survey | | |
| Surface Eqpmt Diagram | | |
| Technical Info Page | X | |
| Other | | |

## General Notice

☐ CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)

| | FNL/FSL | | FEL/FWL | |
|---|---|---|---|---|
| Change of **Surface** Footage **from** Exterior Section Lines: | | | | |
| Change of **Surface** Footage **to** Exterior Section Lines: | | | | |
| Change of **Bottomhole** Footage **from** Exterior Section Lines: | | | | |
| Change of **Bottomhole** Footage **to** Exterior Section Lines: | | | | |

attach directional survey

Bottomhole location Qtr/Qtr, Sec, Twp, Rng, Mer

Latitude
Longitude
Ground Elevation
Distance to nearest property line
Distance to nearest lease line
Distance to nearest well same formation
Distance to nearest bldg, public rd, utility or RR
Is location in a High Density Area (rule 603b)? Yes/No
Surface owner consultation date:

GPS DATA:
Date of Measurement
PDOP Reading
Instrument Operator's Name

☐ CHANGE SPACING UNIT

| Formation | Formation Code | Spacing order number | Unit Acreage | Unit configuration |
|---|---|---|---|---|
| | | | | |

☐ Remove from surface bond
Signed surface use agreement attached

☐ CHANGE OF OPERATOR (prior to drilling):
Effective Date:
Plugging Bond: ☐ Blanket ☐ Individual

☐ CHANGE WELL NAME NUMBER
From:
To:
Effective Date:

☐ ABANDONED LOCATION:
Was location ever built? ☐ Yes ☐ No
Is site ready for Inspection? ☐ Yes ☐ No
Date Ready for Inspection:

☐ NOTICE OF CONTINUED SHUT IN STATUS
Date well shut in or temporarily abandoned:
Has Production Equipment been removed from site? ☐ Yes ☐ No
MIT required if shut in longer than two years. Date of last MIT

☐ SPUD DATE:

☐ REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)

☐ SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK *submit cbl and cement job summaries

| Method used | Cementing tool setting/perf depth | Cement volume | Cement top | Cement bottom | Date |
|---|---|---|---|---|---|
| | | | | | |

☐ 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

☐ Notice of Intent
Approximate Start Date:

☐ Report of Work Done
Date Work Completed:

Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)

☐ Intent to Recomplete (submit form 2)
☐ Change Drilling Plans
☐ Gross Interval Changed?
☐ Casing/Cementing Program Change
☐ Request to Vent or Flare
☐ Repair Well
☐ Rule 502 variance requested
☒ Other: Pit Closures
☐ E&P Waste Disposal
☐ Beneficial Reuse of E&P Waste
☐ 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
Date: 1/4/2013
Email: hguerrero@rlbayless.com
Print Name: Habib Guerrero
Title: Operation Engineer

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

FORM 4
Rev 12/05

# TECHNICAL INFORMATION PAGE

FOR OGCC USE ONLY

1. OGCC Operator Number: 6720 API Number: 05-103-08381
2. Name of Operator: Robert L. Bayless LLC OGCC Facility ID # N/A
3. Well/Facility Name: Philadelphia Creek # 33 Well/Facility Number: N/A
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): SWSE, Sec 1, T2S, R101W, 6th PM

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 completiong for the Philadelphia Creek Pit #33, located in Rio Blanco County. By definition as outlined in COGCC Rule 903, the pigging/blow down pit did not require the necessary Form 15 permitting.

Samples were collected from the pit during an initial site visit on June 6, 2012. Results indicated that soils on the bottom of the pit exceeced COGCC Table 910-1 for DRO with a results of 820 mg/kg. The impacted soils were reported to the COGCC via Form 19 on July 7, 2012 @ 13:15.

The impacted soils were excavated from the pit and placed within a bermed containment cell on location for disposal profiling to Rio Blanco County Landfill (RBC Landfill). Soils were disposed of at the RBC Landfill on December 26-27, 2012.

Bayless is requesting approval to backfill the excavation with clean native soil from the surrouding pad and requrest closure of the Form 19 spill.

Attached are the analytical results collected during the initial investigation as well as after excvation of the impacted soils.

Attachment 1: Initial Investigation Pit Bottom 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 #33 6/26/12** Work Order: **1206949**

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 21.

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

Sincerely,

Ann Preston

Electronically approved by: Ann Preston

Ann Preston
Project Manager

Certificate No: MN331938

# ALS Group USA, Corp

Date: 06-Jul-12

**Client:** HRL Compliance Solutions
**Project:** Bayless Pit Closure Philadelphia Creek #33 6/26/12
**Work Order:** **1206949**

## Work Order Sample Summary

| Lab Samp ID | Client Sample ID | Matrix | Tag Number | Collection Date | Date Received | Hold |
|---|---|---|---|---|---|---|
| 1206949-01 | Pit Bottom (BAY) | Soil | | 6/26/2012 14:30 | 6/28/2012 09:00 | ☐ |
| 1206949-02 | BKGD 1 | Soil | | 6/26/2012 14:35 | 6/28/2012 09:00 | ☐ |
| 1206949-03 | BKDG 2 | Soil | | 6/26/2012 14:40 | 6/28/2012 09:00 | ☐ |
| 1206949-04 | BKGD 3 | Soil | | 6/26/2012 14:50 | 6/28/2012 09:00 | ☐ |

# ALS Group USA, Corp

Date: 06-Jul-12

**Client:** HRL Compliance Solutions
**Project:** Bayless Pit Closure Philadelphia Creek #33 6/26/12
**WorkOrder:** **1206949**

## QUALIFIERS, ACRONYMS, UNITS

| Qualifier | Description |
|---|---|
| * | 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 |

| Acronym | Description |
|---|---|
| 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 |

| Units Reported | Description |
|---|---|
| % of sample | Percent of Sample |
| µg/Kg-dry | Micrograms per Kilogram Dry Weight |
| as noted | |
| 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 #33 6/26/12 **Work Order:** 1206949
**Sample ID:** Pit Bottom (BAY) **Lab ID:** 1206949-01
**Collection Date:** 6/26/2012 02:30 PM **Matrix:** SOIL

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|
| **DIESEL RANGE ORGANICS BY GC-FID** | | | **SW8015M** | | Prep Date: **6/29/2012** | Analyst: **CW** |
| **DRO (C10-C28)** | **820** | | **4.1** | **mg/Kg-dry** | 1 | 6/29/2012 07:06 PM |
| *Surr: 4-Terphenyl-d14* | *63.7* | | *39-115* | *%REC* | 1 | 6/29/2012 07:06 PM |
| **GASOLINE RANGE ORGANICS BY GC-FID** | | | **SW8015** | | | Analyst: **CW** |
| GRO (C6-C10) | ND | | 2.5 | mg/Kg-dry | 50 | 6/30/2012 01:55 AM |
| *Surr: Toluene-d8* | *108* | | *50-150* | *%REC* | 50 | 6/30/2012 01:55 AM |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260** | | Prep Date: **6/29/2012** | Analyst: **BG** |
| Benzene | ND | | 31 | µg/Kg-dry | 1 | 7/3/2012 06:49 PM |
| Ethylbenzene | ND | | 31 | µg/Kg-dry | 1 | 7/3/2012 06:49 PM |
| **m,p-Xylene** | **72** | | **61** | **µg/Kg-dry** | 1 | 7/3/2012 06:49 PM |
| o-Xylene | ND | | 31 | µg/Kg-dry | 1 | 7/3/2012 06:49 PM |
| Toluene | ND | | 31 | µg/Kg-dry | 1 | 7/3/2012 06:49 PM |
| **Xylenes, Total** | **96** | | **92** | **µg/Kg-dry** | 1 | 7/3/2012 06:49 PM |
| *Surr: 1,2-Dichloroethane-d4* | *108* | | *70-130* | *%REC* | 1 | 7/3/2012 06:49 PM |
| *Surr: 4-Bromofluorobenzene* | *110* | | *70-130* | *%REC* | 1 | 7/3/2012 06:49 PM |
| *Surr: Dibromofluoromethane* | *106* | | *70-130* | *%REC* | 1 | 7/3/2012 06:49 PM |
| *Surr: Toluene-d8* | *110* | | *70-130* | *%REC* | 1 | 7/3/2012 06:49 PM |
| **MOISTURE** | | | **A2540 G** | | | Analyst: **CG** |
| **Moisture** | **1.7** | | **0.050** | **% of sample** | 1 | 6/28/2012 03:09 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 #33 6/26/12 **Work Order:** 1206949
**Sample ID:** BKGD 1 **Lab ID:** 1206949-02
**Collection Date:** 6/26/2012 02:35 PM **Matrix:** SOIL

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|
| **METALS BY ICP-MS** | | | **SW6020A** | | Prep Date: **6/29/2012** | Analyst: **ML** |
| **Arsenic** | **2.6** | | **0.77** | **mg/Kg-dry** | 2 | 6/30/2012 05:55 AM |
| **SUBCONTRACTED ANALYSES** | | | **SUBCONTRACT** | | | Analyst: **A&LGL** |
| **Subcontracted Analyses** | **Rcvd 7/5/12** | | | **as noted** | 1 | 7/5/2012 |
| **MOISTURE** | | | **A2540 G** | | | Analyst: **CG** |
| Moisture | ND | | 0.050 | % of sample | 1 | 6/28/2012 03:09 PM |
| **PH** | | | **SW9045D** | | | Analyst: **NZ** |
| **pH** | **7.88** | | | **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 #33 6/26/12 **Work Order:** 1206949

**Sample ID:** BKDG 2 **Lab ID:** 1206949-03

**Collection Date:** 6/26/2012 02:40 PM **Matrix:** SOIL

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|
| **METALS BY ICP-MS** | | | **SW6020A** | | Prep Date: **6/29/2012** | Analyst: **ML** |
| **Arsenic** | **3.0** | | **0.77** | **mg/Kg-dry** | 2 | 6/30/2012 06:25 AM |
| **MOISTURE** | | | **A2540 G** | | | Analyst: **CG** |
| **Moisture** | **0.090** | | **0.050** | **% of sample** | 1 | 6/28/2012 03:09 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 #33 6/26/12 **Work Order:** 1206949

**Sample ID:** BKGD 3 **Lab ID:** 1206949-04

**Collection Date:** 6/26/2012 02:50 PM **Matrix:** SOIL

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|
| **METALS BY ICP-MS** | | | **SW6020A** | | Prep Date: **6/29/2012** | Analyst: **ML** |
| **Arsenic** | **2.5** | | **0.81** | **mg/Kg-dry** | 2 | 6/30/2012 06:31 AM |
| **MOISTURE** | | | **A2540 G** | | | Analyst: **CG** |
| **Moisture** | **0.080** | | **0.050** | **% of sample** | 1 | 6/28/2012 03:09 PM |

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

Report Number: F12185-0121
Acount 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 1206949

DATE RECEIVED: 07/03/2012
DATE REPORTED: 07/05/2012
PAGE: 1
P.O. NUMBER: 20-1206949

ATTN: ANN PRESTON

## REPORT OF ANALYSIS

| LAB NO. | SAMPLE ID | ANALYSIS | RESULT | UNIT | METHOD |
|---|---|---|---|---|---|
| 55335 | BKGD1 | Sat'd Paste Extraction with DIW | | | USDA Handbook 60 |
| | | Conductivity (ECe) | 0.25 | mmho/cm | USDA Handbook 60 |
| | | Calcium (Sat'd Paste) | 39 | ppm | USDA Handbook 60 |
| | | Magnesium (Sat'd Paste) | 7 | ppm | USDA Handbook 60 |
| | | Sodium (Sat'd Paste) | 10 | ppm | USDA Handbook 60 |
| | | Sodium Adsorption Ratio (SAR) | 0.4 | - | USDA Handbook 60 |

# QC BATCH REPORT

Batch ID: **42052A** Instrument ID **GC8** Method: **SW8015M**

**MBLK** Sample ID: **DBLKS1-42052-42052A** Units: **mg/Kg** Analysis Date: **6/29/2012 04:13 PM**

Client ID: Run ID: **GC8_120629A** SeqNo: **2018148** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | ND | 4.2 | | | | | | | | |
| *Surr: 4-Terphenyl-d14* | *0.7427* | 0 | *1.667* | 0 | *44.6* | *39-115* | 0 | | | |

**LCS** Sample ID: **DLCSS1-42052-42052A** Units: **mg/Kg** Analysis Date: **6/29/2012 04:13 PM**

Client ID: Run ID: **GC8_120629A** SeqNo: **2018142** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | 134.2 | 4.2 | 166.7 | 0 | 80.5 | 60-130 | 0 | | | |
| *Surr: 4-Terphenyl-d14* | *0.9407* | 0 | *1.667* | 0 | *56.4* | *39-115* | 0 | | | |

**MS** Sample ID: **1206946-01B MS** Units: **mg/Kg** Analysis Date: **6/29/2012 04:38 PM**

Client ID: Run ID: **GC8_120629A** SeqNo: **2018149** Prep Date: **6/29/2012** DF: **5**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | 395.5 | 41 | 327.3 | 113 | 86.3 | 60-130 | 0 | | | |
| *Surr: 4-Terphenyl-d14* | *1.466* | 0 | *3.273* | 0 | *44.8* | *39-115* | 0 | | | |

**MSD** Sample ID: **1206946-01B MSD** Units: **mg/Kg** Analysis Date: **6/29/2012 04:38 PM**

Client ID: Run ID: **GC8_120629A** SeqNo: **2018143** Prep Date: **6/29/2012** DF: **5**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | 495.1 | 42 | 332.4 | 113 | 115 | 60-130 | 395.5 | 22.4 | 30 | |
| *Surr: 4-Terphenyl-d14* | *1.802* | 0 | *3.324* | 0 | *54.2* | *39-115* | 1.466 | *20.5* | *30* | |

**The following samples were analyzed in this batch:** 1206949-01B

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

**Client:** HRL Compliance Solutions
**Work Order:** 1206949
**Project:** Bayless Pit Closure Philadelphia Creek #33 6/26/12

# QC BATCH REPORT

Batch ID: **R106780** Instrument ID **GC9** Method: **SW8015**

**MBLK** Sample ID: **MBLK-R106780-R106780** Units: **µg/L** Analysis Date: **6/29/2012 07:45 PM**
Client ID: Run ID: **GC9_120629B** SeqNo: **2017651** 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 | | | | | | | | |
| *Surr: Toluene-d8* | *105.9* | 0 | *100* | 0 | *106* | *70-130* | 0 | | | |

**LCS** Sample ID: **LCS-R106780-R106780** Units: **µg/L** Analysis Date: **6/29/2012 07:20 PM**
Client ID: Run ID: **GC9_120629B** SeqNo: **2017650** 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) | 25200 | 200 | 25000 | 0 | 101 | 70-130 | 0 | | | |
| *Surr: Toluene-d8* | *104* | 0 | *100* | 0 | *104* | *70-130* | 0 | | | |

**MS** Sample ID: **1206909-10A MS** Units: **µg/Kg** Analysis Date: **6/30/2012 04:22 AM**
Client ID: Run ID: **GC9_120629B** SeqNo: **2017844** 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) | 1239000 | 2,500 | 1250000 | 0 | 99.1 | 70-130 | 0 | | | |
| *Surr: Toluene-d8* | *5004* | 0 | *5000* | 0 | *100* | *50-150* | 0 | | | |

**MSD** Sample ID: **1206909-10A MSD** Units: **µg/Kg** Analysis Date: **6/30/2012 04:47 AM**
Client ID: Run ID: **GC9_120629B** SeqNo: **2017845** 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) | 1212000 | 2,500 | 1250000 | 0 | 97 | 70-130 | 1239000 | 2.19 | 30 | |
| *Surr: Toluene-d8* | *4965* | 0 | *5000* | 0 | *99.3* | *50-150* | 5004 | *0.792* | *30* | |

**The following samples were analyzed in this batch:** 1206949-01A

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

**Client:** HRL Compliance Solutions
**Work Order:** 1206949
**Project:** Bayless Pit Closure Philadelphia Creek #33 6/26/12

# QC BATCH REPORT

Batch ID: **42062** Instrument ID **ICPMS1** Method: **SW6020A**

**MBLK** Sample ID: **MBLK-42062-42062** Units: **mg/Kg** Analysis Date: **6/30/2012 04:22 AM**
Client ID: Run ID: **ICPMS1_120629A** SeqNo: **2017769** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | 0.25 | | | | | | | | |

**LCS** Sample ID: **LCS-42062-42062** Units: **mg/Kg** Analysis Date: **6/30/2012 04:28 AM**
Client ID: Run ID: **ICPMS1_120629A** SeqNo: **2017770** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 4.738 | 0.25 | 5 | 0 | 94.8 | 80-120 | 0 | | | |

**MS** Sample ID: **1206949-02AMS** Units: **mg/Kg** Analysis Date: **6/30/2012 06:07 AM**
Client ID: **BKGD 1** Run ID: **ICPMS1_120629A** SeqNo: **2017786** Prep Date: **6/29/2012** DF: **2**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 9.97 | 0.82 | 8.21 | 2.597 | 89.8 | 80-120 | 0 | | | |

**MSD** Sample ID: **1206949-02AMSD** Units: **mg/Kg** Analysis Date: **6/30/2012 06:13 AM**
Client ID: **BKGD 1** Run ID: **ICPMS1_120629A** SeqNo: **2017787** Prep Date: **6/29/2012** DF: **2**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 9.411 | 0.82 | 8.157 | 2.597 | 83.5 | 80-120 | 9.97 | 5.77 | 25 | |

**The following samples were analyzed in this batch:** 1206949-02A 1206949-03A 1206949-04A

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

**Client:** HRL Compliance Solutions
**Work Order:** 1206949
**Project:** Bayless Pit Closure Philadelphia Creek #33 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:** 1206949
**Project:** Bayless Pit Closure Philadelphia Creek #33 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:** 1206949
**Project:** Bayless Pit Closure Philadelphia Creek #33 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:** 1206949
**Project:** Bayless Pit Closure Philadelphia Creek #33 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:** 1206949-01A

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

**Client:** HRL Compliance Solutions
**Work Order:** 1206949
**Project:** Bayless Pit Closure Philadelphia Creek #33 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 | | | |

**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 | |

**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 | |

**The following samples were analyzed in this batch:** 1206949-02A

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

**Client:** HRL Compliance Solutions
**Work Order:** 1206949
**Project:** Bayless Pit Closure Philadelphia Creek #33 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:** 1206949-01B 1206949-02A 1206949-03A 1206949-04A

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

# ALS Laboratory Group

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

# Chain-of-Custody

Form 202r8

WORK ORDER # 1206949

PAGE 1 of 1

| | | | |
|---|---|---|---|
| PROJECT NAME | Bayless Pit Closure Philadelphia Creek # 33 | SAMPLER | Luke Miley |
| PROJECT NO. | | SITE ID | |
| | | EDD FORMAT | |
| | | PURCHASE ORDER | |
| COMPANY NAME | HRL Compliance Solutions, Inc. | BILL TO COMPANY | |
| SEND REPORT TO | Kris Rowe | INVOICE ATTN TO | |
| ADDRESS | 744 Horizon Ct. Suite 140 | ADDRESS | |
| CITY / STATE / ZIP | Grand Junction, CO. 81506 | CITY / STATE / ZIP | |
| PHONE | 970-243-3271 | PHONE | |
| FAX | 970-243-3280 | FAX | |
| E-MAIL | Krowe@hrlcomp.com | E-MAIL | |

DATE: 6/27/2012

TURNAROUND: Standard 5 Day

DISPOSAL: By Lab or Return to Client

| Lab ID | Field ID | Matrix | Sample Date | Sample Time | # Bottles | Pres. | QC | DRO (see comments) | GRO (see comments) | BTEX (see comments) | TABLE 910-1 | Arsenic | EC, SAR, pH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | Pit Bottom (BAY) | S | 6/26/2012 | 1430 | 3 | 4°c | | x | x | x | Hold | Hold | Hold |
| 02 | BKGD 1 | S | 6/26/2012 | 1435 | 2 | 4°c | | | | | | x | x |
| 03 | BKGD 2 | S | 6/26/2012 | 1440 | 1 | 4°c | | | | | | x | |
| 04 | BKGD 3 | S | 6/26/2012 | 1450 | 1 | 4°c | | | | | | x | |

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

**For metals or anions, please detail analytes below.**

**Comments:**

Run DRO/GRO/BTEX initially. If TPH is less that 500 mg/kg, finish remaining analysis.

4.0 - 5.4°C

| 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 |
|---|---|---|---|---|
| RELINQUISHED BY | | Luke Miley | 6/27/2012 | 1700 |
| RECEIVED BY | | Diane F Shaw | 6/28/12 | 0900 |
| RELINQUISHED BY | | | | |
| RECEIVED BY | | | | |
| RELINQUISHED BY | | | | |
| RECEIVED BY | | | | |

ALS Environmental

**Subcontractor:**
A & L Great Lakes Agricultural La
3505 Conestoga Dr
Ft. Wayne, IN 46808
TEL: (260) 483-4759
FAX: (260) 483-5274
Acct #: 91000

Salesperson **Bruce Schlatter**

# CHAIN-OF-CUSTODY RECORD



Date: 28-Jun-12
COC ID: 3730
Due D 05-Jul-12

| Customer Information | | Project Information | | Parameter/Method Request for Analysis | |
|---|---|---|---|---|---|
| Purchase Order | | Project Name | 1206949 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1206949-01C | Pit Bottom (BAY) | Soil | 26/Jun/2012 14:30 | (1) MISC | X — Hold | | | | | | | | | |
| 1206949-02B | BKGD 1 | Soil | 26/Jun/2012 14:35 | (1) MISC | X | | | | | | | | | |

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

| Relinquished by: | Date/Time | Received by: | Date/Time | Cooler IDs | Report/QC Level |
|---|---|---|---|---|---|
| | 6/29/12 | | | | Std |
| Relinquished by: | Date/Time | Received by: | Date/Time | | |

ALS Group USA, Corp

## Sample Receipt Checklist

Client Name: **HRL** Date/Time Received: **28-Jun-12 09:00**

Work Order: **1206949** Received by: **DS**

Checklist completed by Diane Shaw (eSignature) 28-Jun-12 (Date) Reviewed by: Ann Preston (eSignature) 28-Jun-12 (Date)

Matrices: Soil
Carrier name: FedEx

| | | | |
|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on shipping container/cooler? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on sample bottles? | Yes ☐ | No ☐ | Not Present ☑ |
| Chain of custody present? | Yes ☑ | No ☐ | |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | |
| Sample containers intact? | Yes ☑ | No ☐ | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | |
| All samples received within holding time? | Yes ☑ | No ☐ | |
| Container/Temp Blank temperature in compliance? | Yes ☑ | No ☐ | |
| Temperature(s)/Thermometer(s): | 4.0-5.4 c | | |
| Cooler(s)/Kit(s): | | | |
| Water - VOA vials have zero headspace? | Yes ☐ | No ☐ | No VOA vials submitted ☑ |
| Water - pH acceptable upon receipt? | Yes ☐ | No ☐ | N/A ☑ |
| pH adjusted? | Yes ☐ | No ☐ | N/A ☑ |
| pH adjusted by: | | | |

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

4.0 - 5.4 c

CUSTODY SEAL
DATE 6/12
SIGN.

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

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

1 From
Date 6/12/12
Sender's Name [redacted] Phone 724 243-7512
Company [redacted]
Address 741 Vanzon Ct SE 140
Dept/Floor/Suite/Room
City Cross Lanes State WV ZIP 25306

2 Your Internal Billing Reference

3 To
Recipient's Name Sample Receiving Phone 616 399-6070
Company ALS Group
Address 3352 128th Ave
We cannot deliver to P.O. boxes or P.O. ZIP codes.
Dept/Floor/Suite/Room
Address
Use this line for the HOLD location address or for continuation of your shipping address
City Holland State MI ZIP 49424

HOLD Weekday 01 ☐
FedEx location address REQUIRED. NOT available for FedEx First Overnight.
HOLD Saturday 31 ☐
FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

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

Next Business Day
06 ☐ FedEx First Overnight
Earliest next business morning delivery to select locations. Saturday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
01 X FedEx Priority Overnight *
Next business morning. Saturday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
05 ☐ FedEx Standard Overnight
Next business afternoon * Saturday Delivery NOT available.

2nd Business Day
49 ☐ NEW FedEx 2Day A.M.
Second business morning. * Saturday Delivery NOT available.
03 ☐ FedEx 2Day
Second business afternoon * Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
20 ☐ FedEx Express Saver
Third business day * Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.
06 FedEx Envelope* 02 FedEx Pak* 03 FedEx Box 04 FedEx Tube 01 X Other

6 Special Handling and Delivery Signature Options
03 SATURDAY DELIVERY
X No Signature Required
Package may be left without obtaining a signature for delivery.
10 ☐ Direct Signature
Someone at recipient's address may sign for delivery. Fee applies.
34 ☐ Indirect Signature
If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?
One box must be checked.
X No 04 ☐ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required 06 ☐ Dry Ice Dry Ice, 9, UN 1845 kg
Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.
☐ Cargo Aircraft Only

7 Payment Bill to:
Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. ☐
1 ☐ Sender Acct. No. in Section 1 will be billed 2 X Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check

Total Packages 1 Total Weight 60 lbs. Credit Card Auth.

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

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Attachment 2: Post Excavation Pit Bottom Analytical Results

20-Aug-2012

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

Re: **RL Bayless Philadelphia Creek #33 8/7/12** Work Order: **1208323**

Dear Kris,

ALS Environmental received 1 sample on 10-Aug-2012 10:00 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 23.

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

Sincerely,

Ann Preston

Electronically approved by: Ann Preston

Ann Preston
Project Manager

Certificate No: MN331938

# ALS Group USA, Corp

Date: 20-Aug-12

**Client:** HRL Compliance Solutions
**Project:** RL Bayless Philadelphia Creek #33 8/7/12
**Work Order:** **1208323**

## Work Order Sample Summary

| Lab Samp ID | Client Sample ID | Matrix | Tag Number | Collection Date | Date Received | Hold |
|---|---|---|---|---|---|---|
| 1208323-01 | Pit Bottom | Soil | | 8/7/2012 12:00 | 8/10/2012 10:00 | ☐ |

**Client:** HRL Compliance Solutions
**Project:** RL Bayless Philadelphia Creek #33 8/7/12
**Work Order:** 1208323

# Case Narrative

Batch 42957 MS/MSD data for DRO is not related to this project's samples. No data requires qualification.

Batch 43015 MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Batch 42956 MS/MSD data for PAHs is not related to this project's samples. No data requires qualification.

# ALS Group USA, Corp

Date: 20-Aug-12

**Client:** HRL Compliance Solutions
**Project:** RL Bayless Philadelphia Creek #33 8/7/12
**WorkOrder:** **1208323**

## QUALIFIERS, ACRONYMS, UNITS

| Qualifier | Description |
|---|---|
| * | 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 |

| Acronym | Description |
|---|---|
| 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 |

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

# ALS Group USA, Corp

**Date:** *20-Aug-12*

**Client:** HRL Compliance Solutions
**Project:** RL Bayless Philadelphia Creek #33 8/7/12 **Work Order:** 1208323
**Sample ID:** Pit Bottom **Lab ID:** 1208323-01
**Collection Date:** 8/7/2012 12:00 PM **Matrix:** SOIL

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|
| **DIESEL RANGE ORGANICS BY GC-FID** | | | **SW8015M** | | Prep Date: **8/14/2012** | Analyst: **JD** |
| **DRO (C10-C28)** | **130** | | **4.6** | **mg/Kg-dry** | 1 | 8/15/2012 07:34 PM |
| *Surr: 4-Terphenyl-d14* | *61.7* | | *39-115* | *%REC* | 1 | 8/15/2012 07:34 PM |
| **GASOLINE RANGE ORGANICS BY GC-FID** | | | **SW8015** | | | Analyst: **JD** |
| GRO (C6-C10) | ND | | 2.8 | mg/Kg-dry | 50 | 8/13/2012 07:17 PM |
| *Surr: Toluene-d8* | *101* | | *50-150* | *%REC* | 50 | 8/13/2012 07:17 PM |
| **MERCURY BY CVAA** | | | **SW7471** | | Prep Date: **8/14/2012** | Analyst: **RH** |
| **Mercury** | **0.023** | | **0.019** | **mg/Kg-dry** | 1 | 8/14/2012 04:08 PM |
| **METALS BY ICP-MS** | | | **SW6020A** | | Prep Date: **8/16/2012** | Analyst: **ML** |
| **Arsenic** | **2.8** | | **0.85** | **mg/Kg-dry** | 2 | 8/17/2012 10:12 PM |
| **Barium** | **350** | | **8.5** | **mg/Kg-dry** | 20 | 8/18/2012 03:41 PM |
| Cadmium | ND | | 0.34 | mg/Kg-dry | 2 | 8/17/2012 10:12 PM |
| **Chromium** | **7.8** | | **0.85** | **mg/Kg-dry** | 2 | 8/17/2012 10:12 PM |
| **Copper** | **17** | | **0.85** | **mg/Kg-dry** | 2 | 8/17/2012 10:12 PM |
| **Lead** | **84** | | **0.85** | **mg/Kg-dry** | 2 | 8/17/2012 10:12 PM |
| **Nickel** | **10** | | **0.85** | **mg/Kg-dry** | 2 | 8/17/2012 10:12 PM |
| **Selenium** | **0.89** | | **0.85** | **mg/Kg-dry** | 2 | 8/17/2012 10:12 PM |
| Silver | ND | | 0.85 | mg/Kg-dry | 2 | 8/17/2012 10:12 PM |
| **Zinc** | **52** | | **1.7** | **mg/Kg-dry** | 2 | 8/17/2012 10:12 PM |
| **SOLUBLE CATIONS FOR SAR** | | | **SW6020A** | | Prep Date: **8/16/2012** | Analyst: **RH** |
| **Calcium** | **170** | | **5.5** | **mg/L-dry** | 10 | 8/18/2012 09:22 PM |
| **Magnesium** | **25** | | **2.2** | **mg/L-dry** | 10 | 8/18/2012 09:22 PM |
| **Sodium** | **140** | | **2.2** | **mg/L-dry** | 10 | 8/18/2012 09:22 PM |
| **SODIUM ADSORPTION RATIO** | | | **USDA H60 METHO** | | | Analyst: **RH** |
| **Sodium Adsorption Ratio** | **2.5** | | **0.010** | **none** | 1 | 8/18/2012 |
| **SEMI-VOLATILE ORGANIC COMPOUNDS** | | | **SW8270** | | Prep Date: **8/14/2012** | Analyst: **RM** |
| Acenaphthene | ND | | 16 | µg/Kg-dry | 1 | 8/15/2012 05:25 PM |
| Anthracene | ND | | 16 | µg/Kg-dry | 1 | 8/15/2012 05:25 PM |
| Benzo(a)anthracene | ND | | 19 | µg/Kg-dry | 1 | 8/15/2012 05:25 PM |
| Benzo(a)pyrene | ND | | 19 | µg/Kg-dry | 1 | 8/15/2012 05:25 PM |
| Benzo(b)fluoranthene | ND | | 20 | µg/Kg-dry | 1 | 8/15/2012 05:25 PM |
| Benzo(g,h,i)perylene | ND | | 31 | µg/Kg-dry | 1 | 8/15/2012 05:25 PM |
| Benzo(k)fluoranthene | ND | | 20 | µg/Kg-dry | 1 | 8/15/2012 05:25 PM |
| Chrysene | ND | | 16 | µg/Kg-dry | 1 | 8/15/2012 05:25 PM |
| Dibenzo(a,h)anthracene | ND | | 20 | µg/Kg-dry | 1 | 8/15/2012 05:25 PM |
| Fluoranthene | ND | | 16 | µg/Kg-dry | 1 | 8/15/2012 05:25 PM |
| Fluorene | ND | | 16 | µg/Kg-dry | 1 | 8/15/2012 05:25 PM |

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

# ALS Group USA, Corp

**Date:** *20-Aug-12*

**Client:** HRL Compliance Solutions
**Project:** RL Bayless Philadelphia Creek #33 8/7/12 **Work Order:** 1208323
**Sample ID:** Pit Bottom **Lab ID:** 1208323-01
**Collection Date:** 8/7/2012 12:00 PM **Matrix:** SOIL

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|
| Indeno(1,2,3-cd)pyrene | ND | | 22 | µg/Kg-dry | 1 | 8/15/2012 05:25 PM |
| Naphthalene | ND | | 16 | µg/Kg-dry | 1 | 8/15/2012 05:25 PM |
| Pyrene | ND | | 16 | µg/Kg-dry | 1 | 8/15/2012 05:25 PM |
| *Surr: 2-Fluorobiphenyl* | *70.5* | | *12-100* | *%REC* | 1 | 8/15/2012 05:25 PM |
| *Surr: 4-Terphenyl-d14* | *89.3* | | *25-137* | *%REC* | 1 | 8/15/2012 05:25 PM |
| *Surr: Nitrobenzene-d5* | *56.5* | | *37-107* | *%REC* | 1 | 8/15/2012 05:25 PM |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260** | | Prep Date: **8/10/2012** | Analyst: **AK** |
| Benzene | ND | | 33 | µg/Kg-dry | 1 | 8/11/2012 08:30 AM |
| Ethylbenzene | ND | | 33 | µg/Kg-dry | 1 | 8/11/2012 08:30 AM |
| m,p-Xylene | ND | | 67 | µg/Kg-dry | 1 | 8/11/2012 08:30 AM |
| o-Xylene | ND | | 33 | µg/Kg-dry | 1 | 8/11/2012 08:30 AM |
| Toluene | ND | | 33 | µg/Kg-dry | 1 | 8/11/2012 08:30 AM |
| Xylenes, Total | ND | | 100 | µg/Kg-dry | 1 | 8/11/2012 08:30 AM |
| *Surr: 1,2-Dichloroethane-d4* | *101* | | *70-130* | *%REC* | 1 | 8/11/2012 08:30 AM |
| *Surr: 4-Bromofluorobenzene* | *100* | | *70-130* | *%REC* | 1 | 8/11/2012 08:30 AM |
| *Surr: Dibromofluoromethane* | *95.9* | | *70-130* | *%REC* | 1 | 8/11/2012 08:30 AM |
| *Surr: Toluene-d8* | *98.4* | | *70-130* | *%REC* | 1 | 8/11/2012 08:30 AM |
| **ELECTRICAL CONDUCTIVITY (SAR)** | | | **USDA H60 METHO** | | Prep Date: **8/16/2012** | Analyst: **KV** |
| **Electrical Conductivity @ Saturation** | **1.9** | | **0.050** | **mmhos/cm @25** | 10 | 8/17/2012 12:55 PM |
| **CHROMIUM, TRIVALENT** | | | **CALCULATION** | | | Analyst: **JJG** |
| **Chromium, Trivalent** | **7.8** | | **0.55** | **mg/Kg-dry** | 1 | 8/20/2012 08:04 AM |
| **CHROMIUM, HEXAVALENT** | | | **SW7196A** | | Prep Date: **8/10/2012** | Analyst: **JB** |
| Chromium, Hexavalent | ND | | 0.55 | mg/Kg-dry | 1 | 8/13/2012 03:30 PM |
| **MOISTURE** | | | **A2540 G** | | | Analyst: **NZ** |
| **Moisture** | **9.8** | | **0.050** | **% of sample** | 1 | 8/13/2012 02:25 PM |
| **PH** | | | **SW9045D** | | | Analyst: **KV** |
| **pH** | **8.52** | | | **s.u.** | 1 | 8/12/2012 12:05 PM |

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

# QC BATCH REPORT

Batch ID: **42957** Instrument ID **GC8** Method: **SW8015M**

**MBLK** Sample ID: **DBLKS1-42957-42957** Units: **mg/Kg** Analysis Date: **8/15/2012 09:01 AM**

Client ID: Run ID: **GC8_120815A** SeqNo: **2053304** Prep Date: **8/14/2012** 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 | | | | | | | | |
| *Surr: 4-Terphenyl-d14* | *1.074* | 0 | *1.667* | 0 | *64.4* | *39-115* | 0 | | | |

**LCS** Sample ID: **DLCSS1-42957-42957** Units: **mg/Kg** Analysis Date: **8/15/2012 01:24 PM**

Client ID: Run ID: **GC8_120815A** SeqNo: **2053309** Prep Date: **8/14/2012** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | 143.7 | 4.2 | 166.7 | 0 | 86.2 | 60-130 | 0 | | | |
| *Surr: 4-Terphenyl-d14* | *1.179* | 0 | *1.667* | 0 | *70.7* | *39-115* | 0 | | | |

**MS** Sample ID: **1208287-09B MS** Units: **mg/Kg** Analysis Date: **8/15/2012 03:10 PM**

Client ID: Run ID: **GC8_120815A** SeqNo: **2053313** Prep Date: **8/14/2012** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | 3615 | 7.9 | 317.4 | 2993 | 196 | 60-130 | 0 | | | SEO |
| *Surr: 4-Terphenyl-d14* | *2.367* | 0 | *3.174* | 0 | *74.6* | *39-115* | 0 | | | |

**MSD** Sample ID: **1208287-09B MSD** Units: **mg/Kg** Analysis Date: **8/15/2012 03:36 PM**

Client ID: Run ID: **GC8_120815A** SeqNo: **2053314** Prep Date: **8/14/2012** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| DRO (C10-C28) | 4255 | 8.3 | 332.2 | 2993 | 380 | 60-130 | 3615 | 16.3 | 30 | SEO |
| *Surr: 4-Terphenyl-d14* | *2.501* | 0 | *3.322* | 0 | *75.3* | *39-115* | 2.367 | *5.5* | *30* | |

**The following samples were analyzed in this batch:** 1208323-01B

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

**Client:** HRL Compliance Solutions
**Work Order:** 1208323
**Project:** RL Bayless Philadelphia Creek #33 8/7/12

# QC BATCH REPORT

Batch ID: **R108480** Instrument ID **GC10** Method: **SW8015**

**MBLK** Sample ID: **GBLKW1-120813-R108480** Units: **µg/L** Analysis Date: **8/13/2012 07:41 PM**
Client ID: Run ID: **GC10_120813A** SeqNo: **2051055** 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 | | | | | | | | |
| *Surr: Toluene-d8* | *102.5* | 0 | *100* | 0 | *103* | *70-130* | 0 | | | |

**LCS** Sample ID: **GLCSW1-120813-R108480** Units: **µg/L** Analysis Date: **8/13/2012 03:18 PM**
Client ID: Run ID: **GC10_120813A** SeqNo: **2051054** 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) | 9698 | 200 | 10000 | 0 | 97 | 70-130 | 0 | | | |
| *Surr: Toluene-d8* | *99.73* | 0 | *100* | 0 | *99.7* | *70-130* | 0 | | | |

**MS** Sample ID: **1208234-02A MS** Units: **µg/Kg** Analysis Date: **8/13/2012 11:43 PM**
Client ID: Run ID: **GC10_120813A** SeqNo: **2051073** 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) | 427000 | 2,500 | 500000 | 0 | 85.4 | 70-130 | 0 | | | |
| *Surr: Toluene-d8* | *4693* | 0 | *5000* | 0 | *93.9* | *50-150* | 0 | | | |

**MSD** Sample ID: **1208234-02A MSD** Units: **µg/Kg** Analysis Date: **8/14/2012 12:07 PM**
Client ID: Run ID: **GC10_120813A** SeqNo: **2051074** 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) | 431600 | 2,500 | 500000 | 0 | 86.3 | 70-130 | 427000 | 1.08 | 30 | |
| *Surr: Toluene-d8* | *4904* | 0 | *5000* | 0 | *98.1* | *50-150* | 4693 | *4.41* | *30* | |

**The following samples were analyzed in this batch:** 1208323-01A

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

**Client:** HRL Compliance Solutions
**Work Order:** 1208323
**Project:** RL Bayless Philadelphia Creek #33 8/7/12

# QC BATCH REPORT

Batch ID: **42965** Instrument ID **HG1** Method: **SW7471**

**MBLK** Sample ID: **MBLK-42965-42965** Units: **mg/Kg** Analysis Date: **8/14/2012 03:19 PM**
Client ID: Run ID: **HG1_120814A** SeqNo: **2052107** Prep Date: **8/14/2012** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | 0.020 | | | | | | | | |

**LCS** Sample ID: **LCS-42965-42965** Units: **mg/Kg** Analysis Date: **8/14/2012 03:21 PM**
Client ID: Run ID: **HG1_120814A** SeqNo: **2052108** Prep Date: **8/14/2012** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.1841 | 0.020 | 0.1665 | 0 | 111 | 80-120 | 0 | | | |

**MS** Sample ID: **1208320-01BMS** Units: **mg/Kg** Analysis Date: **8/14/2012 03:28 PM**
Client ID: Run ID: **HG1_120814A** SeqNo: **2052111** Prep Date: **8/14/2012** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.1813 | 0.019 | 0.1542 | 0.02198 | 103 | 75-125 | 0 | | | |

**MSD** Sample ID: **1208320-01BMSD** Units: **mg/Kg** Analysis Date: **8/14/2012 03:30 PM**
Client ID: Run ID: **HG1_120814A** SeqNo: **2052114** Prep Date: **8/14/2012** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.184 | 0.018 | 0.1532 | 0.02198 | 106 | 75-125 | 0.1813 | 1.49 | 35 | |

**The following samples were analyzed in this batch:** 1208323-01B

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

**Client:** HRL Compliance Solutions
**Work Order:** 1208323
**Project:** RL Bayless Philadelphia Creek #33 8/7/12

# QC BATCH REPORT

Batch ID: **43015** Instrument ID **ICPMS1** Method: **SW6020A**

**MBLK** Sample ID: **MBLK-43015-43015** Units: **mg/Kg** Analysis Date: **8/17/2012 09:17 PM**
Client ID: Run ID: **ICPMS1_120817A** SeqNo: **2055900** Prep Date: **8/16/2012** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | 0.25 | | | | | | | | |
| Barium | 0.03324 | 0.25 | | | | | | | | J |
| Cadmium | 0.016 | 0.10 | | | | | | | | J |
| Chromium | 0.03221 | 0.25 | | | | | | | | J |
| Copper | ND | 0.25 | | | | | | | | |
| Lead | ND | 0.25 | | | | | | | | |
| Nickel | ND | 0.25 | | | | | | | | |
| Selenium | ND | 0.25 | | | | | | | | |
| Zinc | ND | 0.50 | | | | | | | | |

**MBLK** Sample ID: **MBLK-43015-43015** Units: **mg/Kg** Analysis Date: **8/18/2012 03:28 PM**
Client ID: Run ID: **ICPMS1_120818A** SeqNo: **2056177** Prep Date: **8/16/2012** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.003241 | 0.25 | | | | | | | | J |

**LCS** Sample ID: **LCS-43015-43015** Units: **mg/Kg** Analysis Date: **8/17/2012 09:24 PM**
Client ID: Run ID: **ICPMS1_120817A** SeqNo: **2055901** Prep Date: **8/16/2012** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 4.148 | 0.25 | 5 | 0 | 83 | 80-120 | 0 | | | |
| Barium | 4.746 | 0.25 | 5 | 0 | 94.9 | 80-120 | 0 | | | |
| Cadmium | 4.619 | 0.10 | 5 | 0 | 92.4 | 80-120 | 0 | | | |
| Chromium | 4.812 | 0.25 | 5 | 0 | 96.2 | 80-120 | 0 | | | |
| Copper | 4.547 | 0.25 | 5 | 0 | 90.9 | 80-120 | 0 | | | |
| Lead | 4.925 | 0.25 | 5 | 0 | 98.5 | 80-120 | 0 | | | |
| Nickel | 4.632 | 0.25 | 5 | 0 | 92.6 | 80-120 | 0 | | | |
| Silver | 4.612 | 0.25 | 5 | 0 | 92.2 | 80-120 | 0 | | | |
| Zinc | 4.156 | 0.50 | 5 | 0 | 83.1 | 80-120 | 0 | | | |

**LCS** Sample ID: **LCS-43015-43015** Units: **mg/Kg** Analysis Date: **8/18/2012 03:35 PM**
Client ID: Run ID: **ICPMS1_120818A** SeqNo: **2056178** Prep Date: **8/16/2012** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Selenium | 4.012 | 0.25 | 5 | 0 | 80.2 | 80-120 | 0 | | | |

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

**Client:** HRL Compliance Solutions
**Work Order:** 1208323
**Project:** RL Bayless Philadelphia Creek #33 8/7/12

# QC BATCH REPORT

Batch ID: **43015** Instrument ID **ICPMS1** Method: **SW6020A**

**MS** Sample ID: **1208322-01BMS** Units: **mg/Kg** Analysis Date: **8/17/2012 09:54 PM**
Client ID: Run ID: **ICPMS1_120817A** SeqNo: **2055906** Prep Date: **8/16/2012** DF: **2**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 9.368 | 0.67 | 6.748 | 4.443 | 73 | 75-125 | 0 | | | S |
| Barium | 136.7 | 0.67 | 6.748 | 135.5 | 17.3 | 75-125 | 0 | | | SO |
| Cadmium | 5.618 | 0.27 | 6.748 | 0.3181 | 78.5 | 75-125 | 0 | | | |
| Chromium | 14.98 | 0.67 | 6.748 | 8.805 | 91.5 | 75-125 | 0 | | | |
| Copper | 20.54 | 0.67 | 6.748 | 14.49 | 89.7 | 75-125 | 0 | | | |
| Lead | 16.98 | 0.67 | 6.748 | 12.16 | 71.4 | 75-125 | 0 | | | S |
| Nickel | 16.57 | 0.67 | 6.748 | 11.98 | 68 | 75-125 | 0 | | | S |
| Selenium | 5.667 | 0.67 | 6.748 | 0.9364 | 70.1 | 75-125 | 0 | | | S |
| Silver | 4.934 | 0.67 | 6.748 | 0.09345 | 71.7 | 75-125 | 0 | | | S |
| Zinc | 45.14 | 1.3 | 6.748 | 42.93 | 32.7 | 75-125 | 0 | | | SO |

**MSD** Sample ID: **1208322-01BMSD** Units: **mg/Kg** Analysis Date: **8/17/2012 10:00 PM**
Client ID: Run ID: **ICPMS1_120817A** SeqNo: **2055907** Prep Date: **8/16/2012** DF: **2**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 9.089 | 0.66 | 6.623 | 4.443 | 70.1 | 75-125 | 9.368 | 3.03 | 25 | S |
| Barium | 135.4 | 0.66 | 6.623 | 135.5 | -2.66 | 75-125 | 136.7 | 0.987 | 25 | SO |
| Cadmium | 5.509 | 0.26 | 6.623 | 0.3181 | 78.4 | 75-125 | 5.618 | 1.97 | 25 | |
| Chromium | 13.76 | 0.66 | 6.623 | 8.805 | 74.8 | 75-125 | 14.98 | 8.48 | 25 | S |
| Copper | 20.28 | 0.66 | 6.623 | 14.49 | 87.5 | 75-125 | 20.54 | 1.28 | 25 | |
| Lead | 16.78 | 0.66 | 6.623 | 12.16 | 69.8 | 75-125 | 16.98 | 1.16 | 25 | S |
| Nickel | 15.72 | 0.66 | 6.623 | 11.98 | 56.5 | 75-125 | 16.57 | 5.27 | 25 | S |
| Selenium | 5.45 | 0.66 | 6.623 | 0.9364 | 68.2 | 75-125 | 5.667 | 3.89 | 25 | S |
| Silver | 4.735 | 0.66 | 6.623 | 0.09345 | 70.1 | 75-125 | 4.934 | 4.11 | 25 | S |
| Zinc | 42.44 | 1.3 | 6.623 | 42.93 | -7.48 | 75-125 | 45.14 | 6.18 | 25 | SO |

**The following samples were analyzed in this batch:** 1208323-01B

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

**Client:** HRL Compliance Solutions
**Work Order:** 1208323
**Project:** RL Bayless Philadelphia Creek #33 8/7/12

# QC BATCH REPORT

Batch ID: **42956** Instrument ID **SVMS6** Method: **SW8270**

**MBLK** Sample ID: **SBLKS1-42956-42956** Units: **µg/Kg** Analysis Date: **8/14/2012 05:08 PM**
Client ID: Run ID: **SVMS6_120814A** SeqNo: **2052839** Prep Date: **8/14/2012** 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 | | | | | | | | |
| *Surr: 2-Fluorobiphenyl* | *1297* | 0 | *1667* | 0 | *77.8* | *12-100* | 0 | | | |
| *Surr: 4-Terphenyl-d14* | *2037* | 0 | *1667* | 0 | *122* | *25-137* | 0 | | | |
| *Surr: Nitrobenzene-d5* | *1080* | 0 | *1667* | 0 | *64.8* | *37-107* | 0 | | | |

**LCS** Sample ID: **SLCSS1-42956-42956** Units: **µg/Kg** Analysis Date: **8/15/2012 11:13 AM**
Client ID: Run ID: **SVMS6_120815A** SeqNo: **2052917** Prep Date: **8/14/2012** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 585.3 | 30 | 666.7 | 0 | 87.8 | 45-110 | 0 | | | |
| Anthracene | 611 | 30 | 666.7 | 0 | 91.6 | 55-105 | 0 | | | |
| Benzo(a)anthracene | 529.3 | 30 | 666.7 | 0 | 79.4 | 50-110 | 0 | | | |
| Benzo(a)pyrene | 617 | 30 | 666.7 | 0 | 92.5 | 50-110 | 0 | | | |
| Benzo(b)fluoranthene | 599 | 30 | 666.7 | 0 | 89.8 | 45-115 | 0 | | | |
| Benzo(g,h,i)perylene | 527.3 | 30 | 666.7 | 0 | 79.1 | 40-125 | 0 | | | |
| Benzo(k)fluoranthene | 749 | 30 | 666.7 | 0 | 112 | 45-115 | 0 | | | |
| Chrysene | 658.7 | 30 | 666.7 | 0 | 98.8 | 55-110 | 0 | | | |
| Dibenzo(a,h)anthracene | 584.7 | 30 | 666.7 | 0 | 87.7 | 40-125 | 0 | | | |
| Fluoranthene | 638 | 30 | 666.7 | 0 | 95.7 | 55-115 | 0 | | | |
| Fluorene | 646 | 30 | 666.7 | 0 | 96.9 | 50-110 | 0 | | | |
| Indeno(1,2,3-cd)pyrene | 571 | 30 | 666.7 | 0 | 85.6 | 40-120 | 0 | | | |
| Naphthalene | 566.3 | 30 | 666.7 | 0 | 84.9 | 40-105 | 0 | | | |
| Pyrene | 579 | 30 | 666.7 | 0 | 86.8 | 45-125 | 0 | | | |
| *Surr: 2-Fluorobiphenyl* | *1168* | 0 | *1667* | 0 | *70.1* | *12-100* | 0 | | | |
| *Surr: 4-Terphenyl-d14* | *1482* | 0 | *1667* | 0 | *88.9* | *25-137* | 0 | | | |
| *Surr: Nitrobenzene-d5* | *1045* | 0 | *1667* | 0 | *62.7* | *37-107* | 0 | | | |

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

**Client:** HRL Compliance Solutions
**Work Order:** 1208323
**Project:** RL Bayless Philadelphia Creek #33 8/7/12

# QC BATCH REPORT

Batch ID: **42956** Instrument ID **SVMS6** Method: **SW8270**

**MS** Sample ID: **1208287-09B MS** Units: **µg/Kg** Analysis Date: **8/15/2012 01:53 PM**
Client ID: Run ID: **SVMS6_120815A** SeqNo: **2052922** Prep Date: **8/14/2012** DF: **50**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 2117 | 2,900 | 1303 | 0 | 162 | 45-110 | 0 | | | JS |
| Anthracene | 1628 | 2,900 | 1303 | 0 | 125 | 55-105 | 0 | | | JS |
| Benzo(a)anthracene | ND | 2,900 | 1303 | 0 | 0 | 50-110 | 0 | | | S |
| Benzo(a)pyrene | 1563 | 2,900 | 1303 | 0 | 120 | 50-110 | 0 | | | JS |
| Benzo(b)fluoranthene | ND | 2,900 | 1303 | 0 | 0 | 45-115 | 0 | | | S |
| Benzo(g,h,i)perylene | ND | 2,900 | 1303 | 0 | 0 | 40-125 | 0 | | | S |
| Benzo(k)fluoranthene | 1856 | 2,900 | 1303 | 0 | 142 | 45-115 | 0 | | | JS |
| Chrysene | 1759 | 2,900 | 1303 | 0 | 135 | 55-110 | 0 | | | JS |
| Dibenzo(a,h)anthracene | ND | 2,900 | 1303 | 0 | 0 | 40-125 | 0 | | | S |
| Fluoranthene | ND | 2,900 | 1303 | 0 | 0 | 55-115 | 0 | | | S |
| Fluorene | 2638 | 2,900 | 1303 | 1410 | 94.3 | 50-110 | 0 | | | J |
| Indeno(1,2,3-cd)pyrene | ND | 2,900 | 1303 | 0 | 0 | 40-120 | 0 | | | S |
| Naphthalene | 2150 | 2,900 | 1303 | 0 | 165 | 40-105 | 0 | | | JS |
| Pyrene | 1596 | 2,900 | 1303 | 0 | 122 | 45-125 | 0 | | | J |
| *Surr: 2-Fluorobiphenyl* | *2182* | 0 | *3257* | 0 | *67* | *12-100* | 0 | | | |
| *Surr: 4-Terphenyl-d14* | *2834* | 0 | *3257* | 0 | *87* | *25-137* | 0 | | | |
| *Surr: Nitrobenzene-d5* | *2834* | 0 | *3257* | 0 | *87* | *37-107* | 0 | | | |

**MSD** Sample ID: **1208287-09B MSD** Units: **µg/Kg** Analysis Date: **8/15/2012 02:19 PM**
Client ID: Run ID: **SVMS6_120815A** SeqNo: **2052923** Prep Date: **8/14/2012** DF: **50**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 2074 | 2,900 | 1297 | 0 | 160 | 45-110 | 2117 | 0 | 30 | JS |
| Anthracene | 1653 | 2,900 | 1297 | 0 | 127 | 55-105 | 1628 | 0 | 30 | JS |
| Benzo(a)anthracene | ND | 2,900 | 1297 | 0 | 0 | 50-110 | 0 | 0 | 30 | S |
| Benzo(a)pyrene | ND | 2,900 | 1297 | 0 | 0 | 50-110 | 1563 | 0 | 30 | S |
| Benzo(b)fluoranthene | ND | 2,900 | 1297 | 0 | 0 | 45-115 | 0 | 0 | 30 | S |
| Benzo(g,h,i)perylene | ND | 2,900 | 1297 | 0 | 0 | 40-125 | 0 | 0 | 30 | S |
| Benzo(k)fluoranthene | 1848 | 2,900 | 1297 | 0 | 142 | 45-115 | 1856 | 0 | 30 | JS |
| Chrysene | ND | 2,900 | 1297 | 0 | 0 | 55-110 | 1759 | 0 | 30 | S |
| Dibenzo(a,h)anthracene | ND | 2,900 | 1297 | 0 | 0 | 40-125 | 0 | 0 | 30 | S |
| Fluoranthene | ND | 2,900 | 1297 | 0 | 0 | 55-115 | 0 | 0 | 30 | S |
| Fluorene | 2658 | 2,900 | 1297 | 1410 | 96.2 | 50-110 | 2638 | 0 | 30 | J |
| Indeno(1,2,3-cd)pyrene | ND | 2,900 | 1297 | 0 | 0 | 40-120 | 0 | 0 | 30 | S |
| Naphthalene | 1621 | 2,900 | 1297 | 0 | 125 | 40-105 | 2150 | 0 | 30 | JS |
| Pyrene | 1588 | 2,900 | 1297 | 0 | 122 | 45-125 | 1596 | 0 | 30 | J |
| *Surr: 2-Fluorobiphenyl* | *2301* | 0 | *3241* | 0 | *71* | *12-100* | 2182 | *5.32* | *40* | |
| *Surr: 4-Terphenyl-d14* | *2885* | 0 | *3241* | 0 | *89* | *25-137* | 2834 | *1.79* | *40* | |
| *Surr: Nitrobenzene-d5* | *2463* | 0 | *3241* | 0 | *76* | *37-107* | 2834 | *14* | *40* | |

**The following samples were analyzed in this batch:** 1208323-01B

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

**Client:** HRL Compliance Solutions
**Work Order:** 1208323
**Project:** RL Bayless Philadelphia Creek #33 8/7/12

# QC BATCH REPORT

Batch ID: **42926** Instrument ID **VMS9** Method: **SW8260**

**MBLK** Sample ID: **MBLK-42926-42926** Units: **µg/Kg** Analysis Date: **8/10/2012 06:29 PM**
Client ID: Run ID: **VMS9_120810A** SeqNo: **2050027** Prep Date: **8/10/2012** 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* | *971* | 0 | *1000* | 0 | *97.1* | *70-130* | 0 | | | |
| *Surr: 4-Bromofluorobenzene* | *947.5* | 0 | *1000* | 0 | *94.8* | *70-130* | 0 | | | |
| *Surr: Dibromofluoromethane* | *920.5* | 0 | *1000* | 0 | *92* | *70-130* | 0 | | | |
| *Surr: Toluene-d8* | *1018* | 0 | *1000* | 0 | *102* | *70-130* | 0 | | | |

**MBLK** Sample ID: **MBLK-42926-42926** Units: **µg/Kg** Analysis Date: **8/11/2012 12:35 PM**
Client ID: Run ID: **VMS8_120810B** SeqNo: **2050329** Prep Date: **8/10/2012** 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* | *988* | 0 | *1000* | 0 | *98.8* | *70-130* | 0 | | | |
| *Surr: 4-Bromofluorobenzene* | *990.5* | 0 | *1000* | 0 | *99* | *70-130* | 0 | | | |
| *Surr: Dibromofluoromethane* | *974* | 0 | *1000* | 0 | *97.4* | *70-130* | 0 | | | |
| *Surr: Toluene-d8* | *994* | 0 | *1000* | 0 | *99.4* | *70-130* | 0 | | | |

**LCS** Sample ID: **LCS-42926-42926** Units: **µg/Kg** Analysis Date: **8/10/2012 05:12 PM**
Client ID: Run ID: **VMS9_120810A** SeqNo: **2050026** Prep Date: **8/10/2012** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 916.5 | 30 | 1000 | 0 | 91.6 | 75-125 | 0 | | | |
| Ethylbenzene | 979.5 | 30 | 1000 | 0 | 98 | 75-125 | 0 | | | |
| m,p-Xylene | 2015 | 60 | 2000 | 0 | 101 | 80-125 | 0 | | | |
| o-Xylene | 982 | 30 | 1000 | 0 | 98.2 | 75-125 | 0 | | | |
| Toluene | 1000 | 30 | 1000 | 0 | 100 | 70-125 | 0 | | | |
| Xylenes, Total | 2997 | 90 | 3000 | 0 | 99.9 | 75-125 | 0 | | | |
| *Surr: 1,2-Dichloroethane-d4* | *962.5* | 0 | *1000* | 0 | *96.2* | *70-130* | 0 | | | |
| *Surr: 4-Bromofluorobenzene* | *1084* | 0 | *1000* | 0 | *108* | *70-130* | 0 | | | |
| *Surr: Dibromofluoromethane* | *981.5* | 0 | *1000* | 0 | *98.2* | *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:** 1208323
**Project:** RL Bayless Philadelphia Creek #33 8/7/12

# QC BATCH REPORT

Batch ID: **42926** Instrument ID **VMS9** Method: **SW8260**

**LCS** Sample ID: **LCS-42926-42926** Units: **µg/Kg** Analysis Date: **8/10/2012 11:16 PM**
Client ID: Run ID: **VMS8_120810B** SeqNo: **2050328** Prep Date: **8/10/2012** 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 | 1110 | 30 | 1000 | 0 | 111 | 75-125 | 0 | | | |
| m,p-Xylene | 2254 | 60 | 2000 | 0 | 113 | 80-125 | 0 | | | |
| o-Xylene | 1099 | 30 | 1000 | 0 | 110 | 75-125 | 0 | | | |
| Toluene | 1088 | 30 | 1000 | 0 | 109 | 70-125 | 0 | | | |
| Xylenes, Total | 3352 | 90 | 3000 | 0 | 112 | 75-125 | 0 | | | |
| *Surr: 1,2-Dichloroethane-d4* | *967* | 0 | *1000* | 0 | *96.7* | *70-130* | 0 | | | |
| *Surr: 4-Bromofluorobenzene* | *1010* | 0 | *1000* | 0 | *101* | *70-130* | 0 | | | |
| *Surr: Dibromofluoromethane* | *967* | 0 | *1000* | 0 | *96.7* | *70-130* | 0 | | | |
| *Surr: Toluene-d8* | *991* | 0 | *1000* | 0 | *99.1* | *70-130* | 0 | | | |

**MS** Sample ID: **1208323-01A MS** Units: **µg/Kg** Analysis Date: **8/11/2012 08:56 AM**
Client ID: **Pit Bottom** Run ID: **VMS8_120810B** SeqNo: **2050326** Prep Date: **8/10/2012** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 1032 | 30 | 1000 | 0 | 103 | 75-125 | 0 | | | |
| Ethylbenzene | 1092 | 30 | 1000 | 0 | 109 | 75-125 | 0 | | | |
| m,p-Xylene | 2210 | 60 | 2000 | 0 | 110 | 80-125 | 0 | | | |
| o-Xylene | 1087 | 30 | 1000 | 0 | 109 | 75-125 | 0 | | | |
| Toluene | 1068 | 30 | 1000 | 0 | 107 | 70-125 | 0 | | | |
| Xylenes, Total | 3296 | 90 | 3000 | 0 | 110 | 75-125 | 0 | | | |
| *Surr: 1,2-Dichloroethane-d4* | *1012* | 0 | *1000* | 0 | *101* | *70-130* | 0 | | | |
| *Surr: 4-Bromofluorobenzene* | *972.5* | 0 | *1000* | 0 | *97.2* | *70-130* | 0 | | | |
| *Surr: Dibromofluoromethane* | *967.5* | 0 | *1000* | 0 | *96.8* | *70-130* | 0 | | | |
| *Surr: Toluene-d8* | *966* | 0 | *1000* | 0 | *96.6* | *70-130* | 0 | | | |

**MSD** Sample ID: **1208323-01A MSD** Units: **µg/Kg** Analysis Date: **8/11/2012 09:23 AM**
Client ID: **Pit Bottom** Run ID: **VMS8_120810B** SeqNo: **2050327** Prep Date: **8/10/2012** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 1024 | 30 | 1000 | 0 | 102 | 75-125 | 1032 | 0.827 | 30 | |
| Ethylbenzene | 1100 | 30 | 1000 | 0 | 110 | 75-125 | 1092 | 0.639 | 30 | |
| m,p-Xylene | 2249 | 60 | 2000 | 0 | 112 | 80-125 | 2210 | 1.77 | 30 | |
| o-Xylene | 1090 | 30 | 1000 | 0 | 109 | 75-125 | 1087 | 0.23 | 30 | |
| Toluene | 1079 | 30 | 1000 | 0 | 108 | 70-125 | 1068 | 1.02 | 30 | |
| Xylenes, Total | 3338 | 90 | 3000 | 0 | 111 | 75-125 | 3296 | 1.27 | 30 | |
| *Surr: 1,2-Dichloroethane-d4* | *987* | 0 | *1000* | 0 | *98.7* | *70-130* | 1012 | *2.5* | *30* | |
| *Surr: 4-Bromofluorobenzene* | *1004* | 0 | *1000* | 0 | *100* | *70-130* | 972.5 | *3.14* | *30* | |
| *Surr: Dibromofluoromethane* | *993* | 0 | *1000* | 0 | *99.3* | *70-130* | 967.5 | *2.6* | *30* | |
| *Surr: Toluene-d8* | *977* | 0 | *1000* | 0 | *97.7* | *70-130* | 966 | *1.13* | *30* | |

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

**Client:** HRL Compliance Solutions
**Work Order:** 1208323
**Project:** RL Bayless Philadelphia Creek #33 8/7/12

# QC BATCH REPORT

Batch ID: **42926** Instrument ID **VMS9** Method: **SW8260**

**The following samples were analyzed in this batch:** 1208323-01A

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

**Client:** HRL Compliance Solutions
**Work Order:** 1208323
**Project:** RL Bayless Philadelphia Creek #33 8/7/12

# QC BATCH REPORT

Batch ID: **42953** Instrument ID **WETCHEM** Method: **SW7196A**

**MBLK** Sample ID: **MBLK-42953-42953** Units: **mg/Kg** Analysis Date: **8/13/2012 03:30 PM**
Client ID: Run ID: **WETCHEM_120813H** SeqNo: **2050717** Prep Date: **8/10/2012** 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-42953-42953** Units: **mg/Kg** Analysis Date: **8/13/2012 03:30 PM**
Client ID: Run ID: **WETCHEM_120813H** SeqNo: **2050718** Prep Date: **8/10/2012** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Chromium, Hexavalent | 2.016 | 0.50 | 1.992 | 0 | 101 | 75-110 | 0 | | | |

**MS** Sample ID: **1208278-02B MS** Units: **mg/Kg** Analysis Date: **8/13/2012 03:30 PM**
Client ID: Run ID: **WETCHEM_120813H** SeqNo: **2050724** Prep Date: **8/10/2012** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Chromium, Hexavalent | 1.535 | 0.49 | 1.969 | 0.1686 | 69.4 | 60-130 | 0 | | | |

**MSD** Sample ID: **1208278-02B MSD** Units: **mg/Kg** Analysis Date: **8/13/2012 03:30 PM**
Client ID: Run ID: **WETCHEM_120813H** SeqNo: **2050725** Prep Date: **8/10/2012** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Chromium, Hexavalent | 1.647 | 0.50 | 1.984 | 0.1686 | 74.5 | 60-130 | 1.535 | 7 | 30 | |

**The following samples were analyzed in this batch:** 1208323-01B

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

**Client:** HRL Compliance Solutions
**Work Order:** 1208323
**Project:** RL Bayless Philadelphia Creek #33 8/7/12

# QC BATCH REPORT

Batch ID: **R108414** Instrument ID **WETCHEM** Method: **SW9045D**

**LCS** Sample ID: **LCS-R108414-R108414** Units: **s.u.** Analysis Date: **8/12/2012 12:05 PM**
Client ID: Run ID: **WETCHEM_120812B** SeqNo: **2049905** Prep Date: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| pH | 4.38 | 0 | 4.4 | 0 | 99.5 | 90-110 | 0 | | | |

**DUP** Sample ID: **1208228-01A DUP** Units: **s.u.** Analysis Date: **8/12/2012 12:05 PM**
Client ID: Run ID: **WETCHEM_120812B** SeqNo: **2049907** Prep Date: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| pH | 7.61 | 0 | 0 | 0 | 0 | 0-0 | 7.61 | 0 | 20 | |

**The following samples were analyzed in this batch:** 1208323-01B

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

**Client:** HRL Compliance Solutions
**Work Order:** 1208323
**Project:** RL Bayless Philadelphia Creek #33 8/7/12

# QC BATCH REPORT

Batch ID: **R108491** Instrument ID **MOIST** Method: **A2540 G**

**MBLK** Sample ID: **WBLKS1-R108491** Units: **% of sample** Analysis Date: **8/13/2012 02:25 PM**
Client ID: Run ID: **MOIST_120813C** SeqNo: **2051494** 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-R108491** Units: **% of sample** Analysis Date: **8/13/2012 02:25 PM**
Client ID: Run ID: **MOIST_120813C** SeqNo: **2051490** 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: **1208318-05A DUP** Units: **% of sample** Analysis Date: **8/13/2012 02:25 PM**
Client ID: Run ID: **MOIST_120813C** SeqNo: **2051472** Prep Date: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Moisture | 17.74 | 0.050 | 0 | 0 | 0 | 0-0 | 20.22 | 13.1 | 20 | |

**DUP** Sample ID: **1208336-01B DUP** Units: **% of sample** Analysis Date: **8/13/2012 02:25 PM**
Client ID: Run ID: **MOIST_120813C** SeqNo: **2051476** Prep Date: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Moisture | 34.25 | 0.050 | 0 | 0 | 0 | 0-0 | 33.73 | 1.53 | 20 | |

**The following samples were analyzed in this batch:** 1208323-01B

**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 # 1208323

PAGE 1 of 1

DISPOSAL By Lab or Return to Client

| | | | |
|---|---|---|---|
| SAMPLER | Kris Rowe | DATE | 8/9/12 |
| SITE ID | | TURNAROUND | STD |
| EDD FORMAT | | | |
| PURCHASE ORDER | | | |
| PROJECT NAME | RL Bayless Philadelphia Creek #33 | BILL TO COMPANY | |
| PROJECT No. | | INVOICE ATTN TO | |
| COMPANY NAME | HRL Compiance Solutions | ADDRESS | |
| SEND REPORT TO | Kris Rowe | CITY / STATE / ZIP | |
| ADDRESS | 2385 F1/2 Rd. | PHONE | |
| CITY / STATE / ZIP | Grand Junction, CO 81505 | FAX | |
| PHONE | 9702433271 | E-MAIL | |
| FAX | 9702433280 | | |
| E-MAIL | krowe@hrlcomp.com | | |

| Lab ID | Field ID | Matrix | Sample Date | Sample Time | # Bottles | Pres. | QC | GRO | DRO | PAH | Total Metals (9.10-1) | SAR/EC/PH | BTEX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Pit Bottom | S | 8/7/12 | 1200 | 3 | 5 | | X | X | X | X | X | X |

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

**For metals or anions, please detail analytes below.**

Comments:

| QC PACKAGE (check below) | |
|---|---|
| | 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 |
|---|---|---|---|---|
| RELINQUISHED BY | | Kris Rowe | 8/9/12 | 1240 |
| RECEIVED BY | | [illegible] | 8/9/12 | 1240 |
| RELINQUISHED BY | | Paradise, CO | 8/9/12 | 1300 |
| RECEIVED BY | FedEx | | | |
| RELINQUISHED BY | FED EX | | | |
| RECEIVED BY | | Diane F Shea | 8/10/12 | 1000 |

2-8°

ALS Group USA, Corp

## Sample Receipt Checklist

Client Name: **HRL** Date/Time Received: **10-Aug-12 10:00**

Work Order: **1208323** Received by: **DS**

Checklist completed by Diane Shaw (eSignature) 10-Aug-12 (Date) Reviewed by: Ann Preston (eSignature) 13-Aug-12 (Date)

Matrices: Soil
Carrier name: FedEx

| | | | |
|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on shipping container/cooler? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on sample bottles? | Yes ☐ | No ☐ | Not Present ☑ |
| Chain of custody present? | Yes ☑ | No ☐ | |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | |
| Sample containers intact? | Yes ☑ | No ☐ | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | |
| All samples received within holding time? | Yes ☑ | No ☐ | |
| Container/Temp Blank temperature in compliance? | Yes ☑ | No ☐ | |
| Temperature(s)/Thermometer(s): | 2.8 c | | |
| Cooler(s)/Kit(s): | | | |
| Date/Time sample(s) sent to storage: | 8/10/2012 1:36:48 PM | | |
| Water - VOA vials have zero headspace? | Yes ☐ | No ☐ | No VOA vials submitted ☑ |
| Water - pH acceptable upon receipt? | Yes ☐ | No ☐ | N/A ☑ |
| pH adjusted? | Yes ☐ | No ☐ | N/A ☑ |
| pH adjusted by: | - | | |

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

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

562 Huntington Point Lane

Clifton, CO 81520

Origin ID: GJTA

FedEx Express

J122012071603 25

Ship Date: 09AUG12
Act/Wgt: 47.0 LB
CAD: 103923490/INET3300

Dims: 25 X 14 X 15 IN

Delivery Address Bar Code

Ref # 1001-080912-1
Invoice #
PO #
Dept #

SHIP TO: (616) 399-6070

BILL RECIPIENT

**Sample Receiving**
**ALS Environmental - Holland**
**3352 128TH AVE**

**HOLLAND, MI 49424**

FRI - 10 AUG A4
STANDARD OVERNIGHT

TRK# 0201 7987 1907 1112

**XX GRRA**

49424
MI-US
GRR

515G2/0C34/AA44

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Lab Hub LLC

**CUSTODY SEAL**

***Date:*** 08/09/12

***Signature:***