

State of Colorado
Oil and Gas Conservation Commission

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



FOR OGCC USE ONLY

RECEIVED

JUL 30 2011

OGCC/Rifle Office
Spill report taken by:

FACILITY ID:

SPILL/RELEASE REPORT

This form is to be submitted by the party responsible for the oil and gas spill or release. Any spill or release which may impact waters of the State must be reported as soon as practicable; any spill over 20 bbls must be reported within 24 hours and all spills over five bbls must be reported within ten days. Submit a Site Investigation and Remediation Workplan (Form 27) when requested by the Director.

OPERATOR INFORMATION

Name of Operator: <u>Black Hills Plateau Production</u>	OGCC Operator No: <u>10150</u>	Phone Numbers
Address: <u>1515 Wynkoop St., Suite 500</u>		No: <u>(720) 210-1333</u>
City: <u>Denver</u>	State: <u>CO</u> Zip: <u>80202</u>	Fax: <u>(303)566-3344</u>
Contact Person: <u>Jessica Donahue</u>		E-Mail: <u>jessica.donahue@blackhillscorp.com</u>

DESCRIPTION OF SPILL OR RELEASE

Date of Incident: _____	Facility Name & No.: _____	County: <u>Mesa</u>
Type of Facility (well, tank battery, flow line, pit): <u>well</u>		QtrQtr: <u>SENW</u> Section: <u>12</u>
Well Name and Number: <u>Wagon Track Federal 12-6</u>		Township: <u>9S</u> Range: <u>98W</u>
API Number: <u>05-077-08724</u>		Meridian: <u>6</u>
Specify volume spilled and recovered (in bbls) for the following materials:		
Oil spilled: _____	Oil recov'd: _____	Water spilled: _____
	Water recov'd: <u><1 bbl</u>	Other spilled: _____
	Other recov'd: _____	
Ground Water impacted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Surface Water impacted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Contained within berm? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Area and vertical extent of spill: _____ x _____	
Current land use: <u>rangeland</u>	Weather conditions: _____	
Soil/geology description: _____		
IF LESS THAN A MILE, report distance IN FEET to nearest... Surface water: _____ wetlands: _____ buildings: _____		
Livestock: _____ water wells: _____ Depth to shallowest ground water: _____		
Cause of spill (e.g., equipment failure, human error, etc.): _____ Detailed description of the spill/release incident: _____		

CORRECTIVE ACTION

Describe immediate response (how stopped, contained and recovered):
All water was contained within the bermed area.

Describe any emergency pits constructed:

How was the extent of contamination determined:

Further remediation activities proposed (attach separate sheet if needed):
Soils have been treated by bioremediation practices on site. Attached are the soil results.

Describe measures taken to prevent problem from reoccurring:

OTHER NOTIFICATIONS

List the parties and agencies notified (County, BLM, EPA, DOT, Local Emergency Planning Coordinator or other).

Date	Agency	Contact	Phone	Response
	BLM	Cathy Ventling	970-244-3009	

Spill/Release Tracking No: 2221288



23-Jun-2011

Kris Rowe
HRL Compliance Solutions
744 Horizon Ct. Suite 140
Grand Junction, CO 81506

Re: **Black Hills Wagon Tracks 12-6 6/13/11**

Work Order: **1106421**

Dear Kris,

ALS Environmental received 2 samples on 15-Jun-2011 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 27.

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



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

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

Environmental

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: Black Hills Wagon Tracks 12-6 6/13/11
Work Order: 1106421

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>
1106421-01	PIT EXC	Soil		6/13/2011 14:00	6/15/2011 10:00	<input type="checkbox"/>
1106421-02	TREATMENT CELL BASELINE	Soil		6/13/2011 14:20	6/15/2011 10:00	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: Black Hills Wagon Tracks 12-6 6/13/11
Work Order: 1106421

Case Narrative

Batch 33857 MS/MSD data for Metals is not related to this project's samples.

Client: HRL Compliance Solutions
Project: Black Hills Wagon Tracks 12-6 6/13/11
WorkOrder: 1106421

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
SD	Serial Dilution
TDL	Target Detection Limit

Units Reported	Description
% 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: 23-Jun-11

Client: HRL Compliance Solutions
Project: Black Hills Wagon Tracks 12-6 6/13/11
Sample ID: PIT EXC
Collection Date: 6/13/2011 02:00 PM

Work Order: 1106421
Lab ID: 1106421-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep Date: 6/17/2011	Analyst: RM
DRO (C10-C28)	92		4.5	mg/Kg-dry	1	6/20/2011 05:22 PM
Surr: 4-Terphenyl-d14	82.9		39-115	%REC	1	6/20/2011 05:22 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015			Analyst: RM
GRO (C6-C10)	ND		5.5	mg/Kg-dry	100	6/20/2011 01:34 PM
Surr: Toluene-d8	102		50-150	%REC	100	6/20/2011 01:34 PM
MERCURY BY CVAA						
			SW7471		Prep Date: 6/21/2011	Analyst: LR
Mercury	ND		0.019	mg/Kg-dry	1	6/21/2011 06:06 PM
METALS BY ICP-MS						
			SW6020A		Prep Date: 6/16/2011	Analyst: RH
Arsenic	1.5		1.5	mg/Kg-dry	4	6/21/2011 04:22 PM
Barium	130		1.5	mg/Kg-dry	4	6/21/2011 04:22 PM
Cadmium	ND		0.61	mg/Kg-dry	4	6/21/2011 04:22 PM
Chromium	7.8		1.5	mg/Kg-dry	4	6/21/2011 04:22 PM
Copper	9.0		1.5	mg/Kg-dry	4	6/21/2011 04:22 PM
Lead	12		1.5	mg/Kg-dry	4	6/21/2011 04:22 PM
Nickel	5.3		1.5	mg/Kg-dry	4	6/21/2011 04:22 PM
Selenium	ND		1.5	mg/Kg-dry	4	6/21/2011 04:22 PM
Silver	ND		1.5	mg/Kg-dry	4	6/21/2011 04:22 PM
Zinc	24		3.0	mg/Kg-dry	4	6/21/2011 04:22 PM
SUBCONTRACTED ANALYSES						
Subcontracted Analyses		Rcvd 6/21/11	SUBCONTRACT	as noted	1	Analyst: A&LGL 6/21/2011
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep Date: 6/17/2011	Analyst: CW
Acenaphthene	ND		32	µg/Kg-dry	1	6/17/2011 07:20 PM
Anthracene	ND		32	µg/Kg-dry	1	6/17/2011 07:20 PM
Benzo(a)anthracene	ND		32	µg/Kg-dry	1	6/17/2011 07:20 PM
Benzo(a)pyrene	ND		32	µg/Kg-dry	1	6/17/2011 07:20 PM
Benzo(b)fluoranthene	ND		32	µg/Kg-dry	1	6/17/2011 07:20 PM
Benzo(g,h,i)perylene	ND		32	µg/Kg-dry	1	6/17/2011 07:20 PM
Benzo(k)fluoranthene	ND		32	µg/Kg-dry	1	6/17/2011 07:20 PM
Chrysene	ND		32	µg/Kg-dry	1	6/17/2011 07:20 PM
Dibenzo(a,h)anthracene	ND		32	µg/Kg-dry	1	6/17/2011 07:20 PM
Fluoranthene	ND		32	µg/Kg-dry	1	6/17/2011 07:20 PM
Fluorene	ND		32	µg/Kg-dry	1	6/17/2011 07:20 PM
Indeno(1,2,3-cd)pyrene	ND		32	µg/Kg-dry	1	6/17/2011 07:20 PM
Naphthalene	ND		32	µg/Kg-dry	1	6/17/2011 07:20 PM
Pyrene	ND		32	µg/Kg-dry	1	6/17/2011 07:20 PM
Surr: 2,4,6-Tribromophenol	77.9		34-140	%REC	1	6/17/2011 07:20 PM

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

ALS Group USA, Corp

Date: 23-Jun-11

Client: HRL Compliance Solutions

Project: Black Hills Wagon Tracks 12-6 6/13/11

Sample ID: PIT EXC

Collection Date: 6/13/2011 02:00 PM

Work Order: 1106421

Lab ID: 1106421-01

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 2-Fluorobiphenyl	63.2		12-100	%REC	1	6/17/2011 07:20 PM
Surr: 2-Fluorophenol	74.9		33-117	%REC	1	6/17/2011 07:20 PM
Surr: 4-Terphenyl-d14	85.1		25-137	%REC	1	6/17/2011 07:20 PM
Surr: Nitrobenzene-d5	69.3		37-107	%REC	1	6/17/2011 07:20 PM
Surr: Phenol-d6	74.6		40-106	%REC	1	6/17/2011 07:20 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: MK
Benzene	ND		110	µg/Kg-dry	100	6/18/2011 06:47 AM
Ethylbenzene	ND		110	µg/Kg-dry	100	6/18/2011 06:47 AM
m,p-Xylene	ND		110	µg/Kg-dry	100	6/18/2011 06:47 AM
o-Xylene	ND		110	µg/Kg-dry	100	6/18/2011 06:47 AM
Toluene	ND		110	µg/Kg-dry	100	6/18/2011 06:47 AM
Xylenes, Total	ND		330	µg/Kg-dry	100	6/18/2011 06:47 AM
Surr: 1,2-Dichloroethane-d4	101		70-120	%REC	100	6/18/2011 06:47 AM
Surr: 4-Bromofluorobenzene	101		75-120	%REC	100	6/18/2011 06:47 AM
Surr: Dibromofluoromethane	97.1		85-115	%REC	100	6/18/2011 06:47 AM
Surr: Toluene-d8	99.7		85-115	%REC	100	6/18/2011 06:47 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: EE
Chromium, Trivalent	7.1			mg/L-dry	1	6/23/2011 08:10 AM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 6/16/2011	Analyst: EE
Chromium, Hexavalent	0.70		0.54	mg/Kg-dry	1	6/21/2011 11:00 AM
MOISTURE			A2540 G			Analyst: JS
Moisture	8.8		0.050	% of sample	1	6/16/2011 12:24 PM
PH			SW9045D			Analyst: EE
pH	9.50			s.u.	1	6/15/2011 08:55 AM

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

A & L GREAT LAKES LABORATORIES, INC.

3505 Conestoga Dr. • Fort Wayne, Indiana 46808-4414 • Phone (260)483-4759 • FAX (260)483-5274

QUALITY ANALYSES FOR INFORMED DECISIONS®Report F11168-0122
ACCT 91000

PO 20-122010259

ALS Group USA
Ann Preson
3352 128th Ave
Holland MI 49424-9263

PROJECT NAME 1106421

COC ID 2955

616-399-6070
FAX 616-399-6185Sample Submitted 16-JUN-11
Sample Received 17-JUN-11
Sample Reported 21-JUN-11

Sample ID 1106421-01C Pit Excavation	A & L Lab # 74191	Matrix Soil	Collection Date 13-JUN-11 14:00
	Sodium (ppm Na)	6358	
	Magnesium (ppm Mg)	26	
	Calcium (ppm Ca)	108	
	Sodium Adsorption Ratio (SAR)	142 ?	
	Conductivity (mmho/cm)	10.03 ?	

Lois K Parker
President

ALS Group USA, Corp

Date: 23-Jun-11

Client: HRL Compliance Solutions
 Project: Black Hills Wagon Tracks 12-6 6/13/11
 Sample ID: TREATMENT CELL BASELINE
 Collection Date: 6/13/2011 02:20 PM

Work Order: 1106421
 Lab ID: 1106421-02
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep Date: 6/17/2011	Analyst: RM
DRO (C10-C28)	540		4.7	mg/Kg-dry	1	6/20/2011 05:46 PM
Surr: 4-Terphenyl-d14	49.0		39-115	%REC	1	6/20/2011 05:46 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015			Analyst: RM
GRO (C6-C10)	370		57	mg/Kg-dry	1000	6/20/2011 02:00 PM
Surr: Toluene-d8	107		50-150	%REC	1000	6/20/2011 02:00 PM
VOLATILE ORGANIC COMPOUNDS						
			SW8260			Analyst: MK
Benzene	ND		110	µg/Kg-dry	100	6/18/2011 07:12 AM
Ethylbenzene	450		110	µg/Kg-dry	100	6/18/2011 07:12 AM
m,p-Xylene	5,300		110	µg/Kg-dry	100	6/18/2011 07:12 AM
o-Xylene	1,300		110	µg/Kg-dry	100	6/18/2011 07:12 AM
Toluene	1,100		110	µg/Kg-dry	100	6/18/2011 07:12 AM
Xylenes, Total	6,700		340	µg/Kg-dry	100	6/18/2011 07:12 AM
Surr: 1,2-Dichloroethane-d4	103		70-120	%REC	100	6/18/2011 07:12 AM
Surr: 4-Bromofluorobenzene	110		75-120	%REC	100	6/18/2011 07:12 AM
Surr: Dibromofluoromethane	98.0		85-115	%REC	100	6/18/2011 07:12 AM
Surr: Toluene-d8	100		85-115	%REC	100	6/18/2011 07:12 AM
MOISTURE						
			A2540 G			Analyst: JS
Moisture	13		0.050	% of sample	1	6/16/2011 12:24 PM

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

ALS Group USA, Corp

Date: 23-Jun-11

Client: HRL Compliance Solutions
Work Order: 1106421
Project: Black Hills Wagon Tracks 12-6 6/13/11

QC BATCH REPORT

Batch ID: 33843 Instrument ID GC8 Method: SW8015M

MBLK Sample ID: DBLKS1-33843-33843 Units: mg/Kg Analysis Date: 6/17/2011 12:29 PM
 Client ID: Run ID: GC8_110617A SeqNo: 1652754 Prep Date: 6/17/2011 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	1.358	0	1.667	0	81.5	39-115	0			

LCS Sample ID: DLCSS1-33843-33843 Units: mg/Kg Analysis Date: 6/17/2011 10:52 AM
 Client ID: Run ID: GC8_110617A SeqNo: 1652751 Prep Date: 6/17/2011 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	142.6	4.2	166.7	0	85.6	60-130	0			
Surr: 4-Terphenyl-d14	1.326	0	1.667	0	79.5	39-115	0			

LCSD Sample ID: DLCSDS1-33843-33843 Units: mg/Kg Analysis Date: 6/17/2011 10:52 AM
 Client ID: Run ID: GC8_110617A SeqNo: 1652760 Prep Date: 6/17/2011 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	150.6	4.2	166.7	0	90.4	60-130	142.6	5.45	30	
Surr: 4-Terphenyl-d14	1.433	0	1.667	0	86	39-115	1.326	7.8	30	

MS Sample ID: 1106440-01B MS Units: mg/Kg Analysis Date: 6/17/2011 11:16 AM
 Client ID: Run ID: GC8_110617A SeqNo: 1652752 Prep Date: 6/17/2011 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	316.3	8.1	323.9	93.25	68.9	60-130	0			
Surr: 4-Terphenyl-d14	2.644	0	3.239	0	81.6	39-115	0			

MSD Sample ID: 1106440-01B MSD Units: mg/Kg Analysis Date: 6/17/2011 11:16 AM
 Client ID: Run ID: GC8_110617A SeqNo: 1652761 Prep Date: 6/17/2011 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	328.1	8.2	326.4	93.25	72	60-130	316.3	3.66	30	
Surr: 4-Terphenyl-d14	2.91	0	3.264	0	89.1	39-115	2.644	9.56	30	

The following samples were analyzed in this batch:

1106421-01B 1106421-02B

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

Client: HRL Compliance Solutions
Work Order: 1106421
Project: Black Hills Wagon Tracks 12-6 6/13/11

QC BATCH REPORT

Batch ID: **R91280** Instrument ID **GC9** Method: **SW8015**

MBLK Sample ID: **MBLK-R91280-R91280** Units: **µg/L** Analysis Date: **6/20/2011 12:17 PM**

Client ID: Run ID: **GC9_110620A** SeqNo: **1654283** 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	104	0	100	0	104	70-130	0			

LCS Sample ID: **LCS-R91280-R91280** Units: **µg/L** Analysis Date: **6/20/2011 11:00 AM**

Client ID: Run ID: **GC9_110620A** SeqNo: **1654281** 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)	26260	200	25000	0	105	70-130	0			
Surr: Toluene-d8	101.8	0	100	0	102	70-130	0			

LCSD Sample ID: **LCSD-R91280-R91280** Units: **µg/L** Analysis Date: **6/20/2011 11:25 AM**

Client ID: Run ID: **GC9_110620A** SeqNo: **1654282** 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)	26810	200	25000	0	107	70-130	26260	2.08	30	
Surr: Toluene-d8	107.9	0	100	0	108	70-130	101.8	5.82	30	

MS Sample ID: **1106433-07A MS** Units: **µg/L** Analysis Date: **6/20/2011 09:26 PM**

Client ID: Run ID: **GC9_110620A** SeqNo: **1654772** 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)	25720	200	25000	0	103	70-130	0			
Surr: Toluene-d8	106.1	0	100	0	106	70-130	0			

MSD Sample ID: **1106433-07A MSD** Units: **µg/L** Analysis Date: **6/20/2011 09:52 PM**

Client ID: Run ID: **GC9_110620A** SeqNo: **1654773** 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)	24770	200	25000	0	99.1	70-130	25720	3.76	30	
Surr: Toluene-d8	98.79	0	100	0	98.8	70-130	106.1	7.13	30	

The following samples were analyzed in this batch: 1106421-01A 1106421-02A

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

Client: HRL Compliance Solutions
Work Order: 1106421
Project: Black Hills Wagon Tracks 12-6 6/13/11

QC BATCH REPORT

Batch ID: **33930** Instrument ID **HG1** Method: **SW7471**

MBLK Sample ID: **MBLK-33930-33930** Units: **mg/Kg** Analysis Date: **6/21/2011 05:40 PM**

Client ID: Run ID: **HG1_110621A** SeqNo: **1655453** Prep Date: **6/21/2011** 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-33930-33930** Units: **mg/Kg** Analysis Date: **6/21/2011 05:42 PM**

Client ID: Run ID: **HG1_110621A** SeqNo: **1655454** Prep Date: **6/21/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1759	0.020	0.1665		0	106	80-120	0		

LCSD Sample ID: **LCSD-33930-33930** Units: **mg/Kg** Analysis Date: **6/21/2011 05:44 PM**

Client ID: Run ID: **HG1_110621A** SeqNo: **1655455** Prep Date: **6/21/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1788	0.020	0.1665		0	107	80-120	0.1759	1.64	20

MS Sample ID: **1106421-01BMS** Units: **mg/Kg** Analysis Date: **6/21/2011 06:08 PM**

Client ID: **PIT EXC** Run ID: **HG1_110621A** SeqNo: **1655466** Prep Date: **6/21/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1772	0.019	0.1551	0.009299	108	75-125		0		

MSD Sample ID: **1106421-01BMSD** Units: **mg/Kg** Analysis Date: **6/21/2011 06:10 PM**

Client ID: **PIT EXC** Run ID: **HG1_110621A** SeqNo: **1655467** Prep Date: **6/21/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1683	0.019	0.1566	0.009299	102	75-125	0.1772	5.11	35	

The following samples were analyzed in this batch:

1106421-01B

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

Client: HRL Compliance Solutions
Work Order: 1106421
Project: Black Hills Wagon Tracks 12-6 6/13/11

QC BATCH REPORT

Batch ID: 33857 Instrument ID ICPMS1 Method: SW6020A

MBLK	Sample ID: MBLK-33857-33857		Units: mg/Kg		Analysis Date: 6/21/2011 01:18 PM					
Client ID:	Run ID: ICPMS1_110621A		SeqNo: 1655281		Prep Date: 6/16/2011		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Barium	ND	0.25								
Cadmium	0.001698	0.10								J
Chromium	0.0105	0.25								J
Copper	ND	0.25								
Lead	ND	0.25								
Nickel	0.008285	0.25								J
Selenium	ND	0.25								
Silver	ND	0.25								
Zinc	ND	0.50								

LCS	Sample ID: LCS-33857-33857		Units: mg/Kg		Analysis Date: 6/21/2011 01:24 PM					
Client ID:	Run ID: ICPMS1_110621A		SeqNo: 1655282		Prep Date: 6/16/2011		DF: 2			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.556	0.50	5	0	91.1	80-120	0			
Barium	4.666	0.50	5	0	93.3	80-120	0			
Cadmium	4.629	0.20	5	0	92.6	80-120	0			
Chromium	4.763	0.50	5	0	95.3	80-120	0			
Copper	4.669	0.50	5	0	93.4	80-120	0			
Lead	4.753	0.50	5	0	95.1	80-120	0			
Nickel	4.651	0.50	5	0	93	80-120	0			
Selenium	4.629	0.50	5	0	92.6	80-120	0			
Silver	4.501	0.50	5	0	90	80-120	0			
Zinc	4.397	1.0	5	0	87.9	80-120	0			

LCSD	Sample ID: LCSD-33857-33857		Units: mg/Kg		Analysis Date: 6/21/2011 01:30 PM					
Client ID:	Run ID: ICPMS1_110621A		SeqNo: 1655283		Prep Date: 6/16/2011		DF: 2			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.4	0.50	5	0	88	80-120	4.556	3.48	20	
Barium	4.343	0.50	5	0	86.9	80-120	4.666	7.17	20	
Cadmium	4.348	0.20	5	0	87	80-120	4.629	6.26	20	
Chromium	4.441	0.50	5	0	88.8	80-120	4.763	7	20	
Copper	4.361	0.50	5	0	87.2	80-120	4.669	6.82	20	
Lead	4.479	0.50	5	0	89.6	80-120	4.753	5.94	20	
Nickel	4.322	0.50	5	0	86.4	80-120	4.651	7.33	20	
Selenium	4.334	0.50	5	0	86.7	80-120	4.629	6.58	20	
Silver	4.154	0.50	5	0	83.1	80-120	4.501	8.02	20	
Zinc	4.045	1.0	5	0	80.9	80-120	4.397	8.34	20	

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

Client: HRL Compliance Solutions
Work Order: 1106421
Project: Black Hills Wagon Tracks 12-6 6/13/11

QC BATCH REPORT

Batch ID: **33857** Instrument ID **ICPMS1** Method: **SW6020A**

MS		Sample ID: 1106434-05BMS		Units: mg/Kg		Analysis Date: 6/21/2011 02:05 PM				
Client ID:		Run ID: ICPMS1_110621A		SeqNo: 1655289		Prep Date: 6/16/2011		DF: 4		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	13.17	1.5	7.353	6.286	93.6	80-120	0			
Barium	54.44	1.5	7.353	53.81	8.65	80-120	0			SO
Cadmium	7.382	0.59	7.353	0.4296	94.6	80-120	0			
Chromium	21.21	1.5	7.353	15.63	75.9	80-120	0			S
Copper	22.34	1.5	7.353	16.17	83.9	80-120	0			
Lead	44.56	1.5	7.353	31.5	178	80-120	0			SO
Nickel	14.73	1.5	7.353	8.311	87.3	80-120	0			
Selenium	7.25	1.5	7.353	0.5214	91.5	80-120	0			
Silver	6.156	1.5	7.353	0.05123	83	80-120	0			
Zinc	63.53	2.9	7.353	68.82	-72	80-120	0			SO

MSD		Sample ID: 1106434-05BMSD		Units: mg/Kg		Analysis Date: 6/21/2011 02:10 PM				
Client ID:		Run ID: ICPMS1_110621A		SeqNo: 1655290		Prep Date: 6/16/2011		DF: 4		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	12.87	1.5	7.599	6.286	86.6	80-120	13.17	2.34	25	
Barium	55.74	1.5	7.599	53.81	25.5	80-120	54.44	2.37	25	SO
Cadmium	7.55	0.61	7.599	0.4296	93.7	80-120	7.382	2.25	25	
Chromium	20.62	1.5	7.599	15.63	65.7	80-120	21.21	2.82	25	S
Copper	19.34	1.5	7.599	16.17	41.7	80-120	22.34	14.4	25	S
Lead	32.64	1.5	7.599	31.5	15	80-120	44.56	30.9	25	SRO
Nickel	14.03	1.5	7.599	8.311	75.2	80-120	14.73	4.9	25	S
Selenium	7.462	1.5	7.599	0.5214	91.3	80-120	7.25	2.88	25	
Silver	6.343	1.5	7.599	0.05123	82.8	80-120	6.156	3	25	
Zinc	61.58	3.0	7.599	68.82	-95.3	80-120	63.53	3.12	25	SO

The following samples were analyzed in this batch:

1106421-01B

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

Client: HRL Compliance Solutions
Work Order: 1106421
Project: Black Hills Wagon Tracks 12-6 6/13/11

QC BATCH REPORT

Batch ID: **33869** Instrument ID **SVMS4** Method: **SW8270**

MBLK Sample ID: **SBLKS1-33869-33869** Units: **µg/Kg** Analysis Date: **6/17/2011 03:45 PM**

Client ID: Run ID: **SVMS4_110617A** SeqNo: **1653810** Prep Date: **6/17/2011** 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: 2,4,6-Tribromophenol	1145	0	1667	0	68.7	34-140	0			
Surr: 2-Fluorobiphenyl	1077	0	1667	0	64.6	12-100	0			
Surr: 2-Fluorophenol	1243	0	1667	0	74.6	33-117	0			
Surr: 4-Terphenyl-d14	1267	0	1667	0	76	25-137	0			
Surr: Nitrobenzene-d5	1211	0	1667	0	72.6	37-107	0			
Surr: Phenol-d6	1307	0	1667	0	78.4	40-106	0			

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

Client: HRL Compliance Solutions
Work Order: 1106421
Project: Black Hills Wagon Tracks 12-6 6/13/11

QC BATCH REPORT

Batch ID: **33869** Instrument ID **SVMS4** Method: **SW8270**

LCS		Sample ID: SLCSS1-33869-33869		Units: µg/Kg		Analysis Date: 6/17/2011 04:16 PM				
Client ID:		Run ID: SVMS4_110617A		SeqNo: 1653811		Prep Date: 6/17/2011		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1070	30	1333	0	80.2	45-110	0			
Anthracene	1145	30	1333	0	85.9	55-105	0			
Benzo(a)anthracene	1151	30	1333	0	86.4	50-110	0			
Benzo(a)pyrene	1246	30	1333	0	93.5	50-110	0			
Benzo(b)fluoranthene	1200	30	1333	0	90	45-115	0			
Benzo(g,h,i)perylene	1208	30	1333	0	90.6	40-125	0			
Benzo(k)fluoranthene	1238	30	1333	0	92.8	45-115	0			
Chrysene	1154	30	1333	0	86.5	55-110	0			
Dibenzo(a,h)anthracene	1212	30	1333	0	90.9	40-125	0			
Fluoranthene	1159	30	1333	0	86.9	55-115	0			
Fluorene	1070	30	1333	0	80.2	50-110	0			
Indeno(1,2,3-cd)pyrene	1215	30	1333	0	91.1	40-120	0			
Naphthalene	1011	30	1333	0	75.9	40-105	0			
Pyrene	1209	30	1333	0	90.7	45-125	0			
Surr: 2,4,6-Tribromophenol	1395	0	1667	0	83.7	34-140	0			
Surr: 2-Fluorobiphenyl	1178	0	1667	0	70.7	12-100	0			
Surr: 2-Fluorophenol	1238	0	1667	0	74.3	33-117	0			
Surr: 4-Terphenyl-d14	1466	0	1667	0	87.9	25-137	0			
Surr: Nitrobenzene-d5	1217	0	1667	0	73	37-107	0			
Surr: Phenol-d6	1167	0	1667	0	70	40-106	0			

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

Client: HRL Compliance Solutions
 Work Order: 1106421
 Project: Black Hills Wagon Tracks 12-6 6/13/11

QC BATCH REPORT

Batch ID: 33869 Instrument ID SVMS4 Method: SW8270

LCSD Sample ID: SLCSDS1-33869-33869 Units: µg/Kg Analysis Date: 6/17/2011 04:48 PM

Client ID: Run ID: SVMS4_110617A SeqNo: 1653812 Prep Date: 6/17/2011 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1060	30	1333	0	79.5	45-110	1070	0.939	25	
Anthracene	1142	30	1333	0	85.6	55-105	1145	0.292	25	
Benzo(a)anthracene	1182	30	1333	0	88.6	50-110	1151	2.6	25	
Benzo(a)pyrene	1256	30	1333	0	94.2	50-110	1246	0.799	25	
Benzo(b)fluoranthene	1224	30	1333	0	91.8	45-115	1200	1.95	25	
Benzo(g,h,i)perylene	1236	30	1333	0	92.7	40-125	1208	2.26	25	
Benzo(k)fluoranthene	1235	30	1333	0	92.6	45-115	1238	0.216	25	
Chrysene	1184	30	1333	0	88.8	55-110	1154	2.62	25	
Dibenzo(a,h)anthracene	1231	30	1333	0	92.3	40-125	1212	1.53	25	
Fluoranthene	1166	30	1333	0	87.5	55-115	1159	0.631	25	
Fluorene	1066	30	1333	0	80	50-110	1070	0.343	25	
Indeno(1,2,3-cd)pyrene	1236	30	1333	0	92.7	40-120	1215	1.74	25	
Naphthalene	1033	30	1333	0	77.5	40-105	1011	2.12	25	
Pyrene	1245	30	1333	0	93.4	45-125	1209	2.99	25	
Surr: 2,4,6-Tribromophenol	1358	0	1667	0	81.5	34-140	1395	2.71	40	
Surr: 2-Fluorobiphenyl	1174	0	1667	0	70.5	12-100	1178	0.312	40	
Surr: 2-Fluorophenol	1233	0	1667	0	74	33-117	1238	0.432	40	
Surr: 4-Terphenyl-d14	1499	0	1667	0	90	25-137	1466	2.27	40	
Surr: Nitrobenzene-d5	1247	0	1667	0	74.8	37-107	1217	2.49	40	
Surr: Phenol-d6	1180	0	1667	0	70.8	40-106	1167	1.08	40	

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

Client: HRL Compliance Solutions
Work Order: 1106421
Project: Black Hills Wagon Tracks 12-6 6/13/11

QC BATCH REPORT

Batch ID: **33869** Instrument ID **SVMS4** Method: **SW8270**

MS		Sample ID: 1106408-10C MS				Units: µg/Kg		Analysis Date: 6/20/2011 07:05 PM		
Client ID:		Run ID: SVMS6_110620A				SeqNo: 1654716		Prep Date: 6/17/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	2013	59	2630	0	76.6	45-110	0			
Anthracene	2123	59	2630	0	80.7	55-105	0			
Benzo(a)anthracene	2252	59	2630	8.9	85.3	50-110	0			
Benzo(a)pyrene	2146	59	2630	0	81.6	50-110	0			
Benzo(b)fluoranthene	1627	59	2630	0	61.9	45-115	0			
Benzo(g,h,i)perylene	2226	59	2630	0	84.7	40-125	0			
Benzo(k)fluoranthene	2054	59	2630	0	78.1	45-115	0			
Chrysene	2133	59	2630	0	81.1	55-110	0			
Dibenzo(a,h)anthracene	2244	59	2630	0	85.3	40-125	0			
Fluoranthene	2173	59	2630	0	82.6	55-115	0			
Fluorene	2057	59	2630	0	78.2	50-110	0			
Indeno(1,2,3-cd)pyrene	2208	59	2630	0	84	40-120	0			
Naphthalene	2011	59	2630	0	76.5	40-105	0			
Pyrene	2193	59	2630	0	83.4	45-125	0			
Surr: 2,4,6-Tribromophenol	2269	0	3287	0	69	34-140	0			
Surr: 2-Fluorobiphenyl	2048	0	3287	0	62.3	12-100	0			
Surr: 2-Fluorophenol	2494	0	3287	0	75.9	33-117	0			
Surr: 4-Terphenyl-d14	2519	0	3287	0	76.6	25-137	0			
Surr: Nitrobenzene-d5	2596	0	3287	0	79	37-107	0			
Surr: Phenol-d6	2414	0	3287	0	73.4	40-106	0			

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

Client: HRL Compliance Solutions
Work Order: 1106421
Project: Black Hills Wagon Tracks 12-6 6/13/11

QC BATCH REPORT

Batch ID: 33869 Instrument ID SVMS4 Method: SW8270

MSD Sample ID: 1106408-10C MSD Units: µg/Kg Analysis Date: 6/20/2011 07:31 PM
 Client ID: Run ID: SVMS6_110620A SeqNo: 1654717 Prep Date: 6/17/2011 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1889	59	2624	0	72	45-110	2013	6.37	30	
Anthracene	2094	59	2624	0	79.8	55-105	2123	1.36	30	
Benzo(a)anthracene	2239	59	2624	8.9	85	50-110	2252	0.59	30	
Benzo(a)pyrene	2097	59	2624	0	79.9	50-110	2146	2.28	30	
Benzo(b)fluoranthene	2002	59	2624	0	76.3	45-115	1627	20.7	30	
Benzo(g,h,i)perylene	2172	59	2624	0	82.8	40-125	2226	2.48	30	
Benzo(k)fluoranthene	2147	59	2624	0	81.8	45-115	2054	4.42	30	
Chrysene	2073	59	2624	0	79	55-110	2133	2.87	30	
Dibenzo(a,h)anthracene	2195	59	2624	0	83.7	40-125	2244	2.19	30	
Fluoranthene	2185	59	2624	0	83.3	55-115	2173	0.543	30	
Fluorene	1926	59	2624	0	73.4	50-110	2057	6.57	30	
Indeno(1,2,3-cd)pyrene	2168	59	2624	0	82.6	40-120	2208	1.83	30	
Naphthalene	1860	59	2624	0	70.9	40-105	2011	7.78	30	
Pyrene	2084	59	2624	0	79.4	45-125	2193	5.09	30	
Surr: 2,4,6-Tribromophenol	2278	0	3280	0	69.4	34-140	2269	0.397	40	
Surr: 2-Fluorobiphenyl	1899	0	3280	0	57.9	12-100	2048	7.57	40	
Surr: 2-Fluorophenol	2304	0	3280	0	70.2	33-117	2494	7.96	40	
Surr: 4-Terphenyl-d14	2396	0	3280	0	73	25-137	2519	4.99	40	
Surr: Nitrobenzene-d5	2363	0	3280	0	72	37-107	2596	9.43	40	
Surr: Phenol-d6	2227	0	3280	0	67.9	40-106	2414	8.05	40	

The following samples were analyzed in this batch: 1106421-01B

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

Client: HRL Compliance Solutions
 Work Order: 1106421
 Project: Black Hills Wagon Tracks 12-6 6/13/11

QC BATCH REPORT

Batch ID: R91226 Instrument ID VMS7 Method: SW8260

MBLK	Sample ID: VBLKW2-110617-R91226				Units: µg/L		Analysis Date: 6/18/2011 12:27 PM			
Client ID:	Run ID: VMS7_110617A				SeqNo: 1653048		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Ethylbenzene	ND	1.0								
m,p-Xylene	ND	2.0								
o-Xylene	ND	1.0								
Toluene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 1,2-Dichloroethane-d4	100	0	100	0	100	70-120	0			
Surr: 4-Bromofluorobenzene	98.42	0	100	0	98.4	75-120	0			
Surr: Dibromofluoromethane	100.1	0	100	0	100	85-115	0			
Surr: Toluene-d8	98.76	0	100	0	98.8	85-120	0			

LCS	Sample ID: VLCSW1-110617-R91226					Units: µg/L		Analysis Date: 6/17/2011 11:12 PM		
Client ID:	Run ID: VMS7_110617A				SeqNo: 1653034		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.39	1.0	20	0	92	80-120	0			
Ethylbenzene	18.13	1.0	20	0	90.6	75-125	0			
m,p-Xylene	36.13	2.0	40	0	90.3	75-130	0			
o-Xylene	18.38	1.0	20	0	91.9	80-120	0			
Toluene	17.99	1.0	20	0	90	75-120	0			
Xylenes, Total	54.51	2.0	60	0	90.8	75-130	0			
Surr: 1,2-Dichloroethane-d4	99.27	0	100	0	99.3	70-120	0			
Surr: 4-Bromofluorobenzene	99.39	0	100	0	99.4	75-120	0			
Surr: Dibromofluoromethane	101.5	0	100	0	101	85-115	0			
Surr: Toluene-d8	99.54	0	100	0	99.5	85-120	0			

LCSD	Sample ID: VLCSDW1-110617-R91226					Units: µg/L	Analysis Date: 6/17/2011 11:37 PM			
Client ID:	Run ID: VMS7_110617A				SeqNo: 1653035	Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.3	1.0	20	0	102	80-120	18.39	9.87	30	
Ethylbenzene	20.05	1.0	20	0	100	75-125	18.13	10.1	30	
m,p-Xylene	39.81	2.0	40	0	99.5	75-130	36.13	9.69	30	
o-Xylene	19.98	1.0	20	0	99.9	80-120	18.38	8.34	30	
Toluene	19.92	1.0	20	0	99.6	75-120	17.99	10.2	30	
Xylenes, Total	59.79	2.0	60	0	99.6	75-130	54.51	9.24	30	
Surr: 1,2-Dichloroethane-d4	99.78	0	100	0	99.8	70-120	99.27	0.512	30	
Surr: 4-Bromofluorobenzene	100.4	0	100	0	100	75-120	99.39	0.971	30	
Surr: Dibromofluoromethane	101.3	0	100	0	101	85-115	101.5	0.118	30	
Surr: Toluene-d8	99.42	0	100	0	99.4	85-120	99.54	0.121	30	

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

Client: HRL Compliance Solutions
 Work Order: 1106421
 Project: Black Hills Wagon Tracks 12-6 6/13/11

QC BATCH REPORT

Batch ID: R91226 Instrument ID VMS7 Method: SW8260

MS		Sample ID: 1106254-01B MS				Units: µg/L		Analysis Date: 6/18/2011 09:19 AM		
Client ID:		Run ID: VMS7_110617A				SeqNo: 1653046		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.62	1.0	20	0	98.1	80-120	0			
Ethylbenzene	18.92	1.0	20	0	94.6	75-125	0			
m,p-Xylene	38.08	2.0	40	0	95.2	75-130	0			
o-Xylene	18.97	1.0	20	0	94.8	80-120	0			
Toluene	18.72	1.0	20	0	93.6	75-120	0			
Xylenes, Total	57.05	2.0	60	0	95.1	75-130	0			
Surr: 1,2-Dichloroethane-d4	99.24	0	100	0	99.2	70-120	0			
Surr: 4-Bromofluorobenzene	99.47	0	100	0	99.5	75-120	0			
Surr: Dibromofluoromethane	99.98	0	100	0	100	85-115	0			
Surr: Toluene-d8	99.12	0	100	0	99.1	85-120	0			

MSD		Sample ID: 1106254-01B MSD				Units: µg/L		Analysis Date: 6/18/2011 09:44 AM		
Client ID:		Run ID: VMS7_110617A				SeqNo: 1653047		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.7	1.0	20	0	98.5	80-120	19.62	0.407	30	
Ethylbenzene	19.12	1.0	20	0	95.6	75-125	18.92	1.05	30	
m,p-Xylene	37.82	2.0	40	0	94.6	75-130	38.08	0.685	30	
o-Xylene	18.92	1.0	20	0	94.6	80-120	18.97	0.264	30	
Toluene	18.9	1.0	20	0	94.5	75-120	18.72	0.957	30	
Xylenes, Total	56.74	2.0	60	0	94.6	75-130	57.05	0.545	30	
Surr: 1,2-Dichloroethane-d4	100	0	100	0	100	70-120	99.24	0.773	30	
Surr: 4-Bromofluorobenzene	98.02	0	100	0	98	75-120	99.47	1.47	30	
Surr: Dibromofluoromethane	100	0	100	0	100	85-115	99.98	0.05	30	
Surr: Toluene-d8	99.01	0	100	0	99	85-120	99.12	0.111	30	

The following samples were analyzed in this batch:

1106421-01A 1106421-02A

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

Client: HRL Compliance Solutions
Work Order: 1106421
Project: Black Hills Wagon Tracks 12-6 6/13/11

QC BATCH REPORT

Batch ID: 33927 Instrument ID WETCHEM Method: SW7196A

MBLK	Sample ID: MBLK-33927-33927		Units: mg/Kg		Analysis Date: 6/21/2011 11:00 AM					
Client ID:	Run ID: WETCHEM_110621A		SeqNo: 1655005		Prep Date: 6/16/2011		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.292	0.50								J

LCS	Sample ID: LCS-33927-33927		Units: mg/Kg		Analysis Date: 6/21/2011 11:00 AM					
Client ID:	Run ID: WETCHEM_110621A		SeqNo: 1655006		Prep Date: 6/16/2011		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	2.18	0.50	2	0	109	75-110	0			

LCSD	Sample ID: LCSD-33927-33927		Units: mg/Kg		Analysis Date: 6/21/2011 11:00 AM					
Client ID:	Run ID: WETCHEM_110621A		SeqNo: 1655011		Prep Date: 6/16/2011		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	2.076	0.50	2	0	104	75-110	2.18	4.89	20	

MS	Sample ID: 1106421-01B MS		Units: mg/Kg		Analysis Date: 6/21/2011 11:00 AM					
Client ID: PIT EXC	Run ID: WETCHEM_110621A		SeqNo: 1655008		Prep Date: 6/16/2011		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	2.129	0.49	1.953	0.6403	76.2	60-130	0			

MSD	Sample ID: 1106421-01B MSD		Units: mg/Kg		Analysis Date: 6/21/2011 11:00 AM					
Client ID: PIT EXC	Run ID: WETCHEM_110621A		SeqNo: 1655009		Prep Date: 6/16/2011		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	2.244	0.49	1.969	0.6403	81.5	60-130	2.129	5.27	30	

The following samples were analyzed in this batch:

1106421-01B

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

Client: HRL Compliance Solutions
Work Order: 1106421
Project: Black Hills Wagon Tracks 12-6 6/13/11

QC BATCH REPORT

Batch ID: **R91132** Instrument ID **WETCHEM** Method: **SW9045D**

DUP	Sample ID: 1106408-03CDUP	Units: s.u.	Analysis Date: 6/15/2011 08:55 AM							
Client ID:	Run ID: WETCHEM_110615I	SeqNo: 1650913	Prep Date: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.77	0	0	0	0	0-0	8.77	0	20	

DUP	Sample ID: 1106408-18CDUP	Units: s.u.	Analysis Date: 6/15/2011 08:55 AM							
Client ID:	Run ID: WETCHEM_110615I	SeqNo: 1650924	Prep Date: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.51	0	0	0	0	0-0	8.51	0	20	

The following samples were analyzed in this batch:

1106421-01B

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

Client: HRL Compliance Solutions
Work Order: 1106421
Project: Black Hills Wagon Tracks 12-6 6/13/11

QC BATCH REPORT

Batch ID: **R91188** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS1-R91188				Units: % of sample			Analysis Date: 6/16/2011 12:24 PM		
Client ID:	Run ID: MOIST_110616A				SeqNo: 1652349			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-R91188				Units: % of sample			Analysis Date: 6/16/2011 12:24 PM		
Client ID:	Run ID: MOIST_110616A				SeqNo: 1652348			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: 1106425-04BDUP				Units: % of sample			Analysis Date: 6/16/2011 12:24 PM		
Client ID:	Run ID: MOIST_110616A				SeqNo: 1652332			Prep Date: DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	13.78	0.050	0		0	0	0-0	14.38	4.26	20

DUP	Sample ID: 1106434-03BDUP				Units: % of sample			Analysis Date: 6/16/2011 12:24 PM		
Client ID:	Run ID: MOIST_110616A				SeqNo: 1652346			Prep Date: DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	5.28	0.050	0		0	0	0-0	5.65	6.77	20

The following samples were analyzed in this batch:

1106421-01B	1106421-02B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.





TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r0

*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)		Preservative Key:							
Report barium as total barium and do not run boron	 	LEVEL II (Standard QC)	1-HCl	2-HNO3	3-H2SO4	4-NaOH	5-NaHSO4	7-Other	8-4 degrees C	9-5035
		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

**Subcontractor:**

A & L Great Lakes Agricultural La
3505 Conestoga Dr
Ft Wayne, IN 46808

TEL: (260) 483-4759
FAX:
Acct #: 91000

CHAIN-OF-CUSTODY RECORD

Date: 16-Jun-11
COC ID: 2955
Due Date 21-Jun-11

Page 1 of 1

Customer Information		Project Information		Parameter/Method Request for Analysis												
Purchase Order	Project Name	Project Number	Subcontracted Analyses (SUBCONTRACT)	A	B	C	D	E	F	G	H	I	J			
Work Order																
Company Name	ALS Group USA, Corp	Bill To Company	ALS Group USA, Corp													
Send Report To	Ann Preston	Inv Attn	Accounts Payable													
Address	3352 128th Avenue	Address	3352 128th Avenue													
City/State/Zip	Holland, Michigan 49424-9263	City/State/Zip	Holland, Michigan 49424-9263													
Phone	(616) 399-6070	Phone	(616) 399-6070													
Fax	(616) 399-6185	Fax	(616) 399-6185													
eMail Address	ann.preston@alsglobal.com	eMail CC														
Sample ID	Matrix	Collection Date 24hr	Bottle	A	B	C	D	E	F	G	H	I	J			
1106421-01C (PIT EXC)	Soll	13/Jun/2011 14:00	(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
					Std
Relinquished by:	Date/Time	Received by:	Date/Time		

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: HRL
Work Order: 1106421

Date/Time Received: 15-Jun-11 10:00
Received by: DS

Checklist completed by Diane Shaw 15-Jun-11
eSignature Date

Reviewed by: Ann Preston 16-Jun-11
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>3.8 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:

Corrective Action:

