

FORM
19
Rev 6/99

**State of Colorado
Oil and Gas Conservation Commission**



FOR OGCC USE ONLY

RECEIVED
JUL 30 2011
COGCC/Rtile Office

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

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.

Spill report taken by:

FACILITY ID:

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>SENE</u> Section: <u>12</u>
Well Name and Number: <u>Wagon Track Federal 12-8</u>	Township: <u>9S</u> Range: <u>98W</u>
API Number: <u>05-077-08725</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):
Initial soil sampling results showed all levels to be within Table 910-1 parameters. No further remediation necessary.

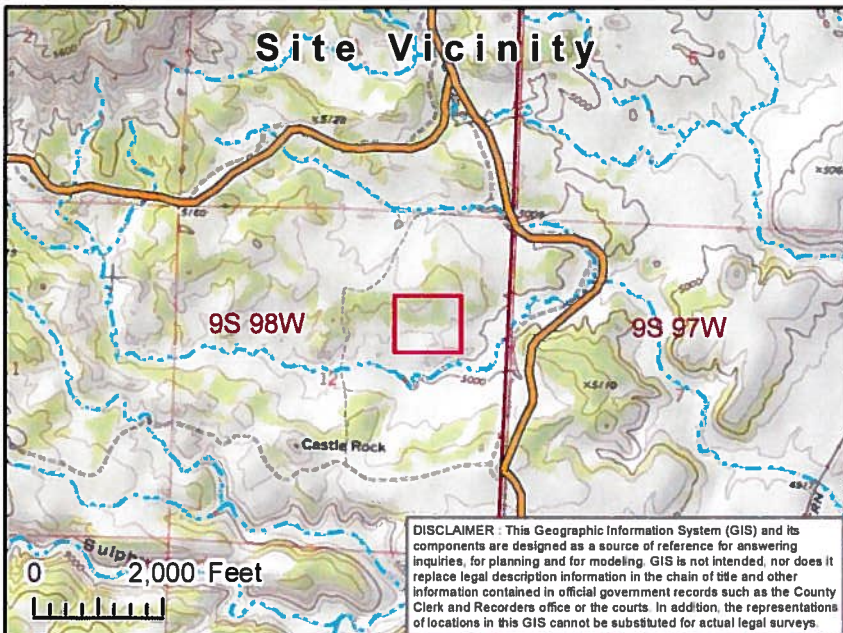
Describe measures taken to prevent problem from reoccurring:

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 Venting	970-244-3009	

Spill/Release Tracking No: 2221287



Location Map

Location: Wagon Track 12-8
Black Hill's Exploration and Production

GPS Features	Public Road
Pit Sample Point	Hydrographic Features
Background Sample Point	Perennial Stream
Pit Outline	Intermittent Stream
PLSS	Ditch/Canal
Township	
Section	



24-May-2011

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

Re: **Black Hills Wagon Tracks 12-8 11-175 5/16/11**

Work Order: **1105413**

Dear Kris,

ALS Environmental received 4 samples on 17-May-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 30.

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

Sincerely,

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

Electronically approved by Ann Preston

Ann Preston
Project Manager



Certificate No: IL100452

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 A small version of the ALS Environmental logo icon, consisting of a blue triangle with a flame/drop shape inside.

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: Black Hills Wagon Tracks 12-8 11-175 5/16/11
Work Order: 1105413

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>
1105413-01	Pit Bottom	Soil		5/16/2011 13:00	5/17/2011 10:00	<input type="checkbox"/>
1105413-02	BKGD 1	Soil		5/16/2011 13:10	5/17/2011 10:00	<input type="checkbox"/>
1105413-03	BKGD 2	Soil		5/16/2011 13:20	5/17/2011 10:00	<input type="checkbox"/>
1105413-04	BKGD 3	Soil		5/16/2011 13:30	5/17/2011 10:00	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: Black Hills Wagon Tracks 12-8 11-175 5/16/11
Work Order: 1105413

Case Narrative

Batch 33372 sample BKGD 1 MSD recoveries for Barium were below control limits, but the amount of Barium in the parent sample was greater than 4 times the amount spiked. The MSD recovery for Copper and Zinc were below control limits. Both the MS recoveries and RPDs met quality control criteria.

Batch 33399 MS/MSD data for Arsenic is not related to this project's samples.

Batch 33363 MS/MSD data for PAHs is not related to this project's samples.

Client: HRL Compliance Solutions
 Project: Black Hills Wagon Tracks 12-8 11-175 5/16/11
 WorkOrder: 1105413

**QUALIFIERS,
ACRONYMS, UNITS**

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

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

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight
s.u.	Standard Units

ALS Group USA, Corp

Date: 24-May-11

Client: HRL Compliance Solutions

Project: Black Hills Wagon Tracks 12-8 11-175 5/16/11

Work Order: 1105413

Sample ID: Pit Bottom

Lab ID: 1105413-01

Collection Date: 5/16/2011 01:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep Date: 5/18/2011	Analyst: RM
DRO (C10-C28)	11		5.1	mg/Kg-dry	1	5/19/2011 12:07 PM
Surr: 4-Terphenyl-d14	101		39-115	%REC	1	5/19/2011 12:07 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RM
GRO (C6-C10)	ND		6.1	mg/Kg-dry	100	5/19/2011 02:01 AM
Surr: Toluene-d8	91.5		50-150	%REC	100	5/19/2011 02:01 AM
MERCURY BY CVAA			SW7471		Prep Date: 5/18/2011	Analyst: CES
Mercury	ND		0.021	mg/Kg-dry	1	5/18/2011 03:58 PM
METALS BY ICP-MS			SW6020A		Prep Date: 5/18/2011	Analyst: CES
Arsenic	ND		0.89	mg/Kg-dry	2	5/18/2011 10:49 PM
Barium	120		0.89	mg/Kg-dry	2	5/18/2011 10:49 PM
Cadmium	ND		0.36	mg/Kg-dry	2	5/18/2011 10:49 PM
Chromium	2.1		0.89	mg/Kg-dry	2	5/18/2011 10:49 PM
Copper	5.3		0.89	mg/Kg-dry	2	5/18/2011 10:49 PM
Lead	2.5		0.89	mg/Kg-dry	2	5/18/2011 10:49 PM
Nickel	4.7		0.89	mg/Kg-dry	2	5/18/2011 10:49 PM
Selenium	ND		0.89	mg/Kg-dry	2	5/18/2011 10:49 PM
Silver	ND		0.89	mg/Kg-dry	2	5/18/2011 10:49 PM
Zinc	27		3.6	mg/Kg-dry	2	5/18/2011 10:49 PM
SUBCONTRACTED ANALYSES			SUBCONTRACT			Analyst: A&LGL
Subcontracted Analyses		Rcvd 5/20/11		attached	1	5/20/2011
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep Date: 5/18/2011	Analyst: HL
Acenaphthene	ND		36	µg/Kg-dry	1	5/19/2011 05:22 PM
Anthracene	ND		36	µg/Kg-dry	1	5/19/2011 05:22 PM
Benzo(a)anthracene	ND		36	µg/Kg-dry	1	5/19/2011 05:22 PM
Benzo(a)pyrene	ND		36	µg/Kg-dry	1	5/19/2011 05:22 PM
Benzo(b)fluoranthene	ND		36	µg/Kg-dry	1	5/19/2011 05:22 PM
Benzo(g,h,i)perylene	44		36	µg/Kg-dry	1	5/19/2011 05:22 PM
Benzo(k)fluoranthene	ND		36	µg/Kg-dry	1	5/19/2011 05:22 PM
Chrysene	ND		36	µg/Kg-dry	1	5/19/2011 05:22 PM
Dibenzo(a,h)anthracene	ND		36	µg/Kg-dry	1	5/19/2011 05:22 PM
Fluoranthene	ND		36	µg/Kg-dry	1	5/19/2011 05:22 PM
Fluorene	ND		36	µg/Kg-dry	1	5/19/2011 05:22 PM
Indeno(1,2,3-cd)pyrene	ND		36	µg/Kg-dry	1	5/19/2011 05:22 PM
Naphthalene	ND		36	µg/Kg-dry	1	5/19/2011 05:22 PM
Pyrene	ND		36	µg/Kg-dry	1	5/19/2011 05:22 PM
Surr: 2,4,6-Tribromophenol	60.6		34-140	%REC	1	5/19/2011 05:22 PM

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

ALS Group USA, Corp

Date: 24-May-11

Client: HRL Compliance Solutions

Project: Black Hills Wagon Tracks 12-8 11-175 5/16/11

Work Order: 1105413

Sample ID: Pit Bottom

Lab ID: 1105413-01

Collection Date: 5/16/2011 01:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	43.4		12-100	%REC	1	5/19/2011 05:22 PM
<i>Surr: 2-Fluorophenol</i>	54.8		33-117	%REC	1	5/19/2011 05:22 PM
<i>Surr: 4-Terphenyl-d14</i>	74.7		25-137	%REC	1	5/19/2011 05:22 PM
<i>Surr: Nitrobenzene-d5</i>	53.2		37-107	%REC	1	5/19/2011 05:22 PM
<i>Surr: Phenol-d6</i>	51.5		40-106	%REC	1	5/19/2011 05:22 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: MK
Benzene	ND		120	µg/Kg-dry	100	5/21/2011 05:20 AM
Ethylbenzene	ND		120	µg/Kg-dry	100	5/21/2011 05:20 AM
m,p-Xylene	ND		120	µg/Kg-dry	100	5/21/2011 05:20 AM
o-Xylene	ND		120	µg/Kg-dry	100	5/21/2011 05:20 AM
Toluene	ND		120	µg/Kg-dry	100	5/21/2011 05:20 AM
Xylenes, Total	ND		120	µg/Kg-dry	100	5/21/2011 05:20 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	2.1			mg/L-dry	1	5/19/2011 04:13 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 5/18/2011	Analyst: MB
Chromium, Hexavalent	ND		0.61	mg/Kg-dry	1	5/19/2011 03:00 PM
MOISTURE			A2540 G			Analyst: JJG
Moisture	18		0.050	% of sample	1	5/17/2011 02:12 PM
PH			SW9045D			Analyst: EE
pH	9.45			s.u.	1	5/17/2011 12:40 PM

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

ALS Group USA, Corp

Date: 24-May-11

Client: HRL Compliance Solutions

Project: Black Hills Wagon Tracks 12-8 11-175 5/16/11

Work Order: 1105413

Sample ID: BKGD 1

Lab ID: 1105413-02

Collection Date: 5/16/2011 01:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 5/18/2011	Analyst: CES
Arsenic	0.97		0.76	mg/Kg-dry	2	5/18/2011 03:37 PM
SUBCONTRACTED ANALYSES			SUBCONTRACT			Analyst: A&LGL
Subcontracted Analyses	Rcvd 5/20/11		attached		1	5/20/2011
MOISTURE			A2540 G			Analyst: JJG
Molsture	3.4		0.050	% of sample	1	5/17/2011 02:12 PM
PH			SW9045D			Analyst: EE
pH	8.02			s.u.	1	5/17/2011 12:40 PM

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

Report Number: F11139-0141
Account Number: 91000

A & L GREAT LAKES LABORATORIES, INC.

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www.algreatlakes.com • lab@algreatlakes.com



QUALITY ANALYSES FOR INFORMED DECISIONS

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

RE: 1105413

DATE RECEIVED: 05/19/2011
DATE REPORTED: 05/20/2011
PAGE: 1
P.O. NUMBER: 20-122010129

ATTN: ANN PRESTON

REPORT OF ANALYSIS

LAB NO.	SAMPLE ID	ANALYSIS	RESULT	UNIT	METHOD
45105	01C	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	2.34	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	10	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	3	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	2119	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	150.5	-	USDA Handbook 60
45106	02B	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	0.24	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	34	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	7	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	19	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	0.8	-	USDA Handbook 60

ALS Group USA, Corp

Date: 24-May-11

Client: HRL Compliance Solutions**Project:** Black Hills Wagon Tracks 12-8 11-175 5/16/11**Work Order:** 1105413**Sample ID:** BKGD 2**Lab ID:** 1105413-03**Collection Date:** 5/16/2011 01:20 PM**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 5/18/2011	Analyst: CES
Arsenic	0.97		0.82	mg/Kg-dry	2	5/18/2011 10:55 PM
MOISTURE			A2540 G			Analyst: JJG
Moisture	1.5		0.050	% of sample	1	5/17/2011 02:12 PM

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

ALS Group USA, Corp

Date: 24-May-11

Client: HRL Compliance Solutions

Project: Black Hills Wagon Tracks 12-8 11-175 5/16/11

Work Order: 1105413

Sample ID: BKGD 3

Lab ID: 1105413-04

Collection Date: 5/16/2011 01:30 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 5/20/2011	Analyst: CES
Arsenic	1.0		0.82	mg/Kg-dry	2	5/23/2011 01:05 PM
MOISTURE			A2540 G			Analyst: JJG
Moisture	3.0		0.050	% of sample	1	5/17/2011 02:12 PM

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

ALS Group USA, Corp

Date: 24-May-11

Client: HRL Compliance Solutions
 Work Order: 1105413
 Project: Black Hills Wagon Tracks 12-8 11-175 5/16/11

QC BATCH REPORT

Batch ID: 33364 Instrument ID GC8 Method: SW8015M

MBLK		Sample ID: DBLKS1-33364-33364			Units: mg/Kg		Analysis Date: 5/19/2011 10:29 AM			
Client ID:		Run ID: GC8_110519A			SeqNo: 1630075		Prep Date: 5/18/2011		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	0.956	0	1.667	0	57.4	39-115	0			

LCS		Sample ID: DLCSS1-33364-33364			Units: mg/Kg		Analysis Date: 5/19/2011 09:16 AM			
Client ID:		Run ID: GC8_110519A			SeqNo: 1630073		Prep Date: 5/18/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	142.1	4.2	166.7	0	85.3	60-130	0			
Surr: 4-Terphenyl-d14	1.115	0	1.667	0	66.9	39-115	0			

LCSD		Sample ID: DLCSDS1-33364-33364			Units: mg/Kg		Analysis Date: 5/19/2011 09:16 AM			
Client ID:		Run ID: GC8_110519A			SeqNo: 1630080		Prep Date: 5/18/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	129.7	4.2	166.7	0	77.8	60-130	142.1	9.17	30	
Surr: 4-Terphenyl-d14	1.192	0	1.667	0	71.5	39-115	1.115	6.62	30	

MS		Sample ID: 1105430-04B MS			Units: mg/Kg		Analysis Date: 5/19/2011 09:40 AM			
Client ID:		Run ID: GC8_110519A			SeqNo: 1630074		Prep Date: 5/18/2011		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	267.6	81	323.2	0	82.8	60-130	0			
Surr: 4-Terphenyl-d14	1.907	0	3.232	0	59	39-115	0			

MSD		Sample ID: 1105430-04B MSD			Units: mg/Kg		Analysis Date: 5/19/2011 09:40 AM			
Client ID:		Run ID: GC8_110519A			SeqNo: 1630081		Prep Date: 5/18/2011		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	259.4	82	328.5	0	79	60-130	267.6	3.13	30	
Surr: 4-Terphenyl-d14	2.142	0	3.285	0	65.2	39-115	1.907	11.6	30	

The following samples were analyzed in this batch: 1105413-01B

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

Client: HRL Compliance Solutions
Work Order: 1105413
Project: Black Hills Wagon Tracks 12-8 11-175 5/16/11

QC BATCH REPORT

Batch ID: **R90227** Instrument ID **GC9** Method: **SW8015**

MBLK		Sample ID: MBLK-R90227-R90227			Units: µg/L		Analysis Date: 5/18/2011 05:53 PM			
Client ID:		Run ID: GC9_110518A			SeqNo: 1629747		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	200								
<i>Surr: Toluene-d8</i>	89.13	0	100	0	89.1	70-130	0			

LCS		Sample ID: LCS-R90227-R90227			Units: µg/L		Analysis Date: 5/18/2011 04:15 PM			
Client ID:		Run ID: GC9_110518A			SeqNo: 1629745		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)	23680	200	25000	0	94.7	70-130	0			
<i>Surr: Toluene-d8</i>	95.27	0	100	0	95.3	70-130	0			

LCSD		Sample ID: LCSD-R90227-R90227			Units: µg/L		Analysis Date: 5/18/2011 04:56 PM			
Client ID:		Run ID: GC9_110518A			SeqNo: 1629746		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)	23920	200	25000	0	95.7	70-130	23680	1.02	30	
<i>Surr: Toluene-d8</i>	97.99	0	100	0	98	70-130	95.27	2.81	30	

MS		Sample ID: 1105391-02A MS			Units: µg/L		Analysis Date: 5/19/2011 08:07 AM			
Client ID:		Run ID: GC9_110518A			SeqNo: 1629748		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)	20980	200	25000	0	83.9	70-130	0			
<i>Surr: Toluene-d8</i>	90.59	0	100	0	90.6	70-130	0			

MS		Sample ID: 1105430-04A MS			Units: µg/Kg		Analysis Date: 5/19/2011 08:32 AM			
Client ID:		Run ID: GC9_110518A			SeqNo: 1629769		Prep Date:		DF: 100	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	2508000	5,000	2500000	0	100	70-130	0			
<i>Surr: Toluene-d8</i>	8949	0	10000	0	89.5	50-150	0			

MSD		Sample ID: 1105391-02A MSD			Units: µg/L		Analysis Date: 5/19/2011 08:57 AM			
Client ID:		Run ID: GC9_110518A			SeqNo: 1629749		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)	19420	200	25000	0	77.7	70-130	20980	7.72	30	
<i>Surr: Toluene-d8</i>	90.32	0	100	0	90.3	70-130	90.59	0.298	30	

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

Client: HRL Compliance Solutions
Work Order: 1105413
Project: Black Hills Wagon Tracks 12-8 11-175 5/16/11

QC BATCH REPORT

Batch ID: **R90227** Instrument ID **GC9** Method: **SW8015**

MSD		Sample ID: 1105430-04A MSD			Units: µg/Kg		Analysis Date: 5/19/2011 09:22 AM			
Client ID:		Run ID: GC9_110518A			SeqNo: 1629770		Prep Date:		DF: 100	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	2409000	5,000	2500000	0	96.3	70-130	2508000	4.04	30	
<i>Surr: Toluene-d8</i>	<i>9475</i>	<i>0</i>	<i>10000</i>	<i>0</i>	<i>94.8</i>	<i>50-150</i>	<i>8949</i>	<i>5.71</i>	<i>30</i>	

The following samples were analyzed in this batch:

1105413-01A

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

Client: HRL Compliance Solutions
Work Order: 1105413
Project: Black Hills Wagon Tracks 12-8 11-175 5/16/11

QC BATCH REPORT

Batch ID: 33373 Instrument ID HG1 Method: SW7471

MBLK		Sample ID: MBLK-33373-33373				Units: mg/Kg		Analysis Date: 5/18/2011 03:02 PM		
Client ID:		Run ID: HG1_110518A				SeqNo: 1628824		Prep Date: 5/18/2011		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-33373-33373				Units: mg/Kg		Analysis Date: 5/18/2011 03:04 PM		
Client ID:		Run ID: HG1_110518A				SeqNo: 1628825		Prep Date: 5/18/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1699	0.020	0.1665		0	102	80-120	0		

LCSD		Sample ID: LCSD-33373-33373				Units: mg/Kg		Analysis Date: 5/18/2011 03:07 PM		
Client ID:		Run ID: HG1_110518A				SeqNo: 1628826		Prep Date: 5/18/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1802	0.020	0.1665		0	108	80-120	0.1699	5.86	20

MS		Sample ID: 1105325-13AMS				Units: mg/Kg		Analysis Date: 5/18/2011 03:18 PM		
Client ID:		Run ID: HG1_110518A				SeqNo: 1628834		Prep Date: 5/18/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1745	0.019	0.1561	0.002489	110	75-125		0		

MSD		Sample ID: 1105325-13AMSD				Units: mg/Kg		Analysis Date: 5/18/2011 03:20 PM		
Client ID:		Run ID: HG1_110518A				SeqNo: 1628835		Prep Date: 5/18/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1671	0.018	0.1535	0.002489	107	75-125	0.1745	4.33	35	

The following samples were analyzed in this batch: 1105413-01B

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

Client: HRL Compliance Solutions
Work Order: 1105413
Project: Black Hills Wagon Tracks 12-8 11-175 5/16/11

QC BATCH REPORT

Batch ID: 33372 Instrument ID ICPMS1 Method: SW6020A

MBLK	Sample ID: MBLK-33372-33372	Units: mg/Kg				Analysis Date: 5/18/2011 02:57 PM				
Client ID:	Run ID: ICPMS1_110518A	SeqNo: 1628872	Prep Date: 5/18/2011	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	ND	0.10								
Chromium	0.00458	0.25								J
Copper	0.02112	0.25								J
Lead	0.003628	0.25								J
Nickel	0.03782	0.25								J
Selenium	ND	0.25								
Silver	ND	0.25								

MBLK	Sample ID: MBLK-33372-33372	Units: mg/Kg				Analysis Date: 5/18/2011 05:54 PM				
Client ID:	Run ID: ICPMS1_110518A	SeqNo: 1629171	Prep Date: 5/18/2011	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Zinc	0.631	0.50								

LCS	Sample ID: LCS-33372-33372	Units: mg/Kg				Analysis Date: 5/18/2011 03:03 PM				
Client ID:	Run ID: ICPMS1_110518A	SeqNo: 1628873	Prep Date: 5/18/2011	DF: 2						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.681	0.50	5	0	93.6	80-120	0			
Barium	4.677	0.50	5	0	93.5	80-120	0			
Cadmium	4.592	0.20	5	0	91.8	80-120	0			
Chromium	4.73	0.50	5	0	94.6	80-120	0			
Copper	4.702	0.50	5	0	94	80-120	0			
Lead	4.813	0.50	5	0	96.3	80-120	0			
Nickel	4.763	0.50	5	0	95.3	80-120	0			
Selenium	4.365	0.50	5	0	87.3	80-120	0			
Silver	4.526	0.50	5	0	90.5	80-120	0			

LCS	Sample ID: LCS-33372-33372	Units: mg/Kg				Analysis Date: 5/18/2011 05:59 PM				
Client ID:	Run ID: ICPMS1_110518A	SeqNo: 1629172	Prep Date: 5/18/2011	DF: 2						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Zinc	5.569	1.0	5	0	111	80-120	0			B

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

Client: HRL Compliance Solutions
Work Order: 1105413
Project: Black Hills Wagon Tracks 12-8 11-175 5/16/11

QC BATCH REPORT

Batch ID: 33372 Instrument ID ICPMS1 Method: SW6020A

LCSD		Sample ID: LCSD-33372-33372				Units: mg/Kg		Analysis Date: 5/18/2011 03:08 PM			
Client ID:		Run ID: ICPMS1_110518A				SeqNo: 1628874		Prep Date: 5/18/2011		DF: 2	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	4.648	0.50	5	0	93	80-120	4.681	0.707	20		
Barium	4.662	0.50	5	0	93.2	80-120	4.677	0.321	20		
Cadmium	4.577	0.20	5	0	91.5	80-120	4.592	0.327	20		
Chromium	4.684	0.50	5	0	93.7	80-120	4.73	0.977	20		
Copper	4.623	0.50	5	0	92.5	80-120	4.702	1.69	20		
Lead	4.829	0.50	5	0	96.6	80-120	4.813	0.332	20		
Nickel	4.637	0.50	5	0	92.7	80-120	4.763	2.68	20		
Selenium	4.437	0.50	5	0	88.7	80-120	4.365	1.64	20		
Silver	4.529	0.50	5	0	90.6	80-120	4.526	0.0663	20		

LCSD		Sample ID: LCSD-33372-33372				Units: mg/Kg		Analysis Date: 5/18/2011 06:05 PM			
Client ID:		Run ID: ICPMS1_110518A				SeqNo: 1629173		Prep Date: 5/18/2011		DF: 2	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Zinc	4.729	1.0	5	0	94.6	80-120	5.569	16.3	20	B	

MS		Sample ID: 1105413-02AMS				Units: mg/Kg		Analysis Date: 5/18/2011 06:41 PM			
Client ID: BKGD 1		Run ID: ICPMS1_110518A				SeqNo: 1629175		Prep Date: 5/18/2011		DF: 2	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	7.455	0.74	7.407	0.8271	89.5	80-120	0				
Barium	57.02	0.74	7.407	48.24	119	80-120	0			O	
Cadmium	6.603	0.30	7.407	0.06968	88.2	80-120	0				
Chromium	9.79	0.74	7.407	2.884	93.2	80-120	0				
Copper	12.5	0.74	7.407	6.042	87.2	80-120	0				
Lead	13.4	0.74	7.407	6.732	90	80-120	0				
Nickel	11.08	0.74	7.407	4.001	95.5	80-120	0				
Selenium	6.582	0.74	7.407	0.3211	84.5	80-120	0				
Silver	6.399	0.74	7.407	0.01613	86.2	80-120	0				
Zinc	24.83	1.5	7.407	17.34	101	80-120	0			B	

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

Client: HRL Compliance Solutions
Work Order: 1105413
Project: Black Hills Wagon Tracks 12-8 11-175 5/16/11

QC BATCH REPORT

Batch ID: **33372** Instrument ID **ICPMS1** Method: **SW6020A**

MSD Sample ID: **1105413-02AMSD** Units: **mg/Kg** Analysis Date: **5/18/2011 06:47 PM**

Client ID: **BKGD 1** Run ID: **ICPMS1_110518A** SeqNo: **1629176** Prep Date: **5/18/2011** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	7.517	0.74	7.429	0.8271	90	80-120	7.455	0.832	25	
Barium	53	0.74	7.429	48.24	64	80-120	57.02	7.31	25	SO
Cadmium	6.709	0.30	7.429	0.06968	89.4	80-120	6.603	1.59	25	
Chromium	9.533	0.74	7.429	2.884	89.5	80-120	9.79	2.65	25	
Copper	11.97	0.74	7.429	6.042	79.7	80-120	12.5	4.36	25	S
Lead	13.38	0.74	7.429	6.732	89.5	80-120	13.4	0.135	25	
Nickel	10.32	0.74	7.429	4.001	85	80-120	11.08	7.1	25	
Selenium	6.397	0.74	7.429	0.3211	81.8	80-120	6.582	2.86	25	
Silver	6.426	0.74	7.429	0.01613	86.3	80-120	6.399	0.436	25	
Zinc	22.76	1.5	7.429	17.34	73.1	80-120	24.83	8.68	25	BS

The following samples were analyzed in this batch: | 1105413-01B 1105413-02A 1105413-03A |

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

Client: HRL Compliance Solutions
Work Order: 1105413
Project: Black Hills Wagon Tracks 12-8 11-175 5/16/11

QC BATCH REPORT

Batch ID: **33399** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK	Sample ID: MBLK-33399-33399	Units: mg/Kg	Analysis Date: 5/23/2011 12:47 PM							
Client ID:	Run ID: ICPMS1_110523A	SeqNo: 1632165	Prep Date: 5/20/2011 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								

LCS	Sample ID: LCS-33399-33399	Units: mg/Kg	Analysis Date: 5/23/2011 12:53 PM							
Client ID:	Run ID: ICPMS1_110523A	SeqNo: 1632166	Prep Date: 5/20/2011 DF: 2							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	5.131	0.50	5	0	103	80-120	0			

LCSD	Sample ID: LCSD-33399-33399	Units: mg/Kg	Analysis Date: 5/23/2011 12:59 PM							
Client ID:	Run ID: ICPMS1_110523A	SeqNo: 1632167	Prep Date: 5/20/2011 DF: 2							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	5.123	0.50	5	0	102	80-120	5.131	0.156	20	

MS	Sample ID: 1105430-04BMS	Units: mg/Kg	Analysis Date: 5/23/2011 01:35 PM							
Client ID:	Run ID: ICPMS1_110523A	SeqNo: 1632173	Prep Date: 5/20/2011 DF: 4							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	13.94	1.5	7.386	9.165	64.6	80-120	0			S

MSD	Sample ID: 1105430-04BMSD	Units: mg/Kg	Analysis Date: 5/23/2011 01:40 PM							
Client ID:	Run ID: ICPMS1_110523A	SeqNo: 1632174	Prep Date: 5/20/2011 DF: 4							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	13.96	1.5	7.576	9.165	63.3	80-120	13.94	0.184	25	S

The following samples were analyzed in this batch: 1105413-04A

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

Client: HRL Compliance Solutions
Work Order: 1105413
Project: Black Hills Wagon Tracks 12-8 11-175 5/16/11

QC BATCH REPORT

Batch ID: 33363 Instrument ID SVMS6 Method: SW8270

MBLK Sample ID: SBLKS1-33363-33363 Units: µg/Kg Analysis Date: 5/19/2011 10:35 AM

Client ID: Run ID: SVMS6_110519A SeqNo: 1629807 Prep Date: 5/18/2011 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								
<i>Surr: 2,4,6-Tribromophenol</i>	765.3	0	1667	0	45.9	34-140	0			
<i>Surr: 2-Fluorobiphenyl</i>	789.3	0	1667	0	47.4	12-100	0			
<i>Surr: 2-Fluorophenol</i>	908.7	0	1667	0	54.5	33-117	0			
<i>Surr: 4-Terphenyl-d14</i>	1484	0	1667	0	89.1	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	863.7	0	1667	0	51.8	37-107	0			
<i>Surr: Phenol-d6</i>	858	0	1667	0	51.5	40-106	0			

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

Client: HRL Compliance Solutions
Work Order: 1105413
Project: Black Hills Wagon Tracks 12-8 11-175 5/16/11

QC BATCH REPORT

Batch ID: 33363 Instrument ID: SVMS6 Method: SW8270

LCS	Sample ID: SLCSS1-33363-33363	Units: µg/Kg				Analysis Date: 5/19/2011 09:42 AM				
Client ID:	Run ID: SVMS6_110519A	SeqNo: 1629803	Prep Date: 5/18/2011	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1072	30	1333	0	80.4	45-110	0			
Anthracene	1101	30	1333	0	82.6	55-105	0			
Benzo(a)anthracene	1016	30	1333	0	76.2	50-110	0			
Benzo(a)pyrene	1147	30	1333	0	86.1	50-110	0			
Benzo(b)fluoranthene	1173	30	1333	0	88	45-115	0			
Benzo(g,h,i)perylene	1288	30	1333	0	96.6	40-125	0			
Benzo(k)fluoranthene	1164	30	1333	0	87.3	45-115	0			
Chrysene	1024	30	1333	0	76.8	55-110	0			
Dibenzo(a,h)anthracene	1383	30	1333	0	104	40-125	0			
Fluoranthene	1099	30	1333	0	82.4	55-115	0			
Fluorene	1312	30	1333	0	98.4	50-110	0			
Indeno(1,2,3-cd)pyrene	1392	30	1333	0	104	40-120	0			
Naphthalene	1062	30	1333	0	79.6	40-105	0			
Pyrene	973.3	30	1333	0	73	45-125	0			
<i>Surr: 2,4,6-Tribromophenol</i>	1321	0	1667	0	79.3	34-140	0			
<i>Surr: 2-Fluorobiphenyl</i>	1281	0	1667	0	76.8	12-100	0			
<i>Surr: 2-Fluorophenol</i>	1372	0	1667	0	82.3	33-117	0			
<i>Surr: 4-Terphenyl-d14</i>	1418	0	1667	0	85.1	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1454	0	1667	0	87.2	37-107	0			
<i>Surr: Phenol-d6</i>	1275	0	1667	0	76.5	40-106	0			

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

Client: HRL Compliance Solutions
 Work Order: 1105413
 Project: Black Hills Wagon Tracks 12-8 11-175 5/16/11

QC BATCH REPORT

Batch ID: 33363 Instrument ID SVMS6 Method: SW8270

LCSD Sample ID: SLCSDS1-33363-33363 Units: µg/Kg Analysis Date: 5/19/2011 10:09 AM

Client ID: Run ID: SVMS6_110519A SeqNo: 1629804 Prep Date: 5/18/2011 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1007	30	1333	0	75.6	45-110	1072	6.25	25	
Anthracene	1113	30	1333	0	83.5	55-105	1101	1.14	25	
Benzo(a)anthracene	1049	30	1333	0	78.7	50-110	1016	3.13	25	
Benzo(a)pyrene	1176	30	1333	0	88.2	50-110	1147	2.44	25	
Benzo(b)fluoranthene	1090	30	1333	0	81.8	45-115	1173	7.31	25	
Benzo(g,h,i)perylene	1343	30	1333	0	101	40-125	1288	4.18	25	
Benzo(k)fluoranthene	1416	30	1333	0	106	45-115	1164	19.5	25	
Chrysene	1025	30	1333	0	76.9	55-110	1024	0.13	25	
Dibenzo(a,h)anthracene	1432	30	1333	0	107	40-125	1383	3.48	25	
Fluoranthene	1128	30	1333	0	84.6	55-115	1099	2.61	25	
Fluorene	1251	30	1333	0	93.9	50-110	1312	4.76	25	
Indeno(1,2,3-cd)pyrene	1451	30	1333	0	109	40-120	1392	4.15	25	
Naphthalene	991	30	1333	0	74.3	40-105	1062	6.89	25	
Pyrene	959.7	30	1333	0	72	45-125	973.3	1.41	25	
Surr: 2,4,6-Tribromophenol	1321	0	1667	0	79.3	34-140	1321	0	40	
Surr: 2-Fluorobiphenyl	1144	0	1667	0	68.6	12-100	1281	11.3	40	
Surr: 2-Fluorophenol	1247	0	1667	0	74.8	33-117	1372	9.57	40	
Surr: 4-Terphenyl-d14	1395	0	1667	0	83.7	25-137	1418	1.59	40	
Surr: Nitrobenzene-d5	1324	0	1667	0	79.4	37-107	1454	9.38	40	
Surr: Phenol-d6	1175	0	1667	0	70.5	40-106	1275	8.13	40	

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

Client: HRL Compliance Solutions
Work Order: 1105413
Project: Black Hills Wagon Tracks 12-8 11-175 5/16/11

QC BATCH REPORT

Batch ID: 33363 Instrument ID SVMS6 Method: SW8270

MS	Sample ID: 1105430-04B MS	Units: µg/Kg				Analysis Date: 5/20/2011 12:49 PM				
Client ID:	Run ID: SVMS5_110519A	SeqNo: 1630399	Prep Date: 5/18/2011	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1813	56	2508	0	72.3	45-110	0			
Anthracene	2242	56	2508	0	89.4	55-105	0			
Benzo(a)anthracene	2159	56	2508	22.43	85.2	50-110	0			
Benzo(a)pyrene	2279	56	2508	16.49	90.2	50-110	0			
Benzo(b)fluoranthene	2480	56	2508	16.82	98.2	45-115	0			
Benzo(g,h,i)perylene	1552	56	2508	0	61.9	40-125	0			
Benzo(k)fluoranthene	2655	56	2508	22.76	105	45-115	0			
Chrysene	2040	56	2508	16.49	80.7	55-110	0			
Dibenzo(a,h)anthracene	1698	56	2508	0	67.7	40-125	0			
Fluoranthene	2685	56	2508	34.96	106	55-115	0			
Fluorene	1963	56	2508	0	78.3	50-110	0			
Indeno(1,2,3-cd)pyrene	1689	56	2508	0	67.4	40-120	0			
Naphthalene	1860	56	2508	0	74.2	40-105	0			
Pyrene	2054	56	2508	31.66	80.6	45-125	0			
<i>Surr: 2,4,6-Tribromophenol</i>	1518	0	3135	0	48.4	34-140	0			
<i>Surr: 2-Fluorobiphenyl</i>	2231	0	3135	0	71.2	12-100	0			
<i>Surr: 2-Fluorophenol</i>	2233	0	3135	0	71.2	33-117	0			
<i>Surr: 4-Terphenyl-d14</i>	2824	0	3135	0	90.1	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	2453	0	3135	0	78.3	37-107	0			
<i>Surr: Phenol-d6</i>	2141	0	3135	0	68.3	40-106	0			

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

Client: HRL Compliance Solutions
 Work Order: 1105413
 Project: Black Hills Wagon Tracks 12-8 11-175 5/16/11

QC BATCH REPORT

Batch ID: 33363 Instrument ID SVMS6 Method: SW8270

MSD	Sample ID: 1105430-04B MSD	Units: µg/Kg				Analysis Date: 5/20/2011 01:23 AM				
Client ID:	Run ID: SVMS5_110519A	SeqNo: 1630396	Prep Date: 5/18/2011	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1902	59	2623	0	72.5	45-110	1813	4.78	30	
Anthracene	2301	59	2623	0	87.7	55-105	2242	2.58	30	
Benzo(a)anthracene	2219	59	2623	22.43	83.7	50-110	2159	2.74	30	
Benzo(a)pyrene	2460	59	2623	16.49	93.1	50-110	2279	7.67	30	
Benzo(b)fluoranthene	3111	59	2623	16.82	118	45-115	2480	22.6	30	S
Benzo(g,h,i)perylene	1034	59	2623	0	39.4	40-125	1552	40	30	SR
Benzo(k)fluoranthene	2946	59	2623	22.76	111	45-115	2655	10.4	30	
Chrysene	2072	59	2623	16.49	78.3	55-110	2040	1.54	30	
Dibenzo(a,h)anthracene	1242	59	2623	0	47.4	40-125	1698	31	30	R
Fluoranthene	2423	59	2623	34.96	91	55-115	2685	10.3	30	
Fluorene	2030	59	2623	0	77.4	50-110	1963	3.38	30	
Indeno(1,2,3-cd)pyrene	1228	59	2623	0	46.8	40-120	1689	31.6	30	R
Naphthalene	1892	59	2623	0	72.1	40-105	1860	1.73	30	
Pyrene	2014	59	2623	31.66	75.5	45-125	2054	1.99	30	
Surr: 2,4,6-Tribromophenol	1760	0	3279	0	53.7	34-140	1518	14.8	40	
Surr: 2-Fluorobiphenyl	2339	0	3279	0	71.3	12-100	2231	4.73	40	
Surr: 2-Fluorophenol	2299	0	3279	0	70.1	33-117	2233	2.89	40	
Surr: 4-Terphenyl-d14	2797	0	3279	0	85.3	25-137	2824	0.951	40	
Surr: Nitrobenzene-d5	2479	0	3279	0	75.6	37-107	2453	1.02	40	
Surr: Phenol-d6	2179	0	3279	0	66.4	40-106	2141	1.77	40	

The following samples were analyzed in this batch: 1105413-01B

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

Client: HRL Compliance Solutions
 Work Order: 1105413
 Project: Black Hills Wagon Tracks 12-8 11-175 5/16/11

QC BATCH REPORT

Batch ID: R90302A Instrument ID VMS6 Method: SW8260

MBLK		Sample ID: VBLKW2-110520-R90302A				Units: µg/L		Analysis Date: 5/21/2011 12:46 PM		
Client ID:		Run ID: VMS6_110520B		SeqNo: 1631151		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								

LCS		Sample ID: VLCSW2-110520-R90302A				Units: µg/L		Analysis Date: 5/20/2011 11:31 PM		
Client ID:		Run ID: VMS6_110520B		SeqNo: 1631149		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.67	1.0	20	0	98.4	80-120	0			
Ethylbenzene	18.59	1.0	20	0	93	75-125	0			
m,p-Xylene	36.98	2.0	40	0	92.4	75-130	0			
o-Xylene	18.37	1.0	20	0	91.8	80-120	0			
Toluene	19.18	1.0	20	0	95.9	75-120	0			
Xylenes, Total	55.35	2.0	60	0	92.2	75-130	0			

LCSD		Sample ID: VLCSW2-110520-R90302A				Units: µg/L		Analysis Date: 5/20/2011 11:56 PM		
Client ID:		Run ID: VMS6_110520B		SeqNo: 1631150		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.03	1.0	20	0	95.2	80-120	19.67	3.31	30	
Ethylbenzene	18.41	1.0	20	0	92	75-125	18.59	0.973	30	
m,p-Xylene	36.42	2.0	40	0	91	75-130	36.98	1.53	30	
o-Xylene	18.21	1.0	20	0	91	80-120	18.37	0.875	30	
Toluene	18.94	1.0	20	0	94.7	75-120	19.18	1.26	30	
Xylenes, Total	54.63	2.0	60	0	91	75-130	55.35	1.31	30	

MS		Sample ID: 1105483-14A MS				Units: µg/Kg		Analysis Date: 5/21/2011 09:05 AM		
Client ID:		Run ID: VMS6_110520B		SeqNo: 1631247		Prep Date:		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1887	100	2000	0	94.4	75-125	0			
Ethylbenzene	1782	200	2000	0	89.1	75-125	0			
m,p-Xylene	3553	200	4000	0	88.8	80-125	0			
o-Xylene	1776	100	2000	0	88.8	75-125	0			
Toluene	1834	150	2000	0	91.7	70-125	0			
Xylenes, Total	5329	300	6000	0	88.8	75-125	0			

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

Client: HRL Compliance Solutions
Work Order: 1105413
Project: Black Hills Wagon Tracks 12-8 11-175 5/16/11

QC BATCH REPORT

Batch ID: **R90302A** Instrument ID **VMS6** Method: **SW8260**

MSD		Sample ID: 1105483-14A MSD			Units: µg/Kg		Analysis Date: 5/21/2011 09:30 AM			
Client ID:		Run ID: VMS6_110520B			SeqNo: 1631248		Prep Date:		DF: 100	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1812	100	2000	0	90.6	75-125	1887	4.06	30	
Ethylbenzene	1707	200	2000	0	85.4	75-125	1782	4.3	30	
m,p-Xylene	3402	200	4000	0	85	80-125	3553	4.34	30	
o-Xylene	1703	100	2000	0	85.2	75-125	1776	4.2	30	
Toluene	1762	150	2000	0	88.1	70-125	1834	4	30	
Xylenes, Total	5105	300	6000	0	85.1	75-125	5329	4.29	30	

The following samples were analyzed in this batch: 1105413-01A

Client: HRL Compliance Solutions
Work Order: 1105413
Project: Black Hills Wagon Tracks 12-8 11-175 5/16/11

QC BATCH REPORT

Batch ID: **33390** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK	Sample ID: MBLK-33390-33390	Units: mg/Kg	Analysis Date: 5/19/2011 03:00 PM							
Client ID:	Run ID: WETCHEM_110519E	SeqNo: 1629980	Prep Date: 5/18/2011 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	ND	0.49								

LCS	Sample ID: LCS-33390-33390	Units: mg/Kg	Analysis Date: 5/19/2011 03:00 PM							
Client ID:	Run ID: WETCHEM_110519E	SeqNo: 1629978	Prep Date: 5/18/2011 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.754	0.50	1.984	0	88.4	75-110	0			

LCSD	Sample ID: LCSD-33390-33390	Units: mg/Kg	Analysis Date: 5/19/2011 03:00 PM							
Client ID:	Run ID: WETCHEM_110519E	SeqNo: 1629979	Prep Date: 5/18/2011 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.791	0.49	1.969	0	91	75-110	1.754	2.11	20	

MS	Sample ID: 1105413-01B MS	Units: mg/Kg	Analysis Date: 5/19/2011 03:00 PM							
Client ID: Pit Bottom	Run ID: WETCHEM_110519E	SeqNo: 1629976	Prep Date: 5/18/2011 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.572	0.49	1.946	0	80.8	60-130	0			

MSD	Sample ID: 1105413-01B MSD	Units: mg/Kg	Analysis Date: 5/19/2011 03:00 PM							
Client ID: Pit Bottom	Run ID: WETCHEM_110519E	SeqNo: 1629977	Prep Date: 5/18/2011 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.661	0.50	1.992	0	83.4	60-130	1.572	5.53	30	

The following samples were analyzed in this batch: 1105413-01B

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

Client: HRL Compliance Solutions
Work Order: 1105413
Project: Black Hills Wagon Tracks 12-8 11-175 5/16/11

QC BATCH REPORT

Batch ID: R90150 Instrument ID WETCHEM Method: SW9045D

DUP		Sample ID: 1105413-01B DUP				Units: s.u.		Analysis Date: 5/17/2011 12:40 PM		
Client ID: Plt Bottom		Run ID: WETCHEM_110517F				SeqNo: 1627711		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	9.45	0	0	0	0	0-0	9.45	0	20	

DUP		Sample ID: 1105413-02A DUP				Units: s.u.		Analysis Date: 5/17/2011 12:40 PM		
Client ID: BKGD 1		Run ID: WETCHEM_110517F				SeqNo: 1627712		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.02	0	0	0	0	0-0	8.02	0	20	

The following samples were analyzed in this batch:

1105413-01B	1105413-02A
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Client: HRL Compliance Solutions
Work Order: 1105413
Project: Black Hills Wagon Tracks 12-8 11-175 5/16/11

QC BATCH REPORT

Batch ID: **R90189** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS1-R90189	Units: % of sample	Analysis Date: 5/17/2011 02:12 PM							
Client ID:	Run ID: MOIST_110517C	SeqNo: 1628602	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-R90189	Units: % of sample	Analysis Date: 5/17/2011 02:12 PM							
Client ID:	Run ID: MOIST_110517C	SeqNo: 1628598	Prep Date: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	99.99	0.050	100	0	100	99.5-100.5	0			

DUP	Sample ID: 1105412-01B DUP	Units: % of sample	Analysis Date: 5/17/2011 02:12 PM							
Client ID:	Run ID: MOIST_110517C	SeqNo: 1628588	Prep Date: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	17.09	0.050	0	0	0	0-0	17.05	0.234	20	

DUP	Sample ID: 1105413-04A DUP	Units: % of sample	Analysis Date: 5/17/2011 02:12 PM							
Client ID: BKGD 3	Run ID: MOIST_110517C	SeqNo: 1628596	Prep Date: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	3.16	0.050	0	0	0	0-0	3.04	3.87	20	

The following samples were analyzed in this batch:

1105413-01B	1105413-02A	1105413-03A
1105413-04A		

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



ALS Laboratory Group
 225 Commerce Drive, Fort Collins, Colorado 80524
 TF: (900) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 2026b

WORKORDER # **1105413**

PROJECT NAME: **Black Hills Wagon Trail 12-8** PROJECT No. **11-175** *Tracks*

COMPANY NAME: **HRL COMPLIANCE SOLUTIONS Inc.**

SEND REPORT TO: **KRIS ROWE**

ADDRESS: **744 HORIZON CT SUITE 140**

CITY / STATE / ZIP: **GRAND JUNCTION CO 81506**

PHONE: **970-243-3271**

FAX: **970-243-3280**

E-MAIL: **KROWE@HRLCOMP.COM**

SAMPLER: **KRIS ROWE**

SITE ID: _____

EDD FORMAT: _____

PURCHASE ORDER: _____

BILL TO COMPANY: _____

INVOICE ATTN TO: _____

ADDRESS: _____

CITY / STATE / ZIP: _____

PHONE: _____

FAX: _____

E-MAIL: _____

Lab ID	Sample ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	DATE							By Lab or Return to Client			
								TURNAROUND	DATE	5/16/2011	STD	DISPOSAL	PAGE	1		of	1	
61	Pit Bottom	SO	5/16/2011	13:00	3			TEPH	X	X	X	X	SEMI VOL - PAH	910-1 TOTAL METALS	SAR / EC / pH	ARSENIC		
62	BKGD 1	SO	5/16/2011	13:10	2				X	X	X	X						
63	BKGD 2	SO	5/16/2011	13:20	1													
64	BKGD 3	SO	5/16/2011	13:30	1													

*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: *Report Barium as total Barium and do not run Boron*

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

RELINQUISHED BY: _____ RECEIVED BY: _____

RELINQUISHED BY: _____ RECEIVED BY: _____

RELINQUISHED BY: _____ RECEIVED BY: _____

RELINQUISHED BY: _____ RECEIVED BY: _____

SIGNATURE: *Kris Rowe* PRINTED NAME: **Kris Rowe** DATE: **5/16/2011** TIME: **17:00**

RELINQUISHED BY: _____ RECEIVED BY: **Diane F Shaw** DATE: **5/17/11** TIME: **1000**

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 17-May-11 10:00

Work Order: 1105413

Received by: DS

Checklist completed by *Diane Shaw* 17-May-11
eSignature Date

Reviewed by: *Ana Preston* 18-May-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):	<input type="text" value="5.2 c"/> <input type="text"/>		
Cooler(s)/Kit(s):	<input type="text"/>		
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:	<input type="text"/>		

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction: