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**SourceGas, LLC Wolf Creek #12 Dehydration Building Demolition
Site Characterization Report
HCSI Job #13-113**

Introduction

This comprehensive report presents the site background, characterization, and summary for the Wolf Creek #12 Dehydration Building (dehy building) Demolition Site Characterization. Field work was conducted on June 8 through June 26, 2013. The purpose of the site characterization was to define the lateral and vertical extent of possible soil and/or groundwater contamination within, and around the immediate area of the former Wolf Creek #12 dehy building and associated above ground storage tanks (AST).

The Wolf Creek #12 pad is located in the NW SE quarter quarter of Sec. 35, Township 8 South, Range 90 West in the White River National Forest of Pitkin County, Colorado (Latitude 39.314452°, Longitude -107.404040°).

Background

HRL Compliance Solutions, Inc. (HCSI) was contacted by SourceGas, LLC to conduct a site characterization pertaining to the demolition of the Wolf Creek #12 dehy building and associated AST's. The demolished building and equipment are to be upgraded at a later date. The chemicals of concern associated with the facility include glycol, methanol, and produced water.

Site Characterization

On June 8 and 9, 2013 HCSI personnel mobilized to the site with a CME 55 track drill rig to initiate drilling of fourteen (14) vertical boreholes to an approximate depth of 12 feet below ground surface (bgs) or until groundwater was encountered. Eleven (11) boreholes were located within close proximity (approximately 2 to 10 feet) outside of the perimeter of the pre-existing dehy building, and three (3) boreholes were located within the footprint of the dehy building.

Of the fourteen (14) boreholes drilled, six (6) (BH01/PZ01, BH02/PZ02, BH06/PZ03, BH10/PZ04, BH11/PZ05, and BH12/PZ06) encountered groundwater at depths ranging from approximately 2.5 to 6 feet bgs. These six (6) boreholes were converted to temporary piezometers so groundwater could be collected for analysis. Borehole/piezometer locations are presented in Appendix A, Figure 1.

Drilling was performed utilizing a CME 55 track drill rig equipped with a 4.25 inch diameter solid stem augers. A two (2) foot split spoon, was utilized for the collection of soil samples at two (2) foot intervals (0-2', 2-4', etc...) and field screened utilizing a handheld Photoionization Detector (PID). The highest PID reading of 46.5 ppm was observed in BH02/PZ02 in the 0-2 feet sample interval bgs. Two (2) soil samples from each boring were collected. Soil samples from the sample interval with the highest PID reading and the terminus (bottom of borehole) were

submitted to ALS Environmental in Holland, MI on June 10, 2013 for analysis of diesel range organics (DRO), gasoline range organics (GRO), glycols, and methanol. Field screen results are presented in Appendix B, Table 1.

On June 10, 2013, HCSI mobilized to the site to collect groundwater samples from six (6) temporary piezometers (BH01/PZ01 - BH12/PZ06). Groundwater samples were collected using a peristaltic pump. Groundwater was present as a 'perched' water table and was encountered at a depth of five (5) to six (6) feet bgs. Groundwater samples were submitted to ALS Environmental in Holland, MI on June 10, 2013 and analyzed for benzene-toluene-ethylbenzene-xylenes (BTEX), DRO, GRO, glycols, and methanol. Field parameters for groundwater quality were also collected using a YSI 556 multi-parameter water quality meter and are presented in Appendix B, Table 2.

On June 21, 2013 HCSI mobilized to the site to re-sample the six (6) previously installed piezometers (BH01/PZ01 - BH12/PZ06). During this sampling event, BH10/PZ04 was dry and was not sampled. A down-gradient seep sample (DG Seep 01) was also collected. The seep sample was collected to the north, at the toe of #12 well pad where water exits the existing culvert (Appendix A, Figure 1). The velocity of the water exiting the culvert measured an average of 0.23 ft/s and a maximum of 0.30 ft/s. Water quality field parameters were collected using a YSI 556 multi-parameter water quality meter. Samples were submitted to ALS Environmental in Holland, MI on June 24, 2013 for the analysis of BTEX and glycols for BH01/PZ01 - BH12/PZ06, and DRO, GRO, glycols, methanol, metals and BTEX for DG Seep 01.

On June 24 and 25, 2013 HCSI mobilized to the site to drill ten (10) additional soil borings (BH15 - BH23, and BH16A) utilizing a 4.25 inch hollow stem auger and a 2 foot split spoon. Three (3) additional piezometers (BH20/PZ07 - BH22/PZ09) were also installed. While drilling, groundwater was present in these boreholes as a 'perched' water table and was encountered at a depth of approximately five (5) to six (6) feet bgs. Soil samples from these boreholes were collected at various depths after field screening using a PID and a Dexsil PetroFlag® hydrocarbon test unit. PID readings ranged from 0.0 ppm (BH20/PZ07 6'-8') to 444 ppm (BH16). PetroFlag® readings ranged from 0.0 ppm (BH20/PZ07) to 450 ppm (BH17 4'-6'). The velocity of the water exiting the culvert was again measured at this time and measured an average of 0.23 ft/s and a maximum of 0.30 ft/s. Soil samples were submitted to ALS Environmental in Holland, MI on June 25, 2013 and were analyzed for DRO, GRO, glycols, methanol, and BTEX.

On June 26, 2013 HCSI mobilized to the site to collect groundwater samples from the newly installed piezometers (BH20/PZ07, BH21/PZ08, and BH22/PZ09). Samples were collected utilizing a peristaltic pump and water quality field parameters were collected utilizing a YSI 556 multi-parameter meter. BH20/PZ07 was dry and was not sampled. BH22/PZ09 was sampled but did not provide enough water for water quality field parameters. Samples were submitted to ALS Environmental in Holland, MI on June 26, 2013 for the analysis of DRO, GRO, glycols, methanol, and BTEX.

Conclusions

This site characterization revealed that there are impacts to both soil and water which exceed either or both of the Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1 and the Colorado Department of Public Health and Environment (CDPHE) Colorado Soil Evaluation Values (CSEV) Table 1 standards.

Water samples BH01/PZ01, BH02/PZ02, BH06/PZ03, BH11/PZ05, and BH12/PZ06, collected on June 10, 2012 exceed the CSEV standard of 14 mg/L for ethylene glycol. Water samples collected on June 21, 2013 from these same piezometer sample locations were below the CSEV standard of 14 mg/L for ethylene glycol.

Samples from BH01/PZ01, BH02/PZ02, BH06/PZ03, BH11/PZ05, BH21/PZ08, and BH22/PZ09 exceed both the COGCC and CSEV standard of 0.005 mg/L for benzene.

Soil samples BH01/PZ01 (2'-4' and 4'-6' depth) and BH02/PZ02 (0'-2' depth) exceed the COGCC standard of 500 mg/Kg for Total Petroleum Hydrocarbons (TPH).

Table 3 and Table 4 of Appendix C present the analytical results for both soil and groundwater samples.

Refer to Appendix D for soil boring logs.

Refer to Appendix E for analytical laboratory reports.

HCSI recommends the excavation of soils below the pre-existing dehy building footprint to depths that comply with COGCC allowable standards for TPH. Upon completion of remediation, HCSI recommends continued sampling of the piezometers (if water is present). After four (4) quarters of analytical data indicating results less than COGCC Table 910-1 and CSEV Table 1 allowable standards for groundwater, closure will be requested.

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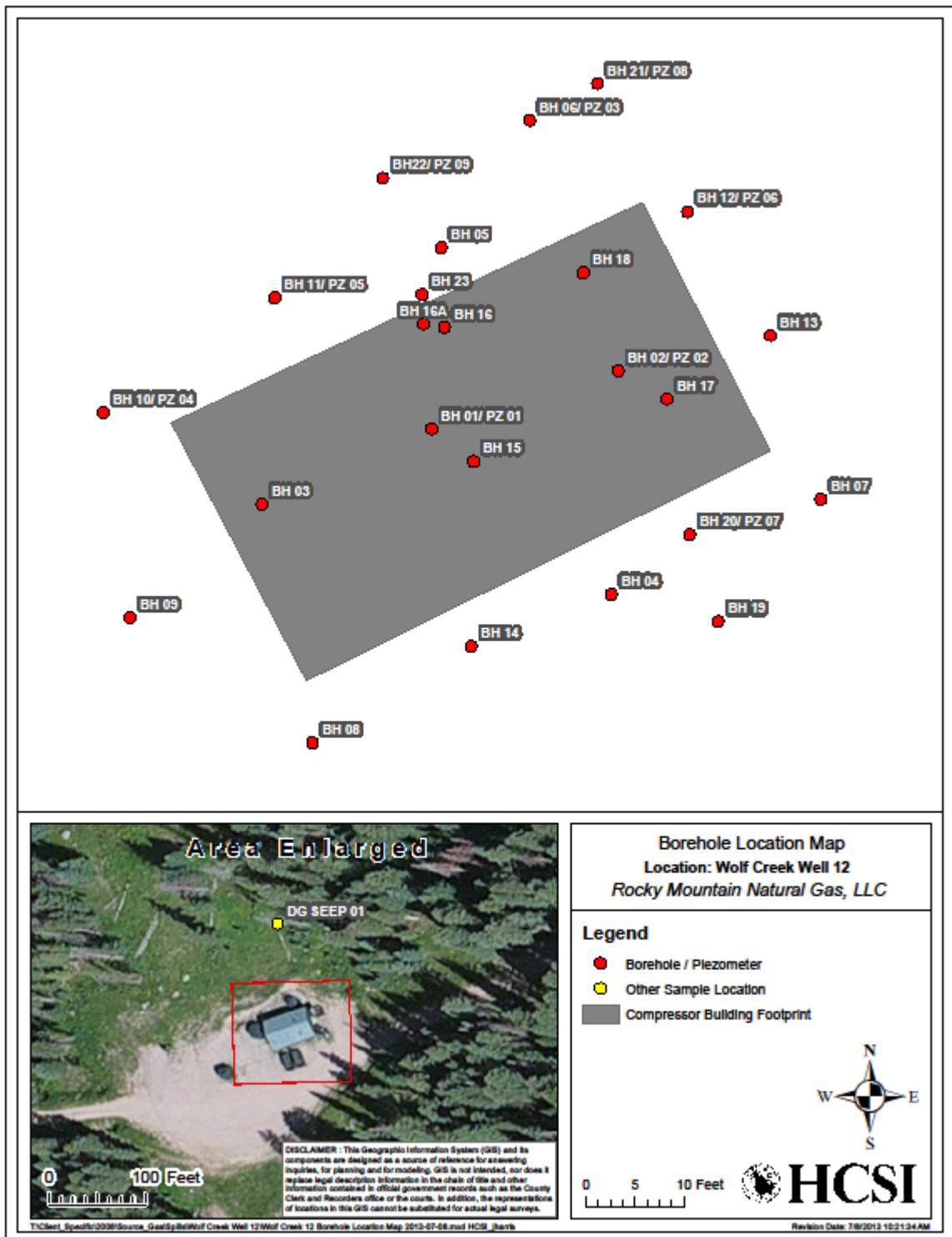
Appendices:

- Appendix A: Borehole Location Map
- Appendix B: Table 1 and Table 2
- Appendix C: Table 3 and Table 4
- Appendix D: Soil Boring Logs
- Appendix E: Analytical Laboratory Reports

Appendix A

Borehole Location Map

Figure1. Borehole, Piezometer, and Sample Locations.



Appendix B

**Table 1 Field Screen Results
And
Table 2 Water Quality Field Parameters**

Table 1. Field Screen Results.

SourceGas Wolf Creek #12 Dehydration Building Demolition Field Screen Results									
Location	Latitude	Longitude	Date	Depth (ft.) from	Depth (ft.) to	PID Reading (ppm)	PetroFlag Reading (ppm)	Sampled (Y/N)	Notes
BH01/PZ01	39.314465	-107.404049	6/8/2013	0	2	9.2	N/A	N	-
BH01/PZ01	39.314465	-107.404049	6/8/2013	2	4	16.3	N/A	Y	Water @ 4 ft.
BH01/PZ01	39.314465	-107.404049	6/8/2013	4	6	15.2	N/A	Y	-
BH02/PZ02	39.314482	-107.403982	6/8/2013	0	2	46.5	N/A	Y	-
BH02/PZ02	39.314482	-107.403982	6/8/2013	2	4	6.9	N/A	N	-
BH02/PZ02	39.314482	-107.403982	6/8/2013	4	6	11.8	N/A	N	Water @ 6 ft.
BH02/PZ02	39.314482	-107.403982	6/8/2013	6	8	7.3	N/A	Y	-
BH03	39.314442	-107.404109	6/8/2013	0	2	0.0	N/A	N	-
BH03	39.314442	-107.404109	6/8/2013	2	4	3.8	N/A	N	-
BH03	39.314442	-107.404109	6/8/2013	4	6	6.1	N/A	Y	-
BH03	39.314442	-107.404109	6/8/2013	6	8	3.1	N/A	N	-
BH03	39.314442	-107.404109	6/8/2013	8	10	3.0	N/A	N	-
BH03	39.314442	-107.404109	6/8/2013	10	12	7.2	N/A	Y	-
BH04	39.314420	-107.403982	6/8/2013	0	2	22.1	N/A	Y	-
BH04	39.314420	-107.403982	6/8/2013	2	4	2.6	N/A	N	-
BH04	39.314420	-107.403982	6/8/2013	4	6	2.4	N/A	N	-
BH04	39.314420	-107.403982	6/8/2013	6	8	2.1	N/A	N	-
BH04	39.314420	-107.403982	6/8/2013	8	10	2.0	N/A	N	-
BH04	39.314420	-107.403982	6/8/2013	10	12	1.0	N/A	Y	-
BH05	39.314516	-107.404047	6/8/2013	0	2	1.5	N/A	N	-
BH05	39.314516	-107.404047	6/8/2013	2	4	2.9	N/A	N	-
BH05	39.314516	-107.404047	6/8/2013	4	6	4.2	N/A	N	-
BH05	39.314516	-107.404047	6/8/2013	6	8	3.6	N/A	N	-
BH05	39.314516	-107.404047	6/8/2013	8	10	4.5	N/A	Y	-
BH05	39.314516	-107.404047	6/8/2013	10	12	4.8	N/A	Y	-
BH06/PZ03	39.314552	-107.404016	6/8/2013	0	2	3.6	N/A	N	-
BH06/PZ03	39.314552	-107.404016	6/8/2013	2	4	4.2	N/A	Y	-
BH06/PZ03	39.314552	-107.404016	6/8/2013	4	6	2.2	N/A	Y	Water @ 5 ft.
BH07	39.314448	-107.403907	6/8/2013	0	2	0.6	N/A	N	-
BH07	39.314448	-107.403907	6/8/2013	2	4	1.2	N/A	N	-
BH07	39.314448	-107.403907	6/8/2013	4	6	1.4	N/A	N	-
BH07	39.314448	-107.403907	6/8/2013	6	8	3.2	N/A	Y	-
BH07	39.314448	-107.403907	6/8/2013	8	10	3.1	N/A	N	-
BH07	39.314448	-107.403907	6/8/2013	10	12	1.9	N/A	Y	-
BH08	39.314376	-107.404089	6/9/2013	0	2	0.3	N/A	N	-
BH08	39.314376	-107.404089	6/9/2013	2	4	1.6	N/A	N	-
BH08	39.314376	-107.404089	6/9/2013	4	6	3.1	N/A	N	-
BH08	39.314376	-107.404089	6/9/2013	6	8	2.8	N/A	N	-
BH08	39.314376	-107.404089	6/9/2013	8	10	3.6	N/A	Y	-
BH08	39.314376	-107.404089	6/9/2013	10	12	2.5	N/A	Y	-
BH09	39.314410	-107.404156	6/9/2013	0	2	3.8	N/A	Y	-
BH09	39.314410	-107.404156	6/9/2013	2	4	1.4	N/A	N	-
BH09	39.314410	-107.404156	6/9/2013	4	6	3.0	N/A	N	-
BH09	39.314410	-107.404156	6/9/2013	6	8	1.6	N/A	N	-
BH09	39.314410	-107.404156	6/9/2013	8	10	0.5	N/A	N	-
BH09	39.314410	-107.404156	6/9/2013	10	12	1.1	N/A	Y	-
BH10/PZ04	39.314467	-107.404168	6/9/2013	0	2	2.6	N/A	Y	-
BH10/PZ04	39.314467	-107.404168	6/9/2013	2	4	4.1	N/A	Y	Water @ 2.5 ft.
BH11/PZ05	39.314500	-107.404107	6/9/2013	0	2	3.7	N/A	N	-
BH11/PZ05	39.314500	-107.404107	6/9/2013	2	4	4.0	N/A	N	-
BH11/PZ05	39.314500	-107.404107	6/9/2013	4	6	4.3	N/A	Y	-
BH11/PZ05	39.314500	-107.404107	6/9/2013	6	8	8.2	N/A	Y	Water @ 7 ft.
BH12/PZ06	39.314528	-107.403958	6/9/2013	0	2	3.3	N/A	N	-
BH12/PZ06	39.314528	-107.403958	6/9/2013	2	4	4.8	N/A	Y	-
BH12/PZ06	39.314528	-107.403958	6/9/2013	4	6	5.8	N/A	Y	Water @ 4.5 ft.
BH13	39.314494	-107.403927	6/9/2013	0	2	2.8	N/A	N	-
BH13	39.314494	-107.403927	6/9/2013	2	4	1.4	N/A	N	-
BH13	39.314494	-107.403927	6/9/2013	4	6	6.1	N/A	Y	-
BH13	39.314494	-107.403927	6/9/2013	6	8	3.7	N/A	Y	-

Table 1. Field Screen Results continued...

SourceGas Wolf Creek #12 Dehydration Building Demolition Field Screen Results									
Location	Latitude	Longitude	Date	Depth (ft.) from	Depth (ft.) to	PID Reading (ppm)	PetroFlag Reading (ppm)	Sampled (Y/N)	Notes
BH14	39.314404	-107.404032	6/9/2013	0	2	3.2	N/A	Y	-
BH14	39.314404	-107.404032	6/9/2013	2	4	2.9	N/A	N	-
BH14	39.314404	-107.404032	6/9/2013	4	6	3.1	N/A	N	-
BH14	39.314404	-107.404032	6/9/2013	6	8	1.6	N/A	N	-
BH14	39.314404	-107.404032	6/9/2013	8	10	1.0	N/A	N	-
BH14	39.314404	-107.404032	6/9/2013	10	12	2.8	N/A	Y	-
BH15	39.314456	-107.404033	6/24/2013	3	4.5	53.0	N/A	N	-
BH15	39.314456	-107.404033	6/24/2013	8	10	3.6	30.0	Y	-
BH16	39.314493	-107.404045	6/24/2013	4	6	444.0	N/A	N	-
BH16	39.314493	-107.404045	6/24/2013	8	10	6.8	61.0	Y	-
BH16A	39.314494	-107.404053	6/24/2013	2	3	27.3	N/A	Y	-
BH17	39.314475	-107.403964	6/24/2013	4	6	100.0	450.0	N	Water @ 6 ft.
BH17	39.314475	-107.403964	6/24/2013	8	10	4.6	16.0	Y	-
BH18	39.314510	-107.403996	6/24/2013	3	5	22.4	N/A	N	-
BH18	39.314510	-107.403996	6/24/2013	8	10	4.7	5.0	Y	-
BH19	39.314413	-107.403943	6/25/2013	2	4	186.0	N/A	N	-
BH19	39.314413	-107.403943	6/25/2019	4	6	82.0	N/A	N	-
BH19	39.314413	-107.403943	6/25/2025	6	8	93.3	N/A	N	-
BH19	39.314413	-107.403943	6/25/2031	8	10	1.0	N/A	N	Erratic PID readings.
BH20/PZ07	39.314437	-107.403954	6/25/2013	2	4	0.8	231.0	Y	-
BH20/PZ07	39.314437	-107.403954	6/25/2019	4	6	2.0	0.0	N	-
BH20/PZ07	39.314437	-107.403954	6/25/2025	6	8	0.0	N/A	N	-
BH21/PZ08	39.314563	-107.403992	6/25/2013	2	4	75.6	N/A	N	-
BH21/PZ08	39.314563	-107.403992	6/25/2019	4	6	45.0	N/A	N	Water @ 4-5 ft.
BH21/PZ08	39.314563	-107.403992	6/25/2025	6	8	0.9	0.0	Y	-
BH22/PZ09	39.314535	-107.404069	6/25/2013	2	4	31.3	N/A	N	-
BH22/PZ09	39.314535	-107.404069	6/25/2019	4	6	5.6	177.0	Y	-
BH22/PZ09	39.314535	-107.404069	6/25/2025	6	8	29.0	29.0	Y	-
BH23	39.314502	-107.404054	6/25/2013	6	8	4.7	N/A	Y	-
BH23	39.314502	-107.404054	6/25/2019	10	12	2.8	N/A	Y	-
BH23	39.314502	-107.404054	6/25/2025	15	17	1.4	N/A	N	-

Table 2. Water Quality Field Parameters.

SourceGas Wolf Creek #12 Dehydration Building Demolition Site Characterization																							
Sample ID	Latitude	Longitude	Date	Time	Depth to Water (ft.) From TOC	Depth to Water (ft.) Below Ground Surface	Depth of Well (ft.)	°C	mS/cm ^c	mS/cm	Ω*cm	TDS g/L	Sal	DO %	DO mg/L	pH	pHMV	ORP	Flow Velocity (ft./s) Avg.	Flow Velocity (ft./s) Max	Sampled (Y/N)	Notes	
BH01/PZ01	39.314465	-107.404049	6/10/2013	1257	4.38	not measured	5.04	14.16	3.596	2.853	350.57	2.334	1.90	26.3	2.67	5.80	14.9	70.9	N/A	N/A	Y	-	
BH01/PZ01	39.314465	-107.404049	6/21/2013	1444	3.80	not measured	5.04	15.13	2.797	2.269	440.65	1.818	1.46	49.1	4.88	4.87	61.7	83.4	N/A	N/A	Y	-	
BH01/PZ01	39.314465	-107.404049	6/25/2013	N/A	4.22	not measured	5.04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N	-	
BH01/PZ01	39.314465	-107.404049	6/26/2013	1243	4.40	4.08	5.04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N	-
BH02/PZ02	39.314482	-107.403982	6/10/2013	1215	3.32	not measured	6.66	15.03	6.635	5.376	185.96	4.302	3.64	22.3	2.19	6.59	23.0	-99.0	N/A	N/A	Y	-	
BH02/PZ02	39.314482	-107.403982	6/21/2013	1502	3.20	not measured	6.66	14.05	4.239	3.353	298.25	2.756	2.27	21.4	2.18	6.23	-15.8	-71.5	N/A	N/A	Y	-	
BH02/PZ02	39.314482	-107.403982	6/25/2013	N/A	3.40	not measured	6.66	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N	-	
BH02/PZ02	39.314482	-107.403982	6/26/2013	1246	3.56	3.56	6.66	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N	-
BH06/PZ03	39.314552	-107.404016	6/10/2013	1318	4.10	not measured	4.92	12.29	2.626	1.990	502.47	1.706	1.37	32.1	3.40	5.73	18.6	91.3	N/A	N/A	Y	-	
BH06/PZ03	39.314552	-107.404016	6/21/2013	1514	4.22	not measured	4.92	14.13	2.140	1.695	590.14	1.389	1.10	26.1	2.65	4.90	45.2	83.5	N/A	N/A	Y	-	
BH06/PZ03	39.314552	-107.404016	6/25/2013	N/A	not measured	3.53	4.92	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N	-	
BH06/PZ03	39.314552	-107.404016	6/26/2013	1252	4.31	3.56	4.92	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N	-	
BH10/PZ04	39.314467	-107.404168	6/10/2013	1325	2.52	not measured	5.06	16.08	1.377	1.142	875.49	0.895	0.69	20.6	2.01	6.24	-5.5	-63.4	N/A	N/A	Y	-	
BH10/PZ04	39.314467	-107.404168	6/21/2013	1530	4.62	not measured	5.06	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N	Not enough water for sample or parameters.	
BH10/PZ04	39.314467	-107.404168	6/25/2013	N/A	DRY	DRY	5.06	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	DRY	-	
BH10/PZ04	39.314467	-107.404168	6/26/2013	1255	DRY	DRY	5.06	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N	DRY	
BH11/PZ05	39.314500	-107.404107	6/10/2013	1345	6.22	not measured	9.94	13.65	3.130	2.448	408.51	2.039	1.65	28.7	2.96	4.66	70.8	119.9	N/A	N/A	Y	-	
BH11/PZ05	39.314500	-107.404107	6/21/2013	1541	6.32	not measured	9.94	11.9	2.181	1.637	610.81	1.417	1.12	18.1	1.92	5.3	29.2	162	N/A	N/A	Y	-	
BH11/PZ05	39.314500	-107.404107	6/25/2013	N/A	4.85	not measured	9.94	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N	-	
BH11/PZ05	39.314500	-107.404107	6/26/2013	1250	6.50	4.78	9.94	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N	-	
BH12/PZ06	39.314528	-107.403958	6/10/2013	1405	5.26	not measured	7.88	12.87	3.328	2.558	390.93	2.162	1.75	17.6	1.84	6.24	-6.0	-64.1	N/A	N/A	Y	-	
BH12/PZ06	39.314528	-107.403958	6/21/2013	1600	5.28	not measured	7.88	14.94	2.547	2.060	485.30	1.654	1.32	17.3	1.72	6.21	-15.1	-22.9	N/A	N/A	Y	-	
BH12/PZ06	39.314528	-107.403958	6/25/2013	N/A	4.40	not measured	7.88	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N	-	
BH12/PZ06	39.314528	-107.403958	6/26/2013	1248	5.46	4.51	7.88	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N	-	
BH20/PZ07	39.31444	-107.40395	6/26/2013	1115	DRY	DRY	8.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	DRY	-	
BH21/PZ08	39.31456	-107.40399	6/26/2013	1152	4.31	3.91	8.34	12.24	1.905	1.442	693.10	1.237	0.97	29.2	3.05	4.77	52.6	146	N/A	N/A	Y	-	
BH22/PZ09	39.31453	-107.40407	6/26/2013	1226	8.32	7.60	9.36	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Y	Sampled but not enough water for parameters.	
DG Seep 01	39.31471	-107.40407	6/21/2013	1344	N/A	N/A	N/A	10.41	0.107	0.077	13040	0.069	0.05	63.2	7.03	6.68	-36.5	40.7	0.23	0.30	Y	Flow measured apx. 2 feet north of culvert exit.	
DG Seep 01	39.31471	-107.40407	6/25/2013	1000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.28	0.30	N	Flow measured apx. 2 feet north of culvert exit.

Appendix C

**Table 3 Soil Analytical Results
And
Table 4 Water Analytical Results**

Table 3. Soil Analytical Lab Results.

Soil Analysis		Exceeds Standard			Method	SW8015M [DR_8015_S]	SW8015 [GRO_8015_S]	SW8015M [GCF_ID_8015_S]	SW8015M [GCF_ID_8015_S]	SW8015M [GCF_ID_8015_S]	A2540 G [MOISTURE]	SW8260 [VOC_8260_S]	Toluene	Xylenes, Total						
						Analyte	DRO (C10-C28)	GRO (C6-C10)	Ethylene glycol	Methanol	Propylene glycol	Triethylene glycol	Moisture	Benzene	Ethylbenzene	m,p-Xylene	o-Xylene			
N/A = Not Applicable	NT = Not Tested		Units	mg/Kg-dry	mg/Kg-dry	mg/Kg-dry	mg/Kg-dry	mg/Kg-dry	mg/Kg-dry	% of sample	mg/Kg-dry	mg/Kg-dry	mg/Kg-dry	mg/Kg-dry	mg/Kg-dry	mg/Kg-dry	mg/Kg-dry			
				COGCC Table 910-1 Standards	500	500	N/A	N/A	N/A	N/A	0.17	100	N/A	N/A	85	175				
Sample ID	Well #	Latitude	Longitude	Matrix	Sample Date	WO #	CSEV Standards	N/A	N/A	81000	N/A	N/A	N/A	N/A	1.6	7.8	N/A	N/A	24000	1000
BH01/PZ01 2'-4'	12	39.314465	-107.404049	Soil	6/8/2013	1306367-01		830	<3.6	110	510	<7.1	1600	30	NT	NT	NT	NT	NT	NT
BH01/PZ01 4'-6'	12	39.314465	-107.404049	Soil	6/8/2013	1306367-02		780	<3.7	140	540	<7.4	2300	32	NT	NT	NT	NT	NT	NT
BH02/PZ02 0'-2'	12	39.314482	-107.403982	Soil	6/8/2013	1306367-03		5600	<2.9	87	42	<5.8	21000	13	NT	NT	NT	NT	NT	NT
BH02/PZ02 6'-8'	12	39.314482	-107.403982	Soil	6/8/2013	1306367-04		290	<3.1	23	<6.2	<6.2	1400	19	NT	NT	NT	NT	NT	NT
BH03 4'-6'	12	39.314442	-107.404109	Soil	6/8/2013	1306367-05		100	<3.0	<5.9	<5.9	<5.9	<5.9	15	NT	NT	NT	NT	NT	NT
BH03 10'-12'	12	39.314442	-107.404109	Soil	6/8/2013	1306367-06		35	<3.1	<6.2	<6.2	<6.2	<6.2	19	NT	NT	NT	NT	NT	NT
BH04 0'-2'	12	39.314420	-107.403982	Soil	6/8/2013	1306367-07		390	40	<5.9	2700	<5.9	<5.9	15	NT	NT	NT	NT	NT	NT
BH04 10'-12'	12	39.314420	-107.403982	Soil	6/8/2013	1306367-08		28	<3.0	130	16	<6.0	<6.0	17	NT	NT	NT	NT	NT	NT
BH05 8'-12'	12	39.314516	-107.404047	Soil	6/8/2013	1306367-09		78	<3.4	39	<6.7	<6.7	<6.7	25	NT	NT	NT	NT	NT	NT
BH05 10'-12'	12	39.314516	-107.404047	Soil	6/8/2013	1306367-10		49	<3.2	53	<6.4	<6.4	<6.4	22	NT	NT	NT	NT	NT	NT
BH06/PZ03 2'-4'	12	39.314552	-107.404016	Soil	6/8/2013	1306367-11		43	<3.0	63	<6.0	<6.0	<6.0	16	NT	NT	NT	NT	NT	NT
BH06/PZ03 4'-6'	12	39.314552	-107.404016	Soil	6/8/2013	1306367-12		68	<3.3	71	<6.6	<6.6	<6.6	24	NT	NT	NT	NT	NT	NT
BH07 6'-8'	12	39.314448	-107.403907	Soil	6/8/2013	1306367-13		44	<3.2	<6.4	<6.4	<6.4	<6.4	22	NT	NT	NT	NT	NT	NT
BH07 10'-12'	12	39.314448	-107.403907	Soil	6/8/2013	1306367-14		35	<3.1	<6.3	<6.3	<6.3	<6.3	20	NT	NT	NT	NT	NT	NT
BH08 8'-10'	12	39.314376	-107.404089	Soil	6/9/2013	1306367-15		50	<3.1	<6.2	<6.2	<6.2	<6.2	19	NT	NT	NT	NT	NT	NT
BH08 10'-12'	12	39.314376	-107.404089	Soil	6/9/2013	1306367-16		24	<3.1	<6.2	<6.2	<6.2	<6.2	19	NT	NT	NT	NT	NT	NT
BH09 0'-2'	12	39.314410	-107.404156	Soil	6/9/2013	1306367-17		41	<3.0	<5.9	<5.9	<5.9	<5.9	16	NT	NT	NT	NT	NT	NT
BH09 10'-12'	12	39.314410	-107.404156	Soil	6/9/2013	1306367-18		27	<3.1	<6.2	<6.2	<6.2	<6.2	20	NT	NT	NT	NT	NT	NT
BH10/PZ04 0'-2'	12	39.314467	-107.404168	Soil	6/9/2013	1306367-19		53	<3.2	<6.4	<6.4	<6.4	<6.4	22	NT	NT	NT	NT	NT	NT
BH10/PZ04 2'-4'	12	39.314467	-107.404168	Soil	6/9/2013	1306367-20		91	<3.5	<7.0	<7.0	<7.0	<7.0	29	NT	NT	NT	NT	NT	NT
BH11/PZ05 4'-6'	12	39.314500	-107.404107	Soil	6/9/2013	1306367-21		200	<3.7	40	84	<7.5	120	33	NT	NT	NT	NT	NT	NT
BH11/PZ05 6'-8'	12	39.314500	-107.404107	Soil	6/9/2013	1306367-22		89	<3.5	<7.0	110	<7.0	210	29	NT	NT	NT	NT	NT	NT
BH12/PZ06 2'-4'	12	39.314528	-107.403958	Soil	6/9/2013	1306367-23		29	<2.8	<5.6	<5.6	<5.6	<5.6	11	NT	NT	NT	NT	NT	NT
BH12/PZ06 4'-6'	12	39.314528	-107.403958	Soil	6/9/2013	1306367-24		120	<3.5	<6.9	13	<6.9	<6.9	28	NT	NT	NT	NT	NT	NT
BH13 4'-6"	12	39.314494	-107.403927	Soil	6/9/2013	1306367-25		74	<3.2	<6.5	<6.5	<6.5	<6.5	23	NT	NT	NT	NT	NT	NT
BH13 6'-8'	12	39.314494	-107.403927	Soil	6/9/2013	1306367-26		38	<3.2	<6.5	<6.5	<6.5	<6.5	23	NT	NT	NT	NT	NT	NT
BH14 0'-2'	12	39.314404	-107.404032	Soil	6/9/2013	1306367-27		120	<2.9	<5.7	<5.7	<5.7	86	12	NT	NT	NT	NT	NT	NT
BH14 10'-12'	12	39.314404	-107.404032	Soil	6/9/2013	1306367-28		32	<3.0	<6.0	<6.0	<6.0	<6.0	17	NT	NT	NT	NT	NT	NT
BH15 8'-10'	12	39.314456	-107.404033	Soil	6/24/2013	13061065-01		26	<3.1	<6.2	<6.2	<6.2	<6.2	20	<0.037	<0.037	<0.075	<0.037	<0.037	<0.110
BH16 8.5'-9.5'	12	39.314493	-107.404045	Soil	6/24/2013	13061065-02		<5.1	<3.1	<6.2	<6.2	<6.2	<6.2	20	<0.037	<0.037	<0.075	<0.037	<0.037	<0.110
BH16A 2'-3'	12	39.314494	-107.404053	Soil	6/24/2013	13061065-05		39	<3.4	<6.8	<6.8	<6.8	&							

Table 4. Water Analytical Lab Results.

Appendix D

Soil Boring Logs

Well Summary

744 Horizon Court, Ste. 140
Grand Junction, CO 81501
970-243-3271

BH01/PZ01

Project: Wolf Creek #12 Demo
Location: Wolf Creek Pad #12
Date(s): 6/8/13
Contractor: HCSI
Rig Type: CME55
Drilling Method: 4" Solid Auger
Sample Type: Split spoon 2'

Well Name: BH01/PZ01
Total Depth: 6'
Elevation TOC:
Elevation Ground:
Latitude:
Longitude:
Logged By: ML

Page 1 of 1

Depth	Sample Interval	Recovery	Graphic Log Wet	Well Construction Log	Material Description
0	2.2				Ground Surface
	3.3				Green to brown clay, mod. moist stiff, high plasticity, odd odor, 9.2 ppm
	4.0				Brown to dk. red stiff clay, mod. moist, high plasticity, organic material, 16.3 ppm
Water	X	3.3	90% Clay	Native soil	Brown silty clay, wet, organic odor, bottom 6" mod moist, green clay, high plasticity, med. stiffness, organic odor.
	3.5				15.2 ppm
	4.4				
6					
8					
10					
12					
14					
16					
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Source
Gas 13-113

Well Summary

744 Horizon Court, Ste. 140
Grand Junction, CO 81501
970-243-3271

BH02/PZ02

Project: Wolf Creek #12 Demo
Location: Wolf Creek Pad #12
Date(s): 6/8/13
Contractor: HCSF
Rig Type: CMESS
Drilling Method: 4" Soli
Sample Type: Split Spoon 2'

Well Name: BH 2 / PZ 2
Total Depth: 8'
Elevation TOC:
Elevation Ground:
Latitude:
Longitude:
Logged By: ML

Page 1 of 1

Depth	Sample Interval	Recovery	Well Construction	Graphic Log	Material Description
0					Ground Surface
2	X 22.1	1/2	Native Soil	f.g. Sand	Green to gray, f.g., poorly sorted (no other sizes) sand, organic (heat) odor 46.5 ppm dry
4	20%				Brown to gray clay, med. moist, high plasticity, med. stiffness, organic odor (Not HC) 6.9 ppm
6	24.50%	1/2	Sand	Clay	Brown to dark gray Clay; 2" of wood chips, moist, No HC odor No staining, stiff, high plasticity 11.8 ppm
8	X 23.5	1/2	1/2		Brown to gray clay, moist, stiff, No odor/no staining, bottom 6" is green Stiff, high plasticity clay, 7.3 ppm
10					
12					
14					
16					
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Well Summary

744 Horizon Court, Ste. 140
Grand Junction, CO 81501
970-243-3271

Project: Wolf Creek Well #12
Location: Wolf Creek Well Pad #12
Date(s): 6/21/13
Contractor: HCSI
Rig Type: CMESS
Drilling Method: 4" Solid Auger
Sample Type: Split Spoon 2"

BH03
Well Name: BH3
Total Depth: 12'
Elevation TOC:
Elevation Ground:
Latitude:
Longitude:
Logged By: ML

Page 1 of 1

Depth	Sample Interval Recovery	Well Construction	Graphic Log	Material Description
0	3.3 3.4 3.5			Ground Surface
2	2.2 3.3 3.4			Sandy clay, 80% clay, brown. Slight moist med. stiffness, fissile, 10% fine sand, 10% angular gravel, No odor, No staining 0.0ppm
4	3.1 3.3 3.4			Brown clay, mod. moist, Med. plasticity, Med. Stiffness, 10% angular gravel, 3.8ppm
6	X 3.1 3.3 3.4	Clay		Brown clay, mod moist low plasticity, Mod. Stiffness, 10% angular pebble to gravel, No odor, No staining 6.0ppm
8	3.5 3.7 3.8			green to grey steel clay, Mod. moist, high plasticity, No odor, No staining 3.1ppm
10	3.5 3.7 3.8			orange to green, moist high plasticity, stiff clay, No odor, No staining 5% angular burnt gravel, 3.8ppm
12	X 3.5 3.7 3.8			Brown clay, high plasticity, Mod. Stiff, Mod. moist, No odor, No staining 10% angular gravel, 7.2ppm
14				
16				
18				
20				
22				
24				
26				
28				
30				
32				
34				
36				
38				
40				

Well Summary

744 Horizon Court, Ste. 140
Grand Junction, CO 81501
970-243-3271

BH04

Project: Wolf Creek #12 Dam
Location: Wolf Creek Well #12
Date(s): 6/8/13
Contractor: HCSI
Rig Type: CMESS
Drilling Method: 4" Solid Auger
Sample Type: Split Stem 2"

Well Name: BH4

Total Depth:

Elevation TOC:

Elevation Ground:

Latitude:

Longitude:

Logged By: ML

Page 1 of 1

Depth	Sample Interval Recovery	Well Construction	Graphic Log	Material Description
0	3.3 2.4 50%			Ground Surface
2	X 2.7 5.6			Lt. brown to Red Sandy Clay, Stiff, mod. moist, 30% f.g. Sand, No odor No staining. 22.1 ppm
4	2.3 3.6 4.1 3.4 5.6 8.0%			Hard Stiff Clay, low plasticity, dk brown, No odor, N/S 2.6 ppm 2.4 ppm
6	2.3 4.5 5.6 5.3 4.7 50%			Brown to gray stiff clay, low plasticity, N/o, N/S, 10% angular gravel, mod. moist dk gray to green clay, mod moist low plasticity, stiff, N/o, N/S Red FeO streaks 18%, angular pebbles 21 ppm
8				Brown clay, mod plasticity, soft, 15% FeO, N/o, N/S 2.0 ppm
10				Sandy Clay, high plasticity, soft, mod. moist, 30% f.g. sand 70% clay
12	X 4.7 50%			dk Red to Brown, N/o, N/S, 1.0 ppm
14				
16				
18				
20				
22				
24				
26				
28				
30				
32				
34				
36				
38				
40				

Well Summary

744 Horizon Court, Ste. 140
 Grand Junction, CO 81501
 970-243-3271

BH05

Project: Wolf Creek #12 Demo
 Location: Wolf Creek Rd #12
 Date(s): 6/8/13
 Contractor: HCSI
 Rig Type: CME55
 Drilling Method: 4" Solid Auger
 Sample Type: 2' Split Spoon

Well Name: BH 5
 Total Depth: 12'
 Elevation TOC:
 Elevation Ground:
 Latitude:
 Longitude:
 Logged By: ML

Page 1 of 1

Depth	Sample Interval	Recovery	Well Construction	Graphic Log	Material Description
0	3.3				Ground Surface
	7.4				Sandy Clay, 80% Red, Stiff, slight moist-clay, low plasticity, 20% green
	8.0				fine g. sand, minimal red clay clots, N/o, N/S 1.6ppm
	9.3				Dk. gray-brown clay, soft, mod. plast., 10% wood chips, N/o, N/S 2.9ppm
	10.2				Same as above, but no wood chips, 4.2ppm
	11.2				Dk. gray-brown silty clay, clay 80%, mod moist, mod. plasticity, mod. stiffness
	11.5				N/o, N/S 3.6ppm
	12.0				Dk gray to brown clay, soft, low plasticity, mod moist, N/o, N/S, 4.5ppm
	X 12.0				Dk gray to brown, clay, soft, high plast. N/o, N/S 4.8ppm
12					
14					
16					
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Well Summary

744 Horizon Court, Ste. 140
Grand Junction, CO 81501
970-243-3271

BH06/PZ03

Project: Wolf Creek #12 Demo
Location: Wolf Creek #12 Pad
Date(s): 6/8/13
Contractor: HCSI
Rig Type: CME 55
Drilling Method: 4" Solid Auger
Sample Type: 2' Split Sample

Well Name: BH06/PZ03
Total Depth: 6'
Elevation TOC:
Elevation Ground:
Latitude:
Longitude:
Logged By: ML

Page 1 of 1

Depth	Sample Interval	Recovery	Well Construction	Graphic Log	Material Description
0	2' 2"				Ground Surface
	2'				Red-Brown Clay 80%, soft, high plast, mod. moist. 20% green fig. sand
	3'				N/o, N/S, 3.6 ppm
X	3'	60%	Sand		Green fig. Sand, wet 80%, 20% brown clay, soft, No plasticity, Mod. moist, N/o, N/S, 4.2 ppm
X	4'	15 fresh			Sandy Clay Wet, lower 6" is brown, mod. moist, mod stiff, Mod. plast.
	3'		Clay		N/o, N/S 2.2 ppm
6					
8					
10					
12					
14					
16					
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Well Summary

744 Horizon Court, Ste. 140
Grand Junction, CO 81501
970-243-3271

Project: Wolf Creek #12 Demo
Location: Wolf Creek Pad #12
Date(s): 6/8/13
Contractor: HCSI
Rig Type: CMESS
Drilling Method: 4" Solid Auger
Sample Type: 2' Split Spoon

BH07
Well Name: BH7
Total Depth: 10' 7"
Elevation TOC:
Elevation Ground:
Latitude:
Longitude:
Logged By: ML

Page 1 of 1

Depth	Sample Interval	Recovery	Well Construction	Graphic Log	Material Description
0					Ground Surface
2					Angular gravel 60%, medium grained sand, green, slight moist, bottom 6" is dk brown-red clay, stiff, low plasticity (20% fg. sand) N/o, N/s.
4					Dk brown-red clay, high plasticity, high stiffness, N/o, N/s, some (2%) wood chips. 1.2 ppm
6					Dk grey, clay mod., plast., med. Stiffness, some (5%) FeO clots of pebbles. N/o, N/s 1.4 ppm
8					Brown-orange Sandy Clay. Clay 70%, high stiffness, low plasticity, Sand 30%. FG to m.g. Some FeO clots, N/o, N/s 3.2 ppm
10					Red Clay, high plast., high stiffness, mod. moist, N/o, N/s 3.1 ppm
12					Red Clay, high plast., mod. stiffness, N/o, N/s 1.9 ppm
14					
16					
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Well Summary

744 Horizon Court, Ste. 140
Grand Junction, CO 81501
970-243-3271

Project: Wolf Creek #12 Demo
Location: Wolf Creek Well #12
Date(s): 6/9/13
Contractor: HCSI
Rig Type: CMESS
Drilling Method: 4" Solid Auger
Sample Type: 2' Split Spoon

Well Name: BH08
BH8
Total Depth: 121
Elevation TOC:
Elevation Ground:
Latitude:
Longitude:
Logged By: ML

Page 1 of 1

Depth	Sample Interval	Recovery	Well Construction	Graphic Log	Material Description
0					Ground Surface
2					Gray to brown Silty Clay, Stiffness high, low plasticity, slightly moist N/o, N/s 0.3 ppm
4					DK gray-brown Sandy Clay 80% clay, stiffness high, low plast. f.g. Sand 20%, N/o, N/s, slightly moist 1.6 ppm
6					Gray Silty Clay, clay 60%, slightly moist, low plast, mod. stiffness Silt 40% N/o N/s 3.0 ppm
8					Upper 6" is gray clay, slight moist, low plast, Mod. stiffness. Bottom 1.5' is orange (Fe_2O_3) vfg Sandy Clay (Clay 80%), Mod. stiffness, low plast. N/o, N/s 2.8 ppm
10					Brown Clay, slight moist, Mod. stiffness, high plast. N/o, N/s 5% angular basal gravel 3.6 ppm
12					Brown Clay 80%, high plast., low stiffness, Mod. moist, 20% angular gravel, N/o, N/s 2.5 ppm
14					
16					
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Well Summary

744 Horizon Court, Ste. 140
Grand Junction, CO 81501
970-243-3271

Project: Wolf Creek #12 Demo
Location: Wolf Creek Pad #12
Date(s): 6/9/13
Contractor: HCSI
Rig Type: CMESS
Drilling Method: 4" Solid Auger
Sample Type: 2' Split Spoon

BH09
Well Name: BH9
Total Depth: 12'
Elevation TOC:
Elevation Ground:
Latitude:
Longitude:
Logged By: ML

Page 1 of 1

Depth	Sample Interval Recovery	Well Construction	Graphic Log	Material Description
0	X 100% 100%			Ground Surface
2	2.7		F.g. Sand	Gray fine grained sand 80%, dry, 20% angular gravel, N/o/N/s. 1.7 ppm 3.8 ppm
4	3.3			Drk brown silty clay, low plast., Mod. Stiff, mod. moist, N/o, N/s 1.4 ppm
6	5.0			Gray sandy clay, clay 70%, mod. stiff, slight moist, low plast., green F.g. Sand 30%, N/o, N/s 3.0 ppm
8	7.1		Clay	Grey-brown silty clay, high plast., high stiffness, FeO streaks. Bottom 2" is red oxidized basalt gravel, N/o, N/s 1.6 ppm
10	2.4			40%. Brown clay, soft, high plast., mod. moist, 30% f.g. sand, 10% angular gravel, N/o, N/s, 0.5 ppm
12	13.0			Brown-gray clay, soft, high plast., mod moist, N/o, N/s 1.1 ppm
14	13.6			
16	14.4			
18	15.0			
20	16.4			
22	17.0			
24	17.6			
26	18.4			
28	19.0			
30	19.6			
32	20.4			
34	21.0			
36	21.6			
38	22.4			
40	23.0			

Well Summary

744 Horizon Court, Ste. 140
Grand Junction, CO 81501
970-243-3271

BH10/PZ04

Project: Wolf Creek #12 Demo
Location: Wolf Creek Pad #12
Date(s): 6/9/13
Contractor: HCSI
Rig Type: CME 55
Drilling Method: 4" Solid Auger
Sample Type: 2' Split Spoon

Well Name: ~~BH 10 / PZ 10~~
Total Depth: 4'
Elevation TOC:
Elevation Ground:
Latitude:
Longitude:
Logged By: ML

Page 1 of 1

Depth	Sample Interval	Recovery	Well Construction	Graphic Log	Material Description
					Ground Surface
0	X 2 ³ /4 ⁰	Native Soil			Sandy-granular Clay, clay 60% Red Soi (t), low plast, mod. moist, 20% angular gravel, 20% green f.g. Sand. N/O, N/S, Z, Open
2	X 1 ³ /4 ⁰	Sand			Bottom 4" is dark gray clay w/ abundant organic matter. Upper 8" is brown silty clay, mod stiffness, low plasticity and wet. 41 ppm
4	X 2 ³ /4 ⁰	Flooded			
6					
8					
10					
12					
14					
16					
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Water
@ 2.5'

Well Summary

744 Horizon Court, Ste. 140
Grand Junction, CO 81501
970-243-3271

BH11/PZ05

~~BH11/PZ11~~

Project: Wolf Creek #12 Dam
Location: Wolf Creek #12
Date(s): 6/9/13
Contractor: HCSI
Rig Type: CME55
Drilling Method: 4" Solid Auger
Sample Type: 2' Split Spoon

Well Name: BH11/PZ05
Total Depth: 8'
Elevation TOC:
Elevation Ground:
Latitude:
Longitude:
Logged By: ML

Page 1 of 1

Depth	Sample Interval	Recovery	Well Construction	Graphic Log	Material Description
					Ground Surface
0	3.3	4.9	Native Soil		Sandy-gravelly Clay, Brown Clay 60% Stiff, low plast. mod moist, 20% angular gravel, 20% green f.g. Sand, N/0, N/S 3.7ppm
2	1.2	2.3			Brown-gray clay, Mod moist, med stiff, low plast, N/0, N/S 4.0ppm
4	1.2	2.0	Clay		80% gray-brown clay S. ft, low plast, 20% wood, N/0, N/S 4.3ppm
6	1.3	2.6	Sand		green-gray clay on bottom 6", Primarily dry, stiff, high plst., upper 1.5' is green-gray silty clay, Wet, high plst, med stiff, N/0, N/S, Organic (peat) odor 8.2ppm
8	3.0	4.4			
10					
12					
14					
16					
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Well Summary

744 Horizon Court, Ste. 140
 Grand Junction, CO 81501
 970-243-3271

BH12/PZ06

~~BH12/PZ12~~

Project: Wolf Creek #12 Demo
 Location: Wolf Creek Pad #12
 Date(s): 6/9/13
 Contractor: HCSI
 Rig Type: CME55
 Drilling Method: 4" Solid Auger
 Sample Type: 2' Split Spoon

Well Name: BH12/PZ12
 Total Depth: 6'
 Elevation TOC:
 Elevation Ground:
 Latitude:
 Longitude:
 Logged By: ML

Page 1 of 1

Depth	Sample Interval	Recovery	Well Construction	Graphic Log	Material Description
0	6.9				Ground Surface
	4.3				
	5.0				
2	X	2.3	Native Soil	Sand	Sandy-gravelly, 80% green f.g. Sand, 10% brown clay, mod. stiff, low plst, 10% angular gravel, N/o, N/s 3.3ppm
4	X	1.2	Sand	Sand	20% Green f.g. Sand, N/o, N/s 4.8ppm
6	X	3.0	Substr.	Clay	Bottom 6" is dark gray clay, soft, mod. moist, high plst., Upper 1' is gray silty clay, wet, N/o, N/s 5.8ppm
8					
10					
12					
14					
16					
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Well Summary

744 Horizon Court, Ste. 140
 Grand Junction, CO 81501
 970-243-3271

Project: Wolf Creek #12 Demo
Location: Wolf Creek Pad #12
Date(s): 6/9/13
Contractor: HCS I
Rig Type: CME 55
Drilling Method: 4" Solid auger
Sample Type: 2' Split Spoon

Well Name: BH 13
Total Depth: 6'
Elevation TOC:
Elevation Ground:
Latitude:
Longitude:
Logged By: ML

Page 1 of 1

Depth	Sample Interval	Recovery	Well Construction	Graphic Log	Material Description
0	3.3 2.3 50%				Ground Surface
2	3.3 2.3 50%			Clay F.g. Sand	Sandy-gravelly clay, clay 60%, Brown, high stiffness, low plast., 30% green f.g. Sand, 10% angular gravel w/ FeO cherts streaks, N/o, N/S 2.8ppm Green gravelly-f.g. Sand, Sand 80%, gravel 20%, N/o, N/S 1.4ppm
4	X 9.9 3.5 50%			Clay	Dk gray clay, high stiffness, high plast., moist, 10% angular brownish gravel 10% wood chips, N/o, N/S 6.1ppm
6	X 3.3 7.10 50%				Brown-gray clay, high stiff., mod. plast., wet, N/o, N/S 3.7ppm
8					
10					
12					
14					
16					
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Well Summary

744 Horizon Court, Ste. 140
 Grand Junction, CO 81501
 970-243-3271

Project: Wolf Creek #12 Demo
 Location: Wolf Creek Pad #12
 Date(s): 6/9/13
 Contractor: HCSI
 Rig Type: CME 55
 Drilling Method: 4" Solid Auger
 Sample Type: 2' Split Spans

Well Name: BH 14
 Total Depth: 12'
 Elevation TOC:
 Elevation Ground:
 Latitude:
 Longitude:
 Logged By: ML

Page 1 of 1

Depth	Sample Interval	Recovery	Well Construction	Graphic Log	Material Description
0	X 2,2	1/2			Ground Surface Loose gravel and silt, brown, dry, N/o, N/S 3.2 ppm
2	X 1/2	5/2			Dk Brown clay, Mod, moist, mod streaks, ^{mod} high plasticity, N/o N/S, 5% wood chips 2.9 ppm
4	X 3/2	6/2			Lt. gray to brown clay, Slight moist, mod. stiff., mod. plast., N/o, N/S 10% green silt/very sand. 3.1 ppm
6	X 3/2	7/2			gray silty clay w/ orange FeO streaks, mod stiff, high plast., slight moist N/o, N/S 1.6 ppm
8	X 3/2	7/2			gray-brown clay, soft, high plast, mod. moist, N/o, N/S, FeO streaks 1.0 ppm
10	X 2/2	5/2			gray-brown clay, soft, high plast, slight moist, N/o, N/S. 2.8 ppm
12					
14					
16					
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					



HCSI
HAZARDOUS MATERIALS CONSULTANT

2385 F 1/2 Road
Grand Junction, CO 81505
970-243-3271

Borehole Summary
Project: SourceGas Wolf Creek #12 Site Charac.

Location: Wolf Creek #12

Date(s): 6/24/13

Contractor: HCSI

Rig Type: CM E55

Drilling Method: 4.25" ID Hollow Stem

Sample Type: ~~Split~~ Split S peron 20'

Borehole Number, BH 15

Total Depth: 10

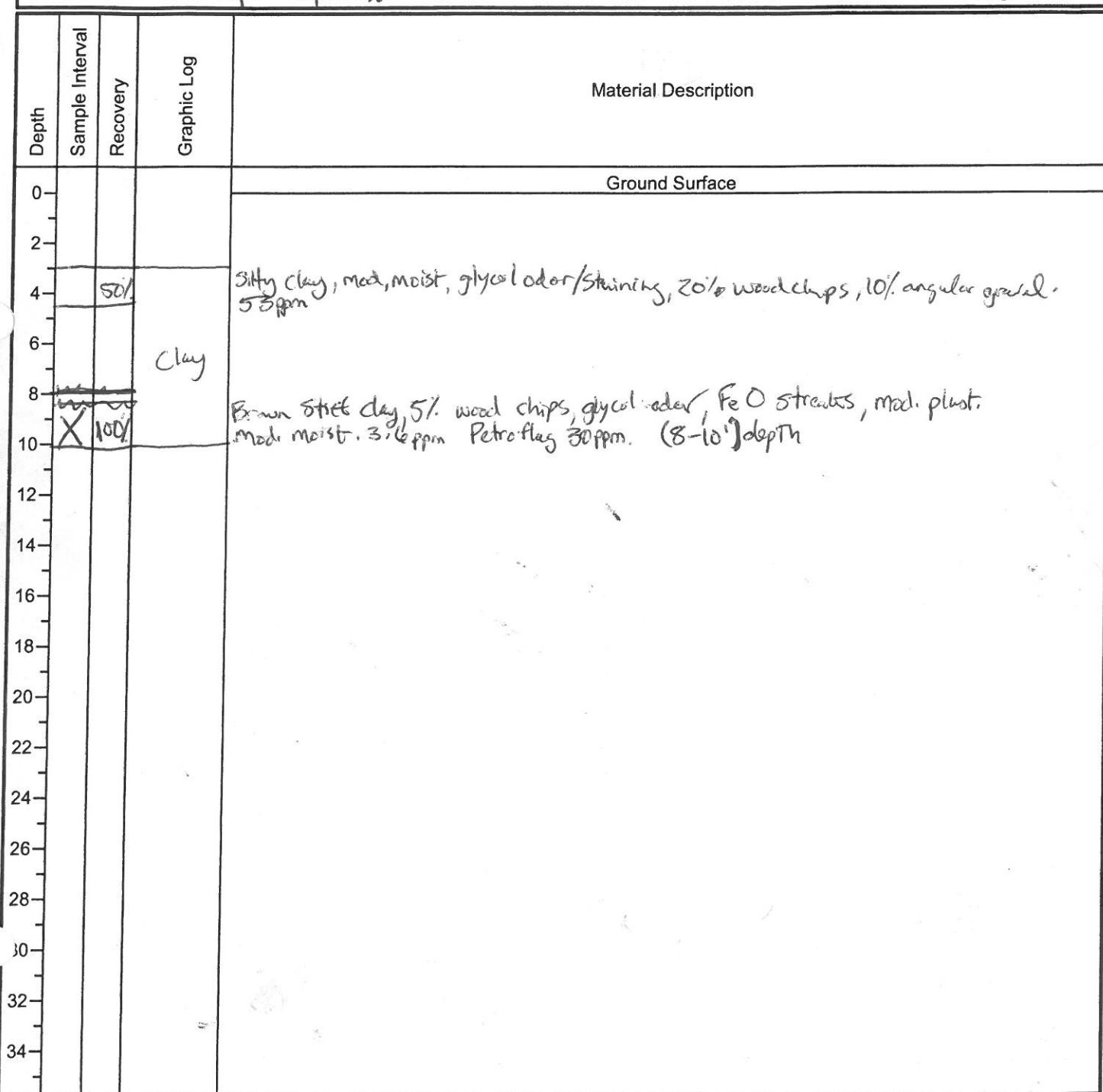
Elevation Ground:

State Plane Cord. North:

State Plane Cord. East:

Logged By: ML

Page 1 of 1



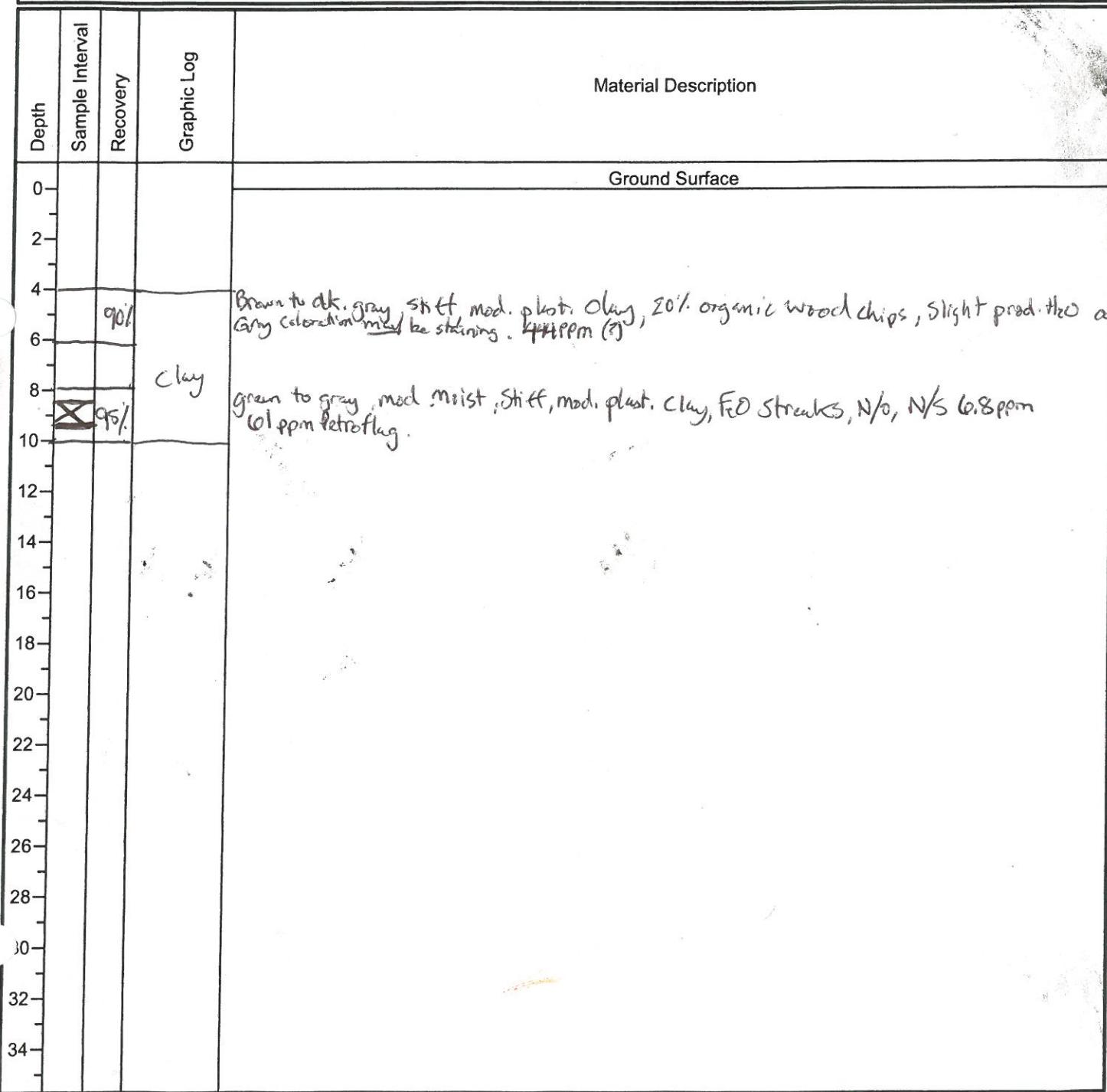


2385 F 1/2 Road
Grand Junction, CO 81505
970-243-3271

Borehole Summary
Project: Sour Gas Wolf Creek #12 Site chance
Location: Wolf Creek #12
Date(s): 6/24/13
Contractor: HCSI
Rig Type: CME 55
Drilling Method: 4.25" ID Hollow Stem
Sample Type: Split Span 2.0'

(18' North of BH 16)
Borehole Number: BH 16; BH 16A
Total Depth: 10'
Elevation Ground:
State Plane Cord. North:
State Plane Cord. East:
Logged By: ML

Page 1 of 1





2385 F 1/2 Road
Grand Junction, CO 81505
970-243-3271

Borehole Summary

Project: Source Gas Wolf Creek #12
Location: Wolf Creek #12
Date(s): 6/24/13
Contractor: HCSI
Rig Type: CME 55
Drilling Method: 4.25" ID Hollow Stem
Sample Type: 2' Split Spoon

18' North of BH16

Borehole Number BH 16 A

Total Depth: 6'

Elevation Ground:

State Plane Cord. North:

State Plane Cord. East:

Logged By: ML

Page 1 of 1

Depth	Sample Interval	Recovery	Graphic Log	Material Description
0				Ground Surface
2				
4				Same as BH16, mod. odor 27.3 ppm PID ← Gray tight clay, high plast., mod. stiffness (native clay)
6				
8				
10				
12				
14				
16				
18				
20				
22				
24				
26				
28				
30				
32				
34				



2385 F 1/2 Road
Grand Junction, CO 81505
970-243-3271

Borehole Summary

Project: SourceGas Wolf Creek #12
Location: Wolf Creek #12
Date(s): 6/24/13
Contractor: HCSI
Rig Type: CME 55
Drilling Method: 4.25" ID Hollow Stem
Sample Type: 2' split Spoon

Borehole Number BH 17

Total Depth: 10'

Elevation Ground:

State Plane Cord. North:

State Plane Cord. East:

Logged By: ML

Page 1 of 1

Depth	Sample Interval	Recovery	Graphic Log	Material Description
0				Ground Surface
2				
4				Silty clay, 80% gray-brown mod. stiff, high plast. clay., 10% silt, 10% organic wood chips, sticky odor (prod. water/glycol?) wet. N/S 100ppm 450ppm (Petroflag)
6	60%		Clay	
8	X 60%			OK: gray-brown moist dry, high plast., mod. stiff, N/S, smelly odor (prod. water/glycol?) 5% angular basal gravel. 44ppm Petroflag 16ppm
10				
12				
14				
16				
18				
20				
22				
24				
26				
28				
30				
32				
34				



2385 F 1/2 Road
Grand Junction, CO 81505
970-243-3271

Borehole Summary

Project: Source Gas Wolf Creek #12

Location: Wolf Creek #12

Date(s): 6/24/13

Contractor: HCSI

Rig Type: CME 55

Drilling Method: 4.25" ID Hollow Stem Auger

Sample Type: 2' Split Spoon

Borehole Number BH 18

Total Depth: 10'

Elevation Ground:

State Plane Cord. North:

State Plane Cord. East:

Logged By: ML

Page 1 of 1

Depth	Sample Interval	Recovery	Graphic Log	Material Description
0				Ground Surface
2				
4				Gray Clay, moist, high plast., mod. stiffness, stinky odor (Prod. Water/glycol) 22.4 ppm PID <i>(ad.)</i>
6				
8				
10	X	80%		Dk brown-gray moist clay, med. stiff, low plast., smelly odor. 4.7 ppm PID 5 ppm Petrofleg
12				
14				
16				
18				
20				
22				
24				
26				
28				
30				
32				
34				



2385 F 1/2 Road
Grand Junction, CO 81505
970-243-3271

Borehole Summary

Project: SonneGas Wolf Creek #12

Location: Wolf Creek #12

Date(s): 6/24/13 6/25/13

Contractor: HCSI

Rig Type: CME 55

Drilling Method: 4 1/2" ID Hollow Stem 4" Solid Stem Auger

Sample Type: 2' Split Spoon

Borehole Number BH 19

Total Depth: 10'

Elevation Ground:

State Plane Cord. North:

State Plane Cord. East:

Logged By: ML

Page 1 of 1

Depth	Sample Interval	Recovery	Graphic Log	Material Description
0				Ground Surface
2				Gray-brown clay, mod. moist, high stiff., mod. plast., 5% wood chips, N/S, N/G 455 ppm PID
4				Same as above + slight (swet) odor @ 4-5', 82 ppm
6				Same. N/o, N/S, slight odor (? Netaneet ID) 93.3 ppm PID
8				Brown clay, stiff (high), high plast., N/o, N/S 344 ppm PID 1 ppm PID
10				Note: erratic PID readings here. low → high → low
12				
14				
16				
18				
20				
22				
24				
26				
28				
30				
32				
34				



HCSI

2385 F 1/2 Road
Grand Junction, CO 81505
970-243-3271

Project: ~~Test~~ Source Gas Wolf Creek #12
Location: Wolf Creek #12
Date(s): 6/25/13
Contractor: HCSI
Rig Type: CME 55
Drilling Method: 4" Solid Stem Auger
Sample Type: 2' Split Spoon

Borehole Summary

BH20/PZ07

Borehole Number ~~BH20/PZ 20~~

Total Depth: 8'

Elevation Ground:

State Plane Cord. North:

State Plane Cord. East:

Logged By: ML

Page 1 of 1

Depth	Sample Interval	Recovery	Graphic Log	Material Description
0				Ground Surface
2				
2			Bentonite	
2		X	Screen	
2		X		DK gray - brown clay, slight sheen, high plst, mod stiff, mod moist 0.8 ppm FeO 231 ppm Petrofloc
4		X		DK gray - brown clay, 'sticky' (high plst), mod. stiff, mod. moist, N/o, N/S 2.0 ppm PID 0.8 ppm Petrofloc.
6		X	Screen	Same as above + Red and orange FeO streaks. 0.0 ppm PID
6		X		
6		X		
8		X		
10				
12				
14				
16				
18				
20				
22				
24				
26				
28				
30				
32				
34				



2385 F 1/2 Road
Grand Junction, CO 81505
970-243-3271

Borehole Summary

Project: Sour Gas Wolf Creek #12
Location: Wolf Creek #12
Date(s): 6/25/13
Contractor: HCSI
Rig Type: CME 55
Drilling Method: 4" Solid Auger
Sample Type: 2' Split Spoon

BH21/PZ08

~~BH21/PZ21~~

Borehole Number

Total Depth: 2'

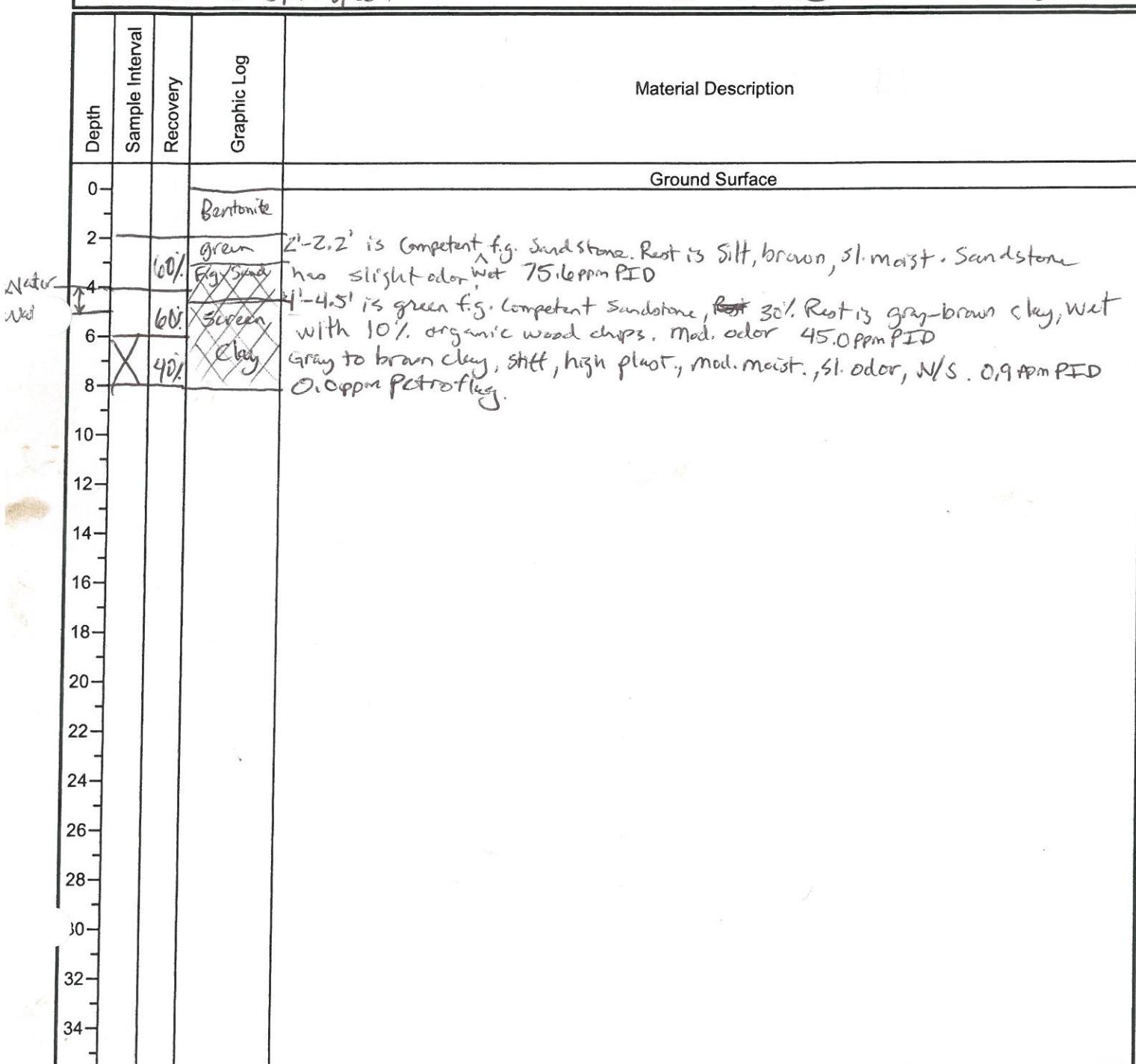
Elevation Ground:

State Plane Cord. North:

State Plane Cord. East:

Logged By: ML

Page 1 of 1





2385 F 1/2 Road
Grand Junction, CO 81505
970-243-3271

Borehole Summary

Project: Source Gas Wolf Creek #12
Location: Wolf Creek #12
Date(s): 6/25/13
Contractor: HCSI
Rig Type: CME 55
Drilling Method: 4" Solid Auger
Sample Type: 2" Split Spoon

BH22/PZ09

Borehole Number: BH22/PZ22
Total Depth: 8'
Elevation Ground:
State Plane Cord. North:
State Plane Cord. East:
Logged By: ML

Page 1 of 1

Depth	Sample Interval	Recovery	Graphic Log	Material Description
0				Ground Surface
2			Bentonite	
4	(60%)		Sand	DK brown clay, soft, mod, moist, high plst., sl. odor, N/S 31.3 ppm PID
6	(60%)		X	Same as above 5.6 ppm PID 177 ppm Petroflag
8	(80%)		X	Same as above 1.5 ppm PID 29 ppm Petroflag
10				
12				
14				
16				
18				
20				
22				
24				
26				
28				
30				
32				
34				



HCSI

THE HARRIS COMPANY

2385 F 1/2 Road
Grand Junction, CO 81505
970-243-3271

Borehole Summary

Project: SonneGas Wolf Creek #12

Location: Wolf Creek #12

Date(s): 6/25/13

Contractor: HCSI

Rig Type: CMESS

Drilling Method: 4" Solid Stem Auger

Sample Type: 2' Split Spoon

Borehole Number

BH 23

Total Depth: 17'

Elevation Ground:

State Plane Cord. North:

State Plane Cord. East:

Logged By: ML

Page 1 of 1

Depth	Sample Interval	Recovery	Graphic Log	Material Description
0				Ground Surface
2				
4				
6	X (60%)			Brown clay, mod. moist, mod stiff, high plast., sl. odor, no staining 4.7 gpm PDI
8				
10	X (70%)	Clay		Brown orangish clay, soft, high plast, mod moist, N/o, N/S. 2.8 gpm PDI.
12				
14				
16	50%			Brown Clay with soft silty clay (30%), wet, high plast. N/o, N/S. Cobbles below 16'. 1.4 gpm PDI
18				
20				
22				
24				
26				
28				
30				
32				
34				

Appendix E

Analytical Laboratory Reports



11-Jul-2013

Herman Lucero
HRL Compliance Solutions
2385 F 1/2 Road
Grand Junction, CO 81505

Re: **Source Gas Wolf Creek #12 13-113 6/25/13**

Work Order: **13061057**

Revision: **1**

Dear Herman,

ALS Environmental received 6 samples on 27-Jun-2013 09:30 AM for the analyses presented in the following report.

This is a REVISED REPORT. The Case Narrative provides information discussing the reason for issuing a revised report. The total number of pages in this revision is 26.

If you have any questions regarding these test results, 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: MN 532786

Report of Laboratory Analysis

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

ALS GROUP USA, CORP Part of the ALS Group An ALS Limited Company

Environmental

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/25/13
Work Order: **13061057**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
13061057-01	BH20/PZ07 2-4'	Soil		6/25/2013 10:50	6/27/2013 09:30	<input type="checkbox"/>
13061057-02	BH21/PZ08 6-8'	Soil		6/25/2013 11:59	6/27/2013 09:30	<input type="checkbox"/>
13061057-03	BH22/PZ09 4-6'	Soil		6/25/2013 12:27	6/27/2013 09:30	<input type="checkbox"/>
13061057-04	BH22/PZ09 6-8'	Soil		6/25/2013 12:31	6/27/2013 09:30	<input type="checkbox"/>
13061057-05	BH23 6-8'	Soil		6/25/2013 13:10	6/27/2013 09:30	<input type="checkbox"/>
13061057-06	BH23 10-12'	Soil		6/25/2013 13:14	6/27/2013 09:30	<input type="checkbox"/>

Client: HRL Compliance Solutions**Project:** Source Gas Wolf Creek #12 13-113 6/25/13**Work Order:** 13061057**Case Narrative**

At the request of the client, the sample IDs were changed in this revised report. No results were changed.

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/25/13
WorkOrder: 13061057

**QUALIFIERS,
ACRONYMS, UNITS**

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

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

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

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/25/13 **Work Order:** 13061057
Sample ID: BH20/PZ07 2-4' **Lab ID:** 13061057-01
Collection Date: 6/25/2013 10:50 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	57		5.5	mg/Kg-dry	1	6/27/2013 06:54 PM
Surr: 4-Terphenyl-d14	40.2		39-115	%REC	1	6/27/2013 06:54 PM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	ND		6.6	mg/Kg-dry	1	6/27/2013 07:02 PM
Methanol	ND		6.6	mg/Kg-dry	1	6/28/2013 12:18 AM
Propylene glycol	ND		6.6	mg/Kg-dry	1	6/27/2013 07:02 PM
Triethylene glycol	ND		6.6	mg/Kg-dry	1	6/27/2013 07:02 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	ND		3.3	mg/Kg-dry	50	6/27/2013 01:18 PM
Surr: Toluene-d8	103		50-150	%REC	50	6/27/2013 01:18 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep Date: 6/27/2013	Analyst: RS
Benzene	ND		40	µg/Kg-dry	1	6/27/2013 12:30 PM
Ethylbenzene	ND		40	µg/Kg-dry	1	6/27/2013 12:30 PM
m,p-Xylene	ND		79	µg/Kg-dry	1	6/27/2013 12:30 PM
o-Xylene	ND		40	µg/Kg-dry	1	6/27/2013 12:30 PM
Toluene	ND		40	µg/Kg-dry	1	6/27/2013 12:30 PM
Xylenes, Total	ND		120	µg/Kg-dry	1	6/27/2013 12:30 PM
Surr: 1,2-Dichloroethane-d4	91.2		70-130	%REC	1	6/27/2013 12:30 PM
Surr: 4-Bromofluorobenzene	87.4		70-130	%REC	1	6/27/2013 12:30 PM
Surr: Dibromofluoromethane	96.8		70-130	%REC	1	6/27/2013 12:30 PM
Surr: Toluene-d8	94.8		70-130	%REC	1	6/27/2013 12:30 PM
MOISTURE			A2540 G			Analyst: JJG
Moisture	24		0.050	% of sample	1	6/27/2013 08:24 AM

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

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/25/13 **Work Order:** 13061057
Sample ID: BH21/PZ08 6-8' **Lab ID:** 13061057-02
Collection Date: 6/25/2013 11:59 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	27		5.3	mg/Kg-dry	1	6/27/2013 07:54 PM
Surr: 4-Terphenyl-d14	42.0		39-115	%REC	1	6/27/2013 07:54 PM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	ND		6.5	mg/Kg-dry	1	6/27/2013 07:13 PM
Methanol	ND		6.5	mg/Kg-dry	1	6/28/2013 12:47 AM
Propylene glycol	ND		6.5	mg/Kg-dry	1	6/27/2013 07:13 PM
Triethylene glycol	ND		6.5	mg/Kg-dry	1	6/27/2013 07:13 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	ND		3.3	mg/Kg-dry	50	6/27/2013 01:43 PM
Surr: Toluene-d8	104		50-150	%REC	50	6/27/2013 01:43 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep Date: 6/27/2013	Analyst: RS
Benzene	ND		39	µg/Kg-dry	1	6/27/2013 12:52 PM
Ethylbenzene	ND		39	µg/Kg-dry	1	6/27/2013 12:52 PM
m,p-Xylene	ND		79	µg/Kg-dry	1	6/27/2013 12:52 PM
o-Xylene	ND		39	µg/Kg-dry	1	6/27/2013 12:52 PM
Toluene	ND		39	µg/Kg-dry	1	6/27/2013 12:52 PM
Xylenes, Total	ND		120	µg/Kg-dry	1	6/27/2013 12:52 PM
Surr: 1,2-Dichloroethane-d4	99.0		70-130	%REC	1	6/27/2013 12:52 PM
Surr: 4-Bromofluorobenzene	84.3		70-130	%REC	1	6/27/2013 12:52 PM
Surr: Dibromofluoromethane	102		70-130	%REC	1	6/27/2013 12:52 PM
Surr: Toluene-d8	92.6		70-130	%REC	1	6/27/2013 12:52 PM
MOISTURE			A2540 G			Analyst: JJG
Moisture	24		0.050	% of sample	1	6/27/2013 08:24 AM

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

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/25/13 **Work Order:** 13061057
Sample ID: BH22/PZ09 4-6' **Lab ID:** 13061057-03
Collection Date: 6/25/2013 12:27 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	45		5.1	mg/Kg-dry	1	6/27/2013 08:24 PM
Surr: 4-Terphenyl-d14	40.4		39-115	%REC	1	6/27/2013 08:24 PM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	ND		6.2	mg/Kg-dry	1	6/27/2013 07:24 PM
Methanol	ND		6.2	mg/Kg-dry	1	6/28/2013 01:15 AM
Propylene glycol	ND		6.2	mg/Kg-dry	1	6/27/2013 07:24 PM
Triethylene glycol	ND		6.2	mg/Kg-dry	1	6/27/2013 07:24 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	ND		3.1	mg/Kg-dry	50	6/27/2013 02:08 PM
Surr: Toluene-d8	105		50-150	%REC	50	6/27/2013 02:08 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep Date: 6/27/2013	Analyst: RS
Benzene	ND		37	µg/Kg-dry	1	6/27/2013 01:15 PM
Ethylbenzene	ND		37	µg/Kg-dry	1	6/27/2013 01:15 PM
m,p-Xylene	ND		74	µg/Kg-dry	1	6/27/2013 01:15 PM
o-Xylene	ND		37	µg/Kg-dry	1	6/27/2013 01:15 PM
Toluene	ND		37	µg/Kg-dry	1	6/27/2013 01:15 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	6/27/2013 01:15 PM
Surr: 1,2-Dichloroethane-d4	95.0		70-130	%REC	1	6/27/2013 01:15 PM
Surr: 4-Bromofluorobenzene	87.0		70-130	%REC	1	6/27/2013 01:15 PM
Surr: Dibromofluoromethane	98.2		70-130	%REC	1	6/27/2013 01:15 PM
Surr: Toluene-d8	96.2		70-130	%REC	1	6/27/2013 01:15 PM
MOISTURE			A2540 G			Analyst: JJG
Moisture	19		0.050	% of sample	1	6/27/2013 08:24 AM

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

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/25/13 **Work Order:** 13061057
Sample ID: BH22/PZ09 6-8' **Lab ID:** 13061057-04
Collection Date: 6/25/2013 12:31 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	32		5.3	mg/Kg-dry	1	6/27/2013 08:54 PM
Surr: 4-Terphenyl-d14	42.4		39-115	%REC	1	6/27/2013 08:54 PM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	ND		6.6	mg/Kg-dry	1	6/27/2013 07:35 PM
Methanol	130		6.6	mg/Kg-dry	1	6/28/2013 01:44 AM
Propylene glycol	ND		6.6	mg/Kg-dry	1	6/27/2013 07:35 PM
Triethylene glycol	ND		6.6	mg/Kg-dry	1	6/27/2013 07:35 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	ND		3.3	mg/Kg-dry	50	6/27/2013 02:33 PM
Surr: Toluene-d8	101		50-150	%REC	50	6/27/2013 02:33 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep Date: 6/27/2013	Analyst: RS
Benzene	ND		39	µg/Kg-dry	1	6/27/2013 01:38 PM
Ethylbenzene	ND		39	µg/Kg-dry	1	6/27/2013 01:38 PM
m,p-Xylene	ND		79	µg/Kg-dry	1	6/27/2013 01:38 PM
o-Xylene	ND		39	µg/Kg-dry	1	6/27/2013 01:38 PM
Toluene	ND		39	µg/Kg-dry	1	6/27/2013 01:38 PM
Xylenes, Total	ND		120	µg/Kg-dry	1	6/27/2013 01:38 PM
Surr: 1,2-Dichloroethane-d4	94.6		70-130	%REC	1	6/27/2013 01:38 PM
Surr: 4-Bromofluorobenzene	92.6		70-130	%REC	1	6/27/2013 01:38 PM
Surr: Dibromofluoromethane	96.4		70-130	%REC	1	6/27/2013 01:38 PM
Surr: Toluene-d8	100		70-130	%REC	1	6/27/2013 01:38 PM
MOISTURE			A2540 G			Analyst: JJG
Moisture	24		0.050	% of sample	1	6/27/2013 08:24 AM

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

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/25/13 **Work Order:** 13061057
Sample ID: BH23 6-8' **Lab ID:** 13061057-05
Collection Date: 6/25/2013 01:10 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	ND		5.4	mg/Kg-dry	1	6/27/2013 09:23 PM
Surr: 4-Terphenyl-d14	42.9		39-115	%REC	1	6/27/2013 09:23 PM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	ND		6.5	mg/Kg-dry	1	6/27/2013 07:46 PM
Methanol	ND		6.5	mg/Kg-dry	1	6/28/2013 02:12 AM
Propylene glycol	ND		6.5	mg/Kg-dry	1	6/27/2013 07:46 PM
Triethylene glycol	ND		6.5	mg/Kg-dry	1	6/27/2013 07:46 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	ND		3.3	mg/Kg-dry	50	6/27/2013 02:58 PM
Surr: Toluene-d8	102		50-150	%REC	50	6/27/2013 02:58 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep Date: 6/27/2013	Analyst: RS
Benzene	ND		39	µg/Kg-dry	1	6/27/2013 02:00 PM
Ethylbenzene	ND		39	µg/Kg-dry	1	6/27/2013 02:00 PM
m,p-Xylene	ND		78	µg/Kg-dry	1	6/27/2013 02:00 PM
o-Xylene	ND		39	µg/Kg-dry	1	6/27/2013 02:00 PM
Toluene	ND		39	µg/Kg-dry	1	6/27/2013 02:00 PM
Xylenes, Total	ND		120	µg/Kg-dry	1	6/27/2013 02:00 PM
Surr: 1,2-Dichloroethane-d4	94.4		70-130	%REC	1	6/27/2013 02:00 PM
Surr: 4-Bromofluorobenzene	87.0		70-130	%REC	1	6/27/2013 02:00 PM
Surr: Dibromofluoromethane	97.0		70-130	%REC	1	6/27/2013 02:00 PM
Surr: Toluene-d8	94.9		70-130	%REC	1	6/27/2013 02:00 PM
MOISTURE			A2540 G			Analyst: JJG
Moisture	24		0.050	% of sample	1	6/27/2013 08:24 AM

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

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/25/13 **Work Order:** 13061057
Sample ID: BH23 10-12' **Lab ID:** 13061057-06
Collection Date: 6/25/2013 01:14 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	ND		5.1	mg/Kg-dry	1	6/27/2013 06:24 PM
Surr: 4-Terphenyl-d14	46.3		39-115	%REC	1	6/27/2013 06:24 PM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	ND		6.3	mg/Kg-dry	1	6/27/2013 07:58 PM
Methanol	ND		6.3	mg/Kg-dry	1	6/28/2013 02:41 AM
Propylene glycol	ND		6.3	mg/Kg-dry	1	6/27/2013 07:58 PM
Triethylene glycol	ND		6.3	mg/Kg-dry	1	6/27/2013 07:58 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	ND		3.1	mg/Kg-dry	50	6/27/2013 03:23 PM
Surr: Toluene-d8	98.6		50-150	%REC	50	6/27/2013 03:23 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep Date: 6/27/2013	Analyst: RS
Benzene	ND		38	µg/Kg-dry	1	6/27/2013 02:23 PM
Ethylbenzene	ND		38	µg/Kg-dry	1	6/27/2013 02:23 PM
m,p-Xylene	ND		75	µg/Kg-dry	1	6/27/2013 02:23 PM
o-Xylene	ND		38	µg/Kg-dry	1	6/27/2013 02:23 PM
Toluene	ND		38	µg/Kg-dry	1	6/27/2013 02:23 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	6/27/2013 02:23 PM
Surr: 1,2-Dichloroethane-d4	94.7		70-130	%REC	1	6/27/2013 02:23 PM
Surr: 4-Bromofluorobenzene	87.2		70-130	%REC	1	6/27/2013 02:23 PM
Surr: Dibromofluoromethane	95.1		70-130	%REC	1	6/27/2013 02:23 PM
Surr: Toluene-d8	95.0		70-130	%REC	1	6/27/2013 02:23 PM
MOISTURE			A2540 G			Analyst: JJG
Moisture	20		0.050	% of sample	1	6/27/2013 08:24 AM

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

ALS Group USA, Corp

Date: 11-Jul-13

Client: HRL Compliance Solutions

QC BATCH REPORT

Work Order: 13061057

Project: Source Gas Wolf Creek #12 13-113 6/25/13

Batch ID: 49357

Instrument ID GC8

Method: SW8015M

MBLK		Sample ID: DBLKS1-49357-49357		Units: mg/Kg		Analysis Date: 6/27/2013 04:24 PM				
Client ID:		Run ID: GC8_130627B		SeqNo: 2364628		Prep Date: 6/27/2013 DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	4.2								
Surr: 4-Terphenyl-d14	0.7267	0	1.667		0	43.6	39-115	0		

LCS		Sample ID: DLCSS1-49357-49357		Units: mg/Kg		Analysis Date: 6/27/2013 04:54 PM				
Client ID:		Run ID: GC8_130627B		SeqNo: 2364629		Prep Date: 6/27/2013 DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	154.6	4.2	166.7		0	92.8	49-124	0		
Surr: 4-Terphenyl-d14	0.8337	0	1.667		0	50	39-115	0		

MS		Sample ID: 13061057-06B MS		Units: mg/Kg		Analysis Date: 6/27/2013 05:24 PM				
Client ID: BH23 10-12'		Run ID: GC8_130627B		SeqNo: 2364630		Prep Date: 6/27/2013 DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	281.2	7.9	317.6		0	88.5	49-130	0		
Surr: 4-Terphenyl-d14	1.428	0	3.176		0	45	39-115	0		

MSD		Sample ID: 13061057-06B MSD		Units: mg/Kg		Analysis Date: 6/27/2013 05:54 PM				
Client ID: BH23 10-12'		Run ID: GC8_130627B		SeqNo: 2364631		Prep Date: 6/27/2013 DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	298.6	8.2	327.4		0	91.2	49-130	281.2	6.03	30
Surr: 4-Terphenyl-d14	1.566	0	3.274		0	47.8	39-115	1.428	9.17	30

The following samples were analyzed in this batch:

13061057-01B	13061057-02B	13061057-03B
13061057-04B	13061057-05B	13061057-06B

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

Revision: 1

Client: HRL Compliance Solutions
Work Order: 13061057
Project: Source Gas Wolf Creek #12 13-113 6/25/13

QC BATCH REPORT

Batch ID: R122931 Instrument ID GC5 Method: SW8015M

MBLK Sample ID: MB-R122931-R122931				Units: mg/L		Analysis Date: 6/27/2013 06:05 PM				
Client ID:		Run ID: GC5_130627B		SeqNo: 2364342		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methanol	ND		5.0							

MBLK Sample ID: MB-R122931-R122931				Units: mg/Kg		Analysis Date: 6/27/2013 11:21 PM				
Client ID:		Run ID: GC5_130627B		SeqNo: 2364376		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methanol	ND		5.0							

LCS Sample ID: LCS-R122931-R122931				Units: mg/L		Analysis Date: 6/27/2013 06:34 PM				
Client ID:		Run ID: GC5_130627B		SeqNo: 2364343		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methanol	471.3	5.0	500	0	94.3	50-150		0		

LCS Sample ID: LCS-R122931-R122931				Units: mg/Kg		Analysis Date: 6/27/2013 11:49 PM				
Client ID:		Run ID: GC5_130627B		SeqNo: 2364377		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methanol	488.5	5.0	500	0	97.7	50-150		0		

MS Sample ID: 13061064-02B MS				Units: mg/L		Analysis Date: 6/27/2013 08:00 PM				
Client ID:		Run ID: GC5_130627B		SeqNo: 2364347		Prep Date:		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methanol	946	10	1000	0	94.6	50-150		0		

MS Sample ID: 13061065-03A MS				Units: mg/Kg		Analysis Date: 6/28/2013 05:03 AM				
Client ID:		Run ID: GC5_130627B		SeqNo: 2364387		Prep Date:		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methanol	990.1	10	1000	0	99	50-150		0		

MSD Sample ID: 13061064-02B MSD				Units: mg/L		Analysis Date: 6/27/2013 08:29 PM				
Client ID:		Run ID: GC5_130627B		SeqNo: 2364348		Prep Date:		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methanol	963	10	1000	0	96.3	50-150	946	1.78	30	

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

Revision: 1

Client: HRL Compliance Solutions
Work Order: 13061057
Project: Source Gas Wolf Creek #12 13-113 6/25/13

QC BATCH REPORT

Batch ID: **R122931** Instrument ID **GC5** Method: **SW8015M**

MSD	Sample ID: 13061065-03A MSD			Units: mg/Kg			Analysis Date: 6/28/2013 05:31 AM			
Client ID:	Run ID: GC5_130627B			SeqNo: 2364388			Prep Date:			DF: 2
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methanol	980.9	10	1000	0	98.1	50-150	990.1	0.933	30	

The following samples were analyzed in this batch:

13061057-01A	13061057-02A	13061057-03A
13061057-04A	13061057-05A	13061057-06A

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

Revision: 1

QC Report Page: 3 of 9

Client: HRL Compliance Solutions
Work Order: 13061057
Project: Source Gas Wolf Creek #12 13-113 6/25/13

QC BATCH REPORT

Batch ID: **R122932** Instrument ID **GC11** Method: **SW8015M**

MBLK	Sample ID: MB-R122932-R122932			Units: mg/L			Analysis Date: 6/27/2013 05:21 PM			
Client ID:	Run ID: GC11_130627B			SeqNo: 2364391			Prep Date:	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylene glycol	ND	5.0								
Propylene glycol	ND	10								
Triethylene glycol	ND	5.0								

MBLK	Sample ID: MB-R122932-R122932			Units: mg/Kg			Analysis Date: 6/27/2013 06:51 PM			
Client ID:	Run ID: GC11_130627B			SeqNo: 2364456			Prep Date:	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylene glycol	ND	5.0								
Propylene glycol	ND	5.0								
Triethylene glycol	ND	5.0								

LCS	Sample ID: LCS-R122932-R122932			Units: mg/L			Analysis Date: 6/27/2013 06:17 PM			
Client ID:	Run ID: GC11_130627B			SeqNo: 2364392			Prep Date:	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylene glycol	515.6	5.0	500	0	103	50-150	0	0		
Propylene glycol	499.7	10	500	0	99.9	50-150	0	0		
Triethylene glycol	514.8	5.0	500	0	103	50-150	0	0		

LCS	Sample ID: LCS-R122932-R122932			Units: mg/Kg			Analysis Date: 6/28/2013 09:29 AM			
Client ID:	Run ID: GC11_130627B			SeqNo: 2364457			Prep Date:	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylene glycol	531.8	5.0	500	0	106	50-150	0	0		
Propylene glycol	526.1	5.0	500	0	105	50-150	0	0		
Triethylene glycol	301.8	5.0	500	0	60.4	50-150	0	0		

MS	Sample ID: 13061064-02B MS			Units: mg/L			Analysis Date: 6/27/2013 05:55 PM			
Client ID:	Run ID: GC11_130627B			SeqNo: 2364395			Prep Date:	DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylene glycol	994	10	1000	0	99.4	50-150	0	0		
Propylene glycol	932.2	20	1000	0	93.2	50-150	0	0		
Triethylene glycol	1004	10	1000	34.99	96.9	50-150	0	0		

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

Revision: 1

Client: HRL Compliance Solutions
Work Order: 13061057
Project: Source Gas Wolf Creek #12 13-113 6/25/13

QC BATCH REPORT

Batch ID: R122932 Instrument ID GC11 Method: SW8015M

MS	Sample ID: 13061057-06B MS				Units: mg/Kg			Analysis Date: 6/28/2013 10:52 AM		
Client ID:	BH23 10-12'			Run ID:	GC11_130627B		SeqNo:	2364464	Prep Date:	DF: 2
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylene glycol	1050	10	1000	0	105	50-150		0		
Propylene glycol	1032	10	1000	0	103	50-150		0		
Triethylene glycol	821.4	10	1000	0	82.1	50-150		0		

MSD	Sample ID: 13061064-02B MSD				Units: mg/L			Analysis Date: 6/27/2013 06:06 PM		
Client ID:	Run ID: GC11_130627B			SeqNo:	2364396	Prep Date:	DF: 2			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylene glycol	1029	10	1000	0	103	50-150	994	3.49	30	
Propylene glycol	1011	20	1000	0	101	50-150	932.2	8.15	30	
Triethylene glycol	1030	10	1000	34.99	99.5	50-150	1004	2.58	30	

MSD	Sample ID: 13061057-06B MSD				Units: mg/Kg			Analysis Date: 6/28/2013 11:04 AM		
Client ID:	Run ID: GC11_130627B			SeqNo:	2364465	Prep Date:	DF: 2			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylene glycol	1045	10	1000	0	104	50-150	1050	0.565	30	
Propylene glycol	1041	10	1000	0	104	50-150	1032	0.914	30	
Triethylene glycol	860.5	10	1000	0	86.1	50-150	821.4	4.65	30	

The following samples were analyzed in this batch:

13061057-01B	13061057-02B	13061057-03B
13061057-04B	13061057-05B	13061057-06B

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

Revision: 1

Client: HRL Compliance Solutions
Work Order: 13061057
Project: Source Gas Wolf Creek #12 13-113 6/25/13

QC BATCH REPORT

Batch ID: **R122905** Instrument ID **GC10** Method: **SW8015**

Sample ID: GBLK1-130627-R122905				Units: µg/L		Analysis Date: 6/27/2013 12:54 PM				
Client ID:		Run ID: GC10_130627A		SeqNo: 2363662		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>	108.3	0	100	0	108	70-130	0	0		
Sample ID: GLCS1-130627-R122905				Units: µg/L		Analysis Date: 6/27/2013 12:29 PM				
Client ID:		Run ID: GC10_130627A		SeqNo: 2363661		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)	8612	200	10000	0	86.1	70-130	0	0		
<i>Surr: Toluene-d8</i>	112.6	0	100	0	113	70-130	0	0		
Sample ID: 13061058-06A MS				Units: µg/L		Analysis Date: 6/27/2013 09:43 PM				
Client ID:		Run ID: GC10_130627A		SeqNo: 2364194		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)	8168	200	10000	0	81.7	70-130	0	0		
<i>Surr: Toluene-d8</i>	109	0	100	0	109	70-130	0	0		
Sample ID: 13061058-06A MSD				Units: µg/L		Analysis Date: 6/27/2013 10:08 PM				
Client ID:		Run ID: GC10_130627A		SeqNo: 2364195		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)	7849	200	10000	0	78.5	70-130	8168	3.99	30	
<i>Surr: Toluene-d8</i>	108.6	0	100	0	109	70-130	109	0.368	30	

The following samples were analyzed in this batch:

13061057-01A	13061057-02A	13061057-03A
13061057-04A	13061057-05A	13061057-06A

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

Revision: 1

Client: HRL Compliance Solutions
Work Order: 13061057
Project: Source Gas Wolf Creek #12 13-113 6/25/13

QC BATCH REPORT

Batch ID: **49358** Instrument ID **VMS5** Method: **SW8260B**

MBLK Sample ID: MBLK-49358-49358			Units: µg/Kg			Analysis Date: 6/27/2013 12:56 PM				
Client ID:		Run ID: VMS5_130627A		SeqNo: 2363098		Prep Date: 6/27/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
<i>Surr: 1,2-Dichloroethane-d4</i>	905.5	0	1000	0	90.6	70-130	0	0		
<i>Surr: 4-Bromofluorobenzene</i>	1068	0	1000	0	107	70-130	0	0		
<i>Surr: Dibromofluoromethane</i>	963	0	1000	0	96.3	70-130	0	0		
<i>Surr: Toluene-d8</i>	989.5	0	1000	0	99	70-130	0	0		

LCS Sample ID: LCS1-49358-49358			Units: µg/Kg			Analysis Date: 6/27/2013 11:46 AM				
Client ID:		Run ID: VMS5_130627A		SeqNo: 2363096		Prep Date: 6/27/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	993	30	1000	0	99.3	75-125	0	0		
Ethylbenzene	952.5	30	1000	0	95.2	75-125	0	0		
m,p-Xylene	1918	60	2000	0	95.9	80-125	0	0		
o-Xylene	961	30	1000	0	96.1	75-125	0	0		
Toluene	979	30	1000	0	97.9	70-125	0	0		
Xylenes, Total	2879	90	3000	0	96	75-125	0	0		
<i>Surr: 1,2-Dichloroethane-d4</i>	919	0	1000	0	91.9	70-130	0	0		
<i>Surr: 4-Bromofluorobenzene</i>	1072	0	1000	0	107	70-130	0	0		
<i>Surr: Dibromofluoromethane</i>	958	0	1000	0	95.8	70-130	0	0		
<i>Surr: Toluene-d8</i>	1064	0	1000	0	106	70-130	0	0		

MS Sample ID: 13061074-03A MS			Units: µg/Kg			Analysis Date: 7/1/2013 09:16 PM				
Client ID:		Run ID: VMS6_130701A		SeqNo: 2366871		Prep Date: 6/27/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1019	30	1000	0	102	75-125	0	0		
Ethylbenzene	983	30	1000	0	98.3	75-125	0	0		
m,p-Xylene	1984	60	2000	0	99.2	80-125	0	0		
o-Xylene	982	30	1000	0	98.2	75-125	0	0		
Toluene	972.5	30	1000	0	97.2	70-125	0	0		
Xylenes, Total	2966	90	3000	0	98.8	75-125	0	0		
<i>Surr: 1,2-Dichloroethane-d4</i>	994.5	0	1000	0	99.4	70-130	0	0		
<i>Surr: 4-Bromofluorobenzene</i>	991	0	1000	0	99.1	70-130	0	0		
<i>Surr: Dibromofluoromethane</i>	981.5	0	1000	0	98.2	70-130	0	0		
<i>Surr: Toluene-d8</i>	963	0	1000	0	96.3	70-130	0	0		

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

Revision: 1

Client: HRL Compliance Solutions
Work Order: 13061057
Project: Source Gas Wolf Creek #12 13-113 6/25/13

QC BATCH REPORT

Batch ID: **49358** Instrument ID **VMS5** Method: **SW8260B**

MSD	Sample ID: 13061074-03A MSD			Units: µg/Kg			Analysis Date: 7/1/2013 09:41 PM			
Client ID:	Run ID: VMS6_130701A			SeqNo: 2366872			Prep Date: 6/27/2013			DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	941.5	30	1000	0	94.2	75-125	1019	7.91	30	
Ethylbenzene	943.5	30	1000	0	94.4	75-125	983	4.1	30	
m,p-Xylene	1890	60	2000	0	94.5	80-125	1984	4.8	30	
o-Xylene	952	30	1000	0	95.2	75-125	982	3.1	30	
Toluene	925.5	30	1000	0	92.6	70-125	972.5	4.95	30	
Xylenes, Total	2842	90	3000	0	94.8	75-125	2966	4.24	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	968.5	0	1000	0	96.8	70-130	994.5	2.65	30	
<i>Surr: 4-Bromofluorobenzene</i>	1013	0	1000	0	101	70-130	991	2.2	30	
<i>Surr: Dibromofluoromethane</i>	976	0	1000	0	97.6	70-130	981.5	0.562	30	
<i>Surr: Toluene-d8</i>	976.5	0	1000	0	97.6	70-130	963	1.39	30	

The following samples were analyzed in this batch:

13061057-01A	13061057-02A	13061057-03A
13061057-04A	13061057-05A	13061057-06A

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

Revision: 1

Client: HRL Compliance Solutions
Work Order: 13061057
Project: Source Gas Wolf Creek #12 13-113 6/25/13

QC BATCH REPORT

Batch ID: R122898 Instrument ID MOIST Method: A2540 G

MBLK Sample ID: WBLKS-R122898				Units: % of sample			Analysis Date: 6/27/2013 08:24 AM			
Client ID:		Run ID: MOIST_130627A		SeqNo: 2363495		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-R122898				Units: % of sample			Analysis Date: 6/27/2013 08:24 AM			
Client ID:		Run ID: MOIST_130627A		SeqNo: 2363491		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: 13061015-01A DUP				Units: % of sample			Analysis Date: 6/27/2013 08:24 AM			
Client ID:		Run ID: MOIST_130627A		SeqNo: 2363481		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture		22.67	0.050	0	0	0	0-0	20.1	12	20
DUP Sample ID: 13061057-01B DUP				Units: % of sample			Analysis Date: 6/27/2013 08:24 AM			
Client ID: BH20/PZ07 2-4'		Run ID: MOIST_130627A		SeqNo: 2363484		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture		23.67	0.050	0	0	0	0-0	24.45	3.24	20

The following samples were analyzed in this batch:

13061057-01B	13061057-02B	13061057-03B
13061057-04B	13061057-05B	13061057-06B

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

Revision: 1



ALS Laboratory Group

3362 128th Avenue Holland MI, 49424

PH: (616) 399-6070

Chain-of-Custody

Form 202r8

WORKORDER #	13061057
PAGE	1 of 1
DISPOSAL	By Lab or Return to Client

PROJECT NAME	SourceGeo Wolf Creek #12	SAMPLER	Mike Lobato			DATE	6/25/13
PROJECT No.	13-113	SITE ID	Wolf Creek #12			TURNAROUND	24 hr
COMPANY NAME	HRL Compliance Solutions Inc.	BILL TO COMPANY	HRL Compliance Solutions,			DEQ SW8015M GRO SW8015 Glycol SW8015M BTTEX SW8260 Mutagen SW8015M	
SEND REPORT TO	Herman Lucero, Mike Lobato	INVOICE ATTN TO	Herman Lucero				
ADDRESS	2385 F $\frac{1}{2}$ Rd.	ADDRESS	2385 F $\frac{1}{2}$ Rd.				
CITY / STATE / ZIP	Grand Junction, CO 81505	CITY / STATE / ZIP	Grand Junction, CO 81505				
PHONE	970 - 243-3271	PHONE	970-243-3271				
FAX	970-243-3280	FAX	970-243-3280				
E-MAIL	hlucero@hrlcomp.com, mlobato@hrlcomp.com	E-MAIL	hlucero@hrlcomp.com				
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC
1	BH 20 / PZ 20 6'-4'	S	6/25/13	1050	2	8	XXXXXX
2	BH 21 / PZ 21 6'-8'			1159			
3	BH 22 / PZ 22 6'-4'			1227			
4	BH 22 / PZ 22 6'-8'			1231			
5	BH 23 6'-8'			1310			
6	BH 23 10'-12'	↓	↓	1314	↓	↓	↓↓↓↓
JP 11/11/13							

*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: If moisture >30%, please adjust parameters to within QC spec and CSEV standards.

3.8 <

QC PACKAGE (check below)	
<input checked="" type="checkbox"/>	LEVEL II (Standard QC)
<input type="checkbox"/>	LEVEL III (Std QC + forms)
<input type="checkbox"/>	LEVEL IV (Std QC + forms + raw data)

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
Mike Lobato	Mike Lobato	6-25-13	1640
Nich M.	Nich M.	6-25-13	1700
Diane F. Slaw	Diane F. Slaw	6/27/13	0900
RECEIVED BY			
RELINQUISHED BY			
RECEIVED BY			
RELINQUISHED BY			
RECEIVED BY			

SOILS	
WOLF CREEK #12	WOLF CREEK #12
OLD	AMMENDED
BH1/PZ1 2'-4'	BH01/PZ01 2'-4'
BH1/PZ1 4'-6'	BH01/PZ01 4'-6'
BH2/PZ2 0'-2'	BH02/PZ02 0'-2'
BH2/PZ2 6'-8'	BH02/PZ02 6'-8'
BH3 4'-6'	BH03 4'-6'
BH3 10'-12'	BH03 10'-12'
BH4 0'-2'	BH04 0'-2'
BH4 10'-12'	BH04 10'-12'
BH5 8'-12'	BH05 8'-12'
BH5 10'-12'	BH05 10'-12'
BH6/PZ6 2'-4'	BH06/PZ03 2'-4'
BH6/PZ6 4'-6'	BH06/PZ03 4'-6'
BH7 6'-8'	BH07 6'-8'
BH7 10'-12'	BH07 10'-12'
BH8 8'-10'	BH08 8'-10'
BH8 10'-12'	BH08 10'-12'
BH9 0'-2'	BH09 0'-2'
BH9 10'-12'	BH09 10'-12'
BH10/PZ10 0'-2'	BH10/PZ04 0'-2'
BH10/PZ10 2'-4'	BH10/PZ04 2'-4'
BH11/PZ11 4'-6'	BH11/PZ05 4'-6'
BH11/PZ11 6'-8'	BH11/PZ05 6'-8'
BH12/PZ12 2'-4'	BH12/PZ06 2'-4'
BH12/PZ12 4'-6'	BH12/PZ06 4'-6'
BH13 4'-6"	BH13 4'-6'
BH13 6'-8'	BH13 6'-8'
BH14 0'-2'	BH14 0'-2'
BH14 10'-12'	BH14 10'-12'
BH15 8'-10'	BH15 8'-10'
BH16 8.5-9.5'	BH16 8.5'-9.5'
BH16A 2-3'	BH16A 2'-3'
BH17 8'-10'	BH17 8'-10'
BH18 8'-10'	BH18 8'-10'
BH20/PZ20 2-4'	BH20/PZ07 2'-4'
BH21/PZ21 6-8'	BH21/PZ08 6'-8'
BH22/PZ22 4-6'	BH22/PZ09 4'-6'
BH22/PZ22 6-8'	BH22/PZ09 6'-8'
BH23 6-8'	BH23 6'-8'
BH23 10-12'	BH23 10'-12'

WATER	
WOLF CREEK #12	WOLF CREEK #12
OLD	AMMENDED
BH1/PZ1	BH01/PZ01
BH2/PZ2	BH02/PZ02
BH6/PZ6	BH06/PZ03
BH10/PZ10	BH10/PZ04
BH11/PZ11	BH11/PZ05
BH12/PZ12	BH12/PZ06
BH20/PZ20	BH20/PZ07
BH21/PZ21	BH21/PZ08
BH22/PZ22	BH22/PZ09

1306367

13061065

W0# 13061057

1306369
1306971

13061064

SOILS	
WOLF CREEK #5	WOLF CREEK #5
OLD	AMMENDED
Piez01/SS01	Piez01/SS01
Piez01/SS01 Duplicate	Piez01/SS01 Duplicate
SS02	SS02
Piez03/SS03	Piez02/SS03
Piez04/SS04	SS04
Piez05/SS05	Piez03/SS05
Piez06/SS06	SS06

? } 1307003 ✓

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 27-Jun-13 09:30

Work Order: 13061057

Received by: DS

Checklist completed by Diane Sham

eSignature

27-Jun-13

Date

Reviewed by: Ann Preston

eSignature

28-Jun-13

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):

3.8 c

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

6/27/2013 9:40:19 AM

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:

Revision: 1

SRC Page 1 of 1

From: (970) 424-4749
Lab Hub, LLC
127 E First Street
PARACHUTE, CO 81635

Origin ID: RILA



Ship Date: 25JUN13
ActWgt 55.0 LB
CAD: 103923490/INET3370

Dims: 25 X 14 X 15 IN

SHIP TO: (616) 399-6970
BILL RECIPIENT

Sample receiving
ALS Holland
3352 128TH AVE

HOLLAND, MI 49424

Delivery Address Bar Code



Ref # 1001-062513-2
Invoice #
PO #
Dept #

WED - 26 JUN 3:00P
STANDARD OVERNIGHT

TRK# 7960 9265 2673
0201

49424
MI-US
GRR



518G1D777R3A8

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Lab Hill LLC Custody seal

Date: 1/25
Time: 10:00

Lab Hub LLC. Custody seal

Date: 12/25
Time: 11:00



12-Jul-2013

Herman Lucero
HRL Compliance Solutions
2385 F 1/2 Road
Grand Junction, CO 81505

Re: **Source Gas Wolf Creek #12 13-113 6/24/13**

Work Order: **13061065**

Revision: **1**

Dear Herman,

ALS Environmental received 5 samples on 27-Jun-2013 09:30 AM for the analyses presented in the following report.

This is a REVISED REPORT. The Case Narrative provides information discussing the reason for issuing a revised report. The total number of pages in this revision is 23.

If you have any questions regarding these test results, 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: MN 532786

Report of Laboratory Analysis

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

ALS GROUP USA, CORP Part of the ALS Group An ALS Limited Company

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/24/13
Work Order: **13061065**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
13061065-01	BH15 8'-10'	Soil		6/24/2013 12:17	6/27/2013 09:30	<input type="checkbox"/>
13061065-02	BH16 8.5'-9.5'	Soil		6/24/2013 13:16	6/27/2013 09:30	<input type="checkbox"/>
13061065-03	BH17 8'-10'	Soil		6/24/2013 14:24	6/27/2013 09:30	<input type="checkbox"/>
13061065-04	BH18 8'-10'	Soil		6/24/2013 15:35	6/27/2013 09:30	<input type="checkbox"/>
13061065-05	BH16A 2'-3'	Soil		6/24/2013 16:06	6/27/2013 09:30	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/24/13
Work Order: 13061065

Case Narrative

At the request of the client, the sample IDs were changed in this revised report. No results were changed.

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/24/13
WorkOrder: 13061065

**QUALIFIERS,
ACRONYMS, UNITS****Qualifier**

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

Acronym

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported

<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

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/24/13 **Work Order:** 13061065
Sample ID: BH15 8'-10' **Lab ID:** 13061065-01
Collection Date: 6/24/2013 12:17 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep Date: 6/27/2013	Analyst: CW
DRO (C10-C28)	26		5.1	mg/Kg-dry	1	6/27/2013 09:53 PM
Surr: 4-Terphenyl-d14	55.7		39-115	%REC	1	6/27/2013 09:53 PM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	ND		6.2	mg/Kg-dry	1	6/28/2013 08:30 AM
Methanol	ND		6.2	mg/Kg-dry	1	6/28/2013 03:38 AM
Propylene glycol	ND		6.2	mg/Kg-dry	1	6/28/2013 08:30 AM
Triethylene glycol	ND		6.2	mg/Kg-dry	1	6/28/2013 08:30 AM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	ND		3.1	mg/Kg-dry	50	6/27/2013 03:48 PM
Surr: Toluene-d8	103		50-150	%REC	50	6/27/2013 03:48 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep Date: 6/27/2013	Analyst: RS
Benzene	ND		37	µg/Kg-dry	1	6/27/2013 03:09 PM
Ethylbenzene	ND		37	µg/Kg-dry	1	6/27/2013 03:09 PM
m,p-Xylene	ND		75	µg/Kg-dry	1	6/27/2013 03:09 PM
o-Xylene	ND		37	µg/Kg-dry	1	6/27/2013 03:09 PM
Toluene	ND		37	µg/Kg-dry	1	6/27/2013 03:09 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	6/27/2013 03:09 PM
Surr: 1,2-Dichloroethane-d4	91.7		70-130	%REC	1	6/27/2013 03:09 PM
Surr: 4-Bromofluorobenzene	86.8		70-130	%REC	1	6/27/2013 03:09 PM
Surr: Dibromofluoromethane	94.2		70-130	%REC	1	6/27/2013 03:09 PM
Surr: Toluene-d8	94.8		70-130	%REC	1	6/27/2013 03:09 PM
MOISTURE			A2540 G			Analyst: CH
Moisture	20		0.050	% of sample	1	6/27/2013 02:33 PM

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

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/24/13 **Work Order:** 13061065
Sample ID: BH16 8.5'-9.5' **Lab ID:** 13061065-02
Collection Date: 6/24/2013 01:16 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	ND		5.1	mg/Kg-dry	1	6/27/2013 10:23 PM
Surr: 4-Terphenyl-d14	45.4		39-115	%REC	1	6/27/2013 10:23 PM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	ND		6.2	mg/Kg-dry	1	6/28/2013 08:42 AM
Methanol	ND		6.2	mg/Kg-dry	1	6/28/2013 04:06 AM
Propylene glycol	ND		6.2	mg/Kg-dry	1	6/28/2013 08:42 AM
Triethylene glycol	ND		6.2	mg/Kg-dry	1	6/28/2013 08:42 AM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	ND		3.1	mg/Kg-dry	50	6/27/2013 04:13 PM
Surr: Toluene-d8	103		50-150	%REC	50	6/27/2013 04:13 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep Date: 6/27/2013	Analyst: RS
Benzene	ND		37	µg/Kg-dry	1	6/27/2013 03:32 PM
Ethylbenzene	ND		37	µg/Kg-dry	1	6/27/2013 03:32 PM
m,p-Xylene	ND		75	µg/Kg-dry	1	6/27/2013 03:32 PM
o-Xylene	ND		37	µg/Kg-dry	1	6/27/2013 03:32 PM
Toluene	ND		37	µg/Kg-dry	1	6/27/2013 03:32 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	6/27/2013 03:32 PM
Surr: 1,2-Dichloroethane-d4	93.6		70-130	%REC	1	6/27/2013 03:32 PM
Surr: 4-Bromofluorobenzene	86.8		70-130	%REC	1	6/27/2013 03:32 PM
Surr: Dibromofluoromethane	96.4		70-130	%REC	1	6/27/2013 03:32 PM
Surr: Toluene-d8	92.8		70-130	%REC	1	6/27/2013 03:32 PM
MOISTURE			A2540 G			Analyst: CH
Moisture	20		0.050	% of sample	1	6/27/2013 02:33 PM

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

ALS Group USA, Corp
Date: 11-Jul-13

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/24/13 **Work Order:** 13061065
Sample ID: BH17 8'-10' **Lab ID:** 13061065-03
Collection Date: 6/24/2013 02:24 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	28		5.2	mg/Kg-dry	1	Analyst: CW 6/27/2013 10:53 PM
Surr: 4-Terphenyl-d14	43.4		39-115	%REC	1	6/27/2013 10:53 PM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	ND		6.4	mg/Kg-dry	1	6/28/2013 08:54 AM
Methanol	ND		6.4	mg/Kg-dry	1	6/28/2013 04:34 AM
Propylene glycol	ND		6.4	mg/Kg-dry	1	6/28/2013 08:54 AM
Triethylene glycol	44		6.4	mg/Kg-dry	1	6/28/2013 08:54 AM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	ND		3.2	mg/Kg-dry	50	6/27/2013 04:39 PM
Surr: Toluene-d8	103		50-150	%REC	50	6/27/2013 04:39 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep Date: 6/27/2013	Analyst: RS
Benzene	ND		38	µg/Kg-dry	1	6/27/2013 03:55 PM
Ethylbenzene	ND		38	µg/Kg-dry	1	6/27/2013 03:55 PM
m,p-Xylene	ND		76	µg/Kg-dry	1	6/27/2013 03:55 PM
o-Xylene	ND		38	µg/Kg-dry	1	6/27/2013 03:55 PM
Toluene	ND		38	µg/Kg-dry	1	6/27/2013 03:55 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	6/27/2013 03:55 PM
Surr: 1,2-Dichloroethane-d4	97.0		70-130	%REC	1	6/27/2013 03:55 PM
Surr: 4-Bromofluorobenzene	90.8		70-130	%REC	1	6/27/2013 03:55 PM
Surr: Dibromofluoromethane	97.1		70-130	%REC	1	6/27/2013 03:55 PM
Surr: Toluene-d8	99.2		70-130	%REC	1	6/27/2013 03:55 PM
MOISTURE			A2540 G			Analyst: CH
Moisture	21		0.050	% of sample	1	6/27/2013 02:33 PM

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

Revision: 1

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/24/13 **Work Order:** 13061065
Sample ID: BH18 8'-10' **Lab ID:** 13061065-04
Collection Date: 6/24/2013 03:35 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	ND		5.3	mg/Kg-dry	1	6/27/2013 11:23 PM
Surr: 4-Terphenyl-d14	45.1		39-115	%REC	1	6/27/2013 11:23 PM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	ND		6.4	mg/Kg-dry	1	6/28/2013 09:05 AM
Methanol	ND		6.4	mg/Kg-dry	1	6/28/2013 06:00 AM
Propylene glycol	ND		6.4	mg/Kg-dry	1	6/28/2013 09:05 AM
Triethylene glycol	25		6.4	mg/Kg-dry	1	6/28/2013 09:05 AM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	ND		3.2	mg/Kg-dry	50	6/27/2013 05:04 PM
Surr: Toluene-d8	103		50-150	%REC	50	6/27/2013 05:04 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep Date: 6/27/2013	Analyst: RS
Benzene	ND		38	µg/Kg-dry	1	6/27/2013 04:18 PM
Ethylbenzene	ND		38	µg/Kg-dry	1	6/27/2013 04:18 PM
m,p-Xylene	100		76	µg/Kg-dry	1	6/27/2013 04:18 PM
o-Xylene	ND		38	µg/Kg-dry	1	6/27/2013 04:18 PM
Toluene	ND		38	µg/Kg-dry	1	6/27/2013 04:18 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	6/27/2013 04:18 PM
Surr: 1,2-Dichloroethane-d4	93.4		70-130	%REC	1	6/27/2013 04:18 PM
Surr: 4-Bromofluorobenzene	86.8		70-130	%REC	1	6/27/2013 04:18 PM
Surr: Dibromofluoromethane	93.8		70-130	%REC	1	6/27/2013 04:18 PM
Surr: Toluene-d8	92.0		70-130	%REC	1	6/27/2013 04:18 PM
MOISTURE			A2540 G			Analyst: CH
Moisture	21		0.050	% of sample	1	6/27/2013 02:33 PM

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

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/24/13 **Work Order:** 13061065
Sample ID: BH16A 2'-3' **Lab ID:** 13061065-05
Collection Date: 6/24/2013 04:06 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep Date: 6/27/2013	Analyst: CW
DRO (C10-C28)	39		5.6	mg/Kg-dry	1	6/27/2013 11:53 PM
Surr: 4-Terphenyl-d14	48.5		39-115	%REC	1	6/27/2013 11:53 PM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	ND		6.8	mg/Kg-dry	1	6/28/2013 09:17 AM
Methanol	ND		6.8	mg/Kg-dry	1	6/28/2013 06:28 AM
Propylene glycol	ND		6.8	mg/Kg-dry	1	6/28/2013 09:17 AM
Triethylene glycol	ND		6.8	mg/Kg-dry	1	6/28/2013 09:17 AM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	ND		3.4	mg/Kg-dry	50	6/27/2013 05:29 PM
Surr: Toluene-d8	96.3		50-150	%REC	50	6/27/2013 05:29 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep Date: 6/27/2013	Analyst: RS
Benzene	ND		41	µg/Kg-dry	1	6/27/2013 02:46 PM
Ethylbenzene	ND		41	µg/Kg-dry	1	6/27/2013 02:46 PM
m,p-Xylene	ND		81	µg/Kg-dry	1	6/27/2013 02:46 PM
o-Xylene	ND		41	µg/Kg-dry	1	6/27/2013 02:46 PM
Toluene	97		41	µg/Kg-dry	1	6/27/2013 02:46 PM
Xylenes, Total	ND		120	µg/Kg-dry	1	6/27/2013 02:46 PM
Surr: 1,2-Dichloroethane-d4	95.6		70-130	%REC	1	6/27/2013 02:46 PM
Surr: 4-Bromofluorobenzene	81.8		70-130	%REC	1	6/27/2013 02:46 PM
Surr: Dibromofluoromethane	97.7		70-130	%REC	1	6/27/2013 02:46 PM
Surr: Toluene-d8	94.4		70-130	%REC	1	6/27/2013 02:46 PM
MOISTURE			A2540 G			Analyst: CH
Moisture	26		0.050	% of sample	1	6/27/2013 02:33 PM

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

Client: HRL Compliance Solutions

Work Order: 13061065

Project: Source Gas Wolf Creek #12 13-113 6/24/13

QC BATCH REPORT

Batch ID: 49357

Instrument ID GC8

Method: SW8015M

MBLK		Sample ID: DBLKS1-49357-49357		Units: mg/Kg		Analysis Date: 6/27/2013 04:24 PM		
Client ID:		Run ID: GC8_130627B		SeqNo: 2364628		Prep Date: 6/27/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit
DRO (C10-C28)	ND	4.2						
Surr: 4-Terphenyl-d14	0.7267	0	1.667	0	43.6	39-115	0	

LCS		Sample ID: DLCSS1-49357-49357		Units: mg/Kg		Analysis Date: 6/27/2013 04:54 PM		
Client ID:		Run ID: GC8_130627B		SeqNo: 2364629		Prep Date: 6/27/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit
DRO (C10-C28)	154.6	4.2	166.7	0	92.8	49-124	0	
Surr: 4-Terphenyl-d14	0.8337	0	1.667	0	50	39-115	0	

MS		Sample ID: 13061057-06B MS		Units: mg/Kg		Analysis Date: 6/27/2013 05:24 PM		
Client ID:		Run ID: GC8_130627B		SeqNo: 2364630		Prep Date: 6/27/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit
DRO (C10-C28)	281.2	7.9	317.6	0	88.5	49-130	0	
Surr: 4-Terphenyl-d14	1.428	0	3.176	0	45	39-115	0	

MSD		Sample ID: 13061057-06B MSD		Units: mg/Kg		Analysis Date: 6/27/2013 05:54 PM		
Client ID:		Run ID: GC8_130627B		SeqNo: 2364631		Prep Date: 6/27/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit
DRO (C10-C28)	298.6	8.2	327.4	0	91.2	49-130	281.2	6.03
Surr: 4-Terphenyl-d14	1.566	0	3.274	0	47.8	39-115	1.428	9.17
								30

The following samples were analyzed in this batch:

13061065-01B	13061065-02B	13061065-03B
13061065-04B	13061065-05B	

Client: HRL Compliance Solutions
Work Order: 13061065
Project: Source Gas Wolf Creek #12 13-113 6/24/13

QC BATCH REPORT

Batch ID: R122931 Instrument ID GC5 Method: SW8015M

MBLK	Sample ID: MB-R122931-R122931			Units: mg/L			Analysis Date: 6/27/2013 06:05 PM			
Client ID:	Run ID: GC5_130627B			SeqNo: 2364342			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Methanol ND 5.0

MBLK	Sample ID: MB-R122931-R122931			Units: mg/Kg			Analysis Date: 6/27/2013 11:21 PM			
Client ID:	Run ID: GC5_130627B			SeqNo: 2364376			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Methanol ND 5.0

LCS	Sample ID: LCS-R122931-R122931			Units: mg/L			Analysis Date: 6/27/2013 06:34 PM			
Client ID:	Run ID: GC5_130627B			SeqNo: 2364343			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Methanol 471.3 5.0 500 0 94.3 50-150 0

LCS	Sample ID: LCS-R122931-R122931			Units: mg/Kg			Analysis Date: 6/27/2013 11:49 PM			
Client ID:	Run ID: GC5_130627B			SeqNo: 2364377			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Methanol 488.5 5.0 500 0 97.7 50-150 0

MS	Sample ID: 13061064-02B MS			Units: mg/L			Analysis Date: 6/27/2013 08:00 PM			
Client ID:	Run ID: GC5_130627B			SeqNo: 2364347			Prep Date:		DF: 2	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Methanol 946 10 1000 0 94.6 50-150 0

MS	Sample ID: 13061065-03A MS			Units: mg/Kg			Analysis Date: 6/28/2013 05:03 AM			
Client ID: BH17 8'-10'	Run ID: GC5_130627B			SeqNo: 2364387			Prep Date:		DF: 2	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Methanol 990.1 10 1000 0 99 50-150 0

MSD	Sample ID: 13061064-02B MSD			Units: mg/L			Analysis Date: 6/27/2013 08:29 PM			
Client ID:	Run ID: GC5_130627B			SeqNo: 2364348			Prep Date:		DF: 2	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Methanol 963 10 1000 0 96.3 50-150 946 1.78 30

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

Revision: 1

Client: HRL Compliance Solutions
Work Order: 13061065
Project: Source Gas Wolf Creek #12 13-113 6/24/13

QC BATCH REPORT

Batch ID: **R122931** Instrument ID **GC5** Method: **SW8015M**

MSD Sample ID: 13061065-03A MSD			Units: mg/Kg			Analysis Date: 6/28/2013 05:31 AM				
Client ID: BH17 8'-10'		Run ID: GC5_130627B		SeqNo: 2364388		Prep Date:		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methanol	980.9	10	1000	0	98.1	50-150	990.1	0.933	30	

The following samples were analyzed in this batch:

13061065-01A	13061065-02A	13061065-03A
13061065-04A	13061065-05A	

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

Revision: 1

QC Page: 3 of 9

Client: HRL Compliance Solutions
Work Order: 13061065
Project: Source Gas Wolf Creek #12 13-113 6/24/13

QC BATCH REPORT

Batch ID: **R122932** Instrument ID **GC11** Method: **SW8015M**

MBLK		Sample ID: MB-R122932-R122932		Units: mg/L		Analysis Date: 6/27/2013 05:21 PM		
Client ID:		Run ID: GC11_130627B		SeqNo: 2364391		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Ethylene glycol	ND	5.0						
Propylene glycol	ND	10						
Triethylene glycol	ND	5.0						

MBLK		Sample ID: MB-R122932-R122932		Units: mg/Kg		Analysis Date: 6/27/2013 06:51 PM		
Client ID:		Run ID: GC11_130627B		SeqNo: 2364456		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Ethylene glycol	ND	5.0						
Propylene glycol	ND	5.0						
Triethylene glycol	ND	5.0						

LCS		Sample ID: LCS-R122932-R122932		Units: mg/L		Analysis Date: 6/27/2013 06:17 PM		
Client ID:		Run ID: GC11_130627B		SeqNo: 2364392		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Ethylene glycol	515.6	5.0	500	0	103	50-150	0	
Propylene glycol	499.7	10	500	0	99.9	50-150	0	
Triethylene glycol	514.8	5.0	500	0	103	50-150	0	

LCS		Sample ID: LCS-R122932-R122932		Units: mg/Kg		Analysis Date: 6/28/2013 09:29 AM		
Client ID:		Run ID: GC11_130627B		SeqNo: 2364457		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Ethylene glycol	531.8	5.0	500	0	106	50-150	0	
Propylene glycol	526.1	5.0	500	0	105	50-150	0	
Triethylene glycol	301.8	5.0	500	0	60.4	50-150	0	

MS		Sample ID: 13061064-02B MS		Units: mg/L		Analysis Date: 6/27/2013 05:55 PM		
Client ID:		Run ID: GC11_130627B		SeqNo: 2364395		Prep Date:		DF: 2
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Ethylene glycol	994	10	1000	0	99.4	50-150	0	
Propylene glycol	932.2	20	1000	0	93.2	50-150	0	
Triethylene glycol	1004	10	1000	34.99	96.9	50-150	0	

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

Revision: 1

Client: HRL Compliance Solutions
Work Order: 13061065
Project: Source Gas Wolf Creek #12 13-113 6/24/13

QC BATCH REPORT

Batch ID: **R122932** Instrument ID **GC11** Method: **SW8015M**

MS Sample ID: 13061057-06B MS				Units: mg/Kg			Analysis Date: 6/28/2013 10:52 AM			
Client ID:		Run ID: GC11_130627B		SeqNo: 2364464		Prep Date:		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylene glycol	1050	10	1000	0	105	50-150		0		
Propylene glycol	1032	10	1000	0	103	50-150		0		
Triethylene glycol	821.4	10	1000	0	82.1	50-150		0		

MSD Sample ID: 13061064-02B MSD				Units: mg/L			Analysis Date: 6/27/2013 06:06 PM			
Client ID:		Run ID: GC11_130627B		SeqNo: 2364396		Prep Date:		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylene glycol	1029	10	1000	0	103	50-150	994	3.49	30	
Propylene glycol	1011	20	1000	0	101	50-150	932.2	8.15	30	
Triethylene glycol	1030	10	1000	34.99	99.5	50-150	1004	2.58	30	

MSD Sample ID: 13061057-06B MSD				Units: mg/Kg			Analysis Date: 6/28/2013 11:04 AM			
Client ID:		Run ID: GC11_130627B		SeqNo: 2364465		Prep Date:		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylene glycol	1045	10	1000	0	104	50-150	1050	0.565	30	
Propylene glycol	1041	10	1000	0	104	50-150	1032	0.914	30	
Triethylene glycol	860.5	10	1000	0	86.1	50-150	821.4	4.65	30	

The following samples were analyzed in this batch:

13061065-01B	13061065-02B	13061065-03B
13061065-04B	13061065-05B	

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

Revision: 1

QC Page: 5 of 9

Client: HRL Compliance Solutions
Work Order: 13061065
Project: Source Gas Wolf Creek #12 13-113 6/24/13

QC BATCH REPORT

Batch ID: **R122905** Instrument ID **GC10** Method: **SW8015**

Mblk				Sample ID: GBLK1-130627-R122905			Units: µg/L		Analysis Date: 6/27/2013 12:54 PM		
Client ID:		Run ID: GC10_130627A		SeqNo: 2363662			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	108.3	0	100	0	108	70-130		0			
LCS				Sample ID: GLCS1-130627-R122905			Units: µg/L		Analysis Date: 6/27/2013 12:29 PM		
Client ID:		Run ID: GC10_130627A		SeqNo: 2363661			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)	8612	200	10000	0	86.1	70-130		0			
Surr: Toluene-d8	112.6	0	100	0	113	70-130		0			
MS				Sample ID: 13061058-06A MS			Units: µg/L		Analysis Date: 6/27/2013 09:43 PM		
Client ID:		Run ID: GC10_130627A		SeqNo: 2364194			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)	8168	200	10000	0	81.7	70-130		0			
Surr: Toluene-d8	109	0	100	0	109	70-130		0			
MSD				Sample ID: 13061058-06A MSD			Units: µg/L		Analysis Date: 6/27/2013 10:08 PM		
Client ID:		Run ID: GC10_130627A		SeqNo: 2364195			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)	7849	200	10000	0	78.5	70-130	8168	3.99	30		
Surr: Toluene-d8	108.6	0	100	0	109	70-130	109	0.368	30		

The following samples were analyzed in this batch:

13061065-01A	13061065-02A	13061065-03A
13061065-04A	13061065-05A	

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

Revision: 1

QC Page: 6 of 9

Client: HRL Compliance Solutions
Work Order: 13061065
Project: Source Gas Wolf Creek #12 13-113 6/24/13

QC BATCH REPORT

Batch ID: **49358** Instrument ID **VMS5** Method: **SW8260B**

MBLK Sample ID: MBLK-49358-49358			Units: µg/Kg			Analysis Date: 6/27/2013 12:56 PM				
Client ID:		Run ID: VMS5_130627A		SeqNo: 2363098		Prep Date: 6/27/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
<i>Surr: 1,2-Dichloroethane-d4</i>	905.5	0	1000	0	90.6	70-130	0	0		
<i>Surr: 4-Bromofluorobenzene</i>	1068	0	1000	0	107	70-130	0	0		
<i>Surr: Dibromofluoromethane</i>	963	0	1000	0	96.3	70-130	0	0		
<i>Surr: Toluene-d8</i>	989.5	0	1000	0	99	70-130	0	0		

LCS Sample ID: LCS1-49358-49358			Units: µg/Kg			Analysis Date: 6/27/2013 11:46 AM				
Client ID:		Run ID: VMS5_130627A		SeqNo: 2363096		Prep Date: 6/27/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	993	30	1000	0	99.3	75-125	0	0		
Ethylbenzene	952.5	30	1000	0	95.2	75-125	0	0		
m,p-Xylene	1918	60	2000	0	95.9	80-125	0	0		
o-Xylene	961	30	1000	0	96.1	75-125	0	0		
Toluene	979	30	1000	0	97.9	70-125	0	0		
Xylenes, Total	2879	90	3000	0	96	75-125	0	0		
<i>Surr: 1,2-Dichloroethane-d4</i>	919	0	1000	0	91.9	70-130	0	0		
<i>Surr: 4-Bromofluorobenzene</i>	1072	0	1000	0	107	70-130	0	0		
<i>Surr: Dibromofluoromethane</i>	958	0	1000	0	95.8	70-130	0	0		
<i>Surr: Toluene-d8</i>	1064	0	1000	0	106	70-130	0	0		

MS Sample ID: 13061074-03A MS			Units: µg/Kg			Analysis Date: 7/1/2013 09:16 PM				
Client ID:		Run ID: VMS6_130701A		SeqNo: 2366871		Prep Date: 6/27/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1019	30	1000	0	102	75-125	0	0		
Ethylbenzene	983	30	1000	0	98.3	75-125	0	0		
m,p-Xylene	1984	60	2000	0	99.2	80-125	0	0		
o-Xylene	982	30	1000	0	98.2	75-125	0	0		
Toluene	972.5	30	1000	0	97.2	70-125	0	0		
Xylenes, Total	2966	90	3000	0	98.8	75-125	0	0		
<i>Surr: 1,2-Dichloroethane-d4</i>	994.5	0	1000	0	99.4	70-130	0	0		
<i>Surr: 4-Bromofluorobenzene</i>	991	0	1000	0	99.1	70-130	0	0		
<i>Surr: Dibromofluoromethane</i>	981.5	0	1000	0	98.2	70-130	0	0		
<i>Surr: Toluene-d8</i>	963	0	1000	0	96.3	70-130	0	0		

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

Revision: 1

Client: HRL Compliance Solutions
Work Order: 13061065
Project: Source Gas Wolf Creek #12 13-113 6/24/13

QC BATCH REPORT

Batch ID: **49358** Instrument ID **VMS5** Method: **SW8260B**

MSD	Sample ID: 13061074-03A MSD				Units: µg/Kg			Analysis Date: 7/1/2013 09:41 PM		
Client ID:	Run ID: VMS6_130701A			SeqNo: 2366872			Prep Date: 6/27/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	941.5	30	1000	0	94.2	75-125	1019	7.91	30	
Ethylbenzene	943.5	30	1000	0	94.4	75-125	983	4.1	30	
m,p-Xylene	1890	60	2000	0	94.5	80-125	1984	4.8	30	
o-Xylene	952	30	1000	0	95.2	75-125	982	3.1	30	
Toluene	925.5	30	1000	0	92.6	70-125	972.5	4.95	30	
Xylenes, Total	2842	90	3000	0	94.8	75-125	2966	4.24	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	968.5	0	1000	0	96.8	70-130	994.5	2.65	30	
<i>Surr: 4-Bromofluorobenzene</i>	1013	0	1000	0	101	70-130	991	2.2	30	
<i>Surr: Dibromofluoromethane</i>	976	0	1000	0	97.6	70-130	981.5	0.562	30	
<i>Surr: Toluene-d8</i>	976.5	0	1000	0	97.6	70-130	963	1.39	30	

The following samples were analyzed in this batch:

13061065-01A	13061065-02A	13061065-03A
13061065-04A	13061065-05A	

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

Revision: 1

QC Page: 8 of 9

Client: HRL Compliance Solutions
Work Order: 13061065
Project: Source Gas Wolf Creek #12 13-113 6/24/13

QC BATCH REPORT

Batch ID: **R122940** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: WBLKS-R122940				Units: % of sample			Analysis Date: 6/27/2013 02:33 PM			
Client ID:		Run ID: MOIST_130627B		SeqNo: 2364616		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-R122940				Units: % of sample			Analysis Date: 6/27/2013 02:33 PM			
Client ID:		Run ID: MOIST_130627B		SeqNo: 2364615		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: 13061039-06B DUP				Units: % of sample			Analysis Date: 6/27/2013 02:33 PM			
Client ID:		Run ID: MOIST_130627B		SeqNo: 2364600		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture		6.59	0.050	0	0	0	0-0	6.93	5.03	20

The following samples were analyzed in this batch:

13061065-01B	13061065-02B	13061065-03B
13061065-04B	13061065-05B	

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

Revision: 1

QC Page: 9 of 9


ALS Laboratory Group

3352 128th Avenue Holland MI, 49424

PH: (616) 399-6070

Chain-of-Custody

Form 202/8

WORKORDER #	13061065						
PAGE	1 of 1						
DISPOSAL	By Lab or Return to Client						
SAMPLER	Mike Lobato	DATE	6-25-13	TURNAROUND	24 hr	EDD FORMAT	
PROJECT NAME	Source Gas Wolf Creek #12	SITE ID	Wolf Creek #12				
PROJECT No.	13-113	PURCHASE ORDER					
COMPANY NAME	TRL Compliance Solutions Inc.	BILL TO COMPANY	TRL Compliance Solutions Inc.				
SEND REPORT TO	Herman Lucero, Mike Lobato	INVOICE ATTN TO	Herman Lucero				
ADDRESS	2385 F 1/2 Rd.	ADDRESS	2385 F 1/2 Rd.				
CITY / STATE / ZIP	Grand Junction, CO 81505	CITY / STATE / ZIP	Grand Junction, CO 81505				
PHONE	970-243-3271	PHONE	970-243-3271				
FAX	970-243-3280	FAX	970-243-3280				
E-MAIL	mlobato@hrlcomp.com, mlucero@hrlcomp.com	E-MAIL	h lucero@hrlcomp.com				
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC
1	BH 15 8'-10'	S	6/24/13	1217	2	8	X X X X X
2	BH 16 8.5'-9.5'			1316	2	8	
3	BH 17 8'-10'			1424	2	8	
4	BH 18 8'-10'			1535	2	8	
5	BH 16A 21-3'	↓		1606	2	8	↓ ↓ ↓ ↓ ↓

*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:

If moisture >30%, please adjust parameters to within C6GCC/CSEV standards.

3.8%

QC PACKAGE (check below)	
<input checked="" type="checkbox"/>	LEVEL II (Standard QC)
<input type="checkbox"/>	LEVEL III (Std QC + forms)
<input type="checkbox"/>	LEVEL IV (Std QC + forms + raw data)

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
Mike Lobato	Mike Lobato	6/25/13	1700
Diane F. Sha	Diane F. Sha	6/27/13	0030

SOILS	
WOLF CREEK #12	WOLF CREEK #12
OLD	AMMENDED
BH1/PZ1 2'@4'	BH01/PZ01 2'-4'
BH1/PZ1 4'@6'	BH01/PZ01 4'-6'
BH2/PZ2 0'@2'	BH02/PZ02 0'-2'
BH2/PZ2 6'@8'	BH02/PZ02 6'-8'
BH3 4'@6'	BH03 4'-6'
BH3 10'@12'	BH03 10'-12'
BH4 0'@2'	BH04 0'@2'
BH4 10'@12'	BH04 10'@12'
BH5 8'@12'	BH05 8'@12'
BH5 10'@12'	BH05 10'@12'
BH6/PZ6 2'-4'	BH06/PZ03 2'-4'
BH6/PZ6 4'@6'	BH06/PZ03 4'@6'
BH7 6'@8'	BH07 6'-8'
BH7 10'@12'	BH07 10'-12'
BH8 8'@10'	BH08 8'-10'
BH8 10'@12'	BH08 10'-12'
BH9 0'@2'	BH09 0'-2'
BH9 10'@12'	BH09 10'-12'
BH10/PZ10 0'@2'	BH10/PZ04 0'-2'
BH10/PZ10 2'@4'	BH10/PZ04 2'-4'
BH11/PZ11 4'@6'	BH11/PZ05 4'-6'
BH11/PZ11 6'@8'	BH11/PZ05 6'-8'
BH12/PZ12 2'@4'	BH12/PZ06 2'-4'
BH12/PZ12 4'@6'	BH12/PZ06 4'-6'
BH13 4'@6"	BH13 4'-6"
BH13 6'@8'	BH13 6'@8'
BH14 0'@2'	BH14 0'@2'
BH14 10'@12'	BH14 10'@12'
BH15 8-10'	BH15 8'-10'
BH16 8.5-9.5'	BH16 8.5'-9.5'
BH16A 2-3'	BH16A 2'-3'
BH17 8-10'	BH17 8'-10'
BH18 8-10'	BH18 8'-10'
BH20/PZ20 2-4'	BH20/PZ07 2'-4'
BH21/PZ21 6-8'	BH21/PZ08 6'-8'
BH22/PZ22 4-6'	BH22/PZ09 4'-6'
BH22/PZ22 6-8'	BH22/PZ09 6'-8'
BH23 6-8'	BH23 6'-8'
BH23 10-12'	BH23 10'-12'

WATER	
WOLF CREEK #12	WOLF CREEK #12
OLD	AMMENDED
BH1/PZ1	BH01/PZ01
BH2/PZ2	BH02/PZ02
BH6/PZ6	BH06/PZ03
BH10/PZ10	BH10/PZ04
BH11/PZ11	BH11/PZ05
BH12/PZ12	BH12/PZ06
BH20/PZ20	BH20/PZ07
BH21/PZ21	BH21/PZ08
BH22/PZ22	BH22/PZ09

1306367

13061065

W O # 13061057

1306369
1306971

13061064

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 27-Jun-13 09:30

Work Order: 13061065

Received by: DS

Checklist completed by Diane Sham

eSignature

27-Jun-13

Date

Reviewed by: Bill Carey

eSignature

27-Jun-13

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):

3.8 c

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

6/27/2013 10:42:03 AM

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:

Revision: 1

SRC Page 1 of 1

CUSTODY SEAL

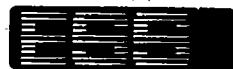


ENVIRONMENTAL SAMPLING SUPPLY
9601 San Leandro St. Oakland, CA 800-233-8425

Date: 6/25/13

Signature: M. L. Scott

CUSTODY SEAL



ENVIRONMENTAL SAMPLING SUPPLY
9601 San Leandro St. Oakland, CA 800-233-8425

Date: 6/25/13

Signature: R. W. C.

FedEx® US Airbill
Express

FedEx
Tracking
Number

8722 9438 1230

0200 Form ID No.

FedEx Copy

1 From 6/25/13 Sender's FedEx Account Number.

Sender's Name Mike Lobato Phone 970 243-3271

Company HRL Compliance Solutions, Inc

Address 2385 F 1/2 Rd

City Grand Junction State CO ZIP 81505

2 Your Internal Billing Reference

3 To Sample Receiving Phone 616 399 6070

Recipient's Name ALS Laboratory

Company 3352 128th Ave

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address Holland

Dept/Floor/Suite/Room

01 HOLD Weekday
FedEx location address
REQUIRED. NOT available for
FedEx First Overnight.

31 HOLD Saturday
FedEx location address
REQUIRED. Available ONLY for
FedEx Priority Overnight and
FedEx 2Day to select locations.

Use this line for the HOLD location address or for continuation of your shipping address.

City MI

State MI ZIP 49424



8722 9438 1230

4a Express Package Service

- | | | |
|---|---|---|
| <input checked="" type="checkbox"/> 01 FedEx Priority Overnight | * To most locations.
Next business morning. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected. | Packages up to 150 lbs. |
| <input type="checkbox"/> 05 FedEx Standard Overnight | * Next business afternoon.*
Saturday Delivery NOT available. | <input type="checkbox"/> FedEx First Overnight |
| | | Earliest next business morning delivery to select locations.* |

- 03 FedEx 2Day
Second business day. Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

- 20 FedEx Express Saver
Third business day.*
Saturday Delivery NOT available.

Packages up to 150 lbs.

- 06 FedEx First Overnight

Earliest next business morning delivery to select locations.*

4b Express Freight Service

- | | | |
|--|--|--|
| <input type="checkbox"/> 70 FedEx 1Day Freight | * To most locations.
Next business day** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected. | FedEx 1Day Freight Booking No. |
| <input type="checkbox"/> 80 FedEx 2Day Freight | Second business day. Thursday shipments will be delivered on Friday unless SATURDAY Delivery is selected. | <input type="checkbox"/> 83 FedEx 3Day Freight |
| | | Third business day.** Saturday Delivery NOT available. |

- 06 FedEx Envelope*

- 02 FedEx Pak®
Includes FedEx Small Pak and
FedEx Large Pak.

- 03 FedEx Box
 04 FedEx Tube
 01 Other

Packages over 150 lbs.

5 Packaging

- | | | | |
|--|---------------------------------------|--|--|
| <input type="checkbox"/> 06 FedEx Envelope* | * Declared value limit \$500. | | |
| <input type="checkbox"/> 02 FedEx Pak®
Includes FedEx Small Pak and
FedEx Large Pak. | <input type="checkbox"/> 03 FedEx Box | <input type="checkbox"/> 04 FedEx Tube | <input checked="" type="checkbox"/> 01 Other |

6 Special Handling and Delivery Signature Options

03 SATURDAY DELIVERY

- 05 No Signature Required
Package may be delivered
to recipient's address.

- 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.

- | | | | | |
|--|------------------------------|--|------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes | <input type="checkbox"/> As per attached
Shipper's Declaration. | <input type="checkbox"/> Yes | Dry Ice |
| <input type="checkbox"/> 04 | <input type="checkbox"/> 05 | <input type="checkbox"/> not required. | <input type="checkbox"/> 06 | Dry Ice
Dry Ice, 3, UN 1845 x kg |
| | | | <input type="checkbox"/> | Cargo Aircraft Only |
- Dangerous goods including dry ice cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

7 Payment Bill to:

- | | | | | |
|--|---|--|--|---------------------------------------|
| <input type="checkbox"/> 1 Sender
Acct No. in Section
1 will be used | <input type="checkbox"/> 2 Recipient
Acct No. in Section
2 will be used | <input type="checkbox"/> 3 Third Party | <input type="checkbox"/> 4 Credit Card | <input type="checkbox"/> 5 Cash/Check |
| FedEx Acct No.
Credit Card No. | 222973422 | | | Exp. Date |

Total Packages Total Weight Total Declared Value* Credit Card Auth.

lbs. \$ _____ .00

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

606

FOR FEDEX USE ONLY—PLEASE DO NOT REMOVE THIS COPY



12-Jul-2013

Herman Lucero
HRL Compliance Solutions
2385 F 1/2 Road
Grand Junction, CO 81505

Re: **Source Gas Wolf Creek Well #12 6/8-6/9/13**

Work Order: **1306367**

Dear Herman,

Revision: **1**

ALS Environmental received 28 samples on 11-Jun-2013 09:30 AM for the analyses presented in the following report.

This is a REVISED REPORT. The Case Narrative provides information discussing the reason for issuing a revised report. The total number of pages in this revision is 51.

If you have any questions regarding these test results, 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: MN 532786

Report of Laboratory Analysis

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

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13
Work Order: 1306367

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1306367-01	BH01/PZ01 2'-4'	Soil		6/8/2013 11:23	6/11/2013 09:30	<input type="checkbox"/>
1306367-02	BH01/PZ01 4'-6'	Soil		6/8/2013 11:26	6/11/2013 09:30	<input type="checkbox"/>
1306367-03	BH02/PZ02 0'-2'	Soil		6/8/2013 11:47	6/11/2013 09:30	<input type="checkbox"/>
1306367-04	BH02/PZ02 6'-8'	Soil		6/8/2013 12:15	6/11/2013 09:30	<input type="checkbox"/>
1306367-05	BH03 4'-6'	Soil		6/8/2013 12:46	6/11/2013 09:30	<input type="checkbox"/>
1306367-06	BH03 10'-12'	Soil		6/8/2013 13:06	6/11/2013 09:30	<input type="checkbox"/>
1306367-07	BH04 0'-2'	Soil		6/8/2013 13:24	6/11/2013 09:30	<input type="checkbox"/>
1306367-08	BH04 10'-12'	Soil		6/8/2013 13:16	6/11/2013 09:30	<input type="checkbox"/>
1306367-09	BH05 8'-12'	Soil		6/8/2013 14:18	6/11/2013 09:30	<input type="checkbox"/>
1306367-10	BH05 10'-12'	Soil		6/8/2013 14:24	6/11/2013 09:30	<input type="checkbox"/>
1306367-11	BH06/PZ03 2'-4'	Soil		6/8/2013 15:23	6/11/2013 09:30	<input type="checkbox"/>
1306367-12	BH06/PZ03 4'-6'	Soil		6/8/2013 15:30	6/11/2013 09:30	<input type="checkbox"/>
1306367-13	BH07 6'-8'	Soil		6/8/2013 16:03	6/11/2013 09:30	<input type="checkbox"/>
1306367-14	BH07 10'-12'	Soil		6/8/2013 16:16	6/11/2013 09:30	<input type="checkbox"/>
1306367-15	BH08 8'-10'	Soil		6/9/2013 10:27	6/11/2013 09:30	<input type="checkbox"/>
1306367-16	BH08 10'-12'	Soil		6/9/2013 10:32	6/11/2013 09:30	<input type="checkbox"/>
1306367-17	BH09 0'-2'	Soil		6/9/2013 10:52	6/11/2013 09:30	<input type="checkbox"/>
1306367-18	BH09 10'-12'	Soil		6/9/2013 12:05	6/11/2013 09:30	<input type="checkbox"/>
1306367-19	BH10/PZ04 0'-2'	Soil		6/9/2013 12:23	6/11/2013 09:30	<input type="checkbox"/>
1306367-20	BH10/PZ04 2'-4'	Soil		6/9/2013 12:23	6/11/2013 09:30	<input type="checkbox"/>
1306367-21	BH11/PZ05 4'-6'	Soil		6/9/2013 12:53	6/11/2013 09:30	<input type="checkbox"/>
1306367-22	BH11/PZ05 6'-8'	Soil		6/9/2013 12:59	6/11/2013 09:30	<input type="checkbox"/>
1306367-23	BH12/PZ06 2'-4'	Soil		6/9/2013 13:19	6/11/2013 09:30	<input type="checkbox"/>
1306367-24	BH12/PZ06 4'-6'	Soil		6/9/2013 13:22	6/11/2013 09:30	<input type="checkbox"/>
1306367-25	BH13 4'-6"	Soil		6/9/2013 13:46	6/11/2013 09:30	<input type="checkbox"/>
1306367-26	BH13 6'-8'	Soil		6/9/2013 13:52	6/11/2013 09:30	<input type="checkbox"/>
1306367-27	BH14 0'-2'	Soil		6/9/2013 14:09	6/11/2013 09:30	<input type="checkbox"/>
1306367-28	BH14 10'-12'	Soil		6/9/2013 14:33	6/11/2013 09:30	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13
Work Order: 1306367

Case Narrative

At the request of the client, the sample IDs were changed in this revised report. No results were changed.

Batch 49036 sample BH01/PZ01 2'-4' MS recovery for DRO and the RPD were outside control limits due to and extraction error; however, all other QC was within range. No data requires qualification.

Batch 49036 sample 1306367-03 DRO surrogate recovery was above the upper control limits. The sample results may be biased high due to matrix interference.

Batch R122122 MS/MSD data for GRO is not related to this project's samples. No data requires qualification.

Batch R122136 sample BH02/PZ02 0'-2' GRO MSD recovery was outside of the control limit. However, the MS recovery and the RPD between the MS and MSD was in control. No qualification is required for GRO.

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13
WorkOrder: 1306367

**QUALIFIERS,
ACRONYMS, UNITS****Qualifier**

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

Acronym

- | | |
|------|-------------------------------------|
| DUP | Method Duplicate |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| LOD | Limit of Detection (see MDL) |
| LOQ | Limit of Quantitation (see PQL) |
| MBLK | Method Blank |
| MDL | Method Detection Limit |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| PQL | Practical Quantitation Limit |
| RPD | Relative Percent Difference |
| TDL | Target Detection Limit |
| A | APHA Standard Methods |
| D | ASTM |
| E | EPA |
| SW | SW-846 Update III |

Units Reported

- | | |
|-------------|------------------------------------|
| % of sample | Percent of Sample |
| mg/Kg-dry | Milligrams per Kilogram Dry Weight |

ALS Group USA, Corp

Date: 12-Jul-13

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13 **Work Order:** 1306367
Sample ID: BH01/PZ01 2'-4' **Lab ID:** 1306367-01
Collection Date: 6/8/2013 11:23 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	830		5.9	mg/Kg-dry	1	6/13/2013 07:35 PM
Surr: 4-Terphenyl-d14	57.8		39-115	%REC	1	6/13/2013 07:35 PM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	110		7.1	mg/Kg-dry	1	6/14/2013 01:27 PM
Methanol	510		7.1	mg/Kg-dry	1	6/14/2013 10:08 PM
Propylene glycol	ND		7.1	mg/Kg-dry	1	6/14/2013 01:27 PM
Triethylene glycol	1,600		14	mg/Kg-dry	2	6/17/2013 03:07 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	ND		3.6	mg/Kg-dry	50	6/12/2013 09:48 PM
Surr: Toluene-d8	101		50-150	%REC	50	6/12/2013 09:48 PM
MOISTURE			A2540 G			Analyst: BD
Moisture	30		0.050	% of sample	1	6/11/2013 03:10 PM

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

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ALS Group USA, Corp

Date: 12-Jul-13

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13 **Work Order:** 1306367
Sample ID: BH01/PZ01 4'-6' **Lab ID:** 1306367-02
Collection Date: 6/8/2013 11:26 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	780		6.0	mg/Kg-dry	1	6/13/2013 08:05 PM
Surr: 4-Terphenyl-d14	55.5		39-115	%REC	1	6/13/2013 08:05 PM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	140		7.4	mg/Kg-dry	1	6/14/2013 01:38 PM
Methanol	540		7.4	mg/Kg-dry	1	6/14/2013 10:37 PM
Propylene glycol	ND		7.4	mg/Kg-dry	1	6/14/2013 01:38 PM
Triethylene glycol	2,300		15	mg/Kg-dry	2	6/17/2013 03:18 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	ND		3.7	mg/Kg-dry	50	6/13/2013 12:15 PM
Surr: Toluene-d8	103		50-150	%REC	50	6/13/2013 12:15 PM
MOISTURE			A2540 G			Analyst: BD
Moisture	32		0.050	% of sample	1	6/11/2013 03:10 PM

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

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ALS Group USA, Corp

Date: 12-Jul-13

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13 **Work Order:** 1306367
Sample ID: BH02/PZ02 0'-2' **Lab ID:** 1306367-03
Collection Date: 6/8/2013 11:47 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	5,600		19	mg/Kg-dry	4	Analyst: RD 6/14/2013 04:48 PM
Surr: 4-Terphenyl-d14	187	S	39-115	%REC	4	6/14/2013 04:48 PM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	87		5.8	mg/Kg-dry	1	6/14/2013 02:34 PM
Methanol	42		5.8	mg/Kg-dry	1	6/14/2013 11:05 PM
Propylene glycol	ND		5.8	mg/Kg-dry	1	6/14/2013 02:34 PM
Triethylene glycol	21,000		290	mg/Kg-dry	50	6/17/2013 03:29 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	ND		2.9	mg/Kg-dry	50	6/13/2013 12:40 PM
Surr: Toluene-d8	103		50-150	%REC	50	6/13/2013 12:40 PM
MOISTURE			A2540 G			Analyst: BD
Moisture	13		0.050	% of sample	1	6/11/2013 03:10 PM

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

Revision: 1

ALS Group USA, Corp

Date: 12-Jul-13

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13 **Work Order:** 1306367
Sample ID: BH02/PZ02 6'-8' **Lab ID:** 1306367-04
Collection Date: 6/8/2013 12:15 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	290		5.1	mg/Kg-dry	1	6/13/2013 09:05 PM
Surr: 4-Terphenyl-d14	57.8		39-115	%REC	1	6/13/2013 09:05 PM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	23		6.2	mg/Kg-dry	1	6/14/2013 02:45 PM
Methanol	ND		6.2	mg/Kg-dry	1	6/14/2013 11:33 PM
Propylene glycol	ND		6.2	mg/Kg-dry	1	6/14/2013 02:45 PM
Triethylene glycol	1,400		12	mg/Kg-dry	2	6/17/2013 03:40 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	ND		3.1	mg/Kg-dry	50	6/13/2013 01:04 AM
Surr: Toluene-d8	102		50-150	%REC	50	6/13/2013 01:04 AM
MOISTURE			A2540 G			Analyst: BD
Moisture	19		0.050	% of sample	1	6/11/2013 03:10 PM

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

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Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13 **Work Order:** 1306367
Sample ID: BH03 4'-6' **Lab ID:** 1306367-05
Collection Date: 6/8/2013 12:46 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	100		4.9	mg/Kg-dry	1	Analyst: RD 6/13/2013 09:35 PM
Surr: 4-Terphenyl-d14	61.8		39-115	%REC	1	6/13/2013 09:35 PM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	ND		5.9	mg/Kg-dry	1	6/14/2013 02:56 PM
Methanol	ND		5.9	mg/Kg-dry	1	6/15/2013 12:02 AM
Propylene glycol	ND		5.9	mg/Kg-dry	1	6/14/2013 02:56 PM
Triethylene glycol	ND		5.9	mg/Kg-dry	1	6/14/2013 02:56 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	ND		3.0	mg/Kg-dry	50	6/13/2013 01:29 AM
Surr: Toluene-d8	104		50-150	%REC	50	6/13/2013 01:29 AM
MOISTURE			A2540 G			Analyst: BD
Moisture	15		0.050	% of sample	1	6/11/2013 03:50 PM

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

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13 **Work Order:** 1306367
Sample ID: BH03 10'-12' **Lab ID:** 1306367-06
Collection Date: 6/8/2013 01:06 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	35		5.1	mg/Kg-dry	1	Analyst: RD 6/13/2013 10:35 PM
Surr: 4-Terphenyl-d14	45.0		39-115	%REC	1	6/13/2013 10:35 PM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	ND		6.2	mg/Kg-dry	1	6/14/2013 03:07 PM
Methanol	ND		6.2	mg/Kg-dry	1	6/15/2013 12:31 AM
Propylene glycol	ND		6.2	mg/Kg-dry	1	6/14/2013 03:07 PM
Triethylene glycol	ND		6.2	mg/Kg-dry	1	6/14/2013 03:07 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	ND		3.1	mg/Kg-dry	50	6/13/2013 01:53 AM
Surr: Toluene-d8	101		50-150	%REC	50	6/13/2013 01:53 AM
MOISTURE			A2540 G			Analyst: BD
Moisture	19		0.050	% of sample	1	6/11/2013 03:50 PM

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

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13 **Work Order:** 1306367
Sample ID: BH04 0'-2' **Lab ID:** 1306367-07
Collection Date: 6/8/2013 01:24 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	390		4.9	mg/Kg-dry	1	6/13/2013 11:05 PM
Surr: 4-Terphenyl-d14	45.9		39-115	%REC	1	6/13/2013 11:05 PM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	ND		5.9	mg/Kg-dry	1	6/14/2013 03:18 PM
Methanol	2,700		29	mg/Kg-dry	5	6/17/2013 11:56 AM
Propylene glycol	ND		5.9	mg/Kg-dry	1	6/14/2013 03:18 PM
Triethylene glycol	ND		5.9	mg/Kg-dry	1	6/14/2013 03:18 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	40		2.9	mg/Kg-dry	50	6/13/2013 02:18 AM
Surr: Toluene-d8	99.9		50-150	%REC	50	6/13/2013 02:18 AM
MOISTURE			A2540 G			Analyst: BD
Moisture	15		0.050	% of sample	1	6/11/2013 03:50 PM

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

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13 **Work Order:** 1306367
Sample ID: BH04 10'-12' **Lab ID:** 1306367-08
Collection Date: 6/8/2013 01:16 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	28		4.9	mg/Kg-dry	1	Analyst: RD 6/13/2013 11:35 PM
Surr: 4-Terphenyl-d14	48.1		39-115	%REC	1	6/13/2013 11:35 PM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	130		6.0	mg/Kg-dry	1	6/14/2013 03:29 PM
Methanol	16		6.0	mg/Kg-dry	1	6/15/2013 01:28 AM
Propylene glycol	ND		6.0	mg/Kg-dry	1	6/14/2013 03:29 PM
Triethylene glycol	ND		6.0	mg/Kg-dry	1	6/14/2013 03:29 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	ND		3.0	mg/Kg-dry	50	6/13/2013 02:42 AM
Surr: Toluene-d8	102		50-150	%REC	50	6/13/2013 02:42 AM
MOISTURE			A2540 G			Analyst: BD
Moisture	17		0.050	% of sample	1	6/11/2013 03:50 PM

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

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13 **Work Order:** 1306367
Sample ID: BH05 8'-12' **Lab ID:** 1306367-09
Collection Date: 6/8/2013 02:18 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	78		5.6	mg/Kg-dry	1	Analyst: RD 6/14/2013 12:05 PM
Surr: 4-Terphenyl-d14	40.3		39-115	%REC	1	6/14/2013 12:05 PM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	39		6.7	mg/Kg-dry	1	6/14/2013 03:40 PM
Methanol	ND		6.7	mg/Kg-dry	1	6/15/2013 01:56 AM
Propylene glycol	ND		6.7	mg/Kg-dry	1	6/14/2013 03:40 PM
Triethylene glycol	ND		6.7	mg/Kg-dry	1	6/14/2013 03:40 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	ND		3.4	mg/Kg-dry	50	6/13/2013 03:07 AM
Surr: Toluene-d8	101		50-150	%REC	50	6/13/2013 03:07 AM
MOISTURE			A2540 G			Analyst: BD
Moisture	25		0.050	% of sample	1	6/11/2013 03:50 PM

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

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13 **Work Order:** 1306367
Sample ID: BH05 10'-12' **Lab ID:** 1306367-10
Collection Date: 6/8/2013 02:24 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	49		5.3	mg/Kg-dry	1	6/14/2013 12:35 PM
Surr: 4-Terphenyl-d14	46.8		39-115	%REC	1	6/14/2013 12:35 PM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	53		6.4	mg/Kg-dry	1	6/14/2013 03:52 PM
Methanol	ND		6.4	mg/Kg-dry	1	6/15/2013 02:25 AM
Propylene glycol	ND		6.4	mg/Kg-dry	1	6/14/2013 03:52 PM
Triethylene glycol	ND		6.4	mg/Kg-dry	1	6/14/2013 03:52 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	ND		3.2	mg/Kg-dry	50	6/13/2013 03:31 AM
Surr: Toluene-d8	105		50-150	%REC	50	6/13/2013 03:31 AM
MOISTURE			A2540 G			Analyst: BD
Moisture	22		0.050	% of sample	1	6/11/2013 03:50 PM

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

ALS Group USA, Corp

Date: 12-Jul-13

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13 **Work Order:** 1306367
Sample ID: BH06/PZ03 2'-4' **Lab ID:** 1306367-11
Collection Date: 6/8/2013 03:23 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	43		5.0	mg/Kg-dry	1	6/14/2013 01:06 AM
Surr: 4-Terphenyl-d14	45.4		39-115	%REC	1	6/14/2013 01:06 AM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	63		6.0	mg/Kg-dry	1	6/14/2013 04:03 PM
Methanol	ND		6.0	mg/Kg-dry	1	6/15/2013 03:50 AM
Propylene glycol	ND		6.0	mg/Kg-dry	1	6/14/2013 04:03 PM
Triethylene glycol	ND		6.0	mg/Kg-dry	1	6/14/2013 04:03 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	ND		3.0	mg/Kg-dry	50	6/13/2013 03:56 AM
Surr: Toluene-d8	103		50-150	%REC	50	6/13/2013 03:56 AM
MOISTURE			A2540 G			Analyst: BD
Moisture	16		0.050	% of sample	1	6/12/2013 02:20 PM

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

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ALS Group USA, Corp

Date: 12-Jul-13

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13 **Work Order:** 1306367
Sample ID: BH06/PZ03 4'-6' **Lab ID:** 1306367-12
Collection Date: 6/8/2013 03:30 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	68		5.4	mg/Kg-dry	1	6/14/2013 01:36 AM
Surr: 4-Terphenyl-d14	51.5		39-115	%REC	1	6/14/2013 01:36 AM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	71		6.6	mg/Kg-dry	1	6/14/2013 04:14 PM
Methanol	ND		6.6	mg/Kg-dry	1	6/15/2013 04:18 AM
Propylene glycol	ND		6.6	mg/Kg-dry	1	6/14/2013 04:14 PM
Triethylene glycol	ND		6.6	mg/Kg-dry	1	6/14/2013 04:14 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	ND		3.3	mg/Kg-dry	50	6/13/2013 04:20 AM
Surr: Toluene-d8	104		50-150	%REC	50	6/13/2013 04:20 AM
MOISTURE			A2540 G			Analyst: BD
Moisture	24		0.050	% of sample	1	6/11/2013 03:50 PM

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

Revision: 1

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Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13 **Work Order:** 1306367
Sample ID: BH07 6'-8' **Lab ID:** 1306367-13
Collection Date: 6/8/2013 04:03 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	44		5.3	mg/Kg-dry	1	6/14/2013 02:06 AM
Surr: 4-Terphenyl-d14	47.3		39-115	%REC	1	6/14/2013 02:06 AM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	ND		6.4	mg/Kg-dry	1	6/14/2013 04:47 PM
Methanol	ND		6.4	mg/Kg-dry	1	6/15/2013 04:47 AM
Propylene glycol	ND		6.4	mg/Kg-dry	1	6/14/2013 04:47 PM
Triethylene glycol	ND		6.4	mg/Kg-dry	1	6/14/2013 04:47 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	ND		3.2	mg/Kg-dry	50	6/13/2013 04:45 AM
Surr: Toluene-d8	104		50-150	%REC	50	6/13/2013 04:45 AM
MOISTURE			A2540 G			Analyst: BD
Moisture	22		0.050	% of sample	1	6/11/2013 03:50 PM

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

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13 **Work Order:** 1306367
Sample ID: BH07 10'-12' **Lab ID:** 1306367-14
Collection Date: 6/8/2013 04:16 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	35		5.1	mg/Kg-dry	1	Analyst: RD 6/14/2013 02:36 AM
Surr: 4-Terphenyl-d14	47.2		39-115	%REC	1	6/14/2013 02:36 AM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	ND		6.3	mg/Kg-dry	1	6/14/2013 04:58 PM
Methanol	ND		6.3	mg/Kg-dry	1	6/15/2013 05:15 AM
Propylene glycol	ND		6.3	mg/Kg-dry	1	6/14/2013 04:58 PM
Triethylene glycol	ND		6.3	mg/Kg-dry	1	6/14/2013 04:58 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	ND		3.1	mg/Kg-dry	50	6/13/2013 05:09 AM
Surr: Toluene-d8	104		50-150	%REC	50	6/13/2013 05:09 AM
MOISTURE			A2540 G			Analyst: BD
Moisture	20		0.050	% of sample	1	6/11/2013 03:50 PM

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

ALS Group USA, Corp

Date: 12-Jul-13

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13 **Work Order:** 1306367
Sample ID: BH08 8'-10' **Lab ID:** 1306367-15
Collection Date: 6/9/2013 10:27 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	50		5.1	mg/Kg-dry	1	6/14/2013 03:36 AM
Surr: 4-Terphenyl-d14	50.8		39-115	%REC	1	6/14/2013 03:36 AM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	ND		6.2	mg/Kg-dry	1	6/14/2013 05:10 PM
Methanol	ND		6.2	mg/Kg-dry	1	6/15/2013 05:43 AM
Propylene glycol	ND		6.2	mg/Kg-dry	1	6/14/2013 05:10 PM
Triethylene glycol	ND		6.2	mg/Kg-dry	1	6/14/2013 05:10 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	ND		3.1	mg/Kg-dry	50	6/13/2013 05:34 AM
Surr: Toluene-d8	102		50-150	%REC	50	6/13/2013 05:34 AM
MOISTURE			A2540 G			Analyst: BD
Moisture	19		0.050	% of sample	1	6/11/2013 03:50 PM

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

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Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13 **Work Order:** 1306367
Sample ID: BH08 10'-12' **Lab ID:** 1306367-16
Collection Date: 6/9/2013 10:32 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	24		5.1	mg/Kg-dry	1	Analyst: RD 6/14/2013 04:06 AM
Surr: 4-Terphenyl-d14	50.1		39-115	%REC	1	6/14/2013 04:06 AM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	ND		6.2	mg/Kg-dry	1	6/14/2013 05:21 PM
Methanol	ND		6.2	mg/Kg-dry	1	6/15/2013 07:08 AM
Propylene glycol	ND		6.2	mg/Kg-dry	1	6/14/2013 05:21 PM
Triethylene glycol	ND		6.2	mg/Kg-dry	1	6/14/2013 05:21 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	ND		3.1	mg/Kg-dry	50	6/13/2013 05:58 AM
Surr: Toluene-d8	102		50-150	%REC	50	6/13/2013 05:58 AM
MOISTURE			A2540 G			Analyst: BD
Moisture	19		0.050	% of sample	1	6/11/2013 03:50 PM

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

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13 **Work Order:** 1306367
Sample ID: BH09 0'-2' **Lab ID:** 1306367-17
Collection Date: 6/9/2013 10:52 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	41		4.9	mg/Kg-dry	1	Analyst: RD 6/14/2013 04:36 AM
Surr: 4-Terphenyl-d14	39.9		39-115	%REC	1	6/14/2013 04:36 AM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	ND		5.9	mg/Kg-dry	1	6/14/2013 05:32 PM
Methanol	ND		5.9	mg/Kg-dry	1	6/15/2013 07:36 AM
Propylene glycol	ND		5.9	mg/Kg-dry	1	6/14/2013 05:32 PM
Triethylene glycol	ND		5.9	mg/Kg-dry	1	6/14/2013 05:32 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	ND		3.0	mg/Kg-dry	50	6/13/2013 06:23 AM
Surr: Toluene-d8	100		50-150	%REC	50	6/13/2013 06:23 AM
MOISTURE			A2540 G			Analyst: BD
Moisture	16		0.050	% of sample	1	6/12/2013 02:20 PM

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

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13 **Work Order:** 1306367
Sample ID: BH09 10'-12' **Lab ID:** 1306367-18
Collection Date: 6/9/2013 12:05 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	27		5.1	mg/Kg-dry	1	6/14/2013 05:06 AM
Surr: 4-Terphenyl-d14	49.9		39-115	%REC	1	6/14/2013 05:06 AM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	ND		6.2	mg/Kg-dry	1	6/14/2013 05:43 PM
Methanol	ND		6.2	mg/Kg-dry	1	6/15/2013 08:04 AM
Propylene glycol	ND		6.2	mg/Kg-dry	1	6/14/2013 05:43 PM
Triethylene glycol	ND		6.2	mg/Kg-dry	1	6/14/2013 05:43 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	ND		3.1	mg/Kg-dry	50	6/13/2013 06:47 AM
Surr: Toluene-d8	101		50-150	%REC	50	6/13/2013 06:47 AM
MOISTURE			A2540 G			Analyst: BD
Moisture	20		0.050	% of sample	1	6/11/2013 03:50 PM

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

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13 **Work Order:** 1306367
Sample ID: BH10/PZ04 0'-2' **Lab ID:** 1306367-19
Collection Date: 6/9/2013 12:23 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	53		5.2	mg/Kg-dry	1	6/14/2013 05:37 AM
Surr: 4-Terphenyl-d14	49.1		39-115	%REC	1	6/14/2013 05:37 AM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	ND		6.4	mg/Kg-dry	1	6/14/2013 05:54 PM
Methanol	ND		6.4	mg/Kg-dry	1	6/17/2013 11:28 AM
Propylene glycol	ND		6.4	mg/Kg-dry	1	6/14/2013 05:54 PM
Triethylene glycol	ND		6.4	mg/Kg-dry	1	6/14/2013 05:54 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	ND		3.2	mg/Kg-dry	50	6/13/2013 07:12 AM
Surr: Toluene-d8	103		50-150	%REC	50	6/13/2013 07:12 AM
MOISTURE			A2540 G			Analyst: BD
Moisture	22		0.050	% of sample	1	6/12/2013 02:20 PM

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

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13 **Work Order:** 1306367
Sample ID: BH10/PZ04 2'-4' **Lab ID:** 1306367-20
Collection Date: 6/9/2013 12:23 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	91		5.8	mg/Kg-dry	1	6/14/2013 06:07 AM
Surr: 4-Terphenyl-d14	43.8		39-115	%REC	1	6/14/2013 06:07 AM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	ND		7.0	mg/Kg-dry	1	6/14/2013 06:05 PM
Methanol	ND		7.0	mg/Kg-dry	1	6/17/2013 12:25 PM
Propylene glycol	ND		7.0	mg/Kg-dry	1	6/14/2013 06:05 PM
Triethylene glycol	ND		7.0	mg/Kg-dry	1	6/14/2013 06:05 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	ND		3.5	mg/Kg-dry	50	6/13/2013 07:36 AM
Surr: Toluene-d8	103		50-150	%REC	50	6/13/2013 07:36 AM
MOISTURE			A2540 G			Analyst: BD
Moisture	29		0.050	% of sample	1	6/11/2013 03:50 PM

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

ALS Group USA, Corp

Date: 12-Jul-13

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13 **Work Order:** 1306367
Sample ID: BH11/PZ05 4'-6' **Lab ID:** 1306367-21
Collection Date: 6/9/2013 12:53 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	200		6.6	mg/Kg-dry	1	Analyst: RD 6/14/2013 11:50 PM
Surr: 4-Terphenyl-d14	59.0		39-115	%REC	1	6/14/2013 11:50 PM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	40		7.5	mg/Kg-dry	1	6/14/2013 07:12 PM
Methanol	84		7.5	mg/Kg-dry	1	6/17/2013 12:53 PM
Propylene glycol	ND		7.5	mg/Kg-dry	1	6/14/2013 07:12 PM
Triethylene glycol	120		7.5	mg/Kg-dry	1	6/14/2013 07:12 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	ND		3.7	mg/Kg-dry	50	6/13/2013 08:01 AM
Surr: Toluene-d8	104		50-150	%REC	50	6/13/2013 08:01 AM
MOISTURE			A2540 G			Analyst: BD
Moisture	33		0.050	% of sample	1	6/11/2013 03:50 PM

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

Revision: 1

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13 **Work Order:** 1306367
Sample ID: BH11/PZ05 6'-8' **Lab ID:** 1306367-22
Collection Date: 6/9/2013 12:59 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	89		5.8	mg/Kg-dry	1	6/15/2013 12:21 PM
Surr: 4-Terphenyl-d14	48.7		39-115	%REC	1	6/15/2013 12:21 PM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	ND		7.0	mg/Kg-dry	1	6/14/2013 07:23 PM
Methanol	110		7.0	mg/Kg-dry	1	6/17/2013 01:22 PM
Propylene glycol	ND		7.0	mg/Kg-dry	1	6/14/2013 07:23 PM
Triethylene glycol	210		7.0	mg/Kg-dry	1	6/14/2013 07:23 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: CW
GRO (C6-C10)	ND		3.5	mg/Kg-dry	50	6/14/2013 12:31 PM
Surr: Toluene-d8	102		50-150	%REC	50	6/14/2013 12:31 PM
MOISTURE			A2540 G			Analyst: BD
Moisture	29		0.050	% of sample	1	6/11/2013 03:50 PM

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

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13 **Work Order:** 1306367
Sample ID: BH12/PZ06 2'-4' **Lab ID:** 1306367-23
Collection Date: 6/9/2013 01:19 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	29		4.7	mg/Kg-dry	1	Analyst: RD 6/15/2013 12:51 PM
Surr: 4-Terphenyl-d14	47.3		39-115	%REC	1	6/15/2013 12:51 PM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	ND		5.6	mg/Kg-dry	1	6/14/2013 07:34 PM
Methanol	ND		5.6	mg/Kg-dry	1	6/17/2013 01:50 PM
Propylene glycol	ND		5.6	mg/Kg-dry	1	6/14/2013 07:34 PM
Triethylene glycol	ND		5.6	mg/Kg-dry	1	6/14/2013 07:34 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: CW
GRO (C6-C10)	ND		2.8	mg/Kg-dry	50	6/14/2013 12:56 PM
Surr: Toluene-d8	102		50-150	%REC	50	6/14/2013 12:56 PM
MOISTURE			A2540 G			Analyst: BD
Moisture	11		0.050	% of sample	1	6/11/2013 03:50 PM

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

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13 **Work Order:** 1306367
Sample ID: BH12/PZ06 4'-6' **Lab ID:** 1306367-24
Collection Date: 6/9/2013 01:22 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	120		5.7	mg/Kg-dry	1	Analyst: RD 6/15/2013 01:21 AM
Surr: 4-Terphenyl-d14	46.8		39-115	%REC	1	6/15/2013 01:21 AM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	ND		6.9	mg/Kg-dry	1	6/14/2013 07:46 PM
Methanol	13		6.9	mg/Kg-dry	1	6/17/2013 02:19 PM
Propylene glycol	ND		6.9	mg/Kg-dry	1	6/14/2013 07:46 PM
Triethylene glycol	ND		6.9	mg/Kg-dry	1	6/14/2013 07:46 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: CW
GRO (C6-C10)	ND		3.5	mg/Kg-dry	50	6/14/2013 01:20 PM
Surr: Toluene-d8	102		50-150	%REC	50	6/14/2013 01:20 PM
MOISTURE			A2540 G			Analyst: BD
Moisture	28		0.050	% of sample	1	6/11/2013 03:50 PM

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

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13 **Work Order:** 1306367
Sample ID: BH13 4'-6" **Lab ID:** 1306367-25
Collection Date: 6/9/2013 01:46 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	74		5.3	mg/Kg-dry	1	Analyst: RD 6/15/2013 01:51 AM
Surr: 4-Terphenyl-d14	43.8		39-115	%REC	1	6/15/2013 01:51 AM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	ND		6.5	mg/Kg-dry	1	6/14/2013 07:57 PM
Methanol	ND		6.5	mg/Kg-dry	1	6/17/2013 02:47 PM
Propylene glycol	ND		6.5	mg/Kg-dry	1	6/14/2013 07:57 PM
Triethylene glycol	ND		6.5	mg/Kg-dry	1	6/14/2013 07:57 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: CW
GRO (C6-C10)	ND		3.2	mg/Kg-dry	50	6/14/2013 01:45 PM
Surr: Toluene-d8	102		50-150	%REC	50	6/14/2013 01:45 PM
MOISTURE			A2540 G			Analyst: BD
Moisture	23		0.050	% of sample	1	6/11/2013 03:50 PM

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

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13 **Work Order:** 1306367
Sample ID: BH13 6'-8' **Lab ID:** 1306367-26
Collection Date: 6/9/2013 01:52 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	38		5.3	mg/Kg-dry	1	Analyst: RD 6/15/2013 02:21 AM
Surr: 4-Terphenyl-d14	49.8		39-115	%REC	1	6/15/2013 02:21 AM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	ND		6.5	mg/Kg-dry	1	6/14/2013 08:08 PM
Methanol	ND		6.5	mg/Kg-dry	1	6/17/2013 03:15 PM
Propylene glycol	ND		6.5	mg/Kg-dry	1	6/14/2013 08:08 PM
Triethylene glycol	ND		6.5	mg/Kg-dry	1	6/14/2013 08:08 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: CW
GRO (C6-C10)	ND		3.2	mg/Kg-dry	50	6/14/2013 02:10 PM
Surr: Toluene-d8	99.8		50-150	%REC	50	6/14/2013 02:10 PM
MOISTURE			A2540 G			Analyst: BD
Moisture	23		0.050	% of sample	1	6/11/2013 03:50 PM

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

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13 **Work Order:** 1306367
Sample ID: BH14 0'-2' **Lab ID:** 1306367-27
Collection Date: 6/9/2013 02:09 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	120		6.7	mg/Kg-dry	1	Analyst: RD 6/15/2013 02:52 AM
Surr: 4-Terphenyl-d14	51.0		39-115	%REC	1	6/15/2013 02:52 AM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	ND		5.7	mg/Kg-dry	1	6/14/2013 08:19 PM
Methanol	ND		5.7	mg/Kg-dry	1	6/17/2013 03:44 PM
Propylene glycol	ND		5.7	mg/Kg-dry	1	6/14/2013 08:19 PM
Triethylene glycol	86		5.7	mg/Kg-dry	1	6/14/2013 08:19 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: CW
GRO (C6-C10)	ND		2.9	mg/Kg-dry	50	6/14/2013 02:34 PM
Surr: Toluene-d8	99.1		50-150	%REC	50	6/14/2013 02:34 PM
MOISTURE			A2540 G			Analyst: BD
Moisture	12		0.050	% of sample	1	6/11/2013 03:50 PM

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

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13 **Work Order:** 1306367
Sample ID: BH14 10'-12' **Lab ID:** 1306367-28
Collection Date: 6/9/2013 02:33 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	32		5.0	mg/Kg-dry	1	Analyst: RD 6/15/2013 03:52 AM
Surr: 4-Terphenyl-d14	43.6		39-115	%REC	1	6/15/2013 03:52 AM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	ND		6.0	mg/Kg-dry	1	6/14/2013 08:30 PM
Methanol	ND		6.0	mg/Kg-dry	1	6/17/2013 04:13 PM
Propylene glycol	ND		6.0	mg/Kg-dry	1	6/14/2013 08:30 PM
Triethylene glycol	ND		6.0	mg/Kg-dry	1	6/14/2013 08:30 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: CW
GRO (C6-C10)	ND		3.0	mg/Kg-dry	50	6/14/2013 02:59 PM
Surr: Toluene-d8	101		50-150	%REC	50	6/14/2013 02:59 PM
MOISTURE			A2540 G			Analyst: BD
Moisture	17		0.050	% of sample	1	6/12/2013 02:20 PM

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

Client: HRL Compliance Solutions

Work Order: 1306367

Project: Source Gas Wolf Creek Well #12 6/8-6/9/13

QC BATCH REPORTBatch ID: **49036**Instrument ID **GC8**Method: **SW8015M**

MBLK Sample ID: DBLKS1-49036-49036		Units: mg/Kg				Analysis Date: 6/13/2013 05:34 PM				
Client ID:		Run ID: GC8_130613A		SeqNo: 2349750		Prep Date: 6/13/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	4.2								
<i>Surr: 4-Terphenyl-d14</i>	0.976	0	1.667	0	58.6	39-115				

LCS Sample ID: DLCSS1-49036-49036		Units: mg/Kg				Analysis Date: 6/13/2013 06:04 PM				
Client ID:		Run ID: GC8_130613A		SeqNo: 2349751		Prep Date: 6/13/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	159.4	4.2	166.7	0	95.7	49-124				
<i>Surr: 4-Terphenyl-d14</i>	0.8477	0	1.667	0	50.9	39-115				

MS Sample ID: 1306367-01A MS		Units: mg/Kg				Analysis Date: 6/13/2013 06:34 PM				
Client ID: BH01/PZ01 2'-4'		Run ID: GC8_130613A		SeqNo: 2349752		Prep Date: 6/13/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	326.1	8.2	326.1	580.7	-78.1	49-130				
<i>Surr: 4-Terphenyl-d14</i>	1.332	0	3.261	0	40.8	39-115				

MSD Sample ID: 1306367-01A MSD		Units: mg/Kg				Analysis Date: 6/13/2013 07:05 PM				
Client ID: BH01/PZ01 2'-4'		Run ID: GC8_130613A		SeqNo: 2349753		Prep Date: 6/13/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	814.2	8.1	324.7	580.7	71.9	49-130	326.1	85.6	30	R
<i>Surr: 4-Terphenyl-d14</i>	1.92	0	3.247	0	59.1	39-115	1.332	36.2	30	R

The following samples were analyzed in this batch:

1306367-01A	1306367-02A	1306367-03A
1306367-04A	1306367-05A	1306367-06A
1306367-07A	1306367-08A	1306367-09A
1306367-10A	1306367-11A	1306367-12A
1306367-13A	1306367-14A	1306367-15A
1306367-16A	1306367-17A	1306367-18A
1306367-19A	1306367-20A	

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

Revision: 1

Client: HRL Compliance Solutions
Work Order: 1306367
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13

QC BATCH REPORT

Batch ID: **49059** Instrument ID **GC8** Method: **SW8015M**

MLK Sample ID: DBLKS1-49059-49059				Units: mg/Kg			Analysis Date: 6/14/2013 08:49 PM			
Client ID:		Run ID: GC8_130614B		SeqNo: 2351081		Prep Date: 6/14/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	4.2								
<i>Surr: 4-Terphenyl-d14</i>	0.9403	0	1.667		0	56.4	39-115	0		
LCS Sample ID: DLCSS1-49059-49059				Units: mg/Kg			Analysis Date: 6/14/2013 09:20 PM			
Client ID:		Run ID: GC8_130614B		SeqNo: 2351082		Prep Date: 6/14/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	149.2	4.2	166.7		0	89.5	49-124	0		
<i>Surr: 4-Terphenyl-d14</i>	0.964	0	1.667		0	57.8	39-115	0		
MS Sample ID: 1306497-01B MS				Units: mg/Kg			Analysis Date: 6/14/2013 10:20 PM			
Client ID:		Run ID: GC8_130614B		SeqNo: 2351083		Prep Date: 6/14/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	285.9	7.9	317.8		19.5	83.8	49-130	0		
<i>Surr: 4-Terphenyl-d14</i>	1.529	0	3.178		0	48.1	39-115	0		
MSD Sample ID: 1306497-01B MSD				Units: mg/Kg			Analysis Date: 6/14/2013 10:50 PM			
Client ID:		Run ID: GC8_130614B		SeqNo: 2351084		Prep Date: 6/14/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	279.7	7.9	317.4		19.5	82	49-130	285.9	2.18	30
<i>Surr: 4-Terphenyl-d14</i>	1.478	0	3.174		0	46.6	39-115	1.529	3.39	30

The following samples were analyzed in this batch:

1306367-21A	1306367-22A	1306367-23A
1306367-24A	1306367-25A	1306367-26A
1306367-27A	1306367-28A	

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

Revision: 1

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Client: HRL Compliance Solutions
Work Order: 1306367
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13

QC BATCH REPORT

Batch ID: **R122222** Instrument ID **GC5** Method: **SW8015M**

MBLK Sample ID: MB-R122222-R122222				Units: mg/Kg			Analysis Date: 6/14/2013 07:52 AM			
Client ID:		Run ID: GC5_130614A		SeqNo: 2349559		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methanol		ND		5.0						
LCS Sample ID: LCS-R122222-R122222				Units: mg/Kg			Analysis Date: 6/14/2013 08:21 AM			
Client ID:		Run ID: GC5_130614A		SeqNo: 2349560		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methanol		484.2	5.0	500	0	96.8	50-150	0		
MS Sample ID: 1306496-05A MS				Units: mg/Kg			Analysis Date: 6/14/2013 11:11 AM			
Client ID:		Run ID: GC5_130614A		SeqNo: 2349566		Prep Date:		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methanol		950.9	10	1000	0	95.1	50-150	0		
MSD Sample ID: 1306496-05A MSD				Units: mg/Kg			Analysis Date: 6/14/2013 11:40 AM			
Client ID:		Run ID: GC5_130614A		SeqNo: 2349567		Prep Date:		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methanol		943.4	10	1000	0	94.3	50-150	950.9	0.795	30

The following samples were analyzed in this batch:

1306367-01A	1306367-02A	1306367-03A
1306367-04A	1306367-05A	1306367-06A
1306367-07A	1306367-08A	1306367-09A
1306367-10A	1306367-11A	1306367-12A
1306367-13A	1306367-14A	1306367-15A

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

Revision: 1

QC Page: 3 of 12

Client: HRL Compliance Solutions
Work Order: 1306367
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13

QC BATCH REPORT

Batch ID: **R122334** Instrument ID **GC11** Method: **SW8015M**

MBLK Sample ID: MB-R122334-R122334			Units: mg/Kg			Analysis Date: 6/14/2013 01:16 PM			
Client ID:		Run ID: GC11_130614A		SeqNo: 2351720		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
Ethylene glycol	ND		5.0						
Propylene glycol	ND		5.0						
Triethylene glycol	ND		5.0						

LCS Sample ID: LCS-R122334-R122334			Units: mg/Kg			Analysis Date: 6/14/2013 02:11 PM			
Client ID:		Run ID: GC11_130614A		SeqNo: 2351721		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
Ethylene glycol	528.3	5.0	500	0	106	50-150	0		
Propylene glycol	516.1	5.0	500	0	103	50-150	0		
Triethylene glycol	526	5.0	500	0	105		0		

MS Sample ID: 1306367-02A MS			Units: mg/Kg			Analysis Date: 6/14/2013 01:49 PM			
Client ID: BH01/PZ01 4'-6'		Run ID: GC11_130614A		SeqNo: 2351724		Prep Date:		DF: 2	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
Ethylene glycol	516.1	10	500	95.13	84.2	50-150	0		
Propylene glycol	570.5	10	500	0	114	50-150	0		
Triethylene glycol	2086	10	500	1623	92.7	50-150	0		

MSD Sample ID: 1306367-02A MSD			Units: mg/Kg			Analysis Date: 6/14/2013 02:00 PM			
Client ID: BH01/PZ01 4'-6'		Run ID: GC11_130614A		SeqNo: 2351725		Prep Date:		DF: 2	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
Ethylene glycol	535.7	10	500	95.13	88.1	50-150	516.1	3.74	30
Propylene glycol	577.2	10	500	0	115	50-150	570.5	1.16	30
Triethylene glycol	2138	10	500	1623	103	50-150	2086	2.45	30

The following samples were analyzed in this batch:

1306367-01A	1306367-02A	1306367-03A
1306367-04A	1306367-05A	1306367-06A
1306367-07A	1306367-08A	1306367-09A
1306367-10A	1306367-11A	1306367-12A
1306367-13A	1306367-14A	1306367-15A
1306367-16A	1306367-17A	1306367-18A
1306367-19A	1306367-20A	

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

Revision: 1

Client: HRL Compliance Solutions
Work Order: 1306367
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13

QC BATCH REPORT

Batch ID: **R122338** Instrument ID **GC11** Method: **SW8015M**

MBLK Sample ID: MB-R122338-R122338		Units: mg/Kg				Analysis Date: 6/14/2013 06:28 PM		
Client ID: GC11_130614B		Run ID: GC11_130614B		SeqNo: 2351781		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Ethylene glycol	ND	5.0						
Propylene glycol	ND	5.0						
Triethylene glycol	ND	5.0						

LCS Sample ID: LCS-R122338-R122338		Units: mg/Kg				Analysis Date: 6/14/2013 06:39 PM		
Client ID: GC11_130614B		Run ID: GC11_130614B		SeqNo: 2351782		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Ethylene glycol	489.1	5.0	500	0	97.8	50-150	0	
Propylene glycol	479.1	5.0	500	0	95.8	50-150	0	
Triethylene glycol	287.8	5.0	500	0	57.6	50-150	0	

MS Sample ID: 1306367-28A MS		Units: mg/Kg				Analysis Date: 6/14/2013 08:41 PM		
Client ID: BH14 10'-12'		Run ID: GC11_130614B		SeqNo: 2351791		Prep Date:		DF: 2
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Ethylene glycol	511.6	10	500	0	102	50-150	0	
Propylene glycol	459.6	10	500	0	91.9	50-150	0	
Triethylene glycol	454.4	10	500	0	90.9	50-150	0	

MSD Sample ID: 1306367-28A MSD		Units: mg/Kg				Analysis Date: 6/14/2013 08:52 PM		
Client ID: BH14 10'-12'		Run ID: GC11_130614B		SeqNo: 2351792		Prep Date:		DF: 2
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Ethylene glycol	529.3	10	500	0	106	50-150	511.6	3.4 30
Propylene glycol	441.4	10	500	0	88.3	50-150	459.6	4.03 30
Triethylene glycol	434.7	10	500	0	86.9	50-150	454.4	4.44 30

The following samples were analyzed in this batch:

1306367-21A	1306367-22A	1306367-23A
1306367-24A	1306367-25A	1306367-26A
1306367-27A	1306367-28A	

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

Revision: 1

Client: HRL Compliance Solutions
Work Order: 1306367
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13

QC BATCH REPORT

Batch ID: **R122341** Instrument ID **GC5** Method: **SW8015M**

MBLK Sample ID: MB-R122341-R122341				Units: mg/Kg			Analysis Date: 6/15/2013 06:12 AM			
Client ID:		Run ID: GC5_130614C		SeqNo: 2351858		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methanol		ND		5.0						
LCS Sample ID: LCS-R122341-R122341				Units: mg/Kg			Analysis Date: 6/15/2013 06:40 AM			
Client ID:		Run ID: GC5_130614C		SeqNo: 2351859		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methanol		471.2	5.0	500	0	94.2	50-150	0		
MS Sample ID: 1306367-28A MS				Units: mg/Kg			Analysis Date: 6/17/2013 04:41 PM			
Client ID: BH14 10'-12'		Run ID: GC5_130614C		SeqNo: 2351873		Prep Date:		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methanol		921.6	10	1000	0	92.2	50-150	0		
MSD Sample ID: 1306367-28A MSD				Units: mg/Kg			Analysis Date: 6/17/2013 05:10 PM			
Client ID: BH14 10'-12'		Run ID: GC5_130614C		SeqNo: 2351874		Prep Date:		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methanol		931.5	10	1000	0	93.1	50-150	921.6	1.07	30

The following samples were analyzed in this batch:

1306367-16A	1306367-17A	1306367-18A
1306367-19A	1306367-20A	1306367-21A
1306367-22A	1306367-23A	1306367-24A
1306367-25A	1306367-26A	1306367-27A
1306367-28A		

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

Revision: 1

QC Page: 6 of 12

Client: HRL Compliance Solutions
Work Order: 1306367
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13

QC BATCH REPORT

Batch ID: R122122 Instrument ID GC10 Method: SW8015

MLK		Sample ID: GBLK1-130612-R122122			Units: µg/L			Analysis Date: 6/12/2013 01:30 PM		
Client ID:		Run ID: GC10_130612A			SeqNo: 2347565			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	109	0	100	0	109	70-130	0	0		
LCS		Sample ID: GLCS1-130612-R122122			Units: µg/L			Analysis Date: 6/12/2013 01:05 PM		
Client ID:		Run ID: GC10_130612A			SeqNo: 2347564			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)	7570	200	10000	0	75.7	70-130	0	0		
Surr: Toluene-d8	110.7	0	100	0	111	70-130	0	0		
MS		Sample ID: 1306369-04A MS			Units: µg/L			Analysis Date: 6/12/2013 10:12 PM		
Client ID:		Run ID: GC10_130612A			SeqNo: 2347899			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)	7544	200	10000	255.1	72.9	70-130	0	0		
Surr: Toluene-d8	109.2	0	100	0	109	70-130	0	0		
MSD		Sample ID: 1306369-04A MSD			Units: µg/L			Analysis Date: 6/12/2013 10:37 PM		
Client ID:		Run ID: GC10_130612A			SeqNo: 2347900			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)	7247	200	10000	255.1	69.9	70-130	7544	4.02	30	S
Surr: Toluene-d8	108.6	0	100	0	109	70-130	109.2	0.578	30	

The following samples were analyzed in this batch:

1306367-01A

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

Revision: 1

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Client: HRL Compliance Solutions
Work Order: 1306367
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13

QC BATCH REPORT

Batch ID: **R122136** Instrument ID **GC10** Method: **SW8015**

MBLK	Sample ID: GBLK2-130612-R122136				Units: µg/L		Analysis Date: 6/12/2013 11:51 PM		
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Client ID:		Run ID: GC10_130612B		SeqNo: 2347957		Prep Date:		DF: 1	
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Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
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GRO (C6-C10)	ND	200								
Surr: Toluene-d8	108.5	0	100	0	108	70-130		0		

LCS	Sample ID: GLCS2-130612-R122136				Units: µg/L		Analysis Date: 6/12/2013 11:26 PM		
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Client ID:		Run ID: GC10_130612B		SeqNo: 2347955		Prep Date:		DF: 1	
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Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
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GRO (C6-C10)	7453	200	10000	0	74.5	70-130		0		
Surr: Toluene-d8	111	0	100	0	111	70-130		0		

MS	Sample ID: 1306367-03A MS				Units: µg/Kg		Analysis Date: 6/13/2013 08:25 AM		
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Client ID: BH02/PZ02 0'-2'		Run ID: GC10_130612B		SeqNo: 2347999		Prep Date:		DF: 50	
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Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
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GRO (C6-C10)	360700	2,500	500000	0	72.1	70-130		0		
Surr: Toluene-d8	5224	0	5000	0	104	50-150		0		

MSD	Sample ID: 1306367-03A MSD				Units: µg/Kg		Analysis Date: 6/13/2013 08:50 AM		
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Client ID: BH02/PZ02 0'-2'		Run ID: GC10_130612B		SeqNo: 2348001		Prep Date:		DF: 50	
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Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
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GRO (C6-C10)	342200	2,500	500000	0	68.4	70-130	360700	5.29	30	S
Surr: Toluene-d8	4967	0	5000	0	99.3	50-150	5224	5.03	30	

The following samples were analyzed in this batch:

1306367-02A	1306367-03A	1306367-04A
1306367-05A	1306367-06A	1306367-07A
1306367-08A	1306367-09A	1306367-10A
1306367-11A	1306367-12A	1306367-13A
1306367-14A	1306367-15A	1306367-16A
1306367-17A	1306367-18A	1306367-19A
1306367-20A	1306367-21A	

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

Revision: 1

QC Page: 8 of 12

Client: HRL Compliance Solutions
Work Order: 1306367
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13

QC BATCH REPORT

Batch ID: **R122224** Instrument ID **GC10** Method: **SW8015**

MBLK		Sample ID: GBLK1-130614-R122224			Units: µg/L			Analysis Date: 6/14/2013 10:28 AM		
Client ID:		Run ID: GC10_130614A			SeqNo: 2349585			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>	106.8	0	100	0	107	70-130	0	0		

LCS		Sample ID: GLCS1-130614-R122224			Units: µg/L			Analysis Date: 6/14/2013 10:03 AM		
Client ID:		Run ID: GC10_130614A			SeqNo: 2349584			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)	8667	200	10000	0	86.7	70-130	0	0		
<i>Surr: Toluene-d8</i>	109.6	0	100	0	110	70-130	0	0		

MS		Sample ID: 1306422-02A MS			Units: µg/L			Analysis Date: 6/14/2013 07:07 PM		
Client ID:		Run ID: GC10_130614A			SeqNo: 2350772			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)	9130	200	10000	0	91.3	70-130	0	0		
<i>Surr: Toluene-d8</i>	109.5	0	100	0	109	70-130	0	0		

MSD		Sample ID: 1306422-02A MSD			Units: µg/L			Analysis Date: 6/14/2013 07:31 PM		
Client ID:		Run ID: GC10_130614A			SeqNo: 2350774			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)	8847	200	10000	0	88.5	70-130	9130	3.14	30	
<i>Surr: Toluene-d8</i>	106	0	100	0	106	70-130	109.5	3.26	30	

The following samples were analyzed in this batch:

1306367-22A	1306367-23A	1306367-24A
1306367-25A	1306367-26A	1306367-27A
1306367-28A		

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

Revision: 1

Client: HRL Compliance Solutions
Work Order: 1306367
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13

QC BATCH REPORT

Batch ID: **R122069** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: WBLKS-R122069				Units: % of sample			Analysis Date: 6/11/2013 03:10 PM		
Client ID:		Run ID: MOIST_130611A		SeqNo: 2346878		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-R122069				Units: % of sample			Analysis Date: 6/11/2013 03:10 PM		
Client ID:		Run ID: MOIST_130611A		SeqNo: 2346877		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: 1306368-01B DUP				Units: % of sample			Analysis Date: 6/11/2013 03:10 PM		
Client ID:		Run ID: MOIST_130611A		SeqNo: 2346866		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	
Moisture	6.87	0.050	0	0	0	0-0	7.07	2.87	20
DUP Sample ID: 1306368-09B DUP				Units: % of sample			Analysis Date: 6/11/2013 03:10 PM		
Client ID:		Run ID: MOIST_130611A		SeqNo: 2346875		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	
Moisture	43.27	0.050	0	0	0	0-0	43.55	0.645	20

The following samples were analyzed in this batch:

1306367-01A 1306367-02A 1306367-03A
1306367-04A

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

Revision: 1

QC Page: 10 of 12

Client: HRL Compliance Solutions
Work Order: 1306367
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13

QC BATCH REPORT

Batch ID: **R122073** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS-R122073			Units: % of sample			Analysis Date: 6/11/2013 03:50 PM			
Client ID:	Run ID: MOIST_130611B			SeqNo: 2346947			Prep Date:			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	
Moisture		ND		0.050						
<hr/>										
LCS	Sample ID: LCS-R122073			Units: % of sample			Analysis Date: 6/11/2013 03:50 PM			
Client ID:	Run ID: MOIST_130611B			SeqNo: 2346946			Prep Date:			
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		
<hr/>										
DUP	Sample ID: 1306367-06A DUP			Units: % of sample			Analysis Date: 6/11/2013 03:50 PM			
Client ID: BH03 10'-12'	Run ID: MOIST_130611B			SeqNo: 2346926			Prep Date:			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	
Moisture		17.99	0.050	0	0	0	0-0	18.87	4.77	20
<hr/>										
DUP	Sample ID: 1306367-15A DUP			Units: % of sample			Analysis Date: 6/11/2013 03:50 PM			
Client ID: BH08 8'-10'	Run ID: MOIST_130611B			SeqNo: 2346935			Prep Date:			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	
Moisture		19.83	0.050	0	0	0	0-0	19.43	2.04	20

The following samples were analyzed in this batch:

1306367-05A	1306367-06A	1306367-07A
1306367-08A	1306367-09A	1306367-10A
1306367-12A	1306367-13A	1306367-14A
1306367-15A	1306367-16A	1306367-18A
1306367-20A	1306367-21A	1306367-22A
1306367-23A	1306367-24A	1306367-25A
1306367-26A	1306367-27A	

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

Revision: 1

Client: HRL Compliance Solutions
Work Order: 1306367
Project: Source Gas Wolf Creek Well #12 6/8-6/9/13

QC BATCH REPORT

Batch ID: R122138 Instrument ID MOIST Method: A2540 G

MBLK Sample ID: WBLKS-R122138				Units: % of sample			Analysis Date: 6/12/2013 02:20 PM			
Client ID:		Run ID: MOIST_130612B		SeqNo: 2347985		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	0.03	0.050							J	
LCS Sample ID: LCS-R122138				Units: % of sample			Analysis Date: 6/12/2013 02:20 PM			
Client ID:		Run ID: MOIST_130612B		SeqNo: 2347982		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: 1306367-11A DUP				Units: % of sample			Analysis Date: 6/12/2013 02:20 PM			
Client ID: BH06/PZ03 2'-4'		Run ID: MOIST_130612B		SeqNo: 2347948		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	16.07	0.050	0	0	0	0-0	16.36	1.79	20	
DUP Sample ID: 1306368-25A DUP				Units: % of sample			Analysis Date: 6/12/2013 02:20 PM			
Client ID:		Run ID: MOIST_130612B		SeqNo: 2347968		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	38.3	0.050	0	0	0	0-0	35.03	8.92	20	

The following samples were analyzed in this batch:

1306367-11A 1306367-17A 1306367-19A
1306367-28A

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

Revision: 1

QC Page: 12 of 12



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 202rB

WORKORDER # 1306367
PAGE 1 of 3

Source Gas		SAMPLER	Mike Labato			DATE	6/10/13	DISPOSAL	By Lab or Return to Client
PROJECT NAME	Wolf Creek Well #12	SITE ID	Source Gas Wolf Creek Well #12			TURNAROUND	STD		
PROJECT No.		EDD FORMAT							
		PURCHASE ORDER							
COMPANY NAME	HRL Complionue Solutions	BILL TO COMPANY	HRL						
SEND REPORT TO	Kris Rowe / Herman	INVOICE ATTN TO							
ADDRESS	2385 F/2	ADDRESS							
CITY/STATE/ZIP	Grand Junction, CO	CITY/STATE/ZIP							
PHONE	970 243 3271	PHONE							
FAX	970 243 3280	FAX							
E-MAIL	KROWE@HRL.com	E-MAIL							
Lab ID	Field ID <i>JP 7/11/13</i>	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC		
1	BH1/PZ1 2'-4'	S	6/8/13	1128	2		X X X X		
2	BH1/PZ01 4'-6'		6/8/13	1126	2		X X X X		
3	BH2/PZ02 0'-2'		6/8/13	1147	2		X X X X		
4	BH2/PZ02 6'-8'		6/8/13	1215	2		X X X X		
5	BH3 4'-6'		6/8/13	1246	2		X X X X		
6	BH3 10'-12'		6/8/13	1306	2		X X X X		
7	BH4 0'-2'		6/8/13	1324	2		X X X X		
8	BH4 10'-12'		6/8/13	1316	2		X X X X		
9	BH5 8'-12'		6/8/13	1418	2		X X X X		
10	BH5 10'-12'	V	6/8/13	1424	2		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)		
	<input checked="" type="checkbox"/> LEVEL II (Standard QC)		
	<input checked="" type="checkbox"/> LEVEL III (Std QC + forms)		
	<input checked="" type="checkbox"/> LEVEL IV (Std QC + forms + raw data)		

S.2'c

SIGNATURE	PRINTED NAME	DATE	TIME
<i>Mike Labato</i>	Mike Labato	6/10/13	1800
<i>Diane C. Shaw</i>	Diane C. Shaw	6/11/13	0930

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035



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 202rB

WORKORDER #	1306367
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PROJECT NAME	SAMPLER	DATE	PAGE								
Source Gas		6/10/13	2 of 3								
PROJECT No.	SITE ID	TURNAROUND	DISPOSAL								
	EDD FORMAT	STD	By Lab or Return to Client								
	PURCHASE ORDER										
COMPANY NAME	BILL TO COMPANY										
SEND REPORT TO	HRL										
ADDRESS	2385 Fox Rock										
CITY / STATE / ZIP	Grand Junction CO 81508										
PHONE	970 243 3271										
FAX	970 243 3280										
E-MAIL	krowe@hrlcorp.com										
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	Methanol	Glycols	DRO'S	GRO'S
11	BH6/P26	o3	5	6/8/13	1523	2		X	X	X	X
12	BH6/P26	4'-6'		6/8/13	1530	2		X	X	X	X
13	BH7	6'-8'		6/8/13	1603	2		X	X	X	X
14	BH8	10'-12'		6/8/13	1616	2		X	X	X	X
15	BH8	8'-10'		6/9/13	1027	2		X	X	X	X
16	BH8	10'-12'		6/9/13	1032	2		X	X	XX	
17	BH9	0'-2'		6/9/13	1052	2		X	X	XX	
18	BH9	10'-12'		6/9/13	1205	2		X	X	XX	
19	BH10/P26	0'-2'		6/9/13	1223	2		X	X	X	X
20	BH10/P26	2'-4'	✓	6/9/13	1223	2		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)
	<input checked="" type="checkbox"/> LEVEL II (Standard QC)
	<input type="checkbox"/> LEVEL III (Std QC + forms)
	<input type="checkbox"/> LEVEL IV (Std QC + forms + raw data)

5.2' L

RELINQUISHED BY	SIGNATURE	PRINTED NAME	DATE	TIME
	<i>Mike Lobato</i>	Mike Lobato	6/10/13	1800
	<i>Diane F Shaw</i>	Diane F Shaw	6/11/13	0930
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035



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 202rB

WORKORDER #	1306367	
PAGE	3 of 3	
DISPOSAL	By Lab or	Return to Client
SAMPLER		DATE
SITE ID		TURNAROUND
EDD FORMAT		6/10/13
PURCHASE ORDER		STD
COMPANY NAME	HRL Compliance Solutions	BILL TO COMPANY
SEND REPORT TO	Kris Rowe / Herman	INVOICE ATTN TO
ADDRESS	2385 F 1/2 Rd.	ADDRESS
CITY/STATE/ZIP	Grand Junction, CO 81505	CITY/STATE/ZIP
PHONE	970 243 3271	PHONE
FAX	970 243 3280	FAX
E-MAIL	krowe@hrlcomp.com	E-MAIL

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	Method	Glycols	DRO'S	GRO'S
21	BH11/PZ11 4'-6'	S	6/9/13	1253	2		X X X X				
22	BH11/PZ11 6'-8'		6/9/13	1259	2		X X X X				
23	BH12/PZ12 2'-4'		6/9/13	1319	2		X X X X				
24	BH12/PZ12 4'-6'		6/9/13	1322	2		X X X X				
25	BH13 4'-6'		6/9/13	1346	2		X X X X				
26	BH13 6'-8'		6/9/13	1352	2		X X X X				
27	BH14 0'-2'		6/9/13	1409	2		X X X X				
28	BH14 10'-12'		6/9/13	1433	2		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)				
<input checked="" type="checkbox"/> LEVEL II (Standard QC)					
<input type="checkbox"/> LEVEL III (Std QC + forms)					
<input type="checkbox"/> LEVEL IV (Std QC + forms + raw data)					
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
	Mike Lobato	6/10/13	1800
	Diane F. Shaw	6/11/13	0930

SOILS	
WOLF CREEK #12	WOLF CREEK #12
OLD	AMMENDED
BH1/PZ1 2'-4'	BH01/PZ01 2'-4'
BH1/PZ1 4'-6'	BH01/PZ01 4'-6'
BH2/PZ2 0'-2'	BH02/PZ02 0'-2'
BH2/PZ2 6'-8'	BH02/PZ02 6'-8'
BH3 4'-6'	BH03 4'-6'
BH3 10'-12'	BH03 10'-12'
BH4 0'-2'	BH04 0'-2'
BH4 10'-12'	BH04 10'-12'
BH5 8'-12'	BH05 8'-12'
BH5 10'-12'	BH05 10'-12'
BH6/PZ6 2'-4'	BH06/PZ03 2'-4'
BH6/PZ6 4'-6'	BH06/PZ03 4'-6'
BH7 6'-8'	BH07 6'-8'
BH7 10'-12'	BH07 10'-12'
BH8 8'-10'	BH08 8'-10'
BH8 10'-12'	BH08 10'-12'
BH9 0'-2'	BH09 0'-2'
BH9 10'-12'	BH09 10'-12'
BH10/PZ10 0'-2'	BH10/PZ04 0'-2'
BH10/PZ10 2'-4'	BH10/PZ04 2'-4'
BH11/PZ11 4'-6'	BH11/PZ05 4'-6'
BH11/PZ11 6'-8'	BH11/PZ05 6'-8'
BH12/PZ12 2'-4'	BH12/PZ06 2'-4'
BH12/PZ12 4'-6'	BH12/PZ06 4'-6'
BH13 4'-6"	BH13 4'-6"
BH13 6'-8'	BH13 6'-8'
BH14 0'-2'	BH14 0'-2'
BH14 10'-12'	BH14 10'-12'
BH15 8-10'	BH15 8'-10'
BH16 8.5-9.5'	BH16 8.5-9.5'
BH16A 2-3'	BH16A 2'-3'
BH17 8-10'	BH17 8'-10'
BH18 8-10'	BH18 8'-10'
BH20/PZ20 2-4'	BH20/PZ07 2'-4'
BH21/PZ21 6-8'	BH21/PZ08 6'-8'
BH22/PZ22 4-6'	BH22/PZ09 4'-6'
BH22/PZ22 6-8'	BH22/PZ09 6'-8'
BH23 6-8'	BH23 6'-8'
BH23 10-12'	BH23 10'-12'

WATER	
WOLF CREEK #12	WOLF CREEK #12
OLD	AMMENDED
BH1/PZ1	BH01/PZ01
BH2/PZ2	BH02/PZ02
BH6/PZ6	BH06/PZ03
BH10/PZ10	BH10/PZ04
BH11/PZ11	BH11/PZ05
BH12/PZ12	BH12/PZ06
BH20/PZ20	BH20/PZ07
BH21/PZ21	BH21/PZ08
BH22/PZ22	BH22/PZ09

1306367

13061065

W0# 13061057

1306369
1306971

13061064

SOILS	
WOLF CREEK #5	WOLF CREEK #5
OLD	AMMENDED
Piez01/SS01	Piez01/SS01
Piez01/SS01 Duplicate	Piez01/SS01 Duplicate
SS02	SS02
Piez03/SS03	Piez02/SS03
Piez04/SS04	SS04
Piez05/SS05	Piez03/SS05
Piez06/SS06	SS06

}

1307003 ✓

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 11-Jun-13 09:30

Work Order: 1306367

Received by: DS

Checklist completed by Diane Shaw
eSignature

11-Jun-13

Date

Reviewed by: Ann Preston
eSignature

13-Jun-13

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):

5.2 c

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

6/11/2013 1:23:43 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:

Revision: 1

ORIGIN ID: GJTA (616) 399-6070
ALS LABORATORY GROUP
3352 128TH AVE
HOLLAND, MI 49424-9263
UNITED STATES US

SHIP DATE: 10 JUN 13
ACT WGT: 64.2 LB
CAB: /PO51400
DIMS: 24x14x14 IN
BILL SENDER

PART # 169287-SSSHR121274
652038 06/10/2013

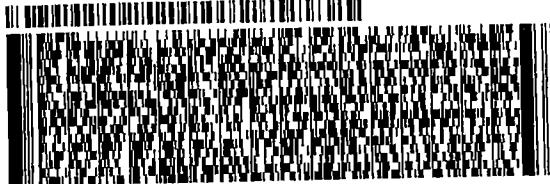
TO SAMPLE RECEIVING
ALS ENVIRONMENTAL
3352 128TH AVE

HOLLAND MI 49424

(616) 738-7318
INN:
PO:

REF:

DEPT:



2 of 2
MPS# 7957 8842 9474
0681
Mstr# 8722 9438 1150

TUE - 11 JUN 10:30A
PRIORITY OVERNIGHT

0200

49424
MI-US GRR

XX GRRA



RT 828 5 B
9474 06/11



ALS Environmental
3352 128th Avenue
Holland, Michigan 49424
Tel. +1 616 399 6070
Fax. +1 616 399 6185

CUSTODY SEAL	
Date: 6/10/13	Time: 1746
Name: M. K. C.	Company: HRC Comp. So. L.
Seal Broken By:	
Date:	



Align Open End of FedEx Pouch Here



11-Jul-2013

Herman Lucero
HRL Compliance Solutions
2385 F 1/2 Road
Grand Junction, CO 81505

Re: **Source Gas Wolf Creek #12 13-113 6/26/13**

Work Order: **13061064**

Revision: **1**

Dear Herman,

ALS Environmental received 3 samples on 27-Jun-2013 09:30 AM for the analyses presented in the following report.

This is a REVISED REPORT. The Case Narrative provides information discussing the reason for issuing a revised report. The total number of pages in this revision is 21.

If you have any questions regarding these test results, 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: MN 532786

Report of Laboratory Analysis

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

ALS GROUP USA, CORP Part of the ALS Group An ALS Limited Company

Environmental

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/26/13
Work Order: **13061064**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
13061064-01	BH21/PZ08	Water		6/26/2013 11:52	6/27/2013 09:30	<input type="checkbox"/>
13061064-02	BH22/PZ09	Water		6/26/2013 12:26	6/27/2013 09:30	<input type="checkbox"/>
13061064-03	Trip Blank	Water		6/26/2013 11:52	6/27/2013 09:30	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/26/13
Work Order: 13061064

Case Narrative

At the request of the client, the sample IDs were changed in this revised report. No results were changed.

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/26/13
WorkOrder: 13061064

**QUALIFIERS,
ACRONYMS, UNITS****Qualifier**

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

Acronym

DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported

µg/L	Micrograms per Liter
mg/L	Milligrams per Liter

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/26/13 **Work Order:** 13061064
Sample ID: BH21/PZ08 **Lab ID:** 13061064-01
Collection Date: 6/26/2013 11:52 AM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	7.6		0.35	mg/L	1	6/27/2013 04:24 PM
Surr: 4-Terphenyl-d14	61.8		21-90	%REC	1	6/27/2013 04:24 PM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	ND		5.0	mg/L	1	6/27/2013 05:33 PM
Methanol	ND		5.0	mg/L	1	6/27/2013 07:03 PM
Propylene glycol	ND		5.0	mg/L	1	6/27/2013 05:33 PM
Triethylene glycol	680		5.0	mg/L	1	6/27/2013 05:33 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	0.78		0.20	mg/L	1	6/27/2013 05:54 PM
Surr: Toluene-d8	103		70-130	%REC	1	6/27/2013 05:54 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: AK
Benzene	7.2		1.0	µg/L	1	6/27/2013 02:55 PM
Ethylbenzene	1.0		1.0	µg/L	1	6/27/2013 02:55 PM
m,p-Xylene	8.6		2.0	µg/L	1	6/27/2013 02:55 PM
o-Xylene	2.9		1.0	µg/L	1	6/27/2013 02:55 PM
Toluene	22		1.0	µg/L	1	6/27/2013 02:55 PM
Xylenes, Total	11		3.0	µg/L	1	6/27/2013 02:55 PM
Surr: 1,2-Dichloroethane-d4	101		70-120	%REC	1	6/27/2013 02:55 PM
Surr: 4-Bromofluorobenzene	92.0		75-120	%REC	1	6/27/2013 02:55 PM
Surr: Dibromofluoromethane	104		85-115	%REC	1	6/27/2013 02:55 PM
Surr: Toluene-d8	99.6		85-120	%REC	1	6/27/2013 02:55 PM

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

Revision: 1

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/26/13 **Work Order:** 13061064
Sample ID: BH22/PZ09 **Lab ID:** 13061064-02
Collection Date: 6/26/2013 12:26 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	2.0		0.10	mg/L	1	6/27/2013 04:54 PM
Surr: 4-Terphenyl-d14	56.6		21-90	%REC	1	6/27/2013 04:54 PM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	ND		5.0	mg/L	1	6/27/2013 05:44 PM
Methanol	ND		5.0	mg/L	1	6/27/2013 07:31 PM
Propylene glycol	ND		5.0	mg/L	1	6/27/2013 05:44 PM
Triethylene glycol	35		5.0	mg/L	1	6/27/2013 05:44 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	0.27		0.20	mg/L	1	6/27/2013 06:19 PM
Surr: Toluene-d8	109		70-130	%REC	1	6/27/2013 06:19 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: AK
Benzene	9.5		1.0	µg/L	1	6/27/2013 03:19 PM
Ethylbenzene	1.4		1.0	µg/L	1	6/27/2013 03:19 PM
m,p-Xylene	8.7		2.0	µg/L	1	6/27/2013 03:19 PM
o-Xylene	2.1		1.0	µg/L	1	6/27/2013 03:19 PM
Toluene	ND		1.0	µg/L	1	6/27/2013 03:19 PM
Xylenes, Total	11		3.0	µg/L	1	6/27/2013 03:19 PM
Surr: 1,2-Dichloroethane-d4	98.1		70-120	%REC	1	6/27/2013 03:19 PM
Surr: 4-Bromofluorobenzene	90.0		75-120	%REC	1	6/27/2013 03:19 PM
Surr: Dibromofluoromethane	102		85-115	%REC	1	6/27/2013 03:19 PM
Surr: Toluene-d8	99.6		85-120	%REC	1	6/27/2013 03:19 PM

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

Revision: 1

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/26/13 **Work Order:** 13061064
Sample ID: Trip Blank **Lab ID:** 13061064-03
Collection Date: 6/26/2013 11:52 AM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS						
Benzene	ND		1.0	µg/L	1	Analyst: AK 6/27/2013 01:43 PM
Ethylbenzene	ND		1.0	µg/L	1	6/27/2013 01:43 PM
m,p-Xylene	ND		2.0	µg/L	1	6/27/2013 01:43 PM
o-Xylene	ND		1.0	µg/L	1	6/27/2013 01:43 PM
Toluene	ND		1.0	µg/L	1	6/27/2013 01:43 PM
Xylenes, Total	ND		3.0	µg/L	1	6/27/2013 01:43 PM
<i>Surr: 1,2-Dichloroethane-d4</i>	98.5		70-120	%REC	1	6/27/2013 01:43 PM
<i>Surr: 4-Bromofluorobenzene</i>	90.3		75-120	%REC	1	6/27/2013 01:43 PM
<i>Surr: Dibromofluoromethane</i>	104		85-115	%REC	1	6/27/2013 01:43 PM
<i>Surr: Toluene-d8</i>	98.9		85-120	%REC	1	6/27/2013 01:43 PM

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

Revision: 1

ALS Group USA, Corp

Date: 11-Jul-13

Client: HRL Compliance Solutions

QC BATCH REPORT

Work Order: 13061064

Project: Source Gas Wolf Creek #12 13-113 6/26/13

Batch ID: 49363

Instrument ID GC8

Method: SW8015M

MBLK		Sample ID: DBLKW1-49363-49363		Units: mg/L		Analysis Date: 6/27/2013 02:24 PM				
Client ID:		Run ID: GC8_130627A		SeqNo: 2363778		Prep Date: 6/27/2013 DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	0.10								
Surr: 4-Terphenyl-d14	0.06359	0	0.1143		0	55.6	21-90	0		

LCS		Sample ID: DLCSW1-49363-49363		Units: mg/L		Analysis Date: 6/27/2013 02:54 PM				
Client ID:		Run ID: GC8_130627A		SeqNo: 2363779		Prep Date: 6/27/2013 DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	6.124	0.10	11.43		0	53.6	44-116	0		
Surr: 4-Terphenyl-d14	0.06896	0	0.1143		0	60.3	21-90	0		

MS		Sample ID: 13061064-01B MS		Units: mg/L		Analysis Date: 6/27/2013 03:24 PM				
Client ID: BH21/PZ08		Run ID: GC8_130627A		SeqNo: 2363780		Prep Date: 6/27/2013 DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	25.42	0.35	40	7.626	44.5	44-116		0		
Surr: 4-Terphenyl-d14	0.2656	0	0.4		0	66.4	21-90	0		

MSD		Sample ID: 13061064-01B MSD		Units: mg/L		Analysis Date: 6/27/2013 03:54 PM				
Client ID: BH21/PZ08		Run ID: GC8_130627A		SeqNo: 2363781		Prep Date: 6/27/2013 DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	26.06	0.35	40	7.626	46.1	44-116	25.42	2.49	30	
Surr: 4-Terphenyl-d14	0.2701	0	0.4		0	67.5	21-90	0.2656	1.67	30

The following samples were analyzed in this batch:

13061064-01B 13061064-02B

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

Revision: 1

Client: HRL Compliance Solutions
Work Order: 13061064
Project: Source Gas Wolf Creek #12 13-113 6/26/13

QC BATCH REPORT

Batch ID: R122931 Instrument ID GC5 Method: SW8015M

MBLK Sample ID: MB-R122931-R122931				Units: mg/L		Analysis Date: 6/27/2013 06:05 PM				
Client ID:		Run ID: GC5_130627B		SeqNo: 2364342		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methanol	ND		5.0							

MBLK Sample ID: MB-R122931-R122931				Units: mg/Kg		Analysis Date: 6/27/2013 11:21 PM				
Client ID:		Run ID: GC5_130627B		SeqNo: 2364376		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methanol	ND		5.0							

LCS Sample ID: LCS-R122931-R122931				Units: mg/L		Analysis Date: 6/27/2013 06:34 PM				
Client ID:		Run ID: GC5_130627B		SeqNo: 2364343		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methanol	471.3	5.0	500	0	94.3	50-150		0		

LCS Sample ID: LCS-R122931-R122931				Units: mg/Kg		Analysis Date: 6/27/2013 11:49 PM				
Client ID:		Run ID: GC5_130627B		SeqNo: 2364377		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methanol	488.5	5.0	500	0	97.7	50-150		0		

MS Sample ID: 13061064-02B MS				Units: mg/L		Analysis Date: 6/27/2013 08:00 PM				
Client ID: BH22/PZ09		Run ID: GC5_130627B		SeqNo: 2364347		Prep Date:		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methanol	946	10	1000	0	94.6	50-150		0		

MS Sample ID: 13061065-03A MS				Units: mg/Kg		Analysis Date: 6/28/2013 05:03 AM				
Client ID:		Run ID: GC5_130627B		SeqNo: 2364387		Prep Date:		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methanol	990.1	10	1000	0	99	50-150		0		

MSD Sample ID: 13061064-02B MSD				Units: mg/L		Analysis Date: 6/27/2013 08:29 PM				
Client ID: BH22/PZ09		Run ID: GC5_130627B		SeqNo: 2364348		Prep Date:		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methanol	963	10	1000	0	96.3	50-150	946	1.78	30	

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

Revision: 1

Client: HRL Compliance Solutions
Work Order: 13061064
Project: Source Gas Wolf Creek #12 13-113 6/26/13

QC BATCH REPORT

Batch ID: **R122931** Instrument ID **GC5** Method: **SW8015M**

MSD	Sample ID: 13061065-03A MSD	Units: mg/Kg			Analysis Date: 6/28/2013 05:31 AM				
Client ID:	Run ID: GC5_130627B	SeqNo: 2364388			Prep Date:			DF: 2	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
Methanol	980.9	10	1000	0	98.1	50-150	990.1	0.933	30

The following samples were analyzed in this batch:

13061064-01B	13061064-02B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

QC Report Page: 3 of 8

Client: HRL Compliance Solutions
Work Order: 13061064
Project: Source Gas Wolf Creek #12 13-113 6/26/13

QC BATCH REPORT

Batch ID: **R122932** Instrument ID **GC11** Method: **SW8015M**

MBLK Sample ID: MB-R122932-R122932		Units: mg/L			Analysis Date: 6/27/2013 05:21 PM			
Client ID: GC11_130627B		Run ID: GC11_130627B			SeqNo: 2364391		Prep Date:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Ethylene glycol	ND	5.0						
Propylene glycol	ND	10						
Triethylene glycol	ND	5.0						

MBLK Sample ID: MB-R122932-R122932		Units: mg/Kg			Analysis Date: 6/27/2013 06:51 PM			
Client ID: GC11_130627B		Run ID: GC11_130627B			SeqNo: 2364456		Prep Date:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Ethylene glycol	ND	5.0						
Propylene glycol	ND	5.0						
Triethylene glycol	ND	5.0						

LCS Sample ID: LCS-R122932-R122932		Units: mg/L			Analysis Date: 6/27/2013 06:17 PM			
Client ID: GC11_130627B		Run ID: GC11_130627B			SeqNo: 2364392		Prep Date:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Ethylene glycol	515.6	5.0	500	0	103	50-150	0	
Propylene glycol	499.7	10	500	0	99.9	50-150	0	
Triethylene glycol	514.8	5.0	500	0	103	50-150	0	

LCS Sample ID: LCS-R122932-R122932		Units: mg/Kg			Analysis Date: 6/28/2013 09:29 AM			
Client ID: GC11_130627B		Run ID: GC11_130627B			SeqNo: 2364457		Prep Date:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Ethylene glycol	531.8	5.0	500	0	106	50-150	0	
Propylene glycol	526.1	5.0	500	0	105	50-150	0	
Triethylene glycol	301.8	5.0	500	0	60.4	50-150	0	

MS Sample ID: 13061064-02B MS		Units: mg/L			Analysis Date: 6/27/2013 05:55 PM			
Client ID: BH22/PZ09		Run ID: GC11_130627B			SeqNo: 2364395		Prep Date:	DF: 2
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Ethylene glycol	994	10	1000	0	99.4	50-150	0	
Propylene glycol	932.2	20	1000	0	93.2	50-150	0	
Triethylene glycol	1004	10	1000	34.99	96.9	50-150	0	

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

Revision: 1

Client: HRL Compliance Solutions
Work Order: 13061064
Project: Source Gas Wolf Creek #12 13-113 6/26/13

QC BATCH REPORT

Batch ID: **R122932** Instrument ID **GC11** Method: **SW8015M**

MS Sample ID: 13061057-06B MS				Units: mg/Kg			Analysis Date: 6/28/2013 10:52 AM			
Client ID:		Run ID: GC11_130627B		SeqNo: 2364464		Prep Date:		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylene glycol	1050	10	1000	0	105	50-150		0		
Propylene glycol	1032	10	1000	0	103	50-150		0		
Triethylene glycol	821.4	10	1000	0	82.1	50-150		0		

MSD Sample ID: 13061064-02B MSD				Units: mg/L			Analysis Date: 6/27/2013 06:06 PM			
Client ID: BH22/PZ09		Run ID: GC11_130627B		SeqNo: 2364396		Prep Date:		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylene glycol	1029	10	1000	0	103	50-150	994	3.49	30	
Propylene glycol	1011	20	1000	0	101	50-150	932.2	8.15	30	
Triethylene glycol	1030	10	1000	34.99	99.5	50-150	1004	2.58	30	

MSD Sample ID: 13061057-06B MSD				Units: mg/Kg			Analysis Date: 6/28/2013 11:04 AM			
Client ID:		Run ID: GC11_130627B		SeqNo: 2364465		Prep Date:		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylene glycol	1045	10	1000	0	104	50-150	1050	0.565	30	
Propylene glycol	1041	10	1000	0	104	50-150	1032	0.914	30	
Triethylene glycol	860.5	10	1000	0	86.1	50-150	821.4	4.65	30	

The following samples were analyzed in this batch:

13061064-01B 13061064-02B

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

Revision: 1

QC Report Page: 5 of 8

Client: HRL Compliance Solutions
Work Order: 13061064
Project: Source Gas Wolf Creek #12 13-113 6/26/13

QC BATCH REPORT

Batch ID: **R122905** Instrument ID **GC10** Method: **SW8015**

Mblk				Sample ID: GBLK1-130627-R122905			Units: µg/L		Analysis Date: 6/27/2013 12:54 PM		
Client ID:		Run ID: GC10_130627A		SeqNo: 2363662		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>	108.3	0	100	0	108	70-130		0			
LCS				Sample ID: GLCS1-130627-R122905			Units: µg/L		Analysis Date: 6/27/2013 12:29 PM		
Client ID:		Run ID: GC10_130627A		SeqNo: 2363661		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)	8612	200	10000	0	86.1	70-130		0			
<i>Surr: Toluene-d8</i>	112.6	0	100	0	113	70-130		0			
MS				Sample ID: 13061058-06A MS			Units: µg/L		Analysis Date: 6/27/2013 09:43 PM		
Client ID:		Run ID: GC10_130627A		SeqNo: 2364194		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)	8168	200	10000	0	81.7	70-130		0			
<i>Surr: Toluene-d8</i>	109	0	100	0	109	70-130		0			
MSD				Sample ID: 13061058-06A MSD			Units: µg/L		Analysis Date: 6/27/2013 10:08 PM		
Client ID:		Run ID: GC10_130627A		SeqNo: 2364195		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)	7849	200	10000	0	78.5	70-130	8168	3.99	30		
<i>Surr: Toluene-d8</i>	108.6	0	100	0	109	70-130	109	0.368	30		

The following samples were analyzed in this batch:

13061064-01A 13061064-02A

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

Revision: 1

Client: HRL Compliance Solutions
Work Order: 13061064
Project: Source Gas Wolf Creek #12 13-113 6/26/13

QC BATCH REPORT

Batch ID: **R122877A** Instrument ID **VMS8** Method: **SW8260**

MBLK Sample ID: VBLKW1-130627-R122877A				Units: µg/L		Analysis Date: 6/27/2013 01:18 PM				
Client ID: VMS8_130627A		Run ID: VMS8_130627A		SeqNo: 2363810		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	3.0								
<i>Surr: 1,2-Dichloroethane-d4</i>	19.9	0	20	0	99.5	70-120	0	0		
<i>Surr: 4-Bromofluorobenzene</i>	18.57	0	20	0	92.8	75-120	0	0		
<i>Surr: Dibromofluoromethane</i>	20.91	0	20	0	105	85-115	0	0		
<i>Surr: Toluene-d8</i>	19.65	0	20	0	98.2	85-120	0	0		

LCS Sample ID: VLCSW1-130627-R122877A				Units: µg/L		Analysis Date: 6/27/2013 11:59 AM				
Client ID: VMS8_130627A		Run ID: VMS8_130627A		SeqNo: 2363809		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.94	1.0	20	0	99.7	80-120	0	0		
Ethylbenzene	20.22	1.0	20	0	101	75-125	0	0		
m,p-Xylene	39.97	2.0	40	0	99.9	75-130	0	0		
o-Xylene	20.02	1.0	20	0	100	80-120	0	0		
Toluene	19.57	1.0	20	0	97.8	75-120	0	0		
Xylenes, Total	59.99	3.0	60	0	100	75-130	0	0		
<i>Surr: 1,2-Dichloroethane-d4</i>	19.94	0	20	0	99.7	70-120	0	0		
<i>Surr: 4-Bromofluorobenzene</i>	19.28	0	20	0	96.4	75-120	0	0		
<i>Surr: Dibromofluoromethane</i>	21.08	0	20	0	105	85-115	0	0		
<i>Surr: Toluene-d8</i>	19.94	0	20	0	99.7	85-120	0	0		

MS Sample ID: 13061024-01A MS				Units: µg/L		Analysis Date: 6/27/2013 09:23 PM				
Client ID: VMS8_130627A		Run ID: VMS8_130627A		SeqNo: 2363840		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.86	1.0	20	0	99.3	80-120	0	0		
Ethylbenzene	19.74	1.0	20	0	98.7	75-125	0	0		
m,p-Xylene	39.15	2.0	40	0	97.9	75-130	0	0		
o-Xylene	19.2	1.0	20	0	96	80-120	0	0		
Toluene	19.51	1.0	20	0	97.6	75-120	0	0		
Xylenes, Total	58.35	3.0	60	0	97.2	75-130	0	0		
<i>Surr: 1,2-Dichloroethane-d4</i>	19.58	0	20	0	97.9	70-120	0	0		
<i>Surr: 4-Bromofluorobenzene</i>	18.87	0	20	0	94.4	75-120	0	0		
<i>Surr: Dibromofluoromethane</i>	20.94	0	20	0	105	85-115	0	0		
<i>Surr: Toluene-d8</i>	19.68	0	20	0	98.4	85-120	0	0		

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

Revision: 1

Client: HRL Compliance Solutions
Work Order: 13061064
Project: Source Gas Wolf Creek #12 13-113 6/26/13

QC BATCH REPORT

Batch ID: **R122877A** Instrument ID **VMS8** Method: **SW8260**

MSD Sample ID: 13061024-01A MSD				Units: µg/L			Analysis Date: 6/27/2013 09:47 PM			
Client ID:		Run ID: VMS8_130627A		SeqNo: 2363841		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.15	1.0	20	0	101	80-120	19.86	1.45	30	
Ethylbenzene	19.89	1.0	20	0	99.4	75-125	19.74	0.757	30	
m,p-Xylene	39.13	2.0	40	0	97.8	75-130	39.15	0.0511	30	
o-Xylene	19.38	1.0	20	0	96.9	80-120	19.2	0.933	30	
Toluene	19.51	1.0	20	0	97.6	75-120	19.51	0	30	
Xylenes, Total	58.51	3.0	60	0	97.5	75-130	58.35	0.274	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	19.9	0	20	0	99.5	70-120	19.58	1.62	30	
<i>Surr: 4-Bromofluorobenzene</i>	18.91	0	20	0	94.6	75-120	18.87	0.212	30	
<i>Surr: Dibromofluoromethane</i>	20.99	0	20	0	105	85-115	20.94	0.238	30	
<i>Surr: Toluene-d8</i>	19.72	0	20	0	98.6	85-120	19.68	0.203	30	

The following samples were analyzed in this batch:

13061064-01A	13061064-02A	13061064-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1



ALS Laboratory Group

3352 128th Avenue Holland MI, 49424

PH: (616) 399-6070

Chain-of-Custody

Form 202r8

WORKORDER #	130610264
PAGE	1 of 1
DISPOSAL	By Lab or Return to Client
SAMPLER	Mike Loba to
DATE	6/26/13
TURNAROUND	24 hr

PROJECT NAME	Sour Gas Wolf Creek #12	SITE ID		BILL TO COMPANY	HRL Compliance Solutions, Inc.
PROJECT No.	13-113	EDD FORMAT		INVOICE ATTN TO	Herman Lucero
COMPANY NAME	HRL Compliance Solutions, Inc.	PURCHASE ORDER		CITY / STATE / ZIP	Grand Junction, CO 81505
SEND REPORT TO	Herman Lucero, Mike Loba to	ADDRESS	2385 F 1/2 RD	PHONE	970-243-3271
ADDRESS	2385 F 1/2 RD	ADDRESS	2385 F 1/2 rd.	CITY / STATE / ZIP	Grand Junction, CO 81505
PHONE	970-243-3271	PHONE	970-243-3271	FAX	970-243-3280
FAX	970-243-3280	FAX	970-243-3280	E-MAIL	hlucero@hrlcomp.com mllobato@hrlcomp.com
E-MAIL	hlucero@hrlcomp.com mllobato@hrlcomp.com	E-MAIL	hlucero@hrlcomp.com	STEX SW8015M	DRO SW 8015m
				GRO SW8015	Glycols SW8015
				Methanol SW8015M	
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles Pres. QC
1	BH 21/PZ 21	W	6/26/13	1152	8 1,8 X X X X X
2	BH 22/PZ 22	W	6/26/13	1226	4 1,8 X X X X X
3	Trip Blank	W	6/26/13	1152	1 8 X X X
*	Temperature Blank -	W	6/26/13	1152	1 8

*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: BH 22/PZ 22 only has 4 total VOA's (2 clear HCL and 2 amb.). Priority order of tests: BTEX, TPH, Glycols, Methanol.

3.0°

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
Mike Loba to	Mike Loba to	6/26/13	1700
Diane F. Sha	Diane F. Sha	6/27/13	0930

SOILS	
WOLF CREEK #12	WOLF CREEK #12
OLD	AMMENDED
BH1/PZ1 2'-4'	BH01/PZ01 2'-4'
BH1/PZ1 4'-6'	BH01/PZ01 4'-6'
BH2/PZ2 0'-2'	BH02/PZ02 0'-2'
BH2/PZ2 6'-8'	BH02/PZ02 6'-8'
BH3 4'-6'	BH03 4'-6'
BH3 10'-12'	BH03 10'-12'
BH4 0'-2'	BH04 0'-2'
BH4 10'-12'	BH04 10'-12'
BH5 8'-12'	BH05 8'-12'
BH5 10'-12'	BH05 10'-12'
BH6/PZ6 2'-4'	BH06/PZ03 2'-4'
BH6/PZ6 4'-6'	BH06/PZ03 4'-6'
BH7 6'-8'	BH07 6'-8'
BH7 10'-12'	BH07 10'-12'
BH8 8'-10'	BH08 8'-10'
BH8 10'-12'	BH08 10'-12'
BH9 0'-2'	BH09 0'-2'
BH9 10'-12'	BH09 10'-12'
BH10/PZ10 0'-2'	BH10/PZ04 0'-2'
BH10/PZ10 2'-4'	BH10/PZ04 2'-4'
BH11/PZ11 4'-6'	BH11/PZ05 4'-6'
BH11/PZ11 6'-8'	BH11/PZ05 6'-8'
BH12/PZ12 2'-4'	BH12/PZ06 2'-4'
BH12/PZ12 4'-6'	BH12/PZ06 4'-6'
BH13 4'-6"	BH13 4'-6'
BH13 6'-8'	BH13 6'-8'
BH14 0'-2'	BH14 0'-2'
BH14 10'-12'	BH14 10'-12'
BH15 8-10'	BH15 8'-10'
BH16 8.5-9.5'	BH16 8.5'-9.5'
BH16A 2-3'	BH16A 2'-3'
BH17 8-10'	BH17 8'-10'
BH18 8-10'	BH18 8'-10'
BH20/PZ20 2-4'	BH20/PZ07 2'-4'
BH21/PZ21 6-8'	BH21/PZ08 6'-8'
BH22/PZ22 4-6'	BH22/PZ09 4'-6'
BH22/PZ22 6-8'	BH22/PZ09 6'-8'
BH23 6-8'	BH23 6'-8'
BH23 10-12'	BH23 10'-12'

WATER	
WOLF CREEK #12	WOLF CREEK #12
OLD	AMMENDED
BH1/PZ1	BH01/PZ01
BH2/PZ2	BH02/PZ02
BH6/PZ6	BH06/PZ03
BH10/PZ10	BH10/PZ04
BH11/PZ11	BH11/PZ05
BH12/PZ12	BH12/PZ06
BH20/PZ20	BH20/PZ07
BH21/PZ21	BH21/PZ08
BH22/PZ22	BH22/PZ09

1306367

13061065

W0# 13061057

1306369
1306971

13061064

SOILS	
WOLF CREEK #5	WOLF CREEK #5
OLD	AMMENDED
Piez01/SS01	Piez01/SS01
Piez01/SS01 Duplicate	Piez01/SS01 Duplicate
SS02	SS02
Piez03/SS03	Piez02/SS03
Piez04/SS04	SS04
Piez05/SS05	Piez03/SS05
Piez06/SS06	SS06

}

1307003 ✓

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 27-Jun-13 09:30

Work Order: 13061064

Received by: DS

Checklist completed by Diane Sham

eSignature

27-Jun-13

Date

Reviewed by: Bill Carey

eSignature

27-Jun-13

Date

Matrices: Water

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):

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

Yes No No VOA vials submitted

Water - VOA vials have zero headspace?

Yes No N/A

Water - pH acceptable upon receipt?

Yes No N/A

pH adjusted?

pH adjusted by:

Login Notes:

=====

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

Revision: 1

SRC Page 1 of 1

CUSTODY SEAL



ENVIRONMENTAL SAMPLING SUPPLY

9601 San Leandro St. Oakland, CA 800-233-8425

Date: 6/26/13

Signature: John G. Gable

FedEx® US Airbill
Express

FedEx
Tracking
Number

8722 9438 1241

0200 Form ID No.

FedEx Retrieval Copy

1 From

Date 6/26/13 Sender's FedEx
Account Number

Sender's
Name Mike Lobato

Phone 970 361 2216

Company HRL Compliance Solutions, Inc.

Address 2385 F 1/2 Road

City Grand Junction State CO ZIP 81505

2 Your Internal Billing Reference

3 To

Recipient's
Name Sample Receiving

Phone 616 399 6070

Company ALS Laboratory

Address 3352 128th Ave

We cannot deliver to P.O. boxes or P.D. ZIP codes.

Dept./Floor/Suite/Room

01 HOLD Weekly
FedEx location address
REQUIRED. NOT available for
FedEx First Overnight.

31 HOLD Saturday
FedEx location address
REQUIRED. Available ONLY for
FedEx Priority Overnight and
FedEx 2Day to select locations.

Address
Use this line for the HOLD location address or for continuation of your shipping address.

City Holland State MI ZIP 49424



8722 9438 1241

4a Express Package Service

01 FedEx Priority Overnight
Next business morning.* Friday
shipments will be delivered on Monday
unless SATURDAY Delivery is selected.

05 FedEx Standard Overnight
Next business afternoon.*
Saturday Delivery NOT available.

06 FedEx First Overnight
Early next business morning
delivery to select locations.*

03 FedEx 2Day
Second business day.* Thursday
shipments will be delivered on Monday
unless SATURDAY Delivery is selected.

20 FedEx Express Saver
Third business day.*
Saturday Delivery NOT available.

4b Express Freight Service

70 FedEx 1Day Freight
Next business day.* Friday shipments will
be delivered on Monday unless SATURDAY
Delivery is selected.

80 FedEx 2Day Freight
Second business day.* Thursday shipments will be delivered
on Monday unless SATURDAY Delivery is selected.

83 FedEx 3Day Freight
Third business day.* Saturday Delivery NOT available.

5 Packaging

06 FedEx Envelope* **02** FedEx Pak*
Includes FedEx Small Pak and
FedEx Large Pak.

03 FedEx Box **04** FedEx
Tube **01** Other

6 Special Handling and Delivery Signature Options

03 **SATURDAY DELIVERY**

No Signature Required
Package may be left without
obtaining a signature for delivery.

10 Direct Signature
Recipient signs at their 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.

No **04** As per attached
Shipper's Declaration. **06** Dry Ice
*Dangerous goods including dry ice cannot be shipped in FedEx packaging
or placed in FedEx Express Drop Box.*

06 Dry Ice
Dry Ice, 5 UN 1845 x kg
08 Cargo Aircraft Only

7 Payment Bill to:

1 **Sender**
Accts. & Sec. to be billed
2 **Recipient**
3 **Third Party** **4** **Credit Card** **5** **Cash/Check**

Total Packages Total Weight

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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606



12-Jul-2013

Herman Lucero
HRL Compliance Solutions
2385 F 1/2 Road
Grand Junction, CO 81505

Re: **Source Gas Wolf Creek #12 13-113 6/10/13**

Work Order: **1306369**

Dear Herman,

Revision: **1**

ALS Environmental received 6 samples on 11-Jun-2013 09:30 AM for the analyses presented in the following report.

This is a REVISED REPORT. The Case Narrative provides information discussing the reason for issuing a revised report. The total number of pages in this revision is 26.

If you have any questions regarding these test results, 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: MN 532786

Report of Laboratory Analysis

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

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/10/13
Work Order: **1306369**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1306369-01	BH01/PZ01	Water		6/10/2013 12:15	6/11/2013 09:30	<input type="checkbox"/>
1306369-02	BH02/PZ02	Water		6/10/2013 12:57	6/11/2013 09:30	<input type="checkbox"/>
1306369-03	BH06/PZ03	Water		6/10/2013 13:18	6/11/2013 09:30	<input type="checkbox"/>
1306369-04	BH10/PZ04	Water		6/10/2013 13:25	6/11/2013 09:30	<input type="checkbox"/>
1306369-05	BH11/PZ05	Water		6/10/2013 13:45	6/11/2013 09:30	<input type="checkbox"/>
1306369-06	BH12/PZ06	Water		6/10/2013 14:05	6/11/2013 09:30	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/10/13
Work Order: 1306369

Case Narrative

At the request of the client, the sample IDs were changed in this revised report. No results were changed.

Batch R122122 sample BH10/PZ04 MSD recovery for GRO was slightly below control limits. Both the MS recovery and RPD met quality control criteria. No data requires qualification.

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/10/13
WorkOrder: 1306369

**QUALIFIERS,
ACRONYMS, UNITS****Qualifier**

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

Acronym

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported

<u>Units Reported</u>	<u>Description</u>
µg/L	Micrograms per Liter
mg/L	Milligrams per Liter

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/10/13 **Work Order:** 1306369
Sample ID: BH01/PZ01 **Lab ID:** 1306369-01
Collection Date: 6/10/2013 12:15 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	17		0.35	mg/L	1	6/11/2013 08:03 PM
Surr: 4-Terphenyl-d14	30.7		21-90	%REC	1	6/11/2013 08:03 PM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	350		5.0	mg/L	1	6/13/2013 05:05 PM
Methanol	20		5.0	mg/L	1	6/14/2013 02:02 PM
Propylene glycol	ND		5.0	mg/L	1	6/13/2013 05:05 PM
Triethylene glycol	13,000		250	mg/L	50	6/14/2013 12:31 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	5.2		0.20	mg/L	1	6/12/2013 03:09 PM
Surr: Toluene-d8	106		70-130	%REC	1	6/12/2013 03:09 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: RS
Benzene	5.9		5.0	µg/L	5	6/14/2013 06:41 AM
Ethylbenzene	ND		5.0	µg/L	5	6/14/2013 06:41 AM
m,p-Xylene	ND		10	µg/L	5	6/14/2013 06:41 AM
o-Xylene	ND		5.0	µg/L	5	6/14/2013 06:41 AM
Toluene	ND		5.0	µg/L	5	6/14/2013 06:41 AM
Xylenes, Total	ND		15	µg/L	5	6/14/2013 06:41 AM
Surr: 1,2-Dichloroethane-d4	110		70-120	%REC	5	6/14/2013 06:41 AM
Surr: 4-Bromofluorobenzene	96.3		75-120	%REC	5	6/14/2013 06:41 AM
Surr: Dibromofluoromethane	97.8		85-115	%REC	5	6/14/2013 06:41 AM
Surr: Toluene-d8	103		85-120	%REC	5	6/14/2013 06:41 AM

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

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/10/13 **Work Order:** 1306369
Sample ID: BH02/PZ02 **Lab ID:** 1306369-02
Collection Date: 6/10/2013 12:57 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	74		1.2	mg/L	1	6/14/2013 07:19 PM
Surr: 4-Terphenyl-d14	64.3		21-90	%REC	1	6/14/2013 07:19 PM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	1,800		50	mg/L	10	6/14/2013 12:42 PM
Methanol	3,400		25	mg/L	5	6/17/2013 10:31 AM
Propylene glycol	ND		5.0	mg/L	1	6/13/2013 05:16 PM
Triethylene glycol	7,900		50	mg/L	10	6/14/2013 12:42 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	41		0.20	mg/L	1	6/12/2013 03:34 PM
Surr: Toluene-d8	111		70-130	%REC	1	6/12/2013 03:34 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: RS
Benzene	22		15	µg/L	25	6/14/2013 07:02 AM
Ethylbenzene	18		15	µg/L	25	6/14/2013 07:02 AM
m,p-Xylene	67		50	µg/L	25	6/14/2013 07:02 AM
o-Xylene	36		25	µg/L	25	6/14/2013 07:02 AM
Toluene	58		25	µg/L	25	6/14/2013 07:02 AM
Xylenes, Total	100		75	µg/L	25	6/14/2013 07:02 AM
Surr: 1,2-Dichloroethane-d4	107		70-120	%REC	25	6/14/2013 07:02 AM
Surr: 4-Bromofluorobenzene	100		75-120	%REC	25	6/14/2013 07:02 AM
Surr: Dibromofluoromethane	102		85-115	%REC	25	6/14/2013 07:02 AM
Surr: Toluene-d8	96.3		85-120	%REC	25	6/14/2013 07:02 AM

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

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/10/13 **Work Order:** 1306369
Sample ID: BH06/PZ03 **Lab ID:** 1306369-03
Collection Date: 6/10/2013 01:18 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	2.5		0.10	mg/L	1	6/11/2013 08:33 PM
Surr: 4-Terphenyl-d14	65.7		21-90	%REC	1	6/11/2013 08:33 PM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	490		5.0	mg/L	1	6/13/2013 05:27 PM
Methanol	15		5.0	mg/L	1	6/14/2013 03:00 PM
Propylene glycol	ND		5.0	mg/L	1	6/13/2013 05:27 PM
Triethylene glycol	ND		5.0	mg/L	1	6/13/2013 05:27 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	0.83		0.20	mg/L	1	6/15/2013 01:41 AM
Surr: Toluene-d8	102		70-130	%REC	1	6/15/2013 01:41 AM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: RS
Benzene	10		1.0	µg/L	1	6/14/2013 07:24 AM
Ethylbenzene	ND		1.0	µg/L	1	6/14/2013 07:24 AM
m,p-Xylene	4.7		2.0	µg/L	1	6/14/2013 07:24 AM
o-Xylene	1.5		1.0	µg/L	1	6/14/2013 07:24 AM
Toluene	16		1.0	µg/L	1	6/14/2013 07:24 AM
Xylenes, Total	6.3		3.0	µg/L	1	6/14/2013 07:24 AM
Surr: 1,2-Dichloroethane-d4	108		70-120	%REC	1	6/14/2013 07:24 AM
Surr: 4-Bromofluorobenzene	97.8		75-120	%REC	1	6/14/2013 07:24 AM
Surr: Dibromofluoromethane	98.8		85-115	%REC	1	6/14/2013 07:24 AM
Surr: Toluene-d8	94.8		85-120	%REC	1	6/14/2013 07:24 AM

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

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/10/13 **Work Order:** 1306369
Sample ID: BH10/PZ04 **Lab ID:** 1306369-04
Collection Date: 6/10/2013 01:25 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	1.5		0.10	mg/L	1	6/11/2013 09:03 PM
Surr: 4-Terphenyl-d14	58.9		21-90	%REC	1	6/11/2013 09:03 PM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	ND		5.0	mg/L	1	6/13/2013 05:38 PM
Methanol	ND		5.0	mg/L	1	6/14/2013 03:28 PM
Propylene glycol	ND		5.0	mg/L	1	6/13/2013 05:38 PM
Triethylene glycol	ND		5.0	mg/L	1	6/13/2013 05:38 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	0.21		0.20	mg/L	1	6/15/2013 02:06 AM
Surr: Toluene-d8	110		70-130	%REC	1	6/15/2013 02:06 AM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: RS
Benzene	ND		1.0	µg/L	1	6/14/2013 07:46 AM
Ethylbenzene	ND		1.0	µg/L	1	6/14/2013 07:46 AM
m,p-Xylene	ND		2.0	µg/L	1	6/14/2013 07:46 AM
o-Xylene	ND		1.0	µg/L	1	6/14/2013 07:46 AM
Toluene	1.7		1.0	µg/L	1	6/14/2013 07:46 AM
Xylenes, Total	ND		3.0	µg/L	1	6/14/2013 07:46 AM
Surr: 1,2-Dichloroethane-d4	105		70-120	%REC	1	6/14/2013 07:46 AM
Surr: 4-Bromofluorobenzene	95.1		75-120	%REC	1	6/14/2013 07:46 AM
Surr: Dibromofluoromethane	103		85-115	%REC	1	6/14/2013 07:46 AM
Surr: Toluene-d8	93.0		85-120	%REC	1	6/14/2013 07:46 AM

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

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/10/13 **Work Order:** 1306369
Sample ID: BH11/PZ05 **Lab ID:** 1306369-05
Collection Date: 6/10/2013 01:45 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	37		1.2	mg/L	1	Analyst: CW 6/14/2013 07:49 PM
Surr: 4-Terphenyl-d14	57.8		21-90	%REC	1	6/14/2013 07:49 PM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	1,900		100	mg/L	20	6/14/2013 12:53 PM
Methanol	2,000		25	mg/L	5	6/17/2013 10:59 AM
Propylene glycol	ND		5.0	mg/L	1	6/13/2013 05:49 PM
Triethylene glycol	7,600		100	mg/L	20	6/14/2013 12:53 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	18		0.20	mg/L	1	6/12/2013 04:48 PM
Surr: Toluene-d8	110		70-130	%REC	1	6/12/2013 04:48 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: RS
Benzene	12		12	µg/L	20	6/14/2013 08:07 AM
Ethylbenzene	ND		20	µg/L	20	6/14/2013 08:07 AM
m,p-Xylene	17		12	µg/L	20	6/14/2013 08:07 AM
o-Xylene	ND		20	µg/L	20	6/14/2013 08:07 AM
Toluene	17		12	µg/L	20	6/14/2013 08:07 AM
Xylenes, Total	17		12	µg/L	20	6/14/2013 08:07 AM
Surr: 1,2-Dichloroethane-d4	120		70-120	%REC	20	6/14/2013 08:07 AM
Surr: 4-Bromofluorobenzene	101		75-120	%REC	20	6/14/2013 08:07 AM
Surr: Dibromofluoromethane	110		85-115	%REC	20	6/14/2013 08:07 AM
Surr: Toluene-d8	96.8		85-120	%REC	20	6/14/2013 08:07 AM

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

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/10/13 **Work Order:** 1306369
Sample ID: BH12/PZ06 **Lab ID:** 1306369-06
Collection Date: 6/10/2013 02:05 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	3.3		0.10	mg/L	1	6/11/2013 09:34 PM
Surr: 4-Terphenyl-d14	52.9		21-90	%REC	1	6/11/2013 09:34 PM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	260		5.0	mg/L	1	6/13/2013 06:00 PM
Methanol	5.3		5.0	mg/L	1	6/14/2013 04:26 PM
Propylene glycol	ND		5.0	mg/L	1	6/13/2013 06:00 PM
Triethylene glycol	420		5.0	mg/L	1	6/13/2013 06:00 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	0.62		0.20	mg/L	1	6/15/2013 02:30 AM
Surr: Toluene-d8	110		70-130	%REC	1	6/15/2013 02:30 AM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: BG
Benzene	3.0		1.0	µg/L	1	6/14/2013 10:11 PM
Ethylbenzene	ND		1.0	µg/L	1	6/14/2013 10:11 PM
m,p-Xylene	ND		2.0	µg/L	1	6/14/2013 10:11 PM
o-Xylene	ND		1.0	µg/L	1	6/14/2013 10:11 PM
Toluene	1.6		1.0	µg/L	1	6/14/2013 10:11 PM
Xylenes, Total	ND		3.0	µg/L	1	6/14/2013 10:11 PM
Surr: 1,2-Dichloroethane-d4	97.2		70-120	%REC	1	6/14/2013 10:11 PM
Surr: 4-Bromofluorobenzene	100		75-120	%REC	1	6/14/2013 10:11 PM
Surr: Dibromofluoromethane	99.1		85-115	%REC	1	6/14/2013 10:11 PM
Surr: Toluene-d8	96.3		85-120	%REC	1	6/14/2013 10:11 PM

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

ALS Group USA, Corp

Date: 12-Jul-13

Client: HRL Compliance Solutions

QC BATCH REPORT

Work Order: 1306369

Project: Source Gas Wolf Creek #12 13-113 6/10/13

Batch ID: **48981B**Instrument ID **GC8**Method: **SW8015M**

MBLK Sample ID: DBLKW1-48981-48981B		Units: mg/L				Analysis Date: 6/11/2013 05:32 PM				
Client ID: Run ID: GC8_130611B				SeqNo: 2347457		Prep Date: 6/11/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	0.10								
Surr: 4-Terphenyl-d14	0.07886	0	0.1143		0	69	21-90	0		
LCS Sample ID: DLCSW1-48981-48981B		Units: mg/L				Analysis Date: 6/11/2013 06:02 PM				
Client ID: Run ID: GC8_130611B				SeqNo: 2347458		Prep Date: 6/11/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	7.196	0.10	11.43		0	63	44-116	0		
Surr: 4-Terphenyl-d14	0.08546	0	0.1143		0	74.8	21-90	0		
MS Sample ID: 1306341-02B MS		Units: mg/L				Analysis Date: 6/11/2013 06:32 PM				
Client ID: Run ID: GC8_130611B				SeqNo: 2347459		Prep Date: 6/11/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	32.03	0.35	40	8.294	59.3	44-116		0		
Surr: 4-Terphenyl-d14	0.3062	0	0.4		0	76.5	21-90	0		
MSD Sample ID: 1306341-02B MSD		Units: mg/L				Analysis Date: 6/11/2013 07:03 PM				
Client ID: Run ID: GC8_130611B				SeqNo: 2347460		Prep Date: 6/11/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	33.26	0.35	40	8.294	62.4	44-116		32.03	3.77	30
Surr: 4-Terphenyl-d14	0.3086	0	0.4		0	77.2	21-90	0.3062	0.807	30

The following samples were analyzed in this batch:

1306369-01B 1306369-03B 1306369-04B

1306369-06B

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

Revision: 1

QC Page: 1 of 11

Client: HRL Compliance Solutions
Work Order: 1306369
Project: Source Gas Wolf Creek #12 13-113 6/10/13

QC BATCH REPORT

Batch ID: **49075** Instrument ID **GC8** Method: **SW8015M**

MBLK	Sample ID: DBLKW1-49075-49075				Units: mg/L		Analysis Date: 6/14/2013 04:48 PM			
Client ID:	Run ID: GC8_130614A				SeqNo: 2351573		Prep Date: 6/14/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	0.10								
<i>Surr: 4-Terphenyl-d14</i>	0.06937	0	0.1143		0	60.7	21-90	0		
LCS	Sample ID: DLCSW1-49075-49075				Units: mg/L		Analysis Date: 6/14/2013 05:18 PM			
Client ID:	Run ID: GC8_130614A				SeqNo: 2351574		Prep Date: 6/14/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	6.169	0.10	11.43		0	54	44-116	0		
<i>Surr: 4-Terphenyl-d14</i>	0.07703	0	0.1143		0	67.4	21-90	0		
MS	Sample ID: 1306502-01B MS				Units: mg/L		Analysis Date: 6/14/2013 05:49 PM			
Client ID:	Run ID: GC8_130614A				SeqNo: 2351575		Prep Date: 6/14/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	21.55	0.35	40		0	53.9	44-116	0		
<i>Surr: 4-Terphenyl-d14</i>	0.277	0	0.4		0	69.2	21-90	0		
MSD	Sample ID: 1306502-01B MSD				Units: mg/L		Analysis Date: 6/14/2013 06:19 PM			
Client ID:	Run ID: GC8_130614A				SeqNo: 2351576		Prep Date: 6/14/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	19.74	0.35	40		0	49.3	44-116	21.55	8.77	30
<i>Surr: 4-Terphenyl-d14</i>	0.2726	0	0.4		0	68.2	21-90	0.277	1.57	30

The following samples were analyzed in this batch:

1306369-02B 1306369-05B

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

Revision: 1

QC Page: 2 of 11

Client: HRL Compliance Solutions
Work Order: 1306369
Project: Source Gas Wolf Creek #12 13-113 6/10/13

QC BATCH REPORT

Batch ID: **R122322** Instrument ID **GC5** Method: **SW8015M**

MBLK Sample ID: MB-R122322-R122322				Units: mg/L			Analysis Date: 6/14/2013 12:37 PM			
Client ID:		Run ID: GC5_130614B		SeqNo: 2351452		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methanol		ND		5.0						
LCS Sample ID: LCS-R122322-R122322				Units: mg/L			Analysis Date: 6/14/2013 01:05 PM			
Client ID:		Run ID: GC5_130614B		SeqNo: 2351453		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methanol		482.4	5.0	500	0	96.5	50-150	0		
MS Sample ID: 1306500-08B MS				Units: mg/L			Analysis Date: 6/14/2013 07:45 PM			
Client ID:		Run ID: GC5_130614B		SeqNo: 2351466		Prep Date:		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methanol		957.3	10	1000	0	95.7	50-150	0		
MSD Sample ID: 1306500-08B MSD				Units: mg/L			Analysis Date: 6/14/2013 08:14 PM			
Client ID:		Run ID: GC5_130614B		SeqNo: 2351467		Prep Date:		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methanol		958.6	10	1000	0	95.9	50-150	957.3	0.14	30

The following samples were analyzed in this batch:

1306369-01C	1306369-02C	1306369-03C
1306369-04C	1306369-05C	1306369-06C

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

Revision: 1

QC Page: 3 of 11

Client: HRL Compliance Solutions
Work Order: 1306369
Project: Source Gas Wolf Creek #12 13-113 6/10/13

QC BATCH REPORT

Batch ID: **R122327** Instrument ID **GC11** Method: **SW8015M**

Mblk Sample ID: MB-R122327-R122327			Units: mg/L			Analysis Date: 6/13/2013 04:09 PM			
Client ID:		Run ID: GC11_130613B		SeqNo: 2351553		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
Ethylene glycol	ND	5.0							
Propylene glycol	ND	10							
Triethylene glycol	ND	5.0							

LCS Sample ID: LCS-R122327-R122327			Units: mg/L			Analysis Date: 6/13/2013 06:12 PM			
Client ID:		Run ID: GC11_130613B		SeqNo: 2351554		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
Ethylene glycol	395.2	5.0	500	0	79	50-150	0		
Propylene glycol	451.3	10	500	0	90.3	50-150	0		
Triethylene glycol	479	5.0	500	0	95.8	50-150	0		

MS Sample ID: 1306034-06C MS			Units: mg/L			Analysis Date: 6/13/2013 04:42 PM			
Client ID:		Run ID: GC11_130613B		SeqNo: 2351557		Prep Date:		DF: 2	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
Ethylene glycol	458.5	10	500	0	91.7	50-150	0		
Propylene glycol	448	20	500	0	89.6	50-150	0		
Triethylene glycol	455	10	500	0	91	50-150	0		

MSD Sample ID: 1306034-06C MSD			Units: mg/L			Analysis Date: 6/13/2013 04:54 PM			
Client ID:		Run ID: GC11_130613B		SeqNo: 2351558		Prep Date:		DF: 2	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
Ethylene glycol	453.1	10	500	0	90.6	50-150	458.5	1.19	30
Propylene glycol	442.4	20	500	0	88.5	50-150	448	1.26	30
Triethylene glycol	451.8	10	500	0	90.4	50-150	455	0.702	30

The following samples were analyzed in this batch:

1306369-01B	1306369-02B	1306369-03B
1306369-04B	1306369-05B	1306369-06B

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

Revision: 1

Client: HRL Compliance Solutions
Work Order: 1306369
Project: Source Gas Wolf Creek #12 13-113 6/10/13

QC BATCH REPORT

Batch ID: **R122334** Instrument ID **GC11** Method: **SW8015M**

MBLK Sample ID: MB-R122334-R122334				Units: mg/Kg			Analysis Date: 6/14/2013 01:16 PM			
Client ID:		Run ID: GC11_130614A		SeqNo: 2351720		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylene glycol	ND	5.0								
Triethylene glycol	ND	5.0								
LCS Sample ID: LCS-R122334-R122334				Units: mg/Kg			Analysis Date: 6/14/2013 02:11 PM			
Client ID:		Run ID: GC11_130614A		SeqNo: 2351721		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylene glycol	528.3	5.0	500	0	106	50-150	0			
Triethylene glycol	526	5.0	500	0	105	0				
MS Sample ID: 1306367-02A MS				Units: mg/Kg			Analysis Date: 6/14/2013 01:49 PM			
Client ID:		Run ID: GC11_130614A		SeqNo: 2351724		Prep Date:		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylene glycol	516.1	10	500	95.13	84.2	50-150	0			
Triethylene glycol	2086	10	500	1623	92.7	50-150	0			
MSD Sample ID: 1306367-02A MSD				Units: mg/Kg			Analysis Date: 6/14/2013 02:00 PM			
Client ID:		Run ID: GC11_130614A		SeqNo: 2351725		Prep Date:		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylene glycol	535.7	10	500	95.13	88.1	50-150	516.1	3.74	30	
Triethylene glycol	2138	10	500	1623	103	50-150	2086	2.45	30	

The following samples were analyzed in this batch:

1306369-01B 1306369-02B 1306369-05B

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

Revision: 1

Client: HRL Compliance Solutions
Work Order: 1306369
Project: Source Gas Wolf Creek #12 13-113 6/10/13

QC BATCH REPORT

Batch ID: **R122122** Instrument ID **GC10** Method: **SW8015**

MBLK Sample ID: GBLK1-130612-R122122		Units: µg/L				Analysis Date: 6/12/2013 01:30 PM				
Client ID: GC10_130612A		Run ID: GC10_130612A				SeqNo: 2347565		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>	109	0	100	0	109	70-130	0	0		

LCS Sample ID: GLCS1-130612-R122122		Units: µg/L				Analysis Date: 6/12/2013 01:05 PM				
Client ID: GC10_130612A		Run ID: GC10_130612A				SeqNo: 2347564		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)	7570	200	10000	0	75.7	70-130	0	0		
<i>Surr: Toluene-d8</i>	110.7	0	100	0	111	70-130	0	0		

MS Sample ID: 1306369-04A MS		Units: µg/L				Analysis Date: 6/12/2013 10:12 PM				
Client ID: BH10/PZ04		Run ID: GC10_130612A				SeqNo: 2347899		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)	7544	200	10000	255.1	72.9	70-130	0	0		
<i>Surr: Toluene-d8</i>	109.2	0	100	0	109	70-130	0	0		

MSD Sample ID: 1306369-04A MSD		Units: µg/L				Analysis Date: 6/12/2013 10:37 PM				
Client ID: BH10/PZ04		Run ID: GC10_130612A				SeqNo: 2347900		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)	7247	200	10000	255.1	69.9	70-130	7544	4.02	30	S
<i>Surr: Toluene-d8</i>	108.6	0	100	0	109	70-130	109.2	0.578	30	

The following samples were analyzed in this batch:

1306369-01A	1306369-02A	1306369-03A
1306369-04A	1306369-05A	1306369-06A

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

Revision: 1

Client: HRL Compliance Solutions
Work Order: 1306369
Project: Source Gas Wolf Creek #12 13-113 6/10/13

QC BATCH REPORT

Batch ID: **R122287** Instrument ID **GC10** Method: **SW8015**

MBLK Sample ID: GBLK2-130614-R122287				Units: µg/L			Analysis Date: 6/14/2013 08:45 PM			
Client ID:		Run ID: GC10_130614B		SeqNo: 2350819		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>	105.7	0	100	0	106	70-130				
LCS Sample ID: GLCS2-130614-R122287				Units: µg/L			Analysis Date: 6/14/2013 08:21 PM			
Client ID:		Run ID: GC10_130614B		SeqNo: 2350817		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)	8842	200	10000	0	88.4	70-130				
<i>Surr: Toluene-d8</i>	112.7	0	100	0	113	70-130				
MS Sample ID: 1306499-04A MS				Units: µg/Kg			Analysis Date: 6/15/2013 04:09 AM			
Client ID:		Run ID: GC10_130614B		SeqNo: 2350839		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)	458700	2,500	500000	0	91.7	70-130				
<i>Surr: Toluene-d8</i>	5491	0	5000	0	110	50-150				
MSD Sample ID: 1306499-04A MSD				Units: µg/Kg			Analysis Date: 6/15/2013 04:33 AM			
Client ID:		Run ID: GC10_130614B		SeqNo: 2350841		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)	437300	2,500	500000	0	87.5	70-130	458700	4.78	30	
<i>Surr: Toluene-d8</i>	5425	0	5000	0	108	50-150	5491	1.21	30	

The following samples were analyzed in this batch:

1306369-03A 1306369-04A 1306369-06A

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

Revision: 1

QC Page: 7 of 11

Client: HRL Compliance Solutions
Work Order: 1306369
Project: Source Gas Wolf Creek #12 13-113 6/10/13

QC BATCH REPORT

Batch ID: **R122203** Instrument ID **VMS9** Method: **SW8260**

MBLK Sample ID: VBLKW1-130613-R122203				Units: µg/L		Analysis Date: 6/14/2013 01:15 AM				
Client ID:		Run ID: VMS9_130613A		SeqNo: 2349522		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	3.0								
<i>Surr: 1,2-Dichloroethane-d4</i>	20.84	0	20	0	104	70-120	0			
<i>Surr: 4-Bromofluorobenzene</i>	19.45	0	20	0	97.2	75-120	0			
<i>Surr: Dibromofluoromethane</i>	19.93	0	20	0	99.6	85-115	0			
<i>Surr: Toluene-d8</i>	20.03	0	20	0	100	85-120	0			

LCS Sample ID: VLCSW1-130613-R122203				Units: µg/L		Analysis Date: 6/14/2013 12:32 PM				
Client ID:		Run ID: VMS9_130613A		SeqNo: 2349545		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.8	1.0	20	0	99	80-120	0			
Ethylbenzene	20.68	1.0	20	0	103	75-125	0			
m,p-Xylene	41.74	2.0	40	0	104	75-130	0			
o-Xylene	21.15	1.0	20	0	106	80-120	0			
Toluene	19.92	1.0	20	0	99.6	75-120	0			
Xylenes, Total	62.89	3.0	60	0	105	75-130	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	20.07	0	20	0	100	70-120	0			
<i>Surr: 4-Bromofluorobenzene</i>	20.42	0	20	0	102	75-120	0			
<i>Surr: Dibromofluoromethane</i>	20.4	0	20	0	102	85-115	0			
<i>Surr: Toluene-d8</i>	20	0	20	0	100	85-120	0			

MS Sample ID: 1306453-09A MS				Units: µg/L		Analysis Date: 6/14/2013 08:51 AM				
Client ID:		Run ID: VMS9_130613A		SeqNo: 2349543		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.68	1.0	20	0	93.4	80-120	0			
Ethylbenzene	19.33	1.0	20	0	96.6	75-125	0			
m,p-Xylene	38.26	2.0	40	0	95.6	75-130	0			
o-Xylene	18.73	1.0	20	0	93.6	80-120	0			
Toluene	18.55	1.0	20	0	92.8	75-120	0			
Xylenes, Total	56.99	3.0	60	0	95	75-130	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	20.76	0	20	0	104	70-120	0			
<i>Surr: 4-Bromofluorobenzene</i>	19.39	0	20	0	97	75-120	0			
<i>Surr: Dibromofluoromethane</i>	20.7	0	20	0	104	85-115	0			
<i>Surr: Toluene-d8</i>	18.57	0	20	0	92.8	85-120	0			

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

Revision: 1

Client: HRL Compliance Solutions
Work Order: 1306369
Project: Source Gas Wolf Creek #12 13-113 6/10/13

QC BATCH REPORT

Batch ID: **R122203** Instrument ID **VMS9** Method: **SW8260**

MSD	Sample ID: 1306453-09A MSD			Units: µg/L			Analysis Date: 6/14/2013 09:13 AM			
Client ID:	Run ID: VMS9_130613A			SeqNo: 2349544			Prep Date:			DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19	1.0	20	0	95	80-120	18.68	1.7	30	
Ethylbenzene	19.88	1.0	20	0	99.4	75-125	19.33	2.81	30	
m,p-Xylene	40.1	2.0	40	0	100	75-130	38.26	4.7	30	
o-Xylene	19.88	1.0	20	0	99.4	80-120	18.73	5.96	30	
Toluene	19.18	1.0	20	0	95.9	75-120	18.55	3.34	30	
Xylenes, Total	59.98	3.0	60	0	100	75-130	56.99	5.11	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	21.19	0	20	0	106	70-120	20.76	2.05	30	
<i>Surr: 4-Bromofluorobenzene</i>	19.52	0	20	0	97.6	75-120	19.39	0.668	30	
<i>Surr: Dibromofluoromethane</i>	20.52	0	20	0	103	85-115	20.7	0.873	30	
<i>Surr: Toluene-d8</i>	19.03	0	20	0	95.2	85-120	18.57	2.45	30	

The following samples were analyzed in this batch:

1306369-01A	1306369-02A	1306369-03A
1306369-04A	1306369-05A	1306369-06A

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

Revision: 1

QC Page: 9 of 11

Client: HRL Compliance Solutions
Work Order: 1306369
Project: Source Gas Wolf Creek #12 13-113 6/10/13

QC BATCH REPORT

Batch ID: **R122235** Instrument ID **VMS6** Method: **SW8260**

MBLK Sample ID: VBLKW1-130614-R122235				Units: µg/L		Analysis Date: 6/14/2013 02:54 PM				
Client ID:		Run ID: VMS6_130614A		SeqNo: 2350161		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	3.0								
<i>Surr: 1,2-Dichloroethane-d4</i>	19.93	0	20	0	99.6	70-120	0			
<i>Surr: 4-Bromofluorobenzene</i>	19.2	0	20	0	96	75-120	0			
<i>Surr: Dibromofluoromethane</i>	19.87	0	20	0	99.4	85-115	0			
<i>Surr: Toluene-d8</i>	19.15	0	20	0	95.8	85-120	0			

LCS Sample ID: VLCSW1-130614-R122235				Units: µg/L		Analysis Date: 6/14/2013 02:04 PM				
Client ID:		Run ID: VMS6_130614A		SeqNo: 2350160		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.22	1.0	20	0	101	80-120	0			
Ethylbenzene	19.08	1.0	20	0	95.4	75-125	0			
m,p-Xylene	37.99	2.0	40	0	95	75-130	0			
o-Xylene	19.19	1.0	20	0	96	80-120	0			
Toluene	18.91	1.0	20	0	94.6	75-120	0			
Xylenes, Total	57.18	3.0	60	0	95.3	75-130	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	19.05	0	20	0	95.2	70-120	0			
<i>Surr: 4-Bromofluorobenzene</i>	20.07	0	20	0	100	75-120	0			
<i>Surr: Dibromofluoromethane</i>	20.23	0	20	0	101	85-115	0			
<i>Surr: Toluene-d8</i>	19.39	0	20	0	97	85-120	0			

MS Sample ID: 1306583-01A MS				Units: µg/L		Analysis Date: 6/14/2013 11:48 PM				
Client ID:		Run ID: VMS6_130614A		SeqNo: 2350920		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	23.77	1.0	20	2.01	109	80-120	0			
Ethylbenzene	20.58	1.0	20	0	103	75-125	0			
m,p-Xylene	40.81	2.0	40	0	102	75-130	0			
o-Xylene	20.44	1.0	20	0	102	80-120	0			
Toluene	20.17	1.0	20	0	101	75-120	0			
Xylenes, Total	61.25	3.0	60	0	102	75-130	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	19.49	0	20	0	97.4	70-120	0			
<i>Surr: 4-Bromofluorobenzene</i>	21.04	0	20	0	105	75-120	0			
<i>Surr: Dibromofluoromethane</i>	20.2	0	20	0	101	85-115	0			
<i>Surr: Toluene-d8</i>	19.63	0	20	0	98.2	85-120	0			

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

Revision: 1

Client: HRL Compliance Solutions
Work Order: 1306369
Project: Source Gas Wolf Creek #12 13-113 6/10/13

QC BATCH REPORT

Batch ID: **R122235** Instrument ID **VMS6** Method: **SW8260**

MSD	Sample ID: 1306583-01A MSD				Units: µg/L			Analysis Date: 6/15/2013 12:13 PM		
Client ID:	Run ID: VMS6_130614A			SeqNo: 2350921			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	22.66	1.0	20	2.01	103	80-120	23.77	4.78	30	
Ethylbenzene	19.82	1.0	20	0	99.1	75-125	20.58	3.76	30	
m,p-Xylene	39.17	2.0	40	0	97.9	75-130	40.81	4.1	30	
o-Xylene	19.49	1.0	20	0	97.4	80-120	20.44	4.76	30	
Toluene	19.12	1.0	20	0	95.6	75-120	20.17	5.34	30	
Xylenes, Total	58.66	3.0	60	0	97.8	75-130	61.25	4.32	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	18.93	0	20	0	94.6	70-120	19.49	2.92	30	
<i>Surr: 4-Bromofluorobenzene</i>	20.48	0	20	0	102	75-120	21.04	2.7	30	
<i>Surr: Dibromofluoromethane</i>	20.63	0	20	0	103	85-115	20.2	2.11	30	
<i>Surr: Toluene-d8</i>	19.46	0	20	0	97.3	85-120	19.63	0.87	30	

The following samples were analyzed in this batch: | 1306369-06A |

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

Revision: 1

QC Page: 11 of 11



ALS Laboratory Group

3352 128th Avenue Holland MI, 49424

PH: (616) 399-6070

Chain-of-Custody

Form 202r8.

WORKORDER #	1306369						
PAGE	1 of 1						
DISPOSAL	By Lab or Return to Client						

PROJECT NAME	Source Gas/Wolf Creek #72	SAMPLER	Mike Lobato			DATE	6/10/13
PROJECT No.	13-113	SITE ID				TURNAROUND	
		EDD FORMAT					
COMPANY NAME	HRL Compliance Solutions Inc.	PURCHASE ORDER					
SEND REPORT TO	Herman Lucero	BILL TO COMPANY	HRL Compliance Solutions Inc.				
ADDRESS	2385 F ½ Road	INVOICE ATTN TO	Herman Lucero				
CITY / STATE / ZIP	Grand Junction, CO 81505	ADDRESS	2385 F ½ Road				
PHONE	970-243-3271	CITY / STATE / ZIP	Grand Junction, CO 81505				
FAX	970-243-3280	PHONE	970-243-3271				
E-MAIL	h.lucero@hrlcomp.com	FAX	970-243-3280				
E-MAIL	h.lucero@hrlcomp.com	E-MAIL	h.lucero@hrlcomp.com				

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	
1	BH1/PZ1	Water	6/10/13	1215	8	1,8	XXXXX	
2	BH2/PZ2			1257				
3	BH6/PZ6 03			1318				
4	BH10/PZ10 04			1325				
5	BH11/PZ11 05			1345				
6	BH12/PZ12 06			1405	4		↓↓↓↓	

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:

S.22 JP

QC PACKAGE (check below)	
<input checked="" type="checkbox"/>	LEVEL II (Standard QC)
<input type="checkbox"/>	LEVEL III (Std QC + forms)
<input type="checkbox"/>	LEVEL IV (Std QC + forms + raw data)
<input type="checkbox"/>	

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

RELINQUISHED BY	SIGNATURE	PRINTED NAME	DATE	TIME
RECEIVED BY	<i>(initials)</i>	Mike Lobato	6/10/13	1800
RELINQUISHED BY	<i>(initials)</i>	Diane F. Shaw	6/11/13	0930
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

SOILS	
WOLF CREEK #12	WOLF CREEK #12
OLD	AMMENDED
BH1/PZ1 2'-4'	BH01/PZ01 2'-4'
BH1/PZ1 4'-6'	BH01/PZ01 4'-6'
BH2/PZ2 0'-2'	BH02/PZ02 0'-2'
BH2/PZ2 6'-8'	BH02/PZ02 6'-8'
BH3 4'-6'	BH03 4'-6'
BH3 10'-12'	BH03 10'-12'
BH4 0'-2'	BH04 0'-2'
BH4 10'-12'	BH04 10'-12'
BH5 8'-12'	BH05 8'-12'
BH5 10'-12'	BH05 10'-12'
BH6/PZ6 2'-4'	BH06/PZ03 2'-4'
BH6/PZ6 4'-6'	BH06/PZ03 4'-6'
BH7 6'-8'	BH07 6'-8'
BH7 10'-12'	BH07 10'-12'
BH8 8'-10'	BH08 8'-10'
BH8 10'-12'	BH08 10'-12'
BH9 0'-2'	BH09 0'-2'
BH9 10'-12'	BH09 10'-12'
BH10/PZ10 0'-2'	BH10/PZ04 0'-2'
BH10/PZ10 2'-4'	BH10/PZ04 2'-4'
BH11/PZ11 4'-6'	BH11/PZ05 4'-6'
BH11/PZ11 6'-8'	BH11/PZ05 6'-8'
BH12/PZ12 2'-4'	BH12/PZ06 2'-4'
BH12/PZ12 4'-6'	BH12/PZ06 4'-6'
BH13 4'-6"	BH13 4'-6"
BH13 6'-8'	BH13 6'-8'
BH14 0'-2'	BH14 0'-2'
BH14 10'-12'	BH14 10'-12'
BH15 8'-10'	BH15 8'-10'
BH16 8.5-9.5'	BH16 8.5'-9.5'
BH16A 2-3'	BH16A 2'-3'
BH17 8-10'	BH17 8'-10'
BH18 8-10'	BH18 8'-10'
BH20/PZ20 2-4'	BH20/PZ07 2'-4'
BH21/PZ21 6-8'	BH21/PZ08 6'-8'
BH22/PZ22 4-6'	BH22/PZ09 4'-6'
BH22/PZ22 6-8'	BH22/PZ09 6'-8'
BH23 6-8'	BH23 6'-8'
BH23 10-12'	BH23 10'-12'

WATER	
WOLF CREEK #12	WOLF CREEK #12
OLD	AMMENDED
BH1/PZ1	BH01/PZ01
BH2/PZ2	BH02/PZ02
BH6/PZ6	BH06/PZ03
BH10/PZ10	BH10/PZ04
BH11/PZ11	BH11/PZ05
BH12/PZ12	BH12/PZ06
BH20/PZ20	BH20/PZ07
BH21/PZ21	BH21/PZ08
BH22/PZ22	BH22/PZ09

1306367

13061065

W# 13061057

1306369

1306971

13061064

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 11-Jun-13 09:30

Work Order: 1306369

Received by: DS

Checklist completed by Diane Shaw
eSignature

11-Jun-13

Date

Reviewed by: Ann Preston
eSignature

13-Jun-13

Date

Matrices: Water

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):

5.2 c

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

6/11/2013 1:30:11 PM

Yes No No VOA vials submitted

Water - VOA vials have zero headspace?

Yes No N/A

Water - pH acceptable upon receipt?

Yes No N/A

pH adjusted?

pH adjusted by:

-

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

Revision: 1

SRC Page 1 of 1

ORIGIN ID:6JTA (616) 399-6070
ALS LABORATORY GROUP
3352 128TH AVE
HOLLAND, MI 494249263
UNITED STATES US

SHIP DATE: 10JUN13
ACTWT: 38.9 LB
CAD: /POS1400
DIMS: 24x18x14 IN
BILL SENDER

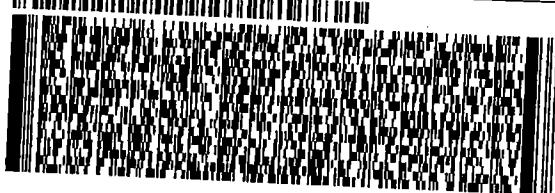
TO SAMPLE RECEIVING
ALS ENVIRONMENTAL
3352 128TH AVE

HOLLAND MI 49424

(616) 738-7318
TRK#:
PO#:

REF#:

DEPT#:



J13111302/201306 672488 10/13/2013 13:45:27 PM 10/13/2013 13:45:27 PM

1 of 2
TRK# 0200 8722 9438 1150
MASTER

TUE - 11 JUN 10:30A
PRIORITY OVERNIGHT

49424
MI-US GRR



ALS Environmental

3352 128th Avenue
Holland, Michigan 49424
tel. +1 616 399 6070
Fax. +1 616 399 6185

CUSTODY SEAL

Seal Broken By:

Date: 6/10/13 Time: 1744
Name: Mike C
Company: HRL Comp. Sol.

Date:

FedEx® US Airbill

Express

1 From
 Date 6/10/13
 Sender's FedEx Account Number
 Sender's Name Mikelos, Jo
 Company HRL Compliance Solutions, Inc.
 Address 2385 Flz Road
 City Grand Junction State CO ZIP 81505

2 Your Internal Billing Reference

3 To
 Recipient's Name Sample Receiving
 Company ALS Env. Laboratory
 Address 5352 128th Ave
We cannot deliver to P.O. boxes or P.O. ZIP codes.
 Dept/Floor/Suite/Room
 Phone _____
 HOLD Weekday
Fax to recipient address
REQUIRED. Not available for FedEx First Overnight.
 01
 HOLD Saturday
Fax to recipient address
REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to specific locations.
 31

Address
Use this line for the HOLD location address or for confirmation of your shipping address.

City Holland State MI ZIP 44424



8722 9438 1150

FedEx Tracking Number

8722 9438 1150

0200

Firm ID No.

FedEx Retrieval Copy

fedex.com 1.800.GoFedEx 1.800.463.3339

- 4a Express Package Service * To most locations. Packages up to 150 lbs.
- 01 FedEx Priority Overnight Next business morning * Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- 05 FedEx Standard Overnight Next business afternoon, Saturday Delivery NOT available.
- 06 FedEx First Overnight Earliest next business morning delivery to select locations.
- 03 FedEx 2Day Second business day * Thursday shipments will be delivered on Friday unless SATURDAY Delivery is selected.
- 20 FedEx Express Saver Third business day* Saturday Delivery NOT available.
- 4b Express Freight Service ** To most locations. Packages over 150 lbs.
- 70 FedEx 1Day Freight Next business day * Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected. FedEx 1Day Freight Booking No.
- 80 FedEx 2Day Freight Second business day * Thursday shipments will be delivered on Friday unless SATURDAY Delivery is selected.
- 83 FedEx 3Day Freight Third business day* Saturday Delivery NOT available.
- 5 Packaging * Declared value limit \$500.
- 06 FedEx Envelope* 02 FedEx Pak* Includes FedEx Small Pak and FedEx Large Pak.
- 03 FedEx Box 04 FedEx Tube 01 Other

6 Special Handling and Delivery Signature Options

03 **SATURDAY DELIVERY**

- 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 ✓ no one is at home at recipient's address, someone at a neighboring residential address may sign for delivery. ✓ Residential delivery only. Fee applies.
- Does this shipment contain dangerous goods? One box must be checked.
- No Yes As per attached Shipper's Declaration Yes Shipper's Declaration not required.
- 04 Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.
- 06 Dry Ice Dry Ice, 9, UN 1845 kg
- Cargo Aircraft Only

7 Payment Bill to:

1 Sender Acct. No. or Section I will be billed Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acc. No.

2 Recipient 3 Third Party 4 Credit Card 5 Cash/Check

Total Packages Total Weight 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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606



12-Jul-2013

Herman Lucero
HRL Compliance Solutions
2385 F 1/2 Road
Grand Junction, CO 81505

Re: **Source Gas Wolf Creek #12 13-113 6/21/13**

Work Order: **1306971**

Dear Herman,

Revision: **1**

ALS Environmental received 7 samples on 25-Jun-2013 10:15 AM for the analyses presented in the following report.

This is a REVISED REPORT. The Case Narrative provides information discussing the reason for issuing a revised report. The total number of pages in this revision is 26.

If you have any questions regarding these test results, 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: MN 532786

Report of Laboratory Analysis

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

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/21/13
Work Order: **1306971**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1306971-01	DG Seep 01	Water		6/21/2013 13:44	6/25/2013 10:15	<input type="checkbox"/>
1306971-02	BH01/PZ01	Water		6/21/2013 14:44	6/25/2013 10:15	<input type="checkbox"/>
1306971-03	BH02/PZ02	Water		6/21/2013 15:02	6/25/2013 10:15	<input type="checkbox"/>
1306971-04	BH06/PZ03	Water		6/21/2013 15:14	6/25/2013 10:15	<input type="checkbox"/>
1306971-05	BH11/PZ05	Water		6/21/2013 15:41	6/25/2013 10:15	<input type="checkbox"/>
1306971-06	BH12/PZ06	Water		6/21/2013 16:00	6/25/2013 10:15	<input type="checkbox"/>
1306971-07	Trip Blank	Water		6/21/2013	6/25/2013 10:15	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/21/13
Work Order: 1306971

Case Narrative

At the request of the client, the sample IDs were changed in this revised report. No results were changed.

Batch R122743 sample 1306971-02, 1306971-03, and 1306971-05 were run at dilution for BTEX due to a foamy matrix.

Batch R122786 sample 1306971-01 was received after the holding time had expired for Hexavalent Chromium. Results should be considered estimated.

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/21/13
WorkOrder: 1306971

**QUALIFIERS,
ACRONYMS, UNITS****Qualifier**

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

Acronym

DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported

µg/L	Micrograms per Liter
mg/L	Milligrams per Liter

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/21/13
Sample ID: DG Seep 01
Collection Date: 6/21/2013 01:44 PM

Work Order: 1306971
Lab ID: 1306971-01
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			
DRO (C10-C28)	ND		0.10	mg/L	1	6/25/2013 05:32 PM
Surr: 4-Terphenyl-d14	62.0		21-90	%REC	1	6/25/2013 05:32 PM
ORGANIC COMPOUNDS BY GC-FID			SW8015M			Analyst: JD
Ethylene glycol	ND		5.0	mg/L	1	6/26/2013 12:19 PM
Methanol	ND		5.0	mg/L	1	6/26/2013 03:52 PM
Propylene glycol	ND		5.0	mg/L	1	6/26/2013 12:19 PM
Triethylene glycol	ND		5.0	mg/L	1	6/26/2013 12:19 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RD
GRO (C6-C10)	ND		0.20	mg/L	1	6/25/2013 05:41 PM
Surr: Toluene-d8	108		70-130	%REC	1	6/25/2013 05:41 PM
MERCURY BY CVAA			SW7470		Prep Date: 6/26/2013	Analyst: LR
Mercury	ND		0.00020	mg/L	1	6/26/2013 04:05 PM
METALS BY ICP-MS			SW6020A		Prep Date: 6/25/2013	Analyst: RH
Arsenic	ND		0.0050	mg/L	1	6/25/2013 09:56 PM
Barium	0.095		0.0050	mg/L	1	6/25/2013 09:56 PM
Cadmium	ND		0.0020	mg/L	1	6/25/2013 09:56 PM
Chromium	ND		0.0050	mg/L	1	6/25/2013 09:56 PM
Copper	ND		0.0050	mg/L	1	6/28/2013 02:56 PM
Lead	ND		0.0050	mg/L	1	6/25/2013 09:56 PM
Nickel	0.0064		0.0050	mg/L	1	6/25/2013 09:56 PM
Selenium	ND		0.0050	mg/L	1	6/25/2013 09:56 PM
Silver	ND		0.0050	mg/L	1	6/28/2013 02:56 PM
Zinc	0.14		0.010	mg/L	1	6/25/2013 09:56 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: RS
Benzene	ND		1.0	µg/L	1	6/25/2013 12:24 PM
Ethylbenzene	ND		1.0	µg/L	1	6/25/2013 12:24 PM
m,p-Xylene	ND		2.0	µg/L	1	6/25/2013 12:24 PM
o-Xylene	ND		1.0	µg/L	1	6/25/2013 12:24 PM
Toluene	ND		1.0	µg/L	1	6/25/2013 12:24 PM
Xylenes, Total	ND		3.0	µg/L	1	6/25/2013 12:24 PM
Surr: 1,2-Dichloroethane-d4	103		70-120	%REC	1	6/25/2013 12:24 PM
Surr: 4-Bromofluorobenzene	81.0		75-120	%REC	1	6/25/2013 12:24 PM
Surr: Dibromofluoromethane	107		85-115	%REC	1	6/25/2013 12:24 PM
Surr: Toluene-d8	92.6		85-120	%REC	1	6/25/2013 12:24 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	0.0026		mg/L		1	6/26/2013 10:25 AM

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

ALS Group USA, Corp**Date:** 12-Jul-13

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/21/13
Sample ID: DG Seep 01
Collection Date: 6/21/2013 01:44 PM

Work Order: 1306971
Lab ID: 1306971-01
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CHROMIUM, HEXAVALENT Chromium, Hexavalent	ND	H	0.0050	mg/L	1	Analyst: JB 6/25/2013 03:00 PM

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

Revision: 1

Analytical Results Page 2 of 8

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/21/13 **Work Order:** 1306971
Sample ID: BH01/PZ01 **Lab ID:** 1306971-02
Collection Date: 6/21/2013 02:44 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ORGANIC COMPOUNDS BY GC-FID						
Ethylene glycol	ND		5.0	mg/L	1	6/26/2013 12:30 PM
Propylene glycol	ND		5.0	mg/L	1	6/26/2013 12:30 PM
Triethylene glycol	8,400		100	mg/L	20	6/26/2013 02:46 PM
VOLATILE ORGANIC COMPOUNDS						
Benzene	25		5.0	µg/L	5	6/25/2013 12:46 PM
Ethylbenzene	23		5.0	µg/L	5	6/25/2013 12:46 PM
m,p-Xylene	58		10	µg/L	5	6/25/2013 12:46 PM
o-Xylene	33		5.0	µg/L	5	6/25/2013 12:46 PM
Toluene	48		5.0	µg/L	5	6/25/2013 12:46 PM
Xylenes, Total	91		15	µg/L	5	6/25/2013 12:46 PM
Surr: 1,2-Dichloroethane-d4	99.3		70-120	%REC	5	6/25/2013 12:46 PM
Surr: 4-Bromofluorobenzene	91.2		75-120	%REC	5	6/25/2013 12:46 PM
Surr: Dibromofluoromethane	98.3		85-115	%REC	5	6/25/2013 12:46 PM
Surr: Toluene-d8	90.4		85-120	%REC	5	6/25/2013 12:46 PM

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

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/21/13 **Work Order:** 1306971
Sample ID: BH02/PZ02 **Lab ID:** 1306971-03
Collection Date: 6/21/2013 03:02 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ORGANIC COMPOUNDS BY GC-FID						
Ethylene glycol	ND		5.0	mg/L	1	6/26/2013 12:41 PM
Propylene glycol	ND		5.0	mg/L	1	6/26/2013 12:41 PM
Triethylene glycol	5,800		50	mg/L	10	6/26/2013 02:57 PM
VOLATILE ORGANIC COMPOUNDS						
			SW8015M			Analyst: JD
Benzene	ND		25	µg/L	25	6/25/2013 01:09 PM
Ethylbenzene	ND		25	µg/L	25	6/25/2013 01:09 PM
m,p-Xylene	ND		50	µg/L	25	6/25/2013 01:09 PM
o-Xylene	ND		25	µg/L	25	6/25/2013 01:09 PM
Toluene	ND		25	µg/L	25	6/25/2013 01:09 PM
Xylenes, Total	ND		75	µg/L	25	6/25/2013 01:09 PM
<i>Surr: 1,2-Dichloroethane-d4</i>	93.6		70-120	%REC	25	6/25/2013 01:09 PM
<i>Surr: 4-Bromofluorobenzene</i>	84.6		75-120	%REC	25	6/25/2013 01:09 PM
<i>Surr: Dibromofluoromethane</i>	97.9		85-115	%REC	25	6/25/2013 01:09 PM
<i>Surr: Toluene-d8</i>	88.0		85-120	%REC	25	6/25/2013 01:09 PM
			SW8260			Analyst: RS

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

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/21/13 **Work Order:** 1306971
Sample ID: BH06/PZ03 **Lab ID:** 1306971-04
Collection Date: 6/21/2013 03:14 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ORGANIC COMPOUNDS BY GC-FID						
Ethylene glycol	ND		5.0	mg/L	1	6/26/2013 02:35 PM
Propylene glycol	ND		5.0	mg/L	1	6/26/2013 02:35 PM
Triethylene glycol	ND		5.0	mg/L	1	6/26/2013 02:35 PM
VOLATILE ORGANIC COMPOUNDS						
Benzene	9.9		1.0	µg/L	1	6/25/2013 02:17 PM
Ethylbenzene	ND		1.0	µg/L	1	6/25/2013 02:17 PM
m,p-Xylene	4.3		2.0	µg/L	1	6/25/2013 02:17 PM
o-Xylene	1.3		1.0	µg/L	1	6/25/2013 02:17 PM
Toluene	15		1.0	µg/L	1	6/25/2013 02:17 PM
Xylenes, Total	5.6		3.0	µg/L	1	6/25/2013 02:17 PM
Surr: 1,2-Dichloroethane-d4	99.5		70-120	%REC	1	6/25/2013 02:17 PM
Surr: 4-Bromofluorobenzene	87.4		75-120	%REC	1	6/25/2013 02:17 PM
Surr: Dibromofluoromethane	96.2		85-115	%REC	1	6/25/2013 02:17 PM
Surr: Toluene-d8	93.2		85-120	%REC	1	6/25/2013 02:17 PM

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

ALS Group USA, Corp**Date:** 12-Jul-13

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/21/13 **Work Order:** 1306971
Sample ID: BH11/PZ05 **Lab ID:** 1306971-05
Collection Date: 6/21/2013 03:41 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ORGANIC COMPOUNDS BY GC-FID						
Ethylene glycol	ND		5.0	mg/L	1	6/26/2013 01:04 PM
Propylene glycol	ND		5.0	mg/L	1	6/26/2013 01:04 PM
Triethylene glycol	5,900		50	mg/L	10	6/26/2013 03:08 PM
VOLATILE ORGANIC COMPOUNDS						
Benzene	12		12	µg/L	20	6/25/2013 01:32 PM
Ethylbenzene	ND		20	µg/L	20	6/25/2013 01:32 PM
m,p-Xylene	ND		40	µg/L	20	6/25/2013 01:32 PM
o-Xylene	ND		20	µg/L	20	6/25/2013 01:32 PM
Toluene	12		12	µg/L	20	6/25/2013 01:32 PM
Xylenes, Total	ND		60	µg/L	20	6/25/2013 01:32 PM
<i>Surr: 1,2-Dichloroethane-d4</i>	101		70-120	%REC	20	6/25/2013 01:32 PM
<i>Surr: 4-Bromofluorobenzene</i>	86.8		75-120	%REC	20	6/25/2013 01:32 PM
<i>Surr: Dibromofluoromethane</i>	102		85-115	%REC	20	6/25/2013 01:32 PM
<i>Surr: Toluene-d8</i>	92.6		85-120	%REC	20	6/25/2013 01:32 PM

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

Revision: 1

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/21/13 **Work Order:** 1306971
Sample ID: BH12/PZ06 **Lab ID:** 1306971-06
Collection Date: 6/21/2013 04:00 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ORGANIC COMPOUNDS BY GC-FID						
Ethylene glycol	ND		5.0	mg/L	1	6/26/2013 01:15 PM
Propylene glycol	ND		5.0	mg/L	1	6/26/2013 01:15 PM
Triethylene glycol	460		5.0	mg/L	1	6/26/2013 01:15 PM
VOLATILE ORGANIC COMPOUNDS						
Benzene	3.5		1.0	µg/L	1	6/25/2013 01:54 PM
Ethylbenzene	ND		1.0	µg/L	1	6/25/2013 01:54 PM
m,p-Xylene	ND		2.0	µg/L	1	6/25/2013 01:54 PM
o-Xylene	ND		1.0	µg/L	1	6/25/2013 01:54 PM
Toluene	3.0		1.0	µg/L	1	6/25/2013 01:54 PM
Xylenes, Total	ND		3.0	µg/L	1	6/25/2013 01:54 PM
<i>Surr: 1,2-Dichloroethane-d4</i>	91.2		70-120	%REC	1	6/25/2013 01:54 PM
<i>Surr: 4-Bromofluorobenzene</i>	85.6		75-120	%REC	1	6/25/2013 01:54 PM
<i>Surr: Dibromofluoromethane</i>	90.0		85-115	%REC	1	6/25/2013 01:54 PM
<i>Surr: Toluene-d8</i>	94.4		85-120	%REC	1	6/25/2013 01:54 PM

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

Client: HRL Compliance Solutions
Project: Source Gas Wolf Creek #12 13-113 6/21/13 **Work Order:** 1306971
Sample ID: Trip Blank **Lab ID:** 1306971-07
Collection Date: 6/21/2013 **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS						
Benzene	ND		1.0	µg/L	1	6/25/2013 12:01 PM
Ethylbenzene	ND		1.0	µg/L	1	6/25/2013 12:01 PM
m,p-Xylene	ND		2.0	µg/L	1	6/25/2013 12:01 PM
o-Xylene	ND		1.0	µg/L	1	6/25/2013 12:01 PM
Toluene	ND		1.0	µg/L	1	6/25/2013 12:01 PM
Xylenes, Total	ND		3.0	µg/L	1	6/25/2013 12:01 PM
Surr: 1,2-Dichloroethane-d4	107		70-120	%REC	1	6/25/2013 12:01 PM
Surr: 4-Bromofluorobenzene	87.1		75-120	%REC	1	6/25/2013 12:01 PM
Surr: Dibromofluoromethane	105		85-115	%REC	1	6/25/2013 12:01 PM
Surr: Toluene-d8	94.0		85-120	%REC	1	6/25/2013 12:01 PM
Analyst: RS						

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

Revision: 1

ALS Group USA, Corp

Date: 12-Jul-13

Client: HRL Compliance Solutions

QC BATCH REPORT

Work Order: 1306971

Project: Source Gas Wolf Creek #12 13-113 6/21/13

Batch ID: 49300

Instrument ID GC8

Method: SW8015M

MBLK		Sample ID: DBLKW1-49300-49300		Units: mg/L		Analysis Date: 6/25/2013 03:32 PM		
Client ID:		Run ID: GC8_130625A		SeqNo: 2361285		Prep Date: 6/25/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
DRO (C10-C28)	ND	0.10						
Surr: 4-Terphenyl-d14	0.0653	0	0.1143	0	57.1	21-90	0	

LCS		Sample ID: DLCSW1-49300-49300		Units: mg/L		Analysis Date: 6/25/2013 04:02 PM		
Client ID:		Run ID: GC8_130625A		SeqNo: 2361286		Prep Date: 6/25/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
DRO (C10-C28)	5.89	0.10	11.43	0	51.5	44-116	0	
Surr: 4-Terphenyl-d14	0.07349	0	0.1143	0	64.3	21-90	0	

MS		Sample ID: 1306971-01A MS		Units: mg/L		Analysis Date: 6/25/2013 04:32 PM		
Client ID: DG Seep 01		Run ID: GC8_130625A		SeqNo: 2361287		Prep Date: 6/25/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
DRO (C10-C28)	21.71	0.35	40	0	54.3	44-116	0	
Surr: 4-Terphenyl-d14	0.2678	0	0.4	0	66.9	21-90	0	

MSD		Sample ID: 1306971-01A MSD		Units: mg/L		Analysis Date: 6/25/2013 05:02 PM		
Client ID: DG Seep 01		Run ID: GC8_130625A		SeqNo: 2361288		Prep Date: 6/25/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
DRO (C10-C28)	22.11	0.35	40	0	55.3	44-116	21.71	1.81 30
Surr: 4-Terphenyl-d14	0.2632	0	0.4	0	65.8	21-90	0.2678	1.72 30

The following samples were analyzed in this batch: 1306971-01A

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

Revision: 1

Client: HRL Compliance Solutions
Work Order: 1306971
Project: Source Gas Wolf Creek #12 13-113 6/21/13

QC BATCH REPORT

Batch ID: **R122851** Instrument ID **GC11** Method: **SW8015M**

MBLK			Sample ID: MB-R122851-R122851		Units: mg/L		Analysis Date: 6/26/2013 12:08 PM			
Client ID:		Run ID: GC11_130626A		SeqNo: 2362177		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylene glycol	ND	5.0								
Propylene glycol	ND	10								
Triethylene glycol	ND	5.0								

LCS			Sample ID: LCS-R122851-R122851		Units: mg/L		Analysis Date: 6/26/2013 01:50 PM			
Client ID:		Run ID: GC11_130626A		SeqNo: 2362178		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylene glycol	537.3	5.0	500	0	107	50-150		0		
Propylene glycol	484.2	10	500	0	96.8	50-150		0		
Triethylene glycol	503.6	5.0	500	0	101	50-150		0		

MS			Sample ID: 1306971-06B MS		Units: mg/L		Analysis Date: 6/26/2013 01:26 PM			
Client ID: BH12/PZ06		Run ID: GC11_130626A		SeqNo: 2362185		Prep Date:		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylene glycol	1152	10	1000	0	115	50-150		0		
Propylene glycol	947.9	20	1000	0	94.8	50-150		0		
Triethylene glycol	1455	10	1000	463.6	99.2	50-150		0		

MSD			Sample ID: 1306971-06B MSD		Units: mg/L		Analysis Date: 6/26/2013 01:37 PM			
Client ID: BH12/PZ06		Run ID: GC11_130626A		SeqNo: 2362186		Prep Date:		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylene glycol	1084	10	1000	0	108	50-150	1152	6	30	
Propylene glycol	906.5	20	1000	0	90.6	50-150	947.9	4.46	30	
Triethylene glycol	1438	10	1000	463.6	97.5	50-150	1455	1.17	30	

The following samples were analyzed in this batch:

1306971-01A	1306971-02B	1306971-03B
1306971-04B	1306971-05B	1306971-06B

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

Revision: 1

Client: HRL Compliance Solutions
Work Order: 1306971
Project: Source Gas Wolf Creek #12 13-113 6/21/13

QC BATCH REPORT

Batch ID: **R122852** Instrument ID **GC5** Method: **SW8015M**

MBLK Sample ID: MB-R122852-R122852				Units: mg/L			Analysis Date: 6/26/2013 02:55 PM			
Client ID:		Run ID: GC5_130626A		SeqNo: 2362191		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methanol	ND		5.0							
LCS Sample ID: LCS-R122852-R122852				Units: mg/L			Analysis Date: 6/26/2013 03:24 PM			
Client ID:		Run ID: GC5_130626A		SeqNo: 2362192		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methanol	483.6	5.0	500	0	96.7	50-150		0		
MS Sample ID: 1306971-01B MS				Units: mg/L			Analysis Date: 6/26/2013 04:21 PM			
Client ID: DG Seep 01		Run ID: GC5_130626A		SeqNo: 2362194		Prep Date:		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methanol	1007	10	1000	0	101	50-150		0		
MSD Sample ID: 1306971-01B MSD				Units: mg/L			Analysis Date: 6/26/2013 04:50 PM			
Client ID: DG Seep 01		Run ID: GC5_130626A		SeqNo: 2362195		Prep Date:		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methanol	1019	10	1000	0	102	50-150	1007	1.14	30	

The following samples were analyzed in this batch:

1306971-01B

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

Revision: 1

QC Page: 3 of 9

Client: HRL Compliance Solutions
Work Order: 1306971
Project: Source Gas Wolf Creek #12 13-113 6/21/13

QC BATCH REPORT

Batch ID: **R122806** Instrument ID **GC10** Method: **SW8015**

MBLK Sample ID: GBLK1-130625-R122806				Units: µg/L			Analysis Date: 6/25/2013 11:00 AM			
Client ID:		Run ID: GC10_130625A		SeqNo: 2361026		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	112	0	100	0	112	70-130		0		
LCS Sample ID: GLCS1-130625-R122806				Units: µg/L			Analysis Date: 6/25/2013 10:36 AM			
Client ID:		Run ID: GC10_130625A		SeqNo: 2361025		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)	8289	200	10000	0	82.9	70-130		0		
Surr: Toluene-d8	115.2	0	100	0	115	70-130		0		
MS Sample ID: 1306957-03A MS				Units: µg/Kg			Analysis Date: 6/25/2013 07:48 PM			
Client ID:		Run ID: GC10_130625A		SeqNo: 2361044		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)	412000	2,500	500000	0	82.4	70-130		0		
Surr: Toluene-d8	5280	0	5000	0	106	50-150		0		
MSD Sample ID: 1306957-03A MSD				Units: µg/Kg			Analysis Date: 6/25/2013 08:13 PM			
Client ID:		Run ID: GC10_130625A		SeqNo: 2361045		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)	396400	2,500	500000	0	79.3	70-130	412000	3.86	30	
Surr: Toluene-d8	5181	0	5000	0	104	50-150	5280	1.89	30	

The following samples were analyzed in this batch:

1306971-01C

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

Revision: 1

QC Page: 4 of 9

Client: HRL Compliance Solutions
Work Order: 1306971
Project: Source Gas Wolf Creek #12 13-113 6/21/13

QC BATCH REPORT

Batch ID: **49327** Instrument ID **HG1** Method: **SW7470**

MBLK Sample ID: MBLK-49327-49327				Units: mg/L		Analysis Date: 6/26/2013 03:57 PM				
Client ID:		Run ID: HG1_130626A		SeqNo: 2362138		Prep Date: 6/26/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury		ND	0.00020							
LCS Sample ID: LCS-49327-49327				Units: mg/L		Analysis Date: 6/26/2013 03:59 PM				
Client ID:		Run ID: HG1_130626A		SeqNo: 2362139		Prep Date: 6/26/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury		0.001938	0.00020	0.002	0	96.9	80-120	0		
MS Sample ID: 1306978-18AMS				Units: mg/L		Analysis Date: 6/26/2013 04:09 PM				
Client ID:		Run ID: HG1_130626A		SeqNo: 2362144		Prep Date: 6/26/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury		0.001809	0.00020	0.002	-0.00008	94.4	75-125	0		
MSD Sample ID: 1306978-18AMSD				Units: mg/L		Analysis Date: 6/26/2013 04:11 PM				
Client ID:		Run ID: HG1_130626A		SeqNo: 2362145		Prep Date: 6/26/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury		0.001774	0.00020	0.002	-0.00008	92.7	75-125	0.001809	1.95	20

The following samples were analyzed in this batch:

1306971-01D

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

Revision: 1

QC Page: 5 of 9

Client: HRL Compliance Solutions
Work Order: 1306971
Project: Source Gas Wolf Creek #12 13-113 6/21/13

QC BATCH REPORT

Batch ID: 49295 Instrument ID ICPMS2 Method: SW6020A

Sample ID: MBLK-49295-49295				Units: mg/L		Analysis Date: 6/25/2013 02:21 PM				
Client ID:		Run ID: ICPMS2_130625A		SeqNo: 2360888		Prep Date: 6/25/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead		ND	0.0050							
Sample ID: LCS-49295-49295				Units: mg/L		Analysis Date: 6/25/2013 02:26 PM				
Client ID:		Run ID: ICPMS2_130625A		SeqNo: 2360889		Prep Date: 6/25/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead		0.09873	0.0050	0.1	0	98.7	80-120	0		
Sample ID: 1306879-03BMS				Units: mg/L		Analysis Date: 6/25/2013 02:37 PM				
Client ID:		Run ID: ICPMS2_130625A		SeqNo: 2360891		Prep Date: 6/25/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead		0.1032	0.0050	0.1	0.001885	101	75-125	0		
Sample ID: 1306879-03BMSD				Units: mg/L		Analysis Date: 6/25/2013 02:42 PM				
Client ID:		Run ID: ICPMS2_130625A		SeqNo: 2360892		Prep Date: 6/25/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead		0.1018	0.0050	0.1	0.001885	99.9	75-125	0.1032	1.37	20

The following samples were analyzed in this batch:

1306971-01D

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

Revision: 1

QC Page: 6 of 9

Client: HRL Compliance Solutions
Work Order: 1306971
Project: Source Gas Wolf Creek #12 13-113 6/21/13

QC BATCH REPORT

Batch ID: **R122743** Instrument ID **VMS9** Method: **SW8260**

Mblk				Sample ID: VBLKW1-130625-R122743		Units: µg/L		Analysis Date: 6/25/2013 11:38 AM			
Client ID:		Run ID: VMS9_130625A		SeqNo: 2361047		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	3.0									
<i>Surr: 1,2-Dichloroethane-d4</i>	20.52	0	20	0	103	70-120	0				
<i>Surr: 4-Bromofluorobenzene</i>	16.68	0	20	0	83.4	75-120	0				
<i>Surr: Dibromofluoromethane</i>	20.57	0	20	0	103	85-115	0				
<i>Surr: Toluene-d8</i>	18.82	0	20	0	94.1	85-120	0				

LCS				Sample ID: VLCSW1-130625-R122743		Units: µg/L		Analysis Date: 6/25/2013 10:53 AM			
Client ID:		Run ID: VMS9_130625A		SeqNo: 2361046		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	18.21	1.0	20	0	91	80-120	0				
Ethylbenzene	18.98	1.0	20	0	94.9	75-125	0				
m,p-Xylene	38.56	2.0	40	0	96.4	75-130	0				
o-Xylene	18.77	1.0	20	0	93.8	80-120	0				
Toluene	18.92	1.0	20	0	94.6	75-120	0				
Xylenes, Total	57.33	3.0	60	0	95.6	75-130	0				
<i>Surr: 1,2-Dichloroethane-d4</i>	19.68	0	20	0	98.4	70-120	0				
<i>Surr: 4-Bromofluorobenzene</i>	18.72	0	20	0	93.6	75-120	0				
<i>Surr: Dibromofluoromethane</i>	20.89	0	20	0	104	85-115	0				
<i>Surr: Toluene-d8</i>	20.26	0	20	0	101	85-120	0				

MS				Sample ID: 1306902-15A MS		Units: µg/L		Analysis Date: 6/25/2013 08:21 PM			
Client ID:		Run ID: VMS9_130625A		SeqNo: 2361065		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	18.06	1.0	20	0	90.3	80-120	0				
Ethylbenzene	18.35	1.0	20	0	91.8	75-125	0				
m,p-Xylene	37.8	2.0	40	0	94.5	75-130	0				
o-Xylene	17.95	1.0	20	0	89.8	80-120	0				
Toluene	18.04	1.0	20	0	90.2	75-120	0				
Xylenes, Total	55.75	3.0	60	0	92.9	75-130	0				
<i>Surr: 1,2-Dichloroethane-d4</i>	18.69	0	20	0	93.4	70-120	0				
<i>Surr: 4-Bromofluorobenzene</i>	18.37	0	20	0	91.8	75-120	0				
<i>Surr: Dibromofluoromethane</i>	20.3	0	20	0	102	85-115	0				
<i>Surr: Toluene-d8</i>	19.4	0	20	0	97	85-120	0				

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

Revision: 1

Client: HRL Compliance Solutions
Work Order: 1306971
Project: Source Gas Wolf Creek #12 13-113 6/21/13

QC BATCH REPORT

Batch ID: **R122743** Instrument ID **VMS9** Method: **SW8260**

MSD Sample ID: 1306902-15A MSD				Units: µg/L			Analysis Date: 6/25/2013 08:44 PM			
Client ID:		Run ID: VMS9_130625A		SeqNo: 2361066		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	17.89	1.0	20	0	89.4	80-120	18.06	0.946	30	
Ethylbenzene	17.94	1.0	20	0	89.7	75-125	18.35	2.26	30	
m,p-Xylene	36.89	2.0	40	0	92.2	75-130	37.8	2.44	30	
o-Xylene	17.78	1.0	20	0	88.9	80-120	17.95	0.952	30	
Toluene	17.65	1.0	20	0	88.2	75-120	18.04	2.19	30	
Xylenes, Total	54.67	3.0	60	0	91.1	75-130	55.75	1.96	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	19	0	20	0	95	70-120	18.69	1.64	30	
<i>Surr: 4-Bromofluorobenzene</i>	18.57	0	20	0	92.8	75-120	18.37	1.08	30	
<i>Surr: Dibromofluoromethane</i>	20.3	0	20	0	102	85-115	20.3	0	30	
<i>Surr: Toluene-d8</i>	19.51	0	20	0	97.6	85-120	19.4	0.565	30	

The following samples were analyzed in this batch:

1306971-01C	1306971-02A	1306971-03A
1306971-04A	1306971-05A	1306971-06A
1306971-07A		

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

Revision: 1

QC Page: 8 of 9

Client: HRL Compliance Solutions
Work Order: 1306971
Project: Source Gas Wolf Creek #12 13-113 6/21/13

QC BATCH REPORT

Batch ID: **R122786** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK Sample ID: WBLKW1-130625-R122786				Units: mg/L			Analysis Date: 6/25/2013 03:00 PM			
Client ID:		Run ID: WETCHEM_130625N		SeqNo: 2360813		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	ND	0.0050								
LCS Sample ID: WLCSW1-130625-R122786				Units: mg/L			Analysis Date: 6/25/2013 03:00 PM			
Client ID:		Run ID: WETCHEM_130625N		SeqNo: 2360814		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.1971	0.0050	0.2	0	98.6	80-120	0			
MS Sample ID: 1306971-01E MS				Units: mg/L			Analysis Date: 6/25/2013 03:00 PM			
Client ID: DG Seep 01		Run ID: WETCHEM_130625N		SeqNo: 2360816		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.1884	0.0050	0.2	0	94.2	75-125	0			H
MSD Sample ID: 1306971-01E MSD				Units: mg/L			Analysis Date: 6/25/2013 03:00 PM			
Client ID: DG Seep 01		Run ID: WETCHEM_130625N		SeqNo: 2360817		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.1884	0.0050	0.2	0	94.2	75-125	0.1884	0	30	H

The following samples were analyzed in this batch:

1306971-01E

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

Revision: 1

QC Page: 9 of 9



ALS Laboratory Group

3352 128th Avenue Holland MI, 49424

PH: (616) 399-6070

Chain-of-Custody

Form 202r8

WORKORDER #	1306971						
PAGE	1 of 1						
DISPOSAL	By Lab or Return to Client						
PROJECT NAME	SourceGas Wolf Creek #12	SAMPLER	Mike Lobato	DATE	6/24/13		
PROJECT No.	#13-113	SITE ID	Wolf Creek #12	TURNAROUND	24 hr		
		EDD FORMAT					
		PURCHASE ORDER					
COMPANY NAME	HRL Compliance Solutions, Inc	BILL TO COMPANY	HRL Compliance Solutions, Inc				
SEND REPORT TO	Herman Lucero	INVOICE ATTN TO	Herman Lucero				
ADDRESS	2385 F½ Rd.	ADDRESS	2385 F½ Rd.				
CITY / STATE / ZIP	Grand Junction CO 81505	CITY / STATE / ZIP	Grand Junction, CO 81505				
PHONE	970-243-3271	PHONE	970-243-3271				
FAX	970-243-3280	FAX	970-243-3280				
E-MAIL	hlucero@hrlcomp.com, mlobato@hrlcomp.com	E-MAIL	hlucero@hrlcomp.com				

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC
1	DG Seep #1	W	6/21/13	1344	11	1,8	X X X X X X X
2	BH01/PZ01	1		1444	8	1,8	X X
3	BH02/PZ02			1502	8	1,8	X X
4	BH06/PZ-6 ^(a)	1		1514	8	1,8	X X
5	BH11/PZ +T05			1541	8	1,8	X X
6	BH12/PZ +T06	1		1600	8	1,8	X X
7	Trip Blank						

JW 7/1/13

*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:

5.0°C

QC PACKAGE (check below)	
<input checked="" type="checkbox"/>	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	SIGNATURE	PRINTED NAME	DATE	TIME
<i>Mike Lobato</i>		Mike Lobato	6/24/13	1700
<i>Diane F. Shaw</i>		Diane F. Shaw	6/25/13	1015

SOILS	
WOLF CREEK #12	WOLF CREEK #12
OLD	AMMENDED
BH1/PZ1 2'-4'	BH01/PZ01 2'-4'
BH1/PZ1 4'-6'	BH01/PZ01 4'-6'
BH2/PZ2 0'-2'	BH02/PZ02 0'-2'
BH2/PZ2 6'-8'	BH02/PZ02 6'-8'
BH3 4'-6'	BH03 4'-6'
BH3 10'-12'	BH03 10'-12'
BH4 0'-2'	BH04 0'-2'
BH4 10'-12'	BH04 10'-12'
BH5 8'-12'	BH05 8'-12'
BH5 10'-12'	BH05 10'-12'
BH6/PZ6 2'-4'	BH06/PZ03 2'-4'
BH6/PZ6 4'-6'	BH06/PZ03 4'-6'
BH7 6'-8'	BH07 6'-8'
BH7 10'-12'	BH07 10'-12'
BH8 8'-10'	BH08 8'-10'
BH8 10'-12'	BH08 10'-12'
BH9 0'-2'	BH09 0'-2'
BH9 10'-12'	BH09 10'-12'
BH10/PZ10 0'-2'	BH10/PZ04 0'-2'
BH10/PZ10 2'-4'	BH10/PZ04 2'-4'
BH11/PZ11 4'-6'	BH11/PZ05 4'-6'
BH11/PZ11 6'-8'	BH11/PZ05 6'-8'
BH12/PZ12 2'-4'	BH12/PZ06 2'-4'
BH12/PZ12 4'-6'	BH12/PZ06 4'-6'
BH13 4'-6"	BH13 4'-6"
BH13 6'-8'	BH13 6'-8'
BH14 0'-2'	BH14 0'-2'
BH14 10'-12'	BH14 10'-12'
BH15 8-10'	BH15 8'-10'
BH16 8.5-9.5'	BH16 8.5'-9.5'
BH16A 2-3'	BH16A 2'-3'
BH17 8-10'	BH17 8'-10'
BH18 8-10'	BH18 8'-10'
BH20/PZ20 2-4'	BH20/PZ07 2'-4'
BH21/PZ21 6-8'	BH21/PZ08 6'-8'
BH22/PZ22 4-6'	BH22/PZ09 4'-6'
BH22/PZ22 6-8'	BH22/PZ09 6'-8'
BH23 6-8'	BH23 6'-8'
BH23 10-12'	BH23 10'-12'

WATER	
WOLF CREEK #12	WOLF CREEK #12
OLD	AMMENDED
BH1/PZ1	BH01/PZ01
BH2/PZ2	BH02/PZ02
BH6/PZ6	BH06/PZ03
BH10/PZ10	BH10/PZ04
BH11/PZ11	BH11/PZ05
BH12/PZ12	BH12/PZ06
BH20/PZ20	BH20/PZ07
BH21/PZ21	BH21/PZ08
BH22/PZ22	BH22/PZ09

1306367

13061065

W0# 13061057

1306369
1306971
13061064

SOILS	
WOLF CREEK #5	WOLF CREEK #5
OLD	AMMENDED
Piez01/SS01	Piez01/SS01
Piez01/SS01 Duplicate	Piez01/SS01 Duplicate
SS02	SS02
Piez03/SS03	Piez02/SS03
Piez04/SS04	SS04
Piez05/SS05	Piez03/SS05
Piez06/SS06	SS06

}

1307003 ✓

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 25-Jun-13 10:15

Work Order: 1306971

Received by: DS

Checklist completed by Diane Shaw

eSignature

25-Jun-13

Date

Reviewed by: Bill Carey

eSignature

25-Jun-13

Date

Matrices: Water

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):

5.0 c

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

6/25/2013 11:31:40 AM

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: Hexachrome received past hold time.

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

<u></u>

CorrectiveAction:

<u></u>

Revision: 1

CUSTODY SEAL



ENVIRONMENTAL SAMPLING SUPPLY

9601 San Leandro St. Oakland, CA 800-233-8425

Date: 10/14/13

Signature: [Signature]

FedEx® US Airbill
Express

FedEx
Tracking
Number

8722 9438 1220

0200

Form
ID lbs.

FedEx Retrieval Copy

1 Recipient

Date 10/14/13 Sender's FedEx Account Number

Sender's Name AIS Laboratory Phone (415) 567-1234

Company FBI Laboratory Services

Address 2333 13th St. Bldg. B

City Grand Junction State CO ZIP 81505 Dept/Floor/Suite/Rm

2 Your Internal Billing Reference

3 To

Recipient's Name Sample Receiving Phone (616) 399-6070

Company AIS Laboratory

Address 3353 13th Ave.

We cannot deliver to P.O. boxes or ZIP codes

Dept/Floor/Suite/Rm

HOLD Weekday
FedEx location address
REQUIRED. NOT available for FedEx First Overnight.

HOLD Saturday
FedEx location address
REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Address Use this line for the HOLD location address or for continuation of your shipping address.

City Holland

State MI

ZIP 49424



8722 9438 1220

4a Express Package Service

To most locations. Packages up to 150 lbs.
 FedEx Priority Overnight Not business day** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected. FedEx Standard Overnight Not business afternoon* Saturday Delivery NOT available. FedEx First Overnight Early next business morning delivery to select locations.

FedEx 2Day Second business day* Thursday. Shipment will be delivered on Monday unless SATURDAY Delivery is selected. FedEx Express Saver Third business day* Saturday Delivery NOT available.

4b Express Freight Service To most locations. Packages over 150 lbs.

FedEx 1Day Freight Not business day** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected. FedEx 1Day Freight Declining

FedEx 2Day Freight Second business day* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected. FedEx 3Day Freight Third business day* Saturday Delivery NOT available.

5 Packaging Declared value limit \$500.
 FedEx Envelope FedEx Pak* Includes FedEx Small Pak and FedEx Large Pak. FedEx Box FedEx Tube Other

6 Special Handling and Delivery Signature Options

SATURDAY DELIVERY

No Signature Required Packages may be left without obtaining a signature for delivery. Direct Signature Shipper's signature on a cashless slip or signature on a neighboring address may be used for delivery. For residential deliveries only. Fee applies. Indirect Signature Indicates one or more recipient's addresses. A signature at a neighboring address may be used for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?

One box must be checked.
 Yes As per attached Shipper's Declaration. Yes Shipper's Declaration not required. Dry Ice Dry ice, 3 lb UN 1855 Cargo Aircraft Only For air freight only.

7 Payment Bill to:

1 Sender Acct. No. 2 Recipient Acct. No. 3 Third Party 4 Credit Card 5 Cash/Check

Total Packages

Total Weight

lbs.

Your liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Terms for details.

606

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