



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Kate Ramsay
HRL Compliance Solutions- CO
744 Horizon Ct., Suite 140
Grand Junction, CO 81506

Report Summary

Wednesday July 20, 2011

Report Number: L526298

Samples Received: 07/15/11

Client Project:

Description:

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Jayred Willis , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

Kate Ramsay
HRL Compliance Solutions- CO
744 Horizon Ct., Suite 140
Grand Junction, CO 81506

July 20, 2011

Date Received : July 15, 2011
Description :
Sample ID : 7314-SPOILS-071211 8 FT
Collected By : Kate Ramsay
Collection Date : 07/12/11 12:45

ESC Sample # : L526298-01

Site ID : SDC 7314

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.026	0.0025	mg/kg	8021/8015	07/17/11	5
Toluene	0.027	0.025	mg/kg	8021/8015	07/17/11	5
Ethylbenzene	0.021	0.0025	mg/kg	8021/8015	07/17/11	5
Total Xylene	0.054	0.0075	mg/kg	8021/8015	07/17/11	5
TPH (GC/FID) Low Fraction	12.	0.50	mg/kg	GRO	07/17/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	91.6		% Rec.	8021/8015	07/17/11	5
a,a,a-Trifluorotoluene(PID)	99.0		% Rec.	8021/8015	07/17/11	5
TPH (GC/FID) High Fraction	100	4.0	mg/kg	3546/DRO	07/20/11	1
Surrogate recovery(%)						
o-Terphenyl	58.8		% Rec.	3546/DRO	07/20/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 07/20/11 15:01 Printed: 07/20/11 15:01



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REPORT OF ANALYSIS

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Grand Junction, CO 81506

July 20, 2011

Date Received : July 15, 2011
Description :
Sample ID : 7314-BG1-071211 6 IN
Collected By : Kate Ramsay
Collection Date : 07/12/11 13:00

ESC Sample # : L526298-02

Site ID : SDC 7314

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	3.7	1.0	mg/kg	6010B	07/18/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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July 20, 2011

Date Received : July 15, 2011
Description :
Sample ID : 7314-BG2-071211 6 IN
Collected By : Kate Ramsay
Collection Date : 07/12/11 13:10

ESC Sample # : L526298-03

Site ID : SDC 7314

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	4.2	1.0	mg/kg	6010B	07/18/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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July 20, 2011

Date Received : July 15, 2011
Description :
Sample ID : 7314-BG3-071211 6 IN
Collected By : Kate Ramsay
Collection Date : 07/12/11 13:20

ESC Sample # : L526298-04

Site ID : SDC 7314

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	5.6	1.0	mg/kg	6010B	07/18/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 07/20/11 15:01 Printed: 07/20/11 15:01



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July 20, 2011

Date Received : July 15, 2011
Description :
Sample ID : 7314-BG4-071211 6 IN
Collected By : Kate Ramsay
Collection Date : 07/12/11 13:30

ESC Sample # : L526298-05

Site ID : SDC 7314

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	4.7	1.0	mg/kg	6010B	07/18/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 07/20/11 15:01 Printed: 07/20/11 15:01



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July 20, 2011

Date Received : July 15, 2011
Description :
Sample ID : 7314-BG5-071211 6 IN
Collected By : Kate Ramsay
Collection Date : 07/12/11 13:40

ESC Sample # : L526298-06

Site ID : SDC 7314

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	4.7	1.0	mg/kg	6010B	07/17/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 07/20/11 15:01 Printed: 07/20/11 15:01

Summary of Remarks For Samples Printed
07/20/11 at 15:01:55

TSR Signing Reports: 358
R5 - Desired TAT

Accounting - pending credit application. TSR - pending info release authorization.

Sample: L526298-01 Account: HRLCSCO Received: 07/15/11 09:00 Due Date: 07/22/11 00:00 RPT Date: 07/20/11 15:01
Refer to 07-0057.
Sample: L526298-02 Account: HRLCSCO Received: 07/15/11 09:00 Due Date: 07/22/11 00:00 RPT Date: 07/20/11 15:01
Refer to 07-0057.
Sample: L526298-03 Account: HRLCSCO Received: 07/15/11 09:00 Due Date: 07/22/11 00:00 RPT Date: 07/20/11 15:01
Refer to 07-0057.
Sample: L526298-04 Account: HRLCSCO Received: 07/15/11 09:00 Due Date: 07/22/11 00:00 RPT Date: 07/20/11 15:01
Refer to 07-0057.
Sample: L526298-05 Account: HRLCSCO Received: 07/15/11 09:00 Due Date: 07/22/11 00:00 RPT Date: 07/20/11 15:01
Refer to 07-0057.
Sample: L526298-06 Account: HRLCSCO Received: 07/15/11 09:00 Due Date: 07/22/11 00:00 RPT Date: 07/20/11 15:01
Refer to 07-0057.



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Quality Assurance Report
Level II

L526298

July 20, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Benzene	< .0005	mg/kg			WG545987	07/17/11 00:17
Ethylbenzene	< .0005	mg/kg			WG545987	07/17/11 00:17
Toluene	< .005	mg/kg			WG545987	07/17/11 00:17
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG545987	07/17/11 00:17
Total Xylene	< .0015	mg/kg			WG545987	07/17/11 00:17
a,a,a-Trifluorotoluene(FID)		% Rec.	97.05	59-128	WG545987	07/17/11 00:17
a,a,a-Trifluorotoluene(PID)		% Rec.	100.9	54-144	WG545987	07/17/11 00:17

Arsenic	< 1	mg/kg			WG545976	07/17/11 11:47
Arsenic	< 1	mg/kg			WG546025	07/18/11 10:23
TPH (GC/FID) High Fraction	< 4	ppm			WG546341	07/19/11 22:02
o-Terphenyl		% Rec.	87.48	50-150	WG546341	07/19/11 22:02

Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch
		Result	Duplicate				
Arsenic	mg/kg	12.0	12.5	8.33	20	L526310-01	WG545976
Arsenic	mg/kg	1.70	1.30	24.9*	20	L526327-34	WG546025

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Benzene	mg/kg	.05	0.0477	95.5	76-113	WG545987
Ethylbenzene	mg/kg	.05	0.0464	92.7	78-115	WG545987
Toluene	mg/kg	.05	0.0463	92.7	76-114	WG545987
Total Xylene	mg/kg	.15	0.142	94.5	81-118	WG545987
a,a,a-Trifluorotoluene(FID)				97.32	59-128	WG545987
a,a,a-Trifluorotoluene(PID)				100.9	54-144	WG545987
TPH (GC/FID) Low Fraction	mg/kg	5.5	4.73	86.1	67-135	WG545987
a,a,a-Trifluorotoluene(FID)				106.4	59-128	WG545987
a,a,a-Trifluorotoluene(PID)				112.9	54-144	WG545987
Arsenic	mg/kg	192	168.	87.5	78.6-120.8	WG545976
Arsenic	mg/kg	192	166.	86.5	78.6-120.8	WG546025
TPH (GC/FID) High Fraction	ppm	60	55.0	91.7	50-150	WG546341
o-Terphenyl				72.92	50-150	WG546341

Analyte	Units	Laboratory Control Sample Duplicate		Limit	RPD	Limit	Batch
		Result	Ref %Rec				
Benzene	mg/kg	0.0533	0.0477 106.	76-113	11.0	20	WG545987
Ethylbenzene	mg/kg	0.0509	0.0464 102.	78-115	9.42	20	WG545987
Toluene	mg/kg	0.0513	0.0463 103.	76-114	10.2	20	WG545987
Total Xylene	mg/kg	0.155	0.142 103.	81-118	8.81	20	WG545987
a,a,a-Trifluorotoluene(FID)			97.36	59-128			WG545987
a,a,a-Trifluorotoluene(PID)			100.3	54-144			WG545987
TPH (GC/FID) Low Fraction	mg/kg	5.03	4.73 92.0	67-135	6.13	20	WG545987

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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Analyte	Laboratory Control Sample Duplicate				Limit	RPD	Limit	Batch
	Units	Result	Ref	%Rec				
a,a,a-Trifluorotoluene(FID)				107.2	59-128			
a,a,a-Trifluorotoluene(PID)				112.3	54-144			
TPH (GC/FID) High Fraction	ppm	58.6	55.0	98.0	50-150	6.25	25	WG546341
o-Terphenyl				80.61	50-150			WG546341

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
TPH (GC/FID) Low Fraction	mg/kg	20.2	0.154	5.5	72.8	55-109	L526287-01	WG545987
a,a,a-Trifluorotoluene(FID)					104.1	59-128		WG545987
a,a,a-Trifluorotoluene(PID)					110.1	54-144		WG545987
Benzene	mg/kg	0.206	0	.05	82.3	32-137	L526287-01	WG545987
Ethylbenzene	mg/kg	0.191	0	.05	76.4	10-150	L526287-01	WG545987
Toluene	mg/kg	0.200	0	.05	80.0	20-142	L526287-01	WG545987
Total Xylene	mg/kg	0.588	0	.15	78.4	16-141	L526287-01	WG545987
a,a,a-Trifluorotoluene(FID)					97.37	59-128		WG545987
a,a,a-Trifluorotoluene(PID)					99.87	54-144		WG545987
Arsenic	mg/kg	56.7	12.5	50	88.4	75-125	L526310-01	WG545976
Arsenic	mg/kg	47.5	1.30	50	92.4	75-125	L526327-34	WG546025
TPH (GC/FID) High Fraction	ppm	41.6	0	60	69.3	50-150	L526540-02	WG546341
o-Terphenyl					49.65*	50-150		WG546341

Analyte	Units	Matrix Spike Duplicate				Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec						
TPH (GC/FID) Low Fraction	mg/kg	20.0	20.2	72.2	55-109	0.890	20	L526287-01		WG545987
a,a,a-Trifluorotoluene(FID)				104.8	59-128					WG545987
a,a,a-Trifluorotoluene(PID)				110.4	54-144					WG545987
Benzene	mg/kg	0.189	0.206	75.6	32-137	8.46	39	L526287-01		WG545987
Ethylbenzene	mg/kg	0.174	0.191	69.6	10-150	9.29	44	L526287-01		WG545987
Toluene	mg/kg	0.180	0.200	72.1	20-142	10.4	42	L526287-01		WG545987
Total Xylene	mg/kg	0.531	0.588	70.8	16-141	10.2	46	L526287-01		WG545987
a,a,a-Trifluorotoluene(FID)				97.09	59-128					WG545987
a,a,a-Trifluorotoluene(PID)				100.1	54-144					WG545987
Arsenic	mg/kg	56.0	56.7	87.0	75-125	1.24	20	L526310-01		WG545976
Arsenic	mg/kg	47.7	47.5	92.8	75-125	0.420	20	L526327-34		WG546025
TPH (GC/FID) High Fraction	ppm	46.4	41.6	77.2	50-150	10.9	25	L526540-02		WG546341
o-Terphenyl				48.59*	50-150					WG546341

Batch number /Run number / Sample number cross reference

WG545987: R1766610: L526298-01

WG545976: R1767490: L526298-06

WG546025: R1768772: L526298-02 03 04 05

WG546341: R1771691: L526298-01

* * Calculations are performed prior to rounding of reported values.

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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July 20, 2011

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.