



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

August 08, 2014

Kristin Pope

R.T. Hicks Consultants, LTD

901 Rio Grande Blvd. NW

Suite F-142

Albuquerque, NM 87104

TEL: (505) 266-5004

FAX (505) 266-0745

RE: Murchison - Hackberry St. #1 Release

OrderNo.: 1408023

Dear Kristin Pope:

Hall Environmental Analysis Laboratory received 6 sample(s) on 8/1/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1408023**

Date Reported: **8/8/2014**

**CLIENT:** R.T. Hicks Consultants, LTD

**Client Sample ID:** #1 @surface

**Project:** Murchison - Hackberry St. #1 Release

**Collection Date:** 7/29/2014 8:40:00 AM

**Lab ID:** 1408023-001

**Matrix:** SOIL

**Received Date:** 8/1/2014 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	40	9.8		mg/Kg	1	8/5/2014 8:32:18 AM	14572
Motor Oil Range Organics (MRO)	85	49		mg/Kg	1	8/5/2014 8:32:18 AM	14572
Surr: DNOP	85.4	57.9-140		%REC	1	8/5/2014 8:32:18 AM	14572
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JRR</b>
Chloride	31000	1500		mg/Kg	1E	8/6/2014 1:08:55 PM	14585
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>KJH</b>
Benzene	ND	0.048		mg/Kg	1	8/5/2014 4:44:27 PM	14583
Toluene	ND	0.048		mg/Kg	1	8/5/2014 4:44:27 PM	14583
Ethylbenzene	ND	0.048		mg/Kg	1	8/5/2014 4:44:27 PM	14583
Xylenes, Total	ND	0.095		mg/Kg	1	8/5/2014 4:44:27 PM	14583
Surr: 1,2-Dichloroethane-d4	89.0	70-130		%REC	1	8/5/2014 4:44:27 PM	14583
Surr: 4-Bromofluorobenzene	80.8	70-130		%REC	1	8/5/2014 4:44:27 PM	14583
Surr: Dibromofluoromethane	91.6	70-130		%REC	1	8/5/2014 4:44:27 PM	14583
Surr: Toluene-d8	96.8	70-130		%REC	1	8/5/2014 4:44:27 PM	14583
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>KJH</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/5/2014 4:44:27 PM	14583
Surr: BFB	113	61.2-137		%REC	1	8/5/2014 4:44:27 PM	14583

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 1 of 10
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1408023**

Date Reported: **8/8/2014**

**CLIENT:** R.T. Hicks Consultants, LTD

**Client Sample ID:** #2@surface

**Project:** Murchison - Hackberry St. #1 Release

**Collection Date:** 7/29/2014 9:00:00 AM

**Lab ID:** 1408023-002

**Matrix:** SOIL

**Received Date:** 8/1/2014 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	67	10		mg/Kg	1	8/5/2014 9:37:11 AM	14572
Motor Oil Range Organics (MRO)	140	50		mg/Kg	1	8/5/2014 9:37:11 AM	14572
Surr: DNOP	102	57.9-140		%REC	1	8/5/2014 9:37:11 AM	14572
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JRR</b>
Chloride	21000	3000		mg/Kg	2E	8/6/2014 1:21:19 PM	14585
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>KJH</b>
Benzene	ND	0.049		mg/Kg	1	8/5/2014 6:08:50 PM	14583
Toluene	ND	0.049		mg/Kg	1	8/5/2014 6:08:50 PM	14583
Ethylbenzene	ND	0.049		mg/Kg	1	8/5/2014 6:08:50 PM	14583
Xylenes, Total	ND	0.098		mg/Kg	1	8/5/2014 6:08:50 PM	14583
Surr: 1,2-Dichloroethane-d4	87.0	70-130		%REC	1	8/5/2014 6:08:50 PM	14583
Surr: 4-Bromofluorobenzene	82.1	70-130		%REC	1	8/5/2014 6:08:50 PM	14583
Surr: Dibromofluoromethane	89.1	70-130		%REC	1	8/5/2014 6:08:50 PM	14583
Surr: Toluene-d8	89.4	70-130		%REC	1	8/5/2014 6:08:50 PM	14583
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>KJH</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/5/2014 6:08:50 PM	14583
Surr: BFB	107	61.2-137		%REC	1	8/5/2014 6:08:50 PM	14583

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 2 of 10
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1408023**Date Reported: **8/8/2014****CLIENT:** R.T. Hicks Consultants, LTD**Client Sample ID:** #3@2'**Project:** Murchison - Hackberry St. #1 Release**Collection Date:** 7/29/2014 11:11:00 AM**Lab ID:** 1408023-003**Matrix:** SOIL**Received Date:** 8/1/2014 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/5/2014 9:58:34 AM	14572
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/5/2014 9:58:34 AM	14572
Surr: DNOP	112	57.9-140		%REC	1	8/5/2014 9:58:34 AM	14572
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JRR</b>
Chloride	1600	150		mg/Kg	100	8/6/2014 1:33:44 PM	14585
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>KJH</b>
Benzene	ND	0.047		mg/Kg	1	8/5/2014 6:36:52 PM	14583
Toluene	ND	0.047		mg/Kg	1	8/5/2014 6:36:52 PM	14583
Ethylbenzene	ND	0.047		mg/Kg	1	8/5/2014 6:36:52 PM	14583
Xylenes, Total	ND	0.094		mg/Kg	1	8/5/2014 6:36:52 PM	14583
Surr: 1,2-Dichloroethane-d4	87.7	70-130		%REC	1	8/5/2014 6:36:52 PM	14583
Surr: 4-Bromofluorobenzene	85.8	70-130		%REC	1	8/5/2014 6:36:52 PM	14583
Surr: Dibromofluoromethane	89.7	70-130		%REC	1	8/5/2014 6:36:52 PM	14583
Surr: Toluene-d8	93.6	70-130		%REC	1	8/5/2014 6:36:52 PM	14583
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>KJH</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/5/2014 6:36:52 PM	14583
Surr: BFB	113	61.2-137		%REC	1	8/5/2014 6:36:52 PM	14583

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.
	E	Value above quantitation range
	J	Analyte detected below quantitation limits
	O	RSD is greater than RSDlimit
	R	RPD outside accepted recovery limits
	S	Spike Recovery outside accepted recovery limits

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2.
RL	Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1408023**

Date Reported: **8/8/2014**

**CLIENT:** R.T. Hicks Consultants, LTD

**Client Sample ID:** 10'E@surface

**Project:** Murchison - Hackberry St. #1 Release

**Collection Date:** 7/29/2014 9:15:00 AM

**Lab ID:** 1408023-004

**Matrix:** SOIL

**Received Date:** 8/1/2014 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JRR</b>
Chloride	18000	3000		mg/Kg	2E	8/6/2014 1:46:09 PM	14585

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 4 of 10
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1408023**

Date Reported: **8/8/2014**

**CLIENT:** R.T. Hicks Consultants, LTD

**Client Sample ID:** 20'E@surface

**Project:** Murchison - Hackberry St. #1 Release

**Collection Date:** 7/29/2014 10:30:00 AM

**Lab ID:** 1408023-005

**Matrix:** SOIL

**Received Date:** 8/1/2014 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGP</b>
Chloride	56	30		mg/Kg	20	8/4/2014 5:22:14 PM	14585

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 5 of 10
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1408023**

Date Reported: **8/8/2014**

**CLIENT:** R.T. Hicks Consultants, LTD

**Client Sample ID:** 10'S@1'

**Project:** Murchison - Hackberry St. #1 Release

**Collection Date:** 7/29/2014 9:22:00 AM

**Lab ID:** 1408023-006

**Matrix:** SOIL

**Received Date:** 8/1/2014 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGP</b>
Chloride	85	30		mg/Kg	20	8/4/2014 5:34:39 PM	14585

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 6 of 10
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1408023

08-Aug-14

Client: R.T. Hicks Consultants, LTD

Project: Murchison - Hackberry St. #1 Release

Sample ID	MB-14585		SampType:	MBLK		TestCode:	EPA Method 300.0: Anions				
Client ID:	PBS		Batch ID:	14585		RunNo:	20370				
Prep Date:	8/4/2014		Analysis Date:	8/4/2014		SeqNo:	592455		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									

Sample ID	LCS-14585		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 14585		RunNo: 20370					
Prep Date:	8/4/2014		Analysis Date: 8/4/2014		SeqNo: 592456		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.9	90	110			

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
O RSD is greater than RSDlimit  
R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
P Sample pH greater than 2.  
RL Reporting Detection Limit



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1408023

08-Aug-14

Client: R.T. Hicks Consultants, LTD

Project: Murchison - Hackberry St. #1 Release

Sample ID	MB-14572	SampType: MBLK		TestCode: EPA Method 8015D: Diesel Range Organics						
Client ID:	PBS	Batch ID: 14572		RunNo: 20327						
Prep Date:	8/4/2014	Analysis Date: 8/4/2014		SeqNo: 591198		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		107	57.9	140			

Sample ID	LCS-14572		SampType: LCS		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 14572		RunNo: 20327					
Prep Date:	8/4/2014		Analysis Date: 8/4/2014		SeqNo: 591199		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	108	68.6	130			
Surr: DNOP	5.4		5.000		109	57.9	140			

Sample ID	1408023-001AMS		SampType: MS		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	#1@surface		Batch ID: 14572		RunNo: 20364					
Prep Date:	8/4/2014		Analysis Date: 8/5/2014		SeqNo: 592232		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	100	10	49.90	39.81	120	40.1	152			
Surr: DNOP	4.9		4.990		98.9	57.9	140			

Sample ID	1408023-001AMSD		SampType:	MSD		TestCode:	EPA Method 8015D: Diesel Range Organics				
Client ID:	#1@surface		Batch ID:	14572		RunNo:	20364				
Prep Date:	8/4/2014		Analysis Date:	8/5/2014		SeqNo:	592233		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	85	10	49.90	39.81	91.3	40.1	152	15.4	32.1		
Surr: DNOP	4.9		4.990		99.2	57.9	140	0	0		

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
O RSD is greater than RSDlimit  
R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
P Sample pH greater than 2.  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1408023

08-Aug-14

Client: R.T. Hicks Consultants, LTD

Project: Murchison - Hackberry St. #1 Release

Sample ID	mb-14583		SampType: MBLK		TestCode: EPA Method 8260B: Volatiles Short List					
Client ID:	PBS		Batch ID: 14583		RunNo: 20375					
Prep Date:	8/4/2014		Analysis Date: 8/5/2014		SeqNo: 592931		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		89.6	70	130			
Surr: 4-Bromofluorobenzene	0.43		0.5000		85.4	70	130			
Surr: Dibromofluoromethane	0.44		0.5000		87.9	70	130			
Surr: Toluene-d8	0.47		0.5000		94.8	70	130			

Sample ID	lcs-14583		SampType: LCS		TestCode: EPA Method 8260B: Volatiles Short List					
Client ID:	LCSS		Batch ID: 14583		RunNo: 20375					
Prep Date:	8/4/2014		Analysis Date: 8/5/2014		SeqNo: 592936		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.050	1.000	0	99.0	70	130			
Toluene	0.99	0.050	1.000	0	99.4	60.1	120			
Surr: 1,2-Dichloroethane-d4	0.43		0.5000		86.6	70	130			
Surr: 4-Bromofluorobenzene	0.41		0.5000		82.7	70	130			
Surr: Dibromofluoromethane	0.43		0.5000		86.9	70	130			
Surr: Toluene-d8	0.46		0.5000		92.6	70	130			

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
O RSD is greater than RSDlimit  
R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
P Sample pH greater than 2.  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1408023

08-Aug-14

Client: R.T. Hicks Consultants, LTD

Project: Murchison - Hackberry St. #1 Release

Sample ID	mb-14583		SampType: MBLK		TestCode: EPA Method 8015D Mod: Gasoline Range					
Client ID:	PBS		Batch ID: 14583		RunNo: 20375					
Prep Date:	8/4/2014		Analysis Date: 8/5/2014		SeqNo: 592993		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	530		500.0		106	61.2	137			

Sample ID	lcs-14583		SampType: LCS		TestCode: EPA Method 8015D Mod: Gasoline Range					
Client ID:	LCSS		Batch ID: 14583		RunNo: 20375					
Prep Date:	8/4/2014		Analysis Date: 8/5/2014		SeqNo: 592994		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	117	80	120			
Surr: BFB	550		500.0		110	61.2	137			

Sample ID	1408023-001ams		SampType: MS		TestCode: EPA Method 8015D Mod: Gasoline Range					
Client ID:	#1@surface		Batch ID: 14583		RunNo: 20375					
Prep Date:	8/4/2014		Analysis Date: 8/5/2014		SeqNo: 592997		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	36	4.7	23.74	0.8302	146	58	134			S
Surr: BFB	530		474.8		112	61.2	137			

Sample ID	1408023-001amsd		SampType: MSD		TestCode: EPA Method 8015D Mod: Gasoline Range					
Client ID:	#1@surface		Batch ID: 14583		RunNo: 20375					
Prep Date:	8/4/2014		Analysis Date: 8/5/2014		SeqNo: 592998		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	35	4.7	23.72	0.8302	143	58	134	2.39	20	S
Surr: BFB	530		474.4		113	61.2	137	0	0	

Sample ID	MB-14583MK		SampType: MBLK		TestCode: EPA Method 8015D Mod: Gasoline Range					
Client ID:	PBS		Batch ID: R20375		RunNo: 20375					
Prep Date:	8/4/2014		Analysis Date: 8/5/2014		SeqNo: 593004		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	530		500.0		106	61.2	137			

Sample ID	LCS-14583MK		SampType: LCS		TestCode: EPA Method 8015D Mod: Gasoline Range					
Client ID:	LCSS		Batch ID: R20375		RunNo: 20375					
Prep Date:	8/4/2014		Analysis Date: 8/5/2014		SeqNo: 593008		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	550		500.0		110	61.2	137			

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
O RSD is greater than RSDlimit  
R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
P Sample pH greater than 2.  
RL Reporting Detection Limit

# Sample Log-In Check List

Client Name: RT HICKS

Work Order Number: 1408023

RcptNo: 1

Received by/date:

MG 08/01/14

Logged By:

Celina Sessa

8/1/2014 8:45:00 AM

*Celina Sessa*

Completed By:

Celina Sessa

8/1/2014 3:49:21 PM

*Celina Sessa*

Reviewed By:

*[Signature]*

08/04/14

## Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? FedEx

## Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:

(&lt;2 or &gt;12 unless noted)

Adjusted?

Checked by:

## Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

☐ eMail

☐ Phone

☐ Fax

☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

## 18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.4	Good	Yes			

