

Table 910-1		AH Jones 1				
CONCENTRATION LEVELS						
Contaminant of Concern	Concentrations	Background Sample 1 (BG1)	Background Sample 2 (BG2)	Background Range	Discrete Sample (S1)	Discrete Sample (S2)
	Below detection level-BDL					
Organic Compounds in Soil						
TPH (total volatile & extractable petroleum)	500mg/kg	BDL	4.6 mg/kg	BDL-4.6 mg/kg	32.0 mg/kg	BDL
Benzene	0.17 mg/kg	BDL	BDL	BDL	BDL	BDL
Toluene	85 mg/kg	BDL	BDL	BDL	BDL	BDL
Ethylbenzene	100mg/kg	BDL	BDL	BDL	BDL	BDL
Xylenes (total)	175 mg/kg	BDL	BDL	BDL	BDL	BDL
Inorganics in Soils						
Electrical Conductivity (EC)	<4 mmhos/cm or 2x background	422 umhos/cm	397 umhos/cm	397-422 umhos/cm	172 umhos/cm	184 umhos/cm
Sodium Adsorption Ratio (SAR)	<12	0.115	0.113	.113-.115	0.789	0.850
pH	6.0-9.0	7.520	7.600	7.52-7.6	7.970	8.070
Metals in Soils						
Arsenic	0.39 mg/kg	3.79 mg/kg	5.09 mg/kg	3.79-5.09 mg/kg	2.14 mg/kg	2.29 mg/kg
Barium (LDNR True Total Barium)	15,000 mg/kg	222 mg/kg	213 mg/kg	213-222 mg/kg	77.1 mg/kg	94.2 mg/kg
Boron (TCLP)	2 mg/l	BDL	BDL	BDL	BDL	BDL
Cadmium	70 mg/kg	0.673 mg/kg	BDL	BDL-.673 mg/kg	BDL	BDL
Chromium (III)	120,000 mg/kg	8.88 mg/kg	8.52 mg/kg	8.52-8.88 mg/kg	7.71 mg/kg	14.6 mg/kg
Chromium (VI)	23 mg/kg	BDL	BDL	BDL	BDL	BDL
Copper	3,100 mg/kg	27.0 mg/kg	13.9 mg/kg	13.9-27.0 mg/kg	14.1 mg/kg	16.1 mg/kg
Lead (inorganic)	400 mg/kg	25.6 mg/kg	20.0 mg/kg	20-25.6 mg/kg	11.0 mg/kg	15.2 mg/kg
Mercury	23 mg/kg	0.022 mg/kg	BDL	BDL-0.022 mg/kg	BDL	0.0203 mg/kg
Nickel (soluble salts)	1,600 mg/kg	10.7 mg/kg	11.0 mg/kg	10.7-11 mg/kg	6.06 mg/kg	10.2 mg/kg
Selenium	390 mg/kg	BDL	BDL	BDL	BDL	BDL
Silver	390 mg/kg	BDL	BDL	BDL	BDL	BDL
Zinc	23,000 mg/kg	48.3 mg/kg	44.6 mg/kg	44.6-48.3 mg/kg	23.3 mg/kg	27.1 mg/kg

XTO Energy - San Juan Division

Sample Delivery Group: L779373
Samples Received: 07/29/2015
Project Number: 05-067-05300
Description: AH:Jones 1

Report To: Logan Hixon
382 County Road 3100
Aztec, NM 87410

Entire Report Reviewed By:



Daphne Richards
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



DURCH-072815-930 L779373-01 Solid

Collected by
Logan Hixon

Collected date/time
07/28/15 09:30

Received date/time
07/29/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Calculated Results	WG805562	1	07/29/15 13:50	08/05/15 15:39	JDG
Calculated Results	WG805654	1	07/30/15 06:57	07/31/15 14:56	CCE
Mercury by Method 7471A	WG805848	1	07/30/15 15:42	07/31/15 10:15	BRJ
Metals (ICP) by Method 6010B	WG805562	1	07/29/15 13:50	07/30/15 05:27	JDG
Semi-Volatile Organic Compounds (GC) by Method 3546/DRO	WG806098	1	08/03/15 10:03	08/04/15 02:15	CLG
Volatile Organic Compounds (GC) by Method 8021/8015	WG805880	5	07/30/15 08:45	07/30/15 12:55	MCB
Wet Chemistry by Method 2580 B-2011	WG806016	1	08/03/15 08:49	08/03/15 10:10	JER
Wet Chemistry by Method 3060A/7196A	WG805979	1	07/31/15 07:16	07/31/15 15:04	CM
Wet Chemistry by Method 9045D	WG805770	1	07/30/15 11:27	07/30/15 11:27	JEH
Wet Chemistry by Method 9050AMod	WG806710	1	08/04/15 12:31	08/04/15 12:31	JER

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

DURCH-072815-945 L779373-02 Solid

Collected by
Logan Hixon

Collected date/time
07/28/15 09:45

Received date/time
07/29/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Calculated Results	WG805562	1	07/29/15 13:50	08/05/15 15:39	JDG
Calculated Results	WG805654	1	07/30/15 06:57	08/03/15 09:32	JDG
Mercury by Method 7471A	WG805848	1	07/30/15 15:42	07/31/15 11:00	BRJ
Metals (ICP) by Method 6010B	WG805562	1	07/29/15 13:50	07/30/15 05:36	JDG
Semi-Volatile Organic Compounds (GC) by Method 3546/DRO	WG806098	1	08/03/15 10:03	08/04/15 03:11	CLG
Volatile Organic Compounds (GC) by Method 8021/8015	WG805880	5	07/30/15 08:45	07/30/15 15:23	MCB
Wet Chemistry by Method 2580 B-2011	WG806016	1	08/03/15 08:49	08/03/15 10:10	JER
Wet Chemistry by Method 3060A/7196A	WG805979	1	07/31/15 07:16	07/31/15 15:04	CM
Wet Chemistry by Method 9045D	WG805770	1	07/30/15 11:27	07/30/15 11:27	JEH
Wet Chemistry by Method 9050AMod	WG806710	1	08/04/15 12:31	08/04/15 12:31	JER

⁷ Gl

⁸ Al

⁹ Sc

DURCH-072815-1000 L779373-03 Solid

Collected by
Logan Hixon

Collected date/time
07/28/15 10:00

Received date/time
07/29/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Calculated Results	WG805562	1	07/29/15 13:50	08/05/15 15:39	JDG
Calculated Results	WG805654	1	07/30/15 06:57	08/03/15 09:32	JDG
Mercury by Method 7471A	WG805848	1	07/30/15 15:42	07/31/15 11:03	BRJ
Metals (ICP) by Method 6010B	WG805562	1	07/29/15 13:50	07/30/15 05:38	JDG
Semi-Volatile Organic Compounds (GC) by Method 3546/DRO	WG806098	1	08/03/15 10:03	08/04/15 03:22	CLG
Volatile Organic Compounds (GC) by Method 8021/8015	WG805880	5	07/30/15 08:45	07/30/15 15:47	MCB
Wet Chemistry by Method 2580 B-2011	WG806016	1	08/03/15 08:49	08/03/15 10:10	JER
Wet Chemistry by Method 3060A/7196A	WG805979	1	07/31/15 07:16	07/31/15 15:04	CM
Wet Chemistry by Method 9045D	WG805770	1	07/30/15 11:27	07/30/15 11:27	JEH
Wet Chemistry by Method 9050AMod	WG806710	1	08/04/15 12:31	08/04/15 12:31	JER

DURCH-072815-1015 L779373-04 Solid

Collected by
Logan Hixon

Collected date/time
07/28/15 10:15

Received date/time
07/29/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Calculated Results	WG805562	1	07/29/15 13:50	08/05/15 15:39	JDG
Calculated Results	WG805654	1	07/30/15 06:57	08/03/15 09:32	JDG
Mercury by Method 7471A	WG805848	1	07/30/15 15:42	07/31/15 11:06	BRJ
Metals (ICP) by Method 6010B	WG805562	1	07/29/15 13:50	07/30/15 05:41	JDG
Semi-Volatile Organic Compounds (GC) by Method 3546/DRO	WG806098	1	08/03/15 10:03	08/04/15 03:34	CLG
Volatile Organic Compounds (GC) by Method 8021/8015	WG805880	5	07/30/15 08:45	07/30/15 19:52	MCB
Wet Chemistry by Method 2580 B-2011	WG806016	1	08/03/15 08:49	08/03/15 10:10	JER

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



DURCH-072815-1015 L779373-04 Solid

Collected by
Logan HixonCollected date/time
07/28/15 10:15Received date/time
07/29/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Wet Chemistry by Method 3060A/7196A	WG805979	1	07/31/15 07:16	07/31/15 15:04	CM
Wet Chemistry by Method 9045D	WG805770	1	07/30/15 11:27	07/30/15 11:27	JEH
Wet Chemistry by Method 9050AMod	WG806710	1	08/04/15 12:31	08/04/15 12:31	JER

1
Cp2
Tc3
Ss4
Cn

DURCH-072815-930 L779373-05 Waste

Collected by
Logan HixonCollected date/time
07/28/15 09:30Received date/time
07/29/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Metals (ICP) by Method 6010B	WG806829	1	08/04/15 13:16	08/04/15 16:35	ST
Preparation by Method 1311	WG806591	1	08/03/15 15:57	08/03/15 15:58	LJN

5
Sr6
Qc

DURCH-072815-945 L779373-06 Waste

Collected by
Logan HixonCollected date/time
07/28/15 09:45Received date/time
07/29/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Metals (ICP) by Method 6010B	WG806829	1	08/04/15 13:16	08/04/15 16:40	ST
Preparation by Method 1311	WG806591	1	08/03/15 15:57	08/03/15 15:58	LJN

7
Gl8
Al9
Sc

DURCH-072815-1000 L779373-07 Waste

Collected by
Logan HixonCollected date/time
07/28/15 10:00Received date/time
07/29/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Metals (ICP) by Method 6010B	WG806829	1	08/04/15 13:16	08/04/15 16:45	ST
Preparation by Method 1311	WG806591	1	08/03/15 15:57	08/03/15 15:58	LJN

DURCH-072815-1015 L779373-08 Waste

Collected by
Logan HixonCollected date/time
07/28/15 10:15Received date/time
07/29/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Metals (ICP) by Method 6010B	WG806829	1	08/04/15 13:16	08/04/15 16:50	ST
Preparation by Method 1311	WG806591	1	08/03/15 15:57	08/03/15 15:58	LJN



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the

Daphne Richards
Technical Service Representative

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Calculated Results

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium,Trivalent	7.71		2.00	1	08/05/2015 15:39	WG805562

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
					date / time	
Sodium Adsorption Ratio	0.789			1	07/31/2015 14:56	WG805654

Wet Chemistry by Method 2580 B-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	mV			date / time	
ORP	85		1	08/03/2015 10:10	WG806016

Wet Chemistry by Method 3060A/7196A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium,Hexavalent	ND		2.00	1	07/31/2015 15:04	WG805979

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su.			date / time	
pH	7.97		1	07/30/2015 11:27	WG805770

Wet Chemistry by Method 9050AMod

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	umhos/cm			date / time	
Specific Conductance	172		1	08/04/2015 12:31	WG806710

Mercury by Method 7471A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	ND		0.0200	1	07/31/2015 10:15	WG805848

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Arsenic	2.14		2.00	1	07/30/2015 05:27	WG805562
Barium	77.1		0.500	1	07/30/2015 05:27	WG805562
Cadmium	ND		0.500	1	07/30/2015 05:27	WG805562
Chromium	7.71		1.00	1	07/30/2015 05:27	WG805562
Copper	14.1		2.00	1	07/30/2015 05:27	WG805562
Lead	11.0		0.500	1	07/30/2015 05:27	WG805562
Nickel	6.06		2.00	1	07/30/2015 05:27	WG805562
Selenium	ND		2.00	1	07/30/2015 05:27	WG805562
Silver	ND		1.00	1	07/30/2015 05:27	WG805562
Zinc	23.3		5.00	1	07/30/2015 05:27	WG805562

DURCH-072815-930

Collected date/time: 07/28/15 09:30

SAMPLE RESULTS - 01

L779373

ONE LAB. NATIONWIDE.



Volatile Organic Compounds (GC) by Method 8021/8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00250	5	07/30/2015 12:55	WG805880
Toluene	ND		0.0250	5	07/30/2015 12:55	WG805880
Ethylbenzene	ND		0.00250	5	07/30/2015 12:55	WG805880
Total Xylene	ND		0.00750	5	07/30/2015 12:55	WG805880
TPH (GC/FID) Low Fraction	ND		0.500	5	07/30/2015 12:55	WG805880
(S) o,a,a-Trifluorotoluene(FID)	94.0		59.0-128		07/30/2015 12:55	WG805880
(S) o,a,a-Trifluorotoluene(PID)	101		54.0-144		07/30/2015 12:55	WG805880

Semi-Volatile Organic Compounds (GC) by Method 3546/DRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	32.0	J3	4.00	1	08/04/2015 02:15	WG806098
(S) o-Terphenyl	70.8		50.0-150		08/04/2015 02:15	WG806098

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Calculated Results

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium, Trivalent	14.6		2.00	1	08/05/2015 15:39	WG805562

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Calculated Results

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
					date / time	
Sodium Adsorption Ratio	0.850			1	08/03/2015 09:32	WG805654

6 Qc

7 GI

Wet Chemistry by Method 2580 B-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	mV			date / time	
ORP	82		1	08/03/2015 10:10	WG806016

8 AI

9 Sc

Wet Chemistry by Method 3060A/7196A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium, Hexavalent	ND		2.00	1	07/31/2015 15:04	WG805979

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
pH	8.07		1	07/30/2015 11:27	WG805770

Wet Chemistry by Method 9050AMod

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	umhos/cm			date / time	
Specific Conductance	184		1	08/04/2015 12:31	WG806710

Mercury by Method 7471A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.0203		0.0200	1	07/31/2015 11:00	WG805848

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Arsenic	2.29		2.00	1	07/30/2015 05:36	WG805562
Barium	94.2		0.500	1	07/30/2015 05:36	WG805562
Cadmium	ND		0.500	1	07/30/2015 05:36	WG805562
Chromium	14.6		1.00	1	07/30/2015 05:36	WG805562
Copper	16.1		2.00	1	07/30/2015 05:36	WG805562
Lead	15.2		0.500	1	07/30/2015 05:36	WG805562
Nickel	10.2		2.00	1	07/30/2015 05:36	WG805562
Selenium	ND		2.00	1	07/30/2015 05:36	WG805562
Silver	ND		1.00	1	07/30/2015 05:36	WG805562
Zinc	27.1		5.00	1	07/30/2015 05:36	WG805562

DURCH-072815-945

SAMPLE RESULTS - 02

ONE LAB. NATIONWIDE.



Collected date/time: 07/28/15 09:45

L779373

Volatile Organic Compounds (GC) by Method 8021/8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch	1 Cp
Benzene	ND		0.00250	5	07/30/2015 15:23	WG805880	2 Tc
Toluene	ND		0.0250	5	07/30/2015 15:23	WG805880	3 Ss
Ethylbenzene	ND		0.00250	5	07/30/2015 15:23	WG805880	4 Cn
Total Xylene	ND		0.00750	5	07/30/2015 15:23	WG805880	5 Sr
TPH (GC/FID) Low Fraction	ND		0.500	5	07/30/2015 15:23	WG805880	6 Qc
(S) o,o,o-Trifluorotoluene(FID)	93.7		59.0-128		07/30/2015 15:23	WG805880	7 Gl
(S) o,o,o-Trifluorotoluene(PID)	101		54.0-144		07/30/2015 15:23	WG805880	8 Al

Semi-Volatile Organic Compounds (GC) by Method 3546/DRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch	9 Sc
TPH (GC/FID) High Fraction	ND	J3	4.00	1	08/04/2015 03:11	WG806098	
(S) o-Terphenyl	73.7		50.0-150		08/04/2015 03:11	WG806098	



Collected date/time: 07/28/15 10:00

L779373

Calculated Results

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium,Trivalent	8.88		2.00	1	08/05/2015 15:39	WG805562

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
					date / time	
Sodium Adsorption Ratio	0.115			1	08/03/2015 09:32	WG805654

Wet Chemistry by Method 2580 B-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	mV			date / time	
ORP	85		1	08/03/2015 10:10	WG806016

Wet Chemistry by Method 3060A/7196A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium,Hexavalent	ND		2.00	1	07/31/2015 15:04	WG805979

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
pH	7.52		1	07/30/2015 11:27	WG805770

Wet Chemistry by Method 9050AMod

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	umhos/cm			date / time	
Specific Conductance	422		1	08/04/2015 12:31	WG806710

Mercury by Method 7471A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.0228		0.0200	1	07/31/2015 11:03	WG805848

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Arsenic	3.79		2.00	1	07/30/2015 05:38	WG805562
Barium	222		0.500	1	07/30/2015 05:38	WG805562
Cadmium	0.673		0.500	1	07/30/2015 05:38	WG805562
Chromium	8.88		1.00	1	07/30/2015 05:38	WG805562
Copper	27.0		2.00	1	07/30/2015 05:38	WG805562
Lead	25.6		0.500	1	07/30/2015 05:38	WG805562
Nickel	10.7		2.00	1	07/30/2015 05:38	WG805562
Selenium	ND		2.00	1	07/30/2015 05:38	WG805562
Silver	ND		1.00	1	07/30/2015 05:38	WG805562
Zinc	48.3		5.00	1	07/30/2015 05:38	WG805562

DURCH-072815-1000

SAMPLE RESULTS - 03

ONE LAB. NATIONWIDE.



Collected date/time: 07/28/15 10:00

L779373

Volatile Organic Compounds (GC) by Method 8021/8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00250	5	07/30/2015 15:47	WG805880
Toluene	ND		0.0250	5	07/30/2015 15:47	WG805880
Ethylbenzene	ND		0.00250	5	07/30/2015 15:47	WG805880
Total Xylene	ND		0.00750	5	07/30/2015 15:47	WG805880
TPH (GC/FID) Low Fraction	ND		0.500	5	07/30/2015 15:47	WG805880
(S) o,a,a-Trifluorotoluene(FID)	94.1		59.0-128		07/30/2015 15:47	WG805880
(S) o,a,a-Trifluorotoluene(PID)	101		54.0-144		07/30/2015 15:47	WG805880

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Semi-Volatile Organic Compounds (GC) by Method 3546/DRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	ND	<u>J3</u>	4.00	1	08/04/2015 03:22	WG806098
(S) o-Terphenyl	75.7		50.0-150		08/04/2015 03:22	WG806098

6 Qc

7 Gl

8 Al

9 Sc



Calculated Results

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chromium, Trivalent	8.52		2.00	1	08/05/2015 15:39	WG805562

1 Cp

2 Tc

3 Ss

Calculated Results

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.113			1	08/03/2015 09:32	WG805654

4 Cn

5 Sr

Wet Chemistry by Method 2580 B-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
ORP	82		1	08/03/2015 10:10	WG806016

6 Qc

7 Gl

Wet Chemistry by Method 3060A/7196A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chromium, Hexavalent	ND		2.00	1	07/31/2015 15:04	WG805979

8 Al

9 Sc

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.60		1	07/30/2015 11:27	WG805770

Wet Chemistry by Method 9050AMod

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Specific Conductance	397		1	08/04/2015 12:31	WG806710

Mercury by Method 7471A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.0200	1	07/31/2015 11:06	WG805848

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Arsenic	5.09		2.00	1	07/30/2015 05:41	WG805562
Barium	213		0.500	1	07/30/2015 05:41	WG805562
Cadmium	ND		0.500	1	07/30/2015 05:41	WG805562
Chromium	8.52		1.00	1	07/30/2015 05:41	WG805562
Copper	13.9		2.00	1	07/30/2015 05:41	WG805562
Lead	20.0		0.500	1	07/30/2015 05:41	WG805562
Nickel	11.0		2.00	1	07/30/2015 05:41	WG805562
Selenium	ND		2.00	1	07/30/2015 05:41	WG805562
Silver	ND		1.00	1	07/30/2015 05:41	WG805562
Zinc	44.6		5.00	1	07/30/2015 05:41	WG805562

DURCH-072815-1015

SAMPLE RESULTS - 04

ONE LAB. NATIONWIDE.



Collected date/time: 07/28/15 10:15

L779373

Volatile Organic Compounds (GC) by Method 8021/8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00250	5	07/30/2015 19:52	WG805880
Toluene	ND		0.0250	5	07/30/2015 19:52	WG805880
Ethylbenzene	ND		0.00250	5	07/30/2015 19:52	WG805880
Total Xylene	ND		0.00750	5	07/30/2015 19:52	WG805880
TPH (GC/FID) Low Fraction	ND		0.500	5	07/30/2015 19:52	WG805880
(S) o,a,a-Trifluorotoluene(FID)	93.7		59.0-128		07/30/2015 19:52	WG805880
(S) o,a,a-Trifluorotoluene(PID)	101		54.0-144		07/30/2015 19:52	WG805880

Semi-Volatile Organic Compounds (GC) by Method 3546/DRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	4.60	<u>J3</u>	4.00	1	08/04/2015 03:34	WG806098
(S) o-Terphenyl	79.9		50.0-150		08/04/2015 03:34	WG806098

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		8/3/2015 3:57:10 PM	WG806591

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Boron	ND		9.00		1	08/04/2015 16:35	WG806829

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		8/3/2015 3:57:10 PM	WG806591

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Boron	ND		9.00		1	08/04/2015 16:40	WG806829

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

DURCH-072815-1000

Collected date/time: 07/28/15 10:00

SAMPLE RESULTS - 07

L779373

ONE LAB. NATIONWIDE.



Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch	1 Cp
TCLP Extraction	-		8/3/2015 3:57:10 PM	WG806591	2 Tc

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch	3 Ss
Boron	ND		9.00		1	08/04/2015 16:45	WG806829	4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch	1 Cp
TCLP Extraction	-		8/3/2015 3:57:10 PM	WG806591	2 Tc

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch	3 Ss
Boron	ND		9.00		1	08/04/2015 16:50	WG806829	4 Cn

5
Sr6
Qc7
Gl8
Al9
Sc

WG806016

Wet Chemistry by Method 2580 B-2011

QUALITY CONTROL SUMMARY

[L779373-01,02,03,04](#)

ONE LAB. NATIONWIDE.



L779283-01 Original Sample (OS) • Duplicate (DUP)

(OS) 08/03/15 10:10 • (DUP) 08/03/15 10:10

Analyte	Original Result mV	DUP Result mV	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
ORP	110	107	1	2.8		20

1
Cp2
Tc3
Ss

L779653-03 Original Sample (OS) • Duplicate (DUP)

(OS) 08/03/15 10:10 • (DUP) 08/03/15 10:10

Analyte	Original Result mV	DUP Result mV	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
ORP	78	78	1	0.00		20

4
Cn5
Sr6
Qc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 08/03/15 10:10 • (LCSD) 08/03/15 10:10

Analyte	Spike Amount mV	LCS Result mV	LCSD Result mV	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
ORP	100	99	99	99.0	99.0	90.0-110			0.000	20

7
Gl8
Al9
Sc

WG805979

Wet Chemistry by Method 3060A/7196A

QUALITY CONTROL SUMMARY

[L779373-01,02,03,04](#)

ONE LAB. NATIONWIDE.



Method Blank (MB)

(MB) 07/31/15 15:03

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Chromium,Hexavalent	ND		2.00

L779579-01 Original Sample (OS) • Duplicate (DUP)

(OS) 07/31/15 15:08 • (DUP) 07/31/15 15:08

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chromium,Hexavalent	ND	ND	1	0.00		20

L779612-08 Original Sample (OS) • Duplicate (DUP)

(OS) 07/31/15 15:24 • (DUP) 07/31/15 15:25

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chromium,Hexavalent	ND	ND	1	0.00		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 07/31/15 15:03 • (LCSD) 07/31/15 15:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chromium,Hexavalent	59.8	55.8	56.0	93.3	93.6	80.0-120			0.358	20

L779612-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 07/31/15 15:24 • (MS) 07/31/15 15:25 • (MSD) 07/31/15 15:26

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium,Hexavalent	20.0	ND	20.6	20.6	103	103	1	75.0-125			0.000	20

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc

WG805770

Wet Chemistry by Method 9045D

QUALITY CONTROL SUMMARY

L779373-01,02,03,04

ONE LAB. NATIONWIDE.



L779373-01 Original Sample (OS) • Duplicate (DUP)

(OS) 07/30/15 11:27 • (DUP) 07/30/15 11:27

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.0	7.9	1	0.38		1

1
Cp2
Tc3
Ss

L779519-04 Original Sample (OS) • Duplicate (DUP)

(OS) 07/30/15 11:27 • (DUP) 07/30/15 11:27

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.0	7.0	1	0.43		1

4
Cn5
Sr6
Qc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 07/30/15 11:27 • (LCSD) 07/30/15 11:27

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	su	su	su	%	%	%			%	%
pH	5.63	5.68	5.65	101	100	98.2-102			0.530	20

7
Gl8
Al9
Sc

WG806710

Wet Chemistry by Method 9050A Mod

QUALITY CONTROL SUMMARY

[L779373-01,02,03,04](#)

ONE LAB. NATIONWIDE.



Method Blank (MB)

(MB) 08/04/15 12:31

Analyte	MB Result umhos/cm	MB Qualifier	MB RDL umhos/cm
Specific Conductance	1.02		

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc

L779373-01 Original Sample (OS) • Duplicate (DUP)

(OS) 08/04/15 12:31 • (DUP) 08/04/15 12:31

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	170	170	1	1.2		20

L780175-15 Original Sample (OS) • Duplicate (DUP)

(OS) 08/04/15 12:31 • (DUP) 08/04/15 12:31

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	250	250	1	2.0		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 08/04/15 12:31 • (LCSD) 08/04/15 12:31

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCSD Result umhos/cm	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Specific Conductance	873	902	904	103	104	90.0-110			0.221	20

WG805848

Mercury by Method 7471A

QUALITY CONTROL SUMMARY

[L779373-01,02,03,04](#)

ONE LAB. NATIONWIDE.



Method Blank (MB)

(MB) 07/31/15 10:06

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Mercury	ND		0.0200

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 07/31/15 10:09 • (LCSD) 07/31/15 10:12

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury	0.300	0.271	0.245	90	82	80-120			10	20

L779373-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 07/31/15 10:15 • (MS) 07/31/15 10:18 • (MSD) 07/31/15 10:27

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.300	0.00633	0.287	0.297	94	97	1	75-125			3	20



Method Blank (MB)

(MB) 07/30/15 04:49

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Arsenic	ND		2.00
Barium	ND		0.500
Cadmium	ND		0.500
Chromium	ND		1.00
Copper	ND		2.00
Lead	ND		0.500
Nickel	ND		2.00
Selenium	ND		2.00
Silver	ND		1.00
Zinc	ND		5.00

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 07/30/15 04:51 • (LCSD) 07/30/15 05:00

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic	100	97.9	88.4	98	88	80-120			10	20
Barium	100	100	88.9	100	89	80-120			12	20
Cadmium	100	100	89.6	100	90	80-120			11	20
Chromium	100	97.9	88.3	98	88	80-120			10	20
Copper	100	99.8	88.1	100	88	80-120			12	20
Lead	100	101	89.9	101	90	80-120			12	20
Nickel	100	100	89.6	100	90	80-120			11	20
Selenium	100	102	91.8	102	92	80-120			11	20
Silver	100	100	89.4	100	89	80-120			11	20
Zinc	100	98.4	88.4	98	88	80-120			11	20

L779261-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 07/30/15 05:03 • (MS) 07/30/15 05:12 • (MSD) 07/30/15 05:15

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	5.16	99.3	99.8	94	95	1	75-125			1	20
Barium	100	80.4	167	172	87	92	1	75-125			3	20
Cadmium	100	1.61	97.6	97.5	96	96	1	75-125			0	20

WG805562

Metals (ICP) by Method 6010B

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

[L779373-01,02,03,04](#)

L779261-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 07/30/15 05:03 • (MS) 07/30/15 05:12 • (MSD) 07/30/15 05:15

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium	100	19.0	97.3	103	78	84	1	75-125			6	20
Copper	100	17.6	104	101	86	84	1	75-125			3	20
Lead	100	59.3	130	139	70	80	1	75-125	J6		7	20
Nickel	100	17.7	114	116	97	99	1	75-125			2	20
Selenium	100	ND	96.9	99.0	97	99	1	75-125			2	20
Silver	100	ND	100	101	100	101	1	75-125			1	20
Zinc	100	52.3	119	127	67	75	1	75-125	J6		7	20

Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

WG806829

Metals (ICP) by Method 6010B

QUALITY CONTROL SUMMARY

[L779373-05,06,07,08](#)

ONE LAB. NATIONWIDE.



Method Blank (MB)

(MB) 08/04/15 15:32

	MB Result	MB Qualifier	MB RDL
Analyte	mg/l		mg/l
Boron	ND		9.00

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 08/04/15 15:37 • (LCSD) 08/04/15 15:42

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	%	%	%			%	%
Boron	9.00	8.99	9.33	100	104	80-120			4	20

L779451-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 08/04/15 15:46 • (MS) 08/04/15 15:56 • (MSD) 08/04/15 16:01

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Boron	9.00	ND	9.39	9.44	104	105	1	75-125			0	20

L779447-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 08/04/15 16:55 • (MS) 08/04/15 17:00 • (MSD) 08/04/15 17:04

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Boron	9.00	0.0504	9.33	9.17	103	101	1	75-125			2	20

L779449-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 08/04/15 17:09 • (MS) 08/04/15 17:14 • (MSD) 08/04/15 17:28

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Boron	9.00	ND	9.36	9.28	104	103	1	75-125			1	20



Method Blank (MB)

(MB) 07/30/15 11:18

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Benzene	ND		0.000500
Toluene	ND		0.00500
Ethylbenzene	ND		0.000500
Total Xylene	ND		0.00150
TPH (GC/FID) Low Fraction	ND		0.100
(S) a,a,a-Trifluorotoluene(FID)	95.3		59.0-128
(S) a,a,a-Trifluorotoluene(PID)	103		54.0-144

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 07/30/15 08:50 • (LCSD) 07/30/15 09:15

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	6.12	6.34	111	115	63.5-137			3.58	20
(S) a,a,a-Trifluorotoluene(FID)				103	104	59.0-128				

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 07/30/15 10:04 • (LCSD) 07/30/15 10:29

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	0.0472	0.0477	94.4	95.4	70.0-130			1.01	20
Toluene	0.0500	0.0470	0.0471	93.9	94.1	70.0-130			0.210	20
Ethylbenzene	0.0500	0.0485	0.0481	96.9	96.2	70.0-130			0.720	20
Total Xylene	0.150	0.146	0.145	97.0	96.8	70.0-130			0.240	20
(S) a,a,a-Trifluorotoluene(PID)				101	101	54.0-144				

L779373-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 07/30/15 12:55 • (MS) 07/30/15 16:12 • (MSD) 07/30/15 16:37

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	0.357	24.0	24.9	85.8	89.4	5	28.5-138			4.05	23.6
(S) a,a,a-Trifluorotoluene(FID)					100	101		59.0-128				
(S) a,a,a-Trifluorotoluene(PID)					106	106		54.0-144				



L779373-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 07/30/15 12:55 • (MS) 07/30/15 17:01 • (MSD) 07/30/15 17:26

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	ND	0.218	0.226	87.4	90.3	5	49.7-127			3.28	23.5
Toluene	0.0500	0.0135	0.213	0.221	79.7	82.8	5	49.8-132			3.60	23.5
Ethylbenzene	0.0500	ND	0.211	0.221	84.3	88.3	5	40.8-141			4.66	23.8
Total Xylene	0.150	0.00120	0.632	0.660	84.1	87.8	5	41.2-140			4.34	23.7
(S) a,a,a-Trifluorotoluene(FID)					93.6	93.5		59.0-128				
(S) a,a,a-Trifluorotoluene(PID)					100	99.6		54.0-144				

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

WG806098

Semi-Volatile Organic Compounds (GC) by Method 3546/DRO

QUALITY CONTROL SUMMARY

[L779373-01,02,03,04](#)

ONE LAB. NATIONWIDE.



Method Blank (MB)

(MB) 08/03/15 23:38

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
TPH (GC/FID) High Fraction	ND		4.00
(S) o-Terphenyl	75.5		50.0-150

Cp

Tc

Ss

Cn

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 08/03/15 23:49 • (LCSD) 08/04/15 00:00

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	60.0	32.3	39.8	53.8	66.3	50.0-150		J3	20.9	20
(S) o-Terphenyl				61.9	74.3	50.0-150				

Sr

Qc

Gl

Al

Sc



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey-NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio-VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
Canada	1461.01	DOD	1461.01
EPA-Crypto	TN00003	USDA	S-67674

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L 779373

Table 910-1		AH Jones 1			
CONCENTRATION LEVELS					
Contaminant of Concern	Concentrations	Background Sample 1 (BG1)	Background Sample 2 (BG2)	Background Range	Discrete Sample (S1)
	Below detection level-BDL				Discrete Sample (S2)
Organic Compounds in Soil					
TPH (total volatile & extractable petroleum)	500mg/kg				
Benzene	0.17 mg/kg				
Toluene	85 mg/kg				
Ethylbenzene	100mg/kg				
Xylenes (total)	175 mg/kg				
Inorganics in Soils					
Electrical Conductivity (EC)	<4 mmhos/cm or 2x background				
Sodium Adsorption Ratio (SAR)	<12				
pH	6.0-9.0				
Metals in Soils					
Arsenic	0.39 mg/kg				
Barium (LDNR True Total Barium)	15,000 mg/kg				
Boron (TCLP)	2 mg/l				
Cadmium	70 mg/kg				
Chromium (III)	120,000 mg/kg				
Chromium (VI)	23 mg/kg				
Copper	3,100 mg/kg				
Lead (inorganic)	400 mg/kg				
Mercury	23 mg/kg				
Nickel (soluble salts)	1,500 mg/kg				
Selenium	390 mg/kg				
Silver	390 mg/kg				
Zinc	23,000 mg/kg				

05-067-05300
Lat. 37.07798
Long. -107.58325
Sec. Twn. Rng. 26-33N-7W N PM
La Plata County
Colorado



Background Sample (BG2)-
DURLH-072815-1015

X

Background Sample (BG1)-
DURLH-072815-1000

X

AH Jones 1

O

Fill

Separator

MR

BGT Cellar Discrete Sample 2
DURLH-072815-945

BGT Cellar Discrete Sample 1
DURLH-072815-930

X
X





Area: Auto ▾

Feet

aps

Add



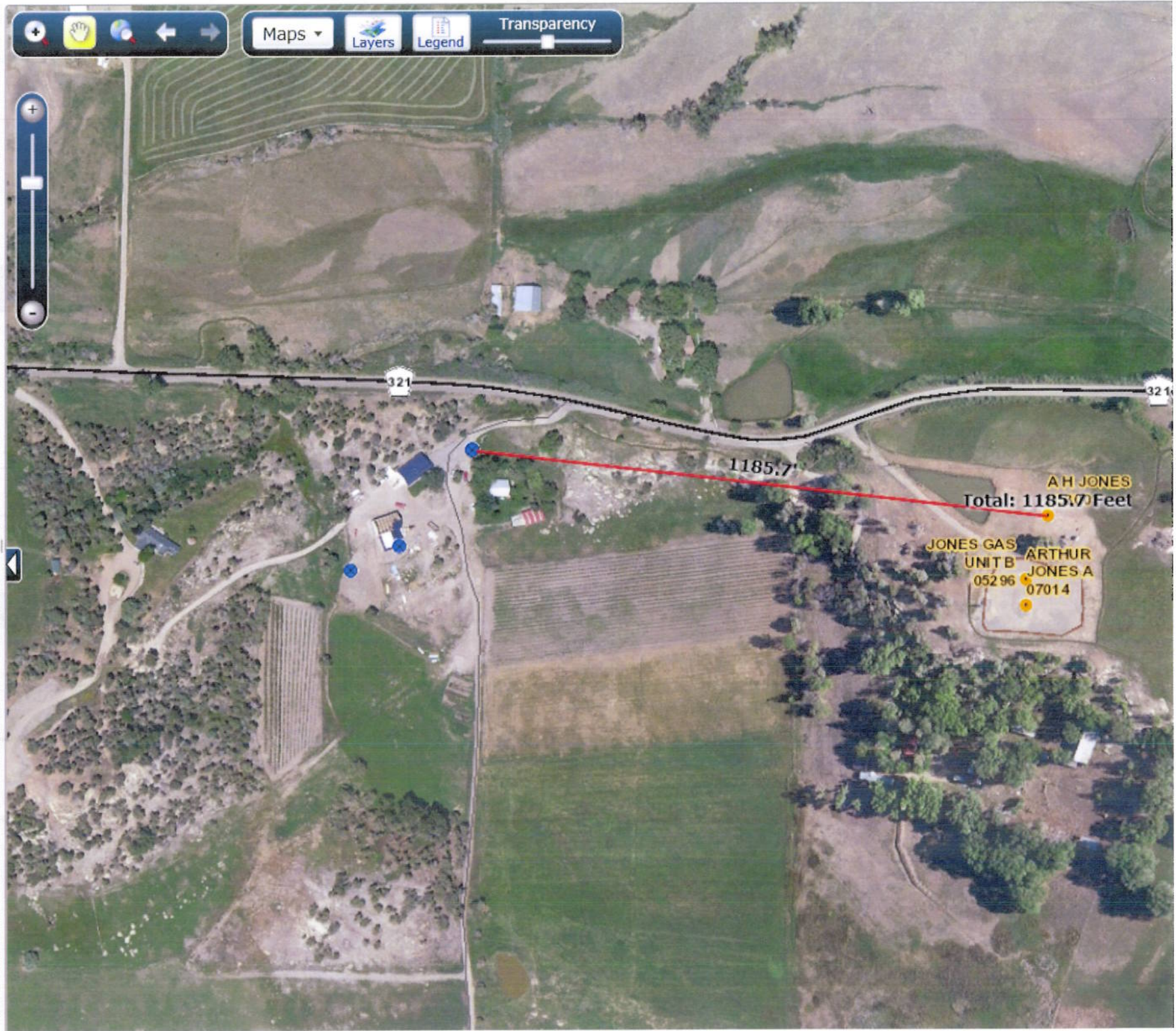
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Add



Area of Interest (AOI)

Soil Map

Soil Data Explorer

Download Soils Data

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Map Unit Legend

La Plata County Area, Colorado (CO669)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
76	Witt loam, 3 to 8 percent slopes	1.4	89.2%
82	Zyme-Rock outcrop complex, 12 to 65 percent slopes	0.2	10.8%
Totals for Area of Interest		1.5	100.0%

Soil Map



Measure and Draw

Measure Draw

☒ Label all measurements

Double-click on the map to finish a line or shape.

Units - Length: Auto Area: Auto

Radius: 2644.8 Feet
Area: 504.47 Acres

☒ Bottom Hole Locations

- ☐ Directionally Drilled Wells
- ☐ Fruitland Drilling Windows
- ☐ Dakota Drilling Windows
- ☐ Mesa Verde Drilling Windows
- ☐ Fruitland/Pictured Cliffs Contact
- ☐ Fruitland/Pictured Cliffs Buffer
- ☐ 80 Acre Infill Areas
- ☐ Parcel Information
- ☐ FEMA Floodplain

My Custom Maps

Name: Add

☒ Preserve map location

