



1941 Reymet Road • Richmond, Virginia 23237 • Tel: (804)-358-8295 Fax: (804)-358-8297

Certificate of Analysis

Final Report

Laboratory Order ID 17K0837

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro, GA 30830

Date Received: November 28, 2017 9:48
Date Issued: December 13, 2017 15:05
Project Number: R15434R-12
Purchase Order:

Submitted To: Thomas Liesfeld

Client Site I.D.: NKWP Confirmatory Sampling

Enclosed are the results of analyses for samples received by the laboratory on 11/28/2017 09:48. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

A handwritten signature in black ink that reads "Ted Soyars".

Ted Soyars
Laboratory Manager

End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

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Date Issued: 12/13/2017 15:05

Submitted To: Thomas Liesfeld
Client Site I.D.: NKWP Confirmatory Sampling

Project Number: R15434R-12
Purchase Order:

ANALYTICAL REPORT FOR SAMPLES

Laboratory Order ID 17K0837

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EA1-SW1-12	17K0837-01	Soil	11/27/2017 14:25	11/28/2017 09:48
EA1-SW1-24	17K0837-02	Soil	11/27/2017 14:30	11/28/2017 09:48
EA1-SW2-12	17K0837-03	Soil	11/27/2017 14:50	11/28/2017 09:48
EA1-SW2-24	17K0837-04	Soil	11/27/2017 14:55	11/28/2017 09:48
EA1-SW3-12	17K0837-05	Soil	11/27/2017 15:15	11/28/2017 09:48
EA1-SW3-24	17K0837-06	Soil	11/27/2017 15:10	11/28/2017 09:48
EA1-SW4-12	17K0837-07	Soil	11/27/2017 15:25	11/28/2017 09:48
EA1-SW4-24	17K0837-08	Soil	11/27/2017 15:20	11/28/2017 09:48
EA1-SW5-12	17K0837-09	Soil	11/27/2017 15:55	11/28/2017 09:48
EA1-SW5-24	17K0837-10	Soil	11/27/2017 16:00	11/28/2017 09:48
EA1-SW6-12	17K0837-11	Soil	11/27/2017 16:20	11/28/2017 09:48
EA1-SW6-24	17K0837-12	Soil	11/27/2017 16:25	11/28/2017 09:48
EA1-SW7-12	17K0837-13	Soil	11/27/2017 16:30	11/28/2017 09:48
EA1-SW7-24	17K0837-14	Soil	11/27/2017 16:35	11/28/2017 09:48
EA1-SW8-12	17K0837-15	Soil	11/27/2017 16:40	11/28/2017 09:48
EA1-SW8-24	17K0837-16	Soil	11/27/2017 16:42	11/28/2017 09:48
EA1-SW9-12	17K0837-17	Soil	11/27/2017 16:50	11/28/2017 09:48
EA1-SW9-24	17K0837-18	Soil	11/27/2017 16:55	11/28/2017 09:48
EA1-SW10-12	17K0837-19	Soil	11/27/2017 17:00	11/28/2017 09:48
EA1-SW10-24	17K0837-20	Soil	11/27/2017 17:05	11/28/2017 09:48



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Date Issued: 12/13/2017 15:05

Submitted To: Thomas Liesfeld

Project Number: R15434R-12

Client Site I.D.: NKWP Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0837

Analytical Results

Sample I.D. EA1-SW1-12

Laboratory Sample ID: 17K0837-01

Grab Date/Time: 11/27/2017 14:25

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	01RE2	SW7010	96.8 mg/kg dry		54.2	100	12/01/17 10:20	12/05/17 12:06	RCV
Chromium	01	SW7010	115 mg/kg dry	E	54.2	1000	12/01/17 10:20	12/08/17 15:06	RCV
Wet Chemistry Analysis									
Percent Solids	01	SM18 2540G	91.7 %		0.10	1	11/28/17 15:32	11/28/17 15:32	JCM



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Project Number: R15434R-12

Client Site I.D.: NKWP Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0837

Analytical Results

Sample I.D. EA1-SW1-24

Laboratory Sample ID: 17K0837-02

Grab Date/Time: 11/27/2017 14:30

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	02	SW7010	<10.4 mg/kg dry		10.4	20	12/01/17 10:20	12/04/17 16:43	AA
Chromium	02	SW7010	7.63 mg/kg dry	E	1.04	20	12/01/17 10:20	12/07/17 11:53	RCV
Wet Chemistry Analysis									
Percent Solids	02	SM18 2540G	92.8 %		0.10	1	11/28/17 15:32	11/28/17 15:32	JCM



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Project Number: R15434R-12
Purchase Order:

Laboratory Order ID: 17K0837

Analytical Results

Sample I.D. EA1-SW2-12

Laboratory Sample ID: 17K0837-03

Grab Date/Time: 11/27/2017 14:50

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	03	SW7010	39.9 mg/kg dry		10.4	20	12/01/17 10:20	12/04/17 16:49	AA
Chromium	03	SW7010	41.3 mg/kg dry	E	5.22	100	12/01/17 10:20	12/07/17 23:18	RCV
Wet Chemistry Analysis									
Percent Solids	03	SM18 2540G	92.3 %		0.10	1	11/28/17 15:32	11/28/17 15:32	JCM



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Purchase Order:

Laboratory Order ID: 17K0837

Analytical Results

Sample I.D. EA1-SW2-24

Laboratory Sample ID: 17K0837-04

Grab Date/Time: 11/27/2017 14:55

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	04	SW7010	<10.3 mg/kg dry		10.3	20	12/01/17 10:20	12/04/17 16:55	AA
Chromium	04	SW7010	<5.15 mg/kg dry	E	5.15	100	12/01/17 10:20	12/07/17 23:38	RCV
Wet Chemistry Analysis									
Percent Solids	04	SM18 2540G	93.7 %		0.10	1	11/28/17 15:32	11/28/17 15:32	JCM



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Purchase Order:

Laboratory Order ID: 17K0837

Analytical Results

Sample I.D. EA1-SW3-12

Laboratory Sample ID: 17K0837-05

Grab Date/Time: 11/27/2017 15:15

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	05RE1	SW7010	74.7 mg/kg dry		25.7	50	12/01/17 10:20	12/05/17 12:12	RCV
Chromium	05	SW7010	74.4 mg/kg dry	E	51.5	1000	12/01/17 10:20	12/08/17 12:53	RCV
Wet Chemistry Analysis									
Percent Solids	05	SM18 2540G	92.7 %		0.10	1	11/28/17 15:32	11/28/17 15:32	JCM



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Laboratory Order ID: 17K0837

Analytical Results

Sample I.D. EA1-SW3-24

Laboratory Sample ID: 17K0837-06

Grab Date/Time: 11/27/2017 15:10

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	06	SW7010	<10.0 mg/kg dry		10.0	20	12/01/17 10:20	12/04/17 17:11	AA
Chromium	06	SW7010	7.80 mg/kg dry	E	1.00	20	12/01/17 10:20	12/07/17 12:35	RCV
Wet Chemistry Analysis									
Percent Solids	06	SM18 2540G	94.2 %		0.10	1	11/28/17 15:32	11/28/17 15:32	JCM



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Project Number: R15434R-12
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Laboratory Order ID: 17K0837

Analytical Results

Sample I.D. EA1-SW4-12

Laboratory Sample ID: 17K0837-07

Grab Date/Time: 11/27/2017 15:25

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	07	SW7010	31.0 mg/kg dry		10.3	20	12/01/17 10:20	12/04/17 17:17	AA
Chromium	07	SW7010	42.7 mg/kg dry	E	5.15	100	12/01/17 10:20	12/07/17 23:54	RCV
Wet Chemistry Analysis									
Percent Solids	07	SM18 2540G	90.8 %		0.10	1	11/28/17 15:32	11/28/17 15:32	JCM



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Purchase Order:

Laboratory Order ID: 17K0837

Analytical Results

Sample I.D. EA1-SW4-24

Laboratory Sample ID: 17K0837-08

Grab Date/Time: 11/27/2017 15:20

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	08	SW7010	<0.500 mg/kg dry		0.500	1	12/01/17 10:20	12/04/17 17:23	AA
Chromium	08	SW7010	4.29 mg/kg dry	E	0.776	20	12/01/17 10:20	12/07/17 12:51	RCV
Wet Chemistry Analysis									
Percent Solids	08	SM18 2540G	94.7 %		0.10	1	11/28/17 15:32	11/28/17 15:32	JCM



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Laboratory Order ID: 17K0837

Analytical Results

Sample I.D. EA1-SW5-12

Laboratory Sample ID: 17K0837-09

Grab Date/Time: 11/27/2017 15:55

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	09	SW7010	25.9 mg/kg dry		10.3	20	12/01/17 10:20	12/04/17 17:29	AA
Chromium	09	SW7010	35.2 mg/kg dry	E	5.16	100	12/01/17 10:20	12/08/17 00:00	RCV
Wet Chemistry Analysis									
Percent Solids	09	SM18 2540G	91.0 %		0.10	1	11/28/17 15:32	11/28/17 15:32	JCM



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Laboratory Order ID: 17K0837

Analytical Results

Sample I.D. EA1-SW5-24

Laboratory Sample ID: 17K0837-10

Grab Date/Time: 11/27/2017 16:00

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	10	SW7010	<9.80 mg/kg dry		9.80	20	12/01/17 10:20	12/04/17 17:36	AA
Chromium	10	SW7010	4.87 mg/kg dry	E	0.980	20	12/01/17 10:20	12/07/17 13:07	RCV
Wet Chemistry Analysis									
Percent Solids	10	SM18 2540G	95.4 %		0.10	1	11/28/17 15:32	11/28/17 15:32	JCM



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Laboratory Order ID: 17K0837

Analytical Results

Sample I.D. EA1-SW6-12

Laboratory Sample ID: 17K0837-11

Grab Date/Time: 11/27/2017 16:20

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	11RE1	SW7010	57.5 mg/kg dry		26.0	50	12/01/17 10:20	12/05/17 13:28	RCV
Chromium	11	SW7010	115 mg/kg dry	E	51.9	1000	12/01/17 10:20	12/08/17 15:13	RCV
Wet Chemistry Analysis									
Percent Solids	11	SM18 2540G	95.6 %		0.10	1	11/28/17 15:32	11/28/17 15:32	JCM



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Laboratory Order ID: 17K0837

Analytical Results

Sample I.D. EA1-SW6-24

Laboratory Sample ID: 17K0837-12

Grab Date/Time: 11/27/2017 16:25

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	12	SW7010	<10.1 mg/kg dry		10.1	20	12/01/17 10:20	12/04/17 18:15	AA
Chromium	12	SW7010	3.70 mg/kg dry	E	1.01	20	12/01/17 10:20	12/12/17 13:02	RCV
Wet Chemistry Analysis									
Percent Solids	12	SM18 2540G	93.7 %		0.10	1	11/28/17 15:32	11/28/17 15:32	JCM



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Laboratory Order ID: 17K0837

Analytical Results

Sample I.D. EA1-SW7-12

Laboratory Sample ID: 17K0837-13

Grab Date/Time: 11/27/2017 16:30

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	13	SW7010	40.3 mg/kg dry		10.2	20	12/01/17 10:20	12/04/17 18:22	AA
Chromium	13	SW7010	42.1 mg/kg dry	E	5.12	100	12/01/17 10:20	12/08/17 11:48	RCV
Wet Chemistry Analysis									
Percent Solids	13	SM18 2540G	94.4 %		0.10	1	11/28/17 15:32	11/28/17 15:32	JCM



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Analytical Results

Sample I.D. EA1-SW7-24

Laboratory Sample ID: 17K0837-14

Grab Date/Time: 11/27/2017 16:35

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	14	SW7010	<11.0 mg/kg dry		11.0	20	12/01/17 10:20	12/04/17 18:28	AA
Chromium	14	SW7010	5.78 mg/kg dry	E	1.10	20	12/01/17 10:20	12/07/17 14:34	RCV
Wet Chemistry Analysis									
Percent Solids	14	SM18 2540G	89.5 %		0.10	1	11/28/17 15:32	11/28/17 15:32	JCM



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Analytical Results

Sample I.D. EA1-SW8-12

Laboratory Sample ID: 17K0837-15

Grab Date/Time: 11/27/2017 16:40

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	15	SW7010	<9.82 mg/kg dry		9.82	20	12/01/17 10:20	12/04/17 18:34	AA
Chromium	15RE1	SW7010	9.06 mg/kg dry	E	2.46	50	12/01/17 10:20	12/08/17 11:55	RCV
Wet Chemistry Analysis									
Percent Solids	15	SM18 2540G	94.3 %		0.10	1	11/28/17 15:32	11/28/17 15:32	JCM



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Analytical Results

Sample I.D. EA1-SW8-24

Laboratory Sample ID: 17K0837-16

Grab Date/Time: 11/27/2017 16:42

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	16	SW7010	<10.2 mg/kg dry		10.2	20	12/01/17 10:20	12/04/17 18:40	AA
Chromium	16	SW7010	5.10 mg/kg dry	E	1.02	20	12/01/17 10:20	12/07/17 14:46	RCV
Wet Chemistry Analysis									
Percent Solids	16	SM18 2540G	88.9 %		0.10	1	11/29/17 16:40	11/29/17 16:40	JCM



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Laboratory Order ID: 17K0837

Analytical Results

Sample I.D. EA1-SW9-12

Laboratory Sample ID: 17K0837-17

Grab Date/Time: 11/27/2017 16:50

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	17	SW7010	17.0 mg/kg dry		10.1	20	12/01/17 10:20	12/04/17 18:46	AA
Chromium	17	SW7010	4.99 mg/kg dry	E	1.01	20	12/01/17 10:20	12/07/17 14:56	RCV
Wet Chemistry Analysis									
Percent Solids	17	SM18 2540G	93.7 %		0.10	1	11/29/17 16:40	11/29/17 16:40	JCM



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Laboratory Order ID: 17K0837

Analytical Results

Sample I.D. EA1-SW9-24

Laboratory Sample ID: 17K0837-18

Grab Date/Time: 11/27/2017 16:55

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	18	SW7010	<10.6 mg/kg dry		10.6	20	12/01/17 10:20	12/04/17 19:03	AA
Chromium	18	SW7010	5.22 mg/kg dry	E	1.06	20	12/01/17 10:20	12/07/17 15:02	RCV
Wet Chemistry Analysis									
Percent Solids	18	SM18 2540G	88.3 %		0.10	1	11/29/17 16:40	11/29/17 16:40	JCM



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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro GA, 30830

Date Issued: 12/13/2017 15:05

Submitted To: Thomas Liesfeld
Client Site I.D.: NKWP Confirmatory Sampling

Project Number: R15434R-12
Purchase Order:

Laboratory Order ID: 17K0837

Analytical Results

Sample I.D. EA1-SW10-12

Laboratory Sample ID: 17K0837-19

Grab Date/Time: 11/27/2017 17:00

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	19	SW7010	14.3 mg/kg dry		10.7	20	12/01/17 10:20	12/04/17 19:10	AA
Chromium	19	SW7010	18.8 mg/kg dry	E	2.68	50	12/01/17 10:20	12/08/17 12:01	RCV
Wet Chemistry Analysis									
Percent Solids	19	SM18 2540G	90.1 %		0.10	1	11/29/17 16:40	11/29/17 16:40	JCM



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Client Name: Thomas Liesfeld
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Waynesboro GA, 30830

Date Issued: 12/13/2017 15:05

Submitted To: Thomas Liesfeld

Project Number: R15434R-12

Client Site I.D.: NKWP Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0837

Analytical Results

Sample I.D. EA1-SW10-24

Laboratory Sample ID: 17K0837-20

Grab Date/Time: 11/27/2017 17:05

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	20	SW7010	<10.3 mg/kg dry		10.3	20	12/01/17 10:20	12/04/17 19:16	AA
Chromium	20	SW7010	0.300 mg/kg dry	E	0.052	1	12/01/17 10:20	12/07/17 15:32	RCV
Wet Chemistry Analysis									
Percent Solids	20	SM18 2540G	90.5 %		0.10	1	11/29/17 16:40	11/29/17 16:40	JCM



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Certificate of Analysis

Final Report

Client Name:	Thomas Liesfeld 859 Ben Hatcher Rd Waynesboro GA, 30830	Date Issued:	12/13/2017 15:05
Submitted To:	Thomas Liesfeld	Project Number:	R15434R-12
Client Site I.D.:	NKWP Confirmatory Sampling	Purchase Order:	

Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Wet Chemistry Analysis		Preparation Method:	No Prep Wet Chem		
17K0837-01	1.00 g / 1.00 mL	SM18 2540G	BAK0855	SAK0797	
17K0837-02	1.00 g / 1.00 mL	SM18 2540G	BAK0855	SAK0797	
17K0837-03	1.00 g / 1.00 mL	SM18 2540G	BAK0855	SAK0797	
17K0837-04	1.00 g / 1.00 mL	SM18 2540G	BAK0855	SAK0797	
17K0837-05	1.00 g / 1.00 mL	SM18 2540G	BAK0855	SAK0797	
17K0837-06	1.00 g / 1.00 mL	SM18 2540G	BAK0855	SAK0797	
17K0837-07	1.00 g / 1.00 mL	SM18 2540G	BAK0855	SAK0797	
17K0837-08	1.00 g / 1.00 mL	SM18 2540G	BAK0855	SAK0797	
17K0837-09	1.00 g / 1.00 mL	SM18 2540G	BAK0855	SAK0797	
17K0837-10	1.00 g / 1.00 mL	SM18 2540G	BAK0855	SAK0797	
17K0837-11	1.00 g / 1.00 mL	SM18 2540G	BAK0855	SAK0797	
17K0837-12	1.00 g / 1.00 mL	SM18 2540G	BAK0855	SAK0797	
17K0837-13	1.00 g / 1.00 mL	SM18 2540G	BAK0855	SAK0797	
17K0837-14	1.00 g / 1.00 mL	SM18 2540G	BAK0855	SAK0797	
17K0837-15	1.00 g / 1.00 mL	SM18 2540G	BAK0855	SAK0797	
Wet Chemistry Analysis		Preparation Method:	No Prep Wet Chem		
17K0837-16	1.00 g / 1.00 mL	SM18 2540G	BAK0867	SAL0031	
17K0837-17	1.00 g / 1.00 mL	SM18 2540G	BAK0867	SAL0031	
17K0837-18	1.00 g / 1.00 mL	SM18 2540G	BAK0867	SAL0031	
17K0837-19	1.00 g / 1.00 mL	SM18 2540G	BAK0867	SAL0031	
17K0837-20	1.00 g / 1.00 mL	SM18 2540G	BAK0867	SAL0031	
Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 6000/7000 Series Methods		Preparation Method:	SW3050B-AA		
17K0837-01	1.01 g / 50.0 mL	SW7010	BAL0077	SAL0058	AL70010
17K0837-01	1.01 g / 50.0 mL	SW7010	BAL0077	SAL0297	AL70060
17K0837-01RE1	1.01 g / 50.0 mL	SW7010	BAL0077	SAL0058	AL70010
17K0837-01RE2	1.01 g / 50.0 mL	SW7010	BAL0077	SAL0127	AL70024
17K0837-02	1.04 g / 50.0 mL	SW7010	BAL0077	SAL0058	AL70010
17K0837-02	1.04 g / 50.0 mL	SW7010	BAL0077	SAL0195	AL70043
17K0837-03	1.04 g / 50.0 mL	SW7010	BAL0077	SAL0058	AL70010



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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld
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Date Issued: 12/13/2017 15:05

Submitted To: Thomas Liesfeld

Project Number: R15434R-12

Client Site I.D.: NKWP Confirmatory Sampling

Purchase Order:

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
17K0837-03	1.04 g / 50.0 mL	SW7010	BAL0077	SAL0211	AL70047
17K0837-04	1.04 g / 50.0 mL	SW7010	BAL0077	SAL0058	AL70010
17K0837-04	1.04 g / 50.0 mL	SW7010	BAL0077	SAL0211	AL70047
17K0837-05	1.05 g / 50.0 mL	SW7010	BAL0077	SAL0058	AL70010
17K0837-05	1.05 g / 50.0 mL	SW7010	BAL0077	SAL0297	AL70060
17K0837-05RE1	1.05 g / 50.0 mL	SW7010	BAL0077	SAL0127	AL70024
17K0837-06	1.06 g / 50.0 mL	SW7010	BAL0077	SAL0058	AL70010
17K0837-06	1.06 g / 50.0 mL	SW7010	BAL0077	SAL0195	AL70043
17K0837-07	1.07 g / 50.0 mL	SW7010	BAL0077	SAL0058	AL70010
17K0837-07	1.07 g / 50.0 mL	SW7010	BAL0077	SAL0211	AL70047
17K0837-08	1.36 g / 50.0 mL	SW7010	BAL0077	SAL0058	AL70010
17K0837-08	1.36 g / 50.0 mL	SW7010	BAL0077	SAL0195	AL70043
17K0837-09	1.07 g / 50.0 mL	SW7010	BAL0077	SAL0058	AL70010
17K0837-09	1.07 g / 50.0 mL	SW7010	BAL0077	SAL0211	AL70047
17K0837-10	1.07 g / 50.0 mL	SW7010	BAL0077	SAL0058	AL70010
17K0837-10	1.07 g / 50.0 mL	SW7010	BAL0077	SAL0195	AL70043
17K0837-11	1.01 g / 50.0 mL	SW7010	BAL0077	SAL0058	AL70010
17K0837-11	1.01 g / 50.0 mL	SW7010	BAL0077	SAL0297	AL70060
17K0837-11RE1	1.01 g / 50.0 mL	SW7010	BAL0077	SAL0127	AL70024
17K0837-12	1.06 g / 50.0 mL	SW7010	BAL0077	SAL0058	AL70010
17K0837-12	1.06 g / 50.0 mL	SW7010	BAL0077	SAL0344	AL70070
17K0837-13	1.03 g / 50.0 mL	SW7010	BAL0077	SAL0058	AL70010
17K0837-13	1.03 g / 50.0 mL	SW7010	BAL0077	SAL0297	AL70060
17K0837-14	1.01 g / 50.0 mL	SW7010	BAL0077	SAL0058	AL70010
17K0837-14	1.01 g / 50.0 mL	SW7010	BAL0077	SAL0195	AL70043
17K0837-15	1.08 g / 50.0 mL	SW7010	BAL0077	SAL0058	AL70010
17K0837-15	1.08 g / 50.0 mL	SW7010	BAL0077	SAL0195	AL70043
17K0837-15RE1	1.08 g / 50.0 mL	SW7010	BAL0077	SAL0297	AL70060
17K0837-16	1.10 g / 50.0 mL	SW7010	BAL0077	SAL0058	AL70010
17K0837-16	1.10 g / 50.0 mL	SW7010	BAL0077	SAL0195	AL70043
17K0837-17	1.06 g / 50.0 mL	SW7010	BAL0077	SAL0058	AL70010
17K0837-17	1.06 g / 50.0 mL	SW7010	BAL0077	SAL0195	AL70043
17K0837-18	1.07 g / 50.0 mL	SW7010	BAL0077	SAL0058	AL70010
17K0837-18	1.07 g / 50.0 mL	SW7010	BAL0077	SAL0195	AL70043
17K0837-19	1.04 g / 50.0 mL	SW7010	BAL0077	SAL0058	AL70010
17K0837-19	1.04 g / 50.0 mL	SW7010	BAL0077	SAL0297	AL70060



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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
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Date Issued: 12/13/2017 15:05

Submitted To: Thomas Liesfeld
Client Site I.D.: NKWP Confirmatory Sampling

Project Number: R15434R-12
Purchase Order:

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
17K0837-20	1.07 g / 50.0 mL	SW7010	BAL0077	SAL0058	AL70010
17K0837-20	1.07 g / 50.0 mL	SW7010	BAL0077	SAL0195	AL70043



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 859 Ben Hatcher Rd
 Waynesboro GA, 30830
 Submitted To: Thomas Liesfeld Project Number: R15434R-12
 Client Site I.D.: NKWP Confirmatory Sampling Purchase Order:

Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limit	RPD	RPD Limit	Qual
Batch BAL0077 - SW3050B-AA										
Blank (BAL0077-BLK2)				Prepared: 12/01/2017 Analyzed: 12/07/2017						
Chromium	0.132 mg/kg wet	0.050	mg/kg wet							B, E
LCS (BAL0077-BS2)				Prepared: 12/01/2017 Analyzed: 12/07/2017						
Chromium	89.3 mg/kg wet	45.8	mg/kg wet	91.7	mg/kg wet	97.4	80-120			E
LCS Dup (BAL0077-BSD2)				Prepared: 12/01/2017 Analyzed: 12/07/2017						
Chromium	93.6 mg/kg wet	45.9	mg/kg wet	91.8	mg/kg wet	102	80-120	4.77	20	E
Matrix Spike (BAL0077-MS1)				Source: 17K0837-10 Prepared: 12/01/2017 Analyzed: 12/04/2017						
Arsenic	103 mg/kg dry	52.2	mg/kg dry	104	<52.2 mg/kg dry	98.3	75-125			
Matrix Spike (BAL0077-MS2)				Source: 17K0837-20 Prepared: 12/01/2017 Analyzed: 12/04/2017						
Arsenic	101 mg/kg dry	53.0	mg/kg dry	106	<53.0 mg/kg dry	95.6	75-125			
Matrix Spike (BAL0077-MS3)				Source: 17K0837-10 Prepared: 12/01/2017 Analyzed: 12/07/2017						
Chromium	115 mg/kg dry	52.2	mg/kg dry	104	<52.2 mg/kg dry	110	75-125			E
Matrix Spike (BAL0077-MS4)				Source: 17K0837-20 Prepared: 12/01/2017 Analyzed: 12/07/2017						
Chromium	109 mg/kg dry	53.0	mg/kg dry	106	<53.0 mg/kg dry	103	75-125			E
Matrix Spike Dup (BAL0077-MSD1)				Source: 17K0837-10 Prepared: 12/01/2017 Analyzed: 12/04/2017						
Arsenic	103 mg/kg dry	52.2	mg/kg dry	104	<52.2 mg/kg dry	98.3	75-125	0.0511	20	
Matrix Spike Dup (BAL0077-MSD2)				Source: 17K0837-20 Prepared: 12/01/2017 Analyzed: 12/04/2017						
Arsenic	99.9 mg/kg dry	53.0	mg/kg dry	106	<53.0 mg/kg dry	94.3	75-125	1.36	20	
Matrix Spike Dup (BAL0077-MSD3)				Source: 17K0837-10 Prepared: 12/01/2017 Analyzed: 12/07/2017						
Chromium	115 mg/kg dry	52.2	mg/kg dry	104	<52.2 mg/kg dry	110	75-125	0.412	20	E



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 859 Ben Hatcher Rd
 Waynesboro GA, 30830
 Submitted To: Thomas Liesfeld Project Number: R15434R-12
 Client Site I.D.: NKWP Confirmatory Sampling Purchase Order:

Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAL0077 - SW3050B-AA

Matrix Spike Dup (BAL0077-MSD4)

Source: 17K0837-20

Prepared: 12/01/2017 Analyzed: 12/07/2017

Chromium	109 mg/kg dry	53.0	mg/kg dry	106	<53.0 mg/kg dry	103	75-125	0.182	20	E
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Wet Chemistry Analysis - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0855 - No Prep Wet Chem

Blank (BAK0855-BLK1)		Prepared & Analyzed: 11/28/2017								
Percent Solids	100 %	0.10	%							
Duplicate (BAK0855-DUP1)		Source: 17K0837-05		Prepared & Analyzed: 11/28/2017						
Percent Solids	91.6 %	0.10	%		92.7 %			1.22	20	
Duplicate (BAK0855-DUP2)		Source: 17K0837-15		Prepared & Analyzed: 11/28/2017						
Percent Solids	94.0 %	0.10	%		94.3 %			0.248	20	

Batch BAK0867 - No Prep Wet Chem

Blank (BAK0867-BLK1)		Prepared & Analyzed: 11/29/2017								
Percent Solids	100 %	0.10	%							
Duplicate (BAK0867-DUP1)		Source: 17K0849-03		Prepared & Analyzed: 11/29/2017						
Percent Solids	88.7 %	0.10	%		89.0 %			0.307	20	
Duplicate (BAK0867-DUP2)		Source: 17K0890-10		Prepared & Analyzed: 11/29/2017						
Percent Solids	95.5 %	0.10	%		95.3 %			0.213	20	



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Waynesboro GA, 30830
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Client Site I.D.: NKWP Confirmatory Sampling Purchase Order:

Certified Analyses included in this Report

Analyte		Certifications	
SW7010 in Solids			
Arsenic		VELAP	
Chromium		VELAP	
Code	Description	Lab Number	Expires
MdDOE	Maryland DE Drinking Water	341	12/31/2018
NC	North Carolina DENR	495	12/31/2017
VELAP	NELAC-Virginia Certificate #9475	460021	06/14/2018
WVDEP	West Virginia DEP	350	11/30/2018



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Submitted To:	Thomas Liesfeld	Project Number:	R15434R-12
Client Site I.D.:	NKWP Confirmatory Sampling	Purchase Order:	

Summary of Data Qualifiers

B Blank contamination. The recorded result is associated with a contaminated blank.

E Estimated concentration, outside calibration range

RPD Relative Percent Difference

Qual Qualifiers

-RE Denotes sample was re-analyzed

D.F. Dilution Factor. Please also see the Preparation Factor in the Analysis Summary section.

TIC Tentatively Identified Compounds are compounds that are identified by comparing the analyte mass spectral pattern with the NIST spectral library .
A TIC spectral match is reported when the pattern is at least 75% consistent with the published pattern. Compound concentrations are estimated and are calculated using an internal standard response factor of 1.

PCBs, Total Total PCBs are defined as the sum of detected Aroclors 1016, 1221, 1232, 1248, 1254, 1260, 1262, and 1268.

CHAIN OF CUSTODY

CLIENT: LIESFELD FARMS				CONSULTANT: DRAPER ADEN ASSOCIATES				COPY COA TO CONSULTANT? YES				
ATTN: THOMAS LIESFELD				ATTN: WILLIAM A SALOMONE (WSALOMONE@DAA.COM)				COPY INVOICE TO CONSULTANT? YES				
STREET: 859 BEN HATCHER ROAD				STREET: 8090 VILLA PARK DRIVE				PROJECT: NKWP / CONFIRMATORY SAMPLING				
CITY: WAYNESBORO, GA 30830				CITY: RICHMOND, VIRGINIA 23228				LOCATION: PROVIDENCE FORGE, VIRGINIA				
PHONE: 804-833-4286				PHONE: 804-264-2228				LABORATORY: AIR, WATER, & SOIL LABORATORIES				
TURN AROUND: <u>2</u> <u>3</u> <u>5</u> <u>10</u> DAYS				P.O. #: R15434R-12				ANALYSES REQUESTED				
LAB USE ONLY SAMPLE INFORMATION <i>has</i>				COMPOSITE	Grab	NO. OF JARS	MATRIX	Metals (As, Cr)				COMMENTS (SAMPLING INTERVAL)
LAB ID	SAMPLE ID	DATE	TIME									
	EAI-SW1-12	11/27	1425		X	1	S					
	EAI-SW1-24		1430		X	1	S					
	EAI-SW2-12		1450		X	1	S					
	EAI-SW2-24		1455		X	1	S					
	EAI-SW3-12		1515		X	1	S					
	EAI-SW3-24		1510		X	1	S					
	EAI-SW4-12		1525		X	1	S					
	EAI-SW4-24		1520		X	1	S					
SAMPLED BY:				PRINTED NAME:				Level 2 data package. Please report all concentrations in mg/kg (dry weight). All dry weight analyses shall be total analysis.				
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		DATE						
Kendall Dunham		11/27	1625	W A Salomone		11/27		1625				
W A Salomone		11/28	0948	[Signature]		28 NOV 2017		0948				
TEMP: 35°C		pH:		CONTENTS: A = AIR; S=SOIL; G=GROUNDWATER; WW=WASTEWATER								

NO Seal on Ice

DA
New Kent Wood Preservatives (NK)
Recd: 11/28/2017 Due: 12/05/2017
130325002

CHAIN OF CUSTODY

CLIENT: LIESFELD FARMS				CONSULTANT: DRAPER ADEN ASSOCIATES				COPY COA TO CONSULTANT? YES			
ATTN: THOMAS LIESFELD				ATTN: WILLIAM A SALOMONE (WSALOMONE@DAA.COM)				COPY INVOICE TO CONSULTANT? YES			
STREET: 859 BEN HATCHER ROAD				STREET: 8090 VILLA PARK DRIVE				PROJECT: NKWP / CONFIRMATORY SAMPLING			
CITY: WAYNESBORO, GA 30830				CITY: RICHMOND, VIRGINIA 23228				LOCATION: PROVIDENCE FORGE, VIRGINIA			
PHONE: 804-833-4288				PHONE: 804-264-2228				LABORATORY: AIR, WATER, & SOIL LABORATORIES			
TURN AROUND: 12 3 10 DAYS				P.O. #: R15434R-12				ANALYSES REQUESTED			
LAB USE ONLY	SAMPLE INFORMATION			COMPOSITE	Grab	NO. OF JARS	MATRIX	Metals (As, Cr)			COMMENTS (SAMPLING INTERVAL)
LAB ID	SAMPLE ID	DATE	TIME								
	EAI-SW5-12	11/27	1555		✓	1	S	✓			
	EAI-SW5-24	1	1600		✓	1	S	✓			
	EAI-SW6-12		1620		✓	1	S	✓			
	EAI-SW6-24		1625		✓	1	S	✓			
	EAI-SW7-12		1630		✓	1	S	✓			
	EAI-SW7-24		1635		✓	1	S	✓			
	EAI-SW8-12		1640		✓	1	S	✓			
	EAI-SW8-24	1	1642		✓	1	S	✓			
SAMPLED BY: Kendall Dunham				PRINTED NAME: Kendall Dunham				Level 2 data package. Please report all concentrations in mg/kg (dry weight). All dry weight analyses shall be total analysis.			
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		DATE					
Kendall Dunham		11/27	1642	W.A. Salomone		11/27/17		16.42			
W.A. Salomone		11/28	0948	Shing		11/28/17		0948			
TEMP: 3 50C		pH:		CONTENTS: A= AIR; S=SOIL; G=GROUNDWATER; WW=WASTEWATER							

NO Seal NO Ice

17K0837
DA
New Kent Wood Preservatives (NK)
Recd: 11/28/2017 Due: 12/05/2017
v130325002

CHAIN OF CUSTODY																															
CLIENT: LIESFELD FARMS				CONSULTANT: DRAPER ADEN ASSOCIATES				COPY COA TO CONSULTANT? YES																							
ATTN: THOMAS LIESFELD				ATTN: WILLIAM A SALOMONE (WSALOMONE@DAA.COM)				COPY INVOICE TO CONSULTANT? YES																							
STREET: 859 BEN HATCHER ROAD				STREET: 8080 VILLA PARK DRIVE				PROJECT: NKWP / CONFIRMATORY SAMPLING																							
CITY: WAYNESBORO, GA 30830				CITY: RICHMOND, VIRGINIA 23228				LOCATION: PROVIDENCE FORGE, VIRGINIA																							
PHONE: 804-833-4286				PHONE: 804-264-2228				LABORATORY: AIR, WATER, & SOIL LABORATORIES																							
TURN AROUND: 2 3 5 10 DAYS				P.O. #: R15434R-12				ANALYSES REQUESTED																							
LAB USE ONLY				SAMPLE INFORMATION				COMPOSITE				Grab				NO. OF JARS				MATRIX				Metals (As, Cr)				COMMENTS (SAMPLING INTERVAL)			
LAB ID		SAMPLE ID		DATE		TIME																									
		EA1-SW9-12		11/27		1650				✓		1		S		✓															
		EA1-SW9-24		11/27		1655				✓		1		S		✓															
		EA1-SW10-12		11/27		1700				✓		1		S		✓															
		EA1-SW10-24		11/27		1705				✓		1		S		✓															
SAMPLED BY: Kendall Dunham				PRINTED NAME: Kendall Dunham				Level 2 data package.					Please report all concentrations in mg/kg (dry weight).				All dry weight analyses shall be total analysis.														
RELINQUISHED BY: Kendall Dunham				DATE: 11/27		TIME: 1705		RECEIVED BY: W.A. Salomone				DATE: 11/27/17		TIME: 1705																	
W.A. Salomone				11/28		0948		SLONG				12 NOV 2017		0948																	
TEMP: 3.5 °C				pH:				CONTENTS: A=AIR; S=SOIL; G=GROUNDWATER; WW=WASTEWATER																							

DA 17K0837
New Kent Wood Preservatives (NK
Recd: 11/28/2017 Due: 12/05/2017



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Certificate of Analysis

Final Report

Client Name:	Thomas Liesfeld 859 Ben Hatcher Rd Waynesboro GA, 30830	Date Issued:	12/13/2017 15:05
Submitted To:	Thomas Liesfeld	Project Number:	R15434R-12
Client Site I.D.:	NKWP Confirmatory Sampling	Purchase Order:	

Sample Conditions Checklist

Samples Received at:	3.50°C
How were samples received?	Walk in
Were Custody Seals used? If so, were they received intact?	No
Are the custody papers filled out completely and correctly?	Yes
Do all bottle labels agree with custody papers?	Yes
Is the temperature blank or representative sample within acceptable limits? (above freezing to 6°C) or received on ice and recently taken?	Yes
Are all samples within holding time for requested laboratory tests?	Yes
Is a sufficient amount of sample provided to perform the tests included?	Yes
Are all samples in appropriate containers for the analyses requested?	Yes
Were volatile organic containers received?	No
Are all volatile organic and TOX containers free of headspace?	NA
Is a trip blank provided for each VOC sample set? VOC sample sets include EPA8011, EPA504, EPA8260, EPA624, EPA8015 GRO, EPA8021, EPA524, and RSK-175.	NA
Are all samples received appropriately preserved? Note that metals containers do not require field preservation but lab preservation may delay analysis.	Yes

Due to instrument failure; ok per Thomas Liesfeld, As and Cr will be analyzed by GFAA. KLC 12/5/17 13:44.



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Certificate of Analysis

Final Report

Laboratory Order ID 17K0890

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro, GA 30830

Date Received: November 28, 2017 17:20

Date Issued: December 14, 2017 8:53

Project Number: R15434R-12

Submitted To: Thomas Liesfeld

Purchase Order:

Client Site I.D.: NKWP/Confirmatory Sampling

Enclosed are the results of analyses for samples received by the laboratory on 11/28/2017 17:20. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

A handwritten signature in black ink that reads "Ted Soyars".

Ted Soyars
Laboratory Manager

End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro GA, 30830

Date Issued: 12/14/2017 8:53

Submitted To: Thomas Liesfeld

Project Number: R15434R-12

Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

ANALYTICAL REPORT FOR SAMPLES

Laboratory Order ID 17K0890

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EA1-SW11-12	17K0890-01	Soil	11/28/2017 08:35	11/28/2017 17:20
EA1-SW11-24	17K0890-02	Soil	11/28/2017 08:30	11/28/2017 17:20
EA1-SW12-12	17K0890-03	Soil	11/28/2017 08:45	11/28/2017 17:20
EA1-SW12-24	17K0890-04	Soil	11/28/2017 08:40	11/28/2017 17:20
EA1-SW13-12	17K0890-05	Soil	11/28/2017 08:55	11/28/2017 17:20
EA1-SW13-24	17K0890-06	Soil	11/28/2017 08:50	11/28/2017 17:20
EA1-SW14-12	17K0890-07	Soil	11/28/2017 09:25	11/28/2017 17:20
EA1-SW14-24	17K0890-08	Soil	11/28/2017 09:20	11/28/2017 17:20
EA1-SW15-12	17K0890-09	Soil	11/28/2017 09:35	11/28/2017 17:20
EA1-SW15-24	17K0890-10	Soil	11/28/2017 09:30	11/28/2017 17:20
EA1-SW16-12	17K0890-11	Soil	11/28/2017 09:45	11/28/2017 17:20
EA1-SW16-24	17K0890-12	Soil	11/28/2017 09:40	11/28/2017 17:20
EA1-SW17-12	17K0890-13	Soil	11/28/2017 09:55	11/28/2017 17:20
EA1-SW17-24	17K0890-14	Soil	11/28/2017 09:50	11/28/2017 17:20
EA1-SW18-12	17K0890-15	Soil	11/28/2017 10:20	11/28/2017 17:20
EA1-SW18-24	17K0890-16	Soil	11/28/2017 10:15	11/28/2017 17:20
EA1-SW19-12	17K0890-17	Soil	11/28/2017 10:30	11/28/2017 17:20
EA1-SW19-24	17K0890-18	Soil	11/28/2017 10:25	11/28/2017 17:20
EA1-SW20-12	17K0890-19	Soil	11/28/2017 11:00	11/28/2017 17:20
EA1-SW20-24	17K0890-20	Soil	11/28/2017 10:55	11/28/2017 17:20
EA1-SW21-12	17K0890-21	Soil	11/28/2017 11:10	11/28/2017 17:20
EA1-SW21-24	17K0890-22	Soil	11/28/2017 11:05	11/28/2017 17:20
EA1-SW22-12	17K0890-23	Soil	11/28/2017 11:20	11/28/2017 17:20



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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro GA, 30830

Date Issued: 12/14/2017 8:53

Submitted To: Thomas Liesfeld

Project Number: R15434R-12

Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

ANALYTICAL REPORT FOR SAMPLES

Laboratory Order ID 17K0890

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EA1-SW22-24	17K0890-24	Soil	11/28/2017 11:15	11/28/2017 17:20
EA1-SW23-12	17K0890-25	Soil	11/28/2017 11:30	11/28/2017 17:20
EA1-SW23-24	17K0890-26	Soil	11/28/2017 11:25	11/28/2017 17:20
EA1-SW24-12	17K0890-27	Soil	11/28/2017 11:50	11/28/2017 17:20
EA1-SW24-24	17K0890-28	Soil	11/28/2017 11:45	11/28/2017 17:20
EA1-SW25-12	17K0890-29	Soil	11/28/2017 12:00	11/28/2017 17:20
EA1-SW25-24	17K0890-30	Soil	11/28/2017 11:55	11/28/2017 17:20
EA1-SW26-12	17K0890-31	Soil	11/28/2017 12:10	11/28/2017 17:20
EA1-SW26-24	17K0890-32	Soil	11/28/2017 12:05	11/28/2017 17:20
EA1-SW27-12	17K0890-33	Soil	11/28/2017 12:20	11/28/2017 17:20
EA1-SW27-24	17K0890-34	Soil	11/28/2017 12:15	11/28/2017 17:20
EA1-SW28-12	17K0890-35	Soil	11/28/2017 12:35	11/28/2017 17:20
EA1-SW28-24	17K0890-36	Soil	11/28/2017 12:30	11/28/2017 17:20
EA1-SW29-12	17K0890-37	Soil	11/28/2017 12:45	11/28/2017 17:20
EA1-SW29-24	17K0890-38	Soil	11/28/2017 12:40	11/28/2017 17:20
EA1-SW30-12	17K0890-39	Soil	11/28/2017 13:00	11/28/2017 17:20
EA1-SW30-24	17K0890-40	Soil	11/28/2017 12:55	11/28/2017 17:20
EA1-SW31-12	17K0890-41	Soil	11/28/2017 13:10	11/28/2017 17:20
EA1-SW31-24	17K0890-42	Soil	11/28/2017 13:05	11/28/2017 17:20
EA1-SW32-12	17K0890-43	Soil	11/28/2017 15:00	11/28/2017 17:20
EA1-SW32-24	17K0890-44	Soil	11/28/2017 15:05	11/28/2017 17:20
EA1-SW33-12	17K0890-45	Soil	11/28/2017 15:10	11/28/2017 17:20
EA1-SW33-24	17K0890-46	Soil	11/28/2017 15:15	11/28/2017 17:20
EA1-SW34-12	17K0890-47	Soil	11/28/2017 15:20	11/28/2017 17:20



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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld Date Issued: 12/14/2017 8:53
859 Ben Hatcher Rd
Waynesboro GA, 30830
Submitted To: Thomas Liesfeld Project Number: R15434R-12
Client Site I.D.: NKWP/Confirmatory Sampling Purchase Order:

ANALYTICAL REPORT FOR SAMPLES

Laboratory Order ID 17K0890

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EA1-SW34-24	17K0890-48	Soil	11/28/2017 15:25	11/28/2017 17:20
EA1-SW35-12	17K0890-49	Soil	11/28/2017 15:30	11/28/2017 17:20
EA1-SW35-24	17K0890-50	Soil	11/28/2017 15:35	11/28/2017 17:20



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Final Report

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro GA, 30830

Date Issued: 12/14/2017 8:53

Submitted To: Thomas Liesfeld

Project Number: R15434R-12

Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW11-12

Laboratory Sample ID: 17K0890-01

Grab Date/Time: 11/28/2017 08:35

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	01	SW7010	17.7 mg/kg dry		4.95	10	12/01/17 10:20	12/05/17 17:20	RCV
Chromium	01	SW7010	26.1 mg/kg dry	E	4.95	100	12/01/17 10:20	12/13/17 14:24	RCV
Wet Chemistry Analysis									
Percent Solids	01	SM18 2540G	92.3 %		0.10	1	11/29/17 16:40	11/29/17 16:40	JCM



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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro GA, 30830

Date Issued: 12/14/2017 8:53

Submitted To: Thomas Liesfeld

Project Number: R15434R-12

Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW11-24

Laboratory Sample ID: 17K0890-02

Grab Date/Time: 11/28/2017 08:30

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	02	SW7010	<5.38 mg/kg dry		5.38	10	12/01/17 10:20	12/05/17 17:27	RCV
Chromium	02	SW7010	10.9 mg/kg dry	E	5.38	100	12/01/17 10:20	12/13/17 14:31	RCV
Wet Chemistry Analysis									
Percent Solids	02	SM18 2540G	88.2 %		0.10	1	11/29/17 16:40	11/29/17 16:40	JCM



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Final Report

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro GA, 30830

Date Issued: 12/14/2017 8:53

Submitted To: Thomas Liesfeld

Project Number: R15434R-12

Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW12-12

Laboratory Sample ID: 17K0890-03

Grab Date/Time: 11/28/2017 08:45

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	03	SW7010	14.8 mg/kg dry		5.00	10	12/01/17 10:20	12/05/17 17:33	RCV
Chromium	03	SW7010	13.7 mg/kg dry	E	5.00	100	12/01/17 10:20	12/13/17 14:37	RCV
Wet Chemistry Analysis									
Percent Solids	03	SM18 2540G	92.9 %		0.10	1	11/29/17 16:40	11/29/17 16:40	JCM



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Final Report

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro GA, 30830

Date Issued: 12/14/2017 8:53

Submitted To: Thomas Liesfeld

Project Number: R15434R-12

Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW12-24

Laboratory Sample ID: 17K0890-04

Grab Date/Time: 11/28/2017 08:40

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	04	SW7010	<5.28 mg/kg dry		5.28	10	12/01/17 10:20	12/05/17 17:40	RCV
Chromium	04	SW7010	<1.06 mg/kg dry		1.06	20	12/01/17 10:20	12/12/17 13:35	RCV
Wet Chemistry Analysis									
Percent Solids	04	SM18 2540G	88.1 %		0.10	1	11/29/17 16:40	11/29/17 16:40	JCM



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Final Report

Client Name: Thomas Liesfeld
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Waynesboro GA, 30830

Date Issued: 12/14/2017 8:53

Submitted To: Thomas Liesfeld

Project Number: R15434R-12

Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW13-12

Laboratory Sample ID: 17K0890-05

Grab Date/Time: 11/28/2017 08:55

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	05	SW7010	20.0 mg/kg dry		4.97	10	12/01/17 10:20	12/07/17 10:28	RCV
Chromium	05	SW7010	36.7 mg/kg dry	E	4.97	100	12/01/17 10:20	12/13/17 14:44	RCV
Wet Chemistry Analysis									
Percent Solids	05	SM18 2540G	92.3 %		0.10	1	11/29/17 16:40	11/29/17 16:40	JCM



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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro GA, 30830

Date Issued: 12/14/2017 8:53

Submitted To: Thomas Liesfeld

Project Number: R15434R-12

Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW13-24

Laboratory Sample ID: 17K0890-06

Grab Date/Time: 11/28/2017 08:50

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	06	SW7010	7.33 mg/kg dry		5.36	10	12/01/17 10:20	12/05/17 18:07	RCV
Chromium	06	SW7010	8.42 mg/kg dry	E	1.07	20	12/01/17 10:20	12/12/17 13:51	RCV
Wet Chemistry Analysis									
Percent Solids	06	SM18 2540G	89.9 %		0.10	1	11/29/17 16:40	11/29/17 16:40	JCM



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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro GA, 30830

Date Issued: 12/14/2017 8:53

Submitted To: Thomas Liesfeld

Project Number: R15434R-12

Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW14-12

Laboratory Sample ID: 17K0890-07

Grab Date/Time: 11/28/2017 09:25

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	07	SW7010	18.5 mg/kg dry		4.89	10	12/01/17 10:20	12/05/17 18:12	RCV
Chromium	07	SW7010	28.8 mg/kg dry	E	4.89	100	12/01/17 10:20	12/13/17 14:50	RCV
Wet Chemistry Analysis									
Percent Solids	07	SM18 2540G	94.7 %		0.10	1	11/29/17 16:40	11/29/17 16:40	JCM



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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro GA, 30830

Date Issued: 12/14/2017 8:53

Submitted To: Thomas Liesfeld

Project Number: R15434R-12

Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW14-24

Laboratory Sample ID: 17K0890-08

Grab Date/Time: 11/28/2017 09:20

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	08	SW7010	<5.16 mg/kg dry		5.16	10	12/01/17 10:20	12/05/17 18:19	RCV
Chromium	08	SW7010	9.04 mg/kg dry	E	1.03	20	12/01/17 10:20	12/07/17 20:43	RCV
Wet Chemistry Analysis									
Percent Solids	08	SM18 2540G	94.7 %		0.10	1	11/29/17 16:40	11/29/17 16:40	JCM



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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro GA, 30830

Date Issued: 12/14/2017 8:53

Submitted To: Thomas Liesfeld

Project Number: R15434R-12

Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW15-12

Laboratory Sample ID: 17K0890-09

Grab Date/Time: 11/28/2017 09:35

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	09	SW7010	17.9 mg/kg dry		4.89	10	12/01/17 10:20	12/07/17 10:34	RCV
Chromium	09	SW7010	31.3 mg/kg dry	E	4.89	100	12/01/17 10:20	12/08/17 12:08	RCV
Wet Chemistry Analysis									
Percent Solids	09	SM18 2540G	95.8 %		0.10	1	11/29/17 16:40	11/29/17 16:40	JCM



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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro GA, 30830

Date Issued: 12/14/2017 8:53

Submitted To: Thomas Liesfeld

Project Number: R15434R-12

Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW15-24

Laboratory Sample ID: 17K0890-10

Grab Date/Time: 11/28/2017 09:30

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	10	SW7010	<5.22 mg/kg dry		5.22	10	12/01/17 10:20	12/05/17 18:53	RCV
Chromium	10	SW7010	5.51 mg/kg dry	E	1.04	20	12/01/17 10:20	12/07/17 21:25	RCV
Wet Chemistry Analysis									
Percent Solids	10	SM18 2540G	95.3 %		0.10	1	11/29/17 16:40	11/29/17 16:40	JCM



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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro GA, 30830

Date Issued: 12/14/2017 8:53

Submitted To: Thomas Liesfeld

Project Number: R15434R-12

Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW16-12

Laboratory Sample ID: 17K0890-11

Grab Date/Time: 11/28/2017 09:45

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	11	SW7010	20.0 mg/kg dry		5.12	10	12/01/17 10:20	12/07/17 10:41	RCV
Chromium	11	SW7010	42.8 mg/kg dry	E	5.12	100	12/01/17 10:20	12/13/17 14:56	RCV
Wet Chemistry Analysis									
Percent Solids	11	SM18 2540G	93.9 %		0.10	1	11/30/17 17:12	12/04/17 09:24	JIW



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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro GA, 30830

Date Issued: 12/14/2017 8:53

Submitted To: Thomas Liesfeld

Project Number: R15434R-12

Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW16-24

Laboratory Sample ID: 17K0890-12

Grab Date/Time: 11/28/2017 09:40

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	12	SW7010	<4.95 mg/kg dry		4.95	10	12/01/17 10:20	12/05/17 19:19	RCV
Chromium	12	SW7010	7.35 mg/kg dry	E	0.990	20	12/01/17 10:20	12/07/17 21:42	RCV
Wet Chemistry Analysis									
Percent Solids	12	SM18 2540G	93.7 %		0.10	1	11/30/17 17:12	12/04/17 09:24	JIW



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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro GA, 30830

Date Issued: 12/14/2017 8:53

Submitted To: Thomas Liesfeld

Project Number: R15434R-12

Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW17-12

Laboratory Sample ID: 17K0890-13

Grab Date/Time: 11/28/2017 09:55

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	13	SW7010	10.9 mg/kg dry		5.13	10	12/01/17 10:20	12/05/17 19:25	RCV
Chromium	13	SW7010	16.7 mg/kg dry	E	5.13	100	12/01/17 10:20	12/08/17 12:14	RCV
Wet Chemistry Analysis									
Percent Solids	13	SM18 2540G	95.9 %		0.10	1	11/30/17 17:12	12/04/17 09:24	JIW



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Date Issued: 12/14/2017 8:53

Submitted To: Thomas Liesfeld

Project Number: R15434R-12

Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW17-24

Laboratory Sample ID: 17K0890-14

Grab Date/Time: 11/28/2017 09:50

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	14	SW7010	<5.18 mg/kg dry		5.18	10	12/01/17 10:20	12/05/17 19:31	RCV
Chromium	14	SW7010	6.31 mg/kg dry	E	1.04	20	12/01/17 10:20	12/07/17 21:58	RCV
Wet Chemistry Analysis									
Percent Solids	14	SM18 2540G	93.7 %		0.10	1	11/30/17 17:12	12/04/17 09:24	JIW



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Client Name: Thomas Liesfeld Date Issued: 12/14/2017 8:53
 859 Ben Hatcher Rd
 Waynesboro GA, 30830
 Submitted To: Thomas Liesfeld Project Number: R15434R-12
 Client Site I.D.: NKWP/Confirmatory Sampling Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW18-12

Laboratory Sample ID: 17K0890-15

Grab Date/Time: 11/28/2017 10:20

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	15	SW7010	13.6 mg/kg dry		4.90	10	12/01/17 10:20	12/05/17 19:38	RCV
Chromium	15	SW7010	13.1 mg/kg dry	E	4.90	100	12/01/17 10:20	12/08/17 12:21	RCV
Wet Chemistry Analysis									
Percent Solids	15	SM18 2540G	95.6 %		0.10	1	11/30/17 17:12	12/04/17 09:24	JIW



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Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW18-24

Laboratory Sample ID: 17K0890-16

Grab Date/Time: 11/28/2017 10:15

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	16	SW7010	<5.08 mg/kg dry		5.08	10	12/01/17 10:20	12/05/17 19:43	RCV
Chromium	16	SW7010	8.19 mg/kg dry	E	1.02	20	12/01/17 10:20	12/07/17 22:27	RCV
Wet Chemistry Analysis									
Percent Solids	16	SM18 2540G	89.6 %		0.10	1	11/30/17 17:12	12/04/17 09:24	JIW



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Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW19-12

Laboratory Sample ID: 17K0890-17

Grab Date/Time: 11/28/2017 10:30

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	17	SW7010	<5.21 mg/kg dry		5.21	10	12/01/17 10:20	12/05/17 19:50	RCV
Chromium	17	SW7010	7.62 mg/kg dry	E	1.04	20	12/01/17 10:20	12/07/17 22:33	RCV
Wet Chemistry Analysis									
Percent Solids	17	SM18 2540G	95.2 %		0.10	1	11/30/17 17:12	12/04/17 09:24	JIW



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Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW19-24

Laboratory Sample ID: 17K0890-18

Grab Date/Time: 11/28/2017 10:25

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	18	SW7010	<5.31 mg/kg dry		5.31	10	12/01/17 10:20	12/05/17 19:56	RCV
Chromium	18	SW7010	7.14 mg/kg dry	E	1.06	20	12/01/17 10:20	12/07/17 17:14	RCV
Wet Chemistry Analysis									
Percent Solids	18	SM18 2540G	92.1 %		0.10	1	11/30/17 17:12	12/04/17 09:24	JIW



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Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW20-12

Laboratory Sample ID: 17K0890-19

Grab Date/Time: 11/28/2017 11:00

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	19	SW7010	36.9 mg/kg dry		11.6	20	12/01/17 10:20	12/07/17 16:52	RCV
Chromium	19	SW7010	41.7 mg/kg dry	E	5.78	100	12/01/17 10:20	12/08/17 12:59	RCV
Wet Chemistry Analysis									
Percent Solids	19	SM18 2540G	82.2 %		0.10	1	11/30/17 17:12	12/04/17 09:24	JIW



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Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW20-24

Laboratory Sample ID: 17K0890-20

Grab Date/Time: 11/28/2017 10:55

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	20	SW7010	<5.20 mg/kg dry		5.20	10	12/01/17 10:20	12/07/17 11:22	RCV
Chromium	20	SW7010	4.32 mg/kg dry	E	1.04	20	12/01/17 10:20	12/08/17 00:49	RCV
Wet Chemistry Analysis									
Percent Solids	20	SM18 2540G	93.4 %		0.10	1	11/30/17 17:12	12/04/17 09:24	JIW



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Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW21-12

Laboratory Sample ID: 17K0890-21

Grab Date/Time: 11/28/2017 11:10

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	21	SW7010	92.5 mg/kg dry		25.3	50	12/01/17 10:20	12/07/17 17:15	RCV
Chromium	21	SW7010	95.9 mg/kg dry	E	50.7	1000	12/01/17 10:20	12/08/17 15:19	RCV
Wet Chemistry Analysis									
Percent Solids	21	SM18 2540G	91.9 %		0.10	1	11/30/17 17:12	12/04/17 09:24	JIW



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Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW21-24

Laboratory Sample ID: 17K0890-22

Grab Date/Time: 11/28/2017 11:05

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	22	SW7010	<5.19 mg/kg dry		5.19	10	12/01/17 10:20	12/07/17 11:38	RCV
Chromium	22	SW7010	10.1 mg/kg dry	E	1.04	20	12/01/17 10:20	12/08/17 01:02	RCV
Wet Chemistry Analysis									
Percent Solids	22	SM18 2540G	92.5 %		0.10	1	11/30/17 17:12	12/04/17 09:24	JIW



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Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW22-12

Laboratory Sample ID: 17K0890-23

Grab Date/Time: 11/28/2017 11:20

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	23	SW7010	31.9 mg/kg dry		10.6	20	12/01/17 10:20	12/07/17 17:09	RCV
Chromium	23	SW7010	26.8 mg/kg dry	E	5.28	100	12/01/17 10:20	12/08/17 13:16	RCV
Wet Chemistry Analysis									
Percent Solids	23	SM18 2540G	92.7 %		0.10	1	11/30/17 17:12	12/04/17 09:24	JIW



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Project Number: R15434R-12

Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW22-24

Laboratory Sample ID: 17K0890-24

Grab Date/Time: 11/28/2017 11:15

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	24	SW7010	<5.21 mg/kg dry		5.21	10	12/01/17 10:20	12/07/17 11:53	RCV
Chromium	24	SW7010	5.78 mg/kg dry	E	1.04	20	12/01/17 10:20	12/08/17 01:18	RCV
Wet Chemistry Analysis									
Percent Solids	24	SM18 2540G	92.1 %		0.10	1	11/30/17 17:12	12/04/17 09:24	JIW



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Project Number: R15434R-12
Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW23-12

Laboratory Sample ID: 17K0890-25

Grab Date/Time: 11/28/2017 11:30

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	25	SW7010	6.51 mg/kg dry		4.87	10	12/01/17 10:20	12/07/17 12:13	RCV
Chromium	25	SW7010	9.98 mg/kg dry	E	2.43	50	12/01/17 10:20	12/08/17 13:22	RCV
Wet Chemistry Analysis									
Percent Solids	25	SM18 2540G	94.2 %		0.10	1	11/30/17 17:12	12/04/17 09:24	JIW



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Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW23-24

Laboratory Sample ID: 17K0890-26

Grab Date/Time: 11/28/2017 11:25

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	26	SW7010	<5.28 mg/kg dry		5.28	10	12/01/17 10:20	12/07/17 12:19	RCV
Chromium	26	SW7010	3.98 mg/kg dry	E	1.06	20	12/01/17 10:20	12/08/17 01:31	RCV
Wet Chemistry Analysis									
Percent Solids	26	SM18 2540G	92.8 %		0.10	1	11/30/17 17:12	12/04/17 09:24	JIW



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Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW24-12

Laboratory Sample ID: 17K0890-27

Grab Date/Time: 11/28/2017 11:50

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	27	SW7010	8.03 mg/kg dry		5.17	10	12/01/17 10:20	12/07/17 12:25	RCV
Chromium	27	SW7010	13.1 mg/kg dry	E	5.17	100	12/01/17 10:20	12/08/17 13:29	RCV
Wet Chemistry Analysis									
Percent Solids	27	SM18 2540G	95.2 %		0.10	1	11/30/17 17:12	12/04/17 09:24	JIW



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Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW24-24

Laboratory Sample ID: 17K0890-28

Grab Date/Time: 11/28/2017 11:45

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	28	SW7010	<5.05 mg/kg dry		5.05	10	12/01/17 10:20	12/07/17 12:31	RCV
Chromium	28	SW7010	6.70 mg/kg dry	E	1.01	20	12/01/17 10:20	12/08/17 02:00	RCV
Wet Chemistry Analysis									
Percent Solids	28	SM18 2540G	93.2 %		0.10	1	11/30/17 17:12	12/04/17 09:24	JIW



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Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW25-12

Laboratory Sample ID: 17K0890-29

Grab Date/Time: 11/28/2017 12:00

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	29	SW7010	73.4 mg/kg dry		51.4	100	12/01/17 10:20	12/07/17 17:21	RCV
Chromium	29	SW7010	73.0 mg/kg dry	E	51.4	1000	12/01/17 10:20	12/08/17 15:26	RCV
Wet Chemistry Analysis									
Percent Solids	29	SM18 2540G	94.3 %		0.10	1	11/30/17 17:12	12/04/17 09:24	JIW



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Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW25-24

Laboratory Sample ID: 17K0890-30

Grab Date/Time: 11/28/2017 11:55

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	30	SW7010	<5.18 mg/kg dry		5.18	10	12/01/17 10:20	12/07/17 13:00	RCV
Chromium	30	SW7010	10.1 mg/kg dry	E	5.18	100	12/01/17 10:20	12/08/17 13:45	RCV
Wet Chemistry Analysis									
Percent Solids	30	SM18 2540G	93.8 %		0.10	1	11/30/17 17:12	12/04/17 09:24	JIW



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Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW26-12

Laboratory Sample ID: 17K0890-31

Grab Date/Time: 11/28/2017 12:10

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	31	SW7010	22.8 mg/kg dry	E	5.00	10	12/01/17 10:20	12/07/17 13:05	RCV
Chromium	31	SW7010	36.4 mg/kg dry	E	5.00	100	12/01/17 10:20	12/08/17 14:04	RCV
Wet Chemistry Analysis									
Percent Solids	31	SM18 2540G	95.5 %		0.10	1	12/01/17 13:15	12/01/17 13:15	JIW



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Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW26-24

Laboratory Sample ID: 17K0890-32

Grab Date/Time: 11/28/2017 12:05

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	32	SW7010	11.8 mg/kg dry		4.83	10	12/01/17 10:20	12/07/17 13:28	RCV
Chromium	32	SW7010	17.3 mg/kg dry	E	4.83	100	12/01/17 10:20	12/08/17 14:11	RCV
Wet Chemistry Analysis									
Percent Solids	32	SM18 2540G	95.3 %		0.10	1	12/01/17 13:15	12/01/17 13:15	JIW



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Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW27-12

Laboratory Sample ID: 17K0890-33

Grab Date/Time: 11/28/2017 12:20

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	33	SW7010	10.1 mg/kg dry		9.86	20	12/04/17 09:30	12/12/17 14:26	RCV
Chromium	33	SW7010	38.4 mg/kg dry	E	4.93	100	12/04/17 09:30	12/13/17 16:17	RCV
Wet Chemistry Analysis									
Percent Solids	33	SM18 2540G	94.0 %		0.10	1	12/01/17 13:15	12/01/17 13:15	JIW



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Final Report

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro GA, 30830

Date Issued: 12/14/2017 8:53

Submitted To: Thomas Liesfeld

Project Number: R15434R-12

Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW27-24

Laboratory Sample ID: 17K0890-34

Grab Date/Time: 11/28/2017 12:15

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	34	SW7010	<5.14 mg/kg dry		5.14	10	12/01/17 10:20	12/07/17 13:34	RCV
Chromium	34	SW7010	6.22 mg/kg dry	E	1.03	20	12/01/17 10:20	12/08/17 03:05	RCV
Wet Chemistry Analysis									
Percent Solids	34	SM18 2540G	95.0 %		0.10	1	12/01/17 13:15	12/01/17 13:15	JIW



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Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW28-12

Laboratory Sample ID: 17K0890-35

Grab Date/Time: 11/28/2017 12:35

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	35	SW7010	17.9 mg/kg dry		5.01	10	12/01/17 10:20	12/07/17 13:40	RCV
Chromium	35	SW7010	45.6 mg/kg dry	E	5.01	100	12/01/17 10:20	12/08/17 14:17	RCV
Wet Chemistry Analysis									
Percent Solids	35	SM18 2540G	94.9 %		0.10	1	12/01/17 13:15	12/01/17 13:15	JIW



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Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW28-24

Laboratory Sample ID: 17K0890-36

Grab Date/Time: 11/28/2017 12:30

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	36	SW7010	<5.25 mg/kg dry		5.25	10	12/01/17 10:20	12/07/17 13:47	RCV
Chromium	36	SW7010	4.84 mg/kg dry	E	1.05	20	12/01/17 10:20	12/08/17 03:21	RCV
Wet Chemistry Analysis									
Percent Solids	36	SM18 2540G	94.4 %		0.10	1	12/01/17 13:15	12/01/17 13:15	JIW



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Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW29-12

Laboratory Sample ID: 17K0890-37

Grab Date/Time: 11/28/2017 12:45

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	37	SW7010	19.5 mg/kg dry		5.19	10	12/01/17 10:20	12/07/17 13:54	RCV
Chromium	37	SW7010	32.2 mg/kg dry	E	5.19	100	12/01/17 10:20	12/08/17 14:23	RCV
Wet Chemistry Analysis									
Percent Solids	37	SM18 2540G	93.3 %		0.10	1	12/01/17 13:15	12/01/17 13:15	JIW



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Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW29-24

Laboratory Sample ID: 17K0890-38

Grab Date/Time: 11/28/2017 12:40

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	38	SW7010	<5.13 mg/kg dry		5.13	10	12/01/17 10:20	12/07/17 14:00	RCV
Chromium	38	SW7010	4.87 mg/kg dry	E	1.03	20	12/01/17 10:20	12/08/17 03:37	RCV
Wet Chemistry Analysis									
Percent Solids	38	SM18 2540G	93.7 %		0.10	1	12/01/17 13:15	12/01/17 13:15	JIW



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Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW30-12

Laboratory Sample ID: 17K0890-39

Grab Date/Time: 11/28/2017 13:00

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	39	SW7010	36.7 mg/kg dry		10.4	20	12/01/17 10:20	12/07/17 18:32	RCV
Chromium	39	SW7010	49.0 mg/kg dry	E	5.20	100	12/01/17 10:20	12/13/17 15:03	RCV
Wet Chemistry Analysis									
Percent Solids	39	SM18 2540G	90.1 %		0.10	1	12/01/17 13:15	12/01/17 13:15	JIW



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Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW30-24

Laboratory Sample ID: 17K0890-40

Grab Date/Time: 11/28/2017 12:55

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	40	SW7010	<5.16 mg/kg dry		5.16	10	12/01/17 10:20	12/07/17 14:58	RCV
Chromium	40	SW7010	7.16 mg/kg dry	E	1.03	20	12/01/17 10:20	12/12/17 14:55	RCV
Wet Chemistry Analysis									
Percent Solids	40	SM18 2540G	94.2 %		0.10	1	12/01/17 13:15	12/01/17 13:15	JIW



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Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW31-12

Laboratory Sample ID: 17K0890-41

Grab Date/Time: 11/28/2017 13:10

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	41	SW7010	47.6 mg/kg dry		10.6	20	12/01/17 10:20	12/07/17 18:38	RCV
Chromium	41	SW7010	54.8 mg/kg dry	E	52.9	1000	12/01/17 10:20	12/13/17 17:19	RCV
Wet Chemistry Analysis									
Percent Solids	41	SM18 2540G	92.5 %		0.10	1	12/01/17 13:15	12/01/17 13:15	JIW



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Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW31-24

Laboratory Sample ID: 17K0890-42

Grab Date/Time: 11/28/2017 13:05

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	42	SW7010	<5.22 mg/kg dry		5.22	10	12/01/17 10:20	12/07/17 15:13	RCV
Chromium	42	SW7010	5.39 mg/kg dry	E	1.04	20	12/01/17 10:20	12/12/17 15:21	RCV
Wet Chemistry Analysis									
Percent Solids	42	SM18 2540G	94.5 %		0.10	1	12/01/17 13:15	12/01/17 13:15	JIW



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Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW32-12

Laboratory Sample ID: 17K0890-43

Grab Date/Time: 11/28/2017 15:00

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	43	SW7010	10.9 mg/kg dry		5.17	10	12/01/17 10:20	12/07/17 15:19	RCV
Chromium	43	SW7010	16.0 mg/kg dry	E	5.17	100	12/01/17 10:20	12/13/17 15:19	RCV
Wet Chemistry Analysis									
Percent Solids	43	SM18 2540G	93.6 %		0.10	1	12/01/17 13:15	12/01/17 13:15	JIW



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Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW32-24

Laboratory Sample ID: 17K0890-44

Grab Date/Time: 11/28/2017 15:05

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	44	SW7010	<5.48 mg/kg dry		5.48	10	12/01/17 10:20	12/07/17 15:26	RCV
Chromium	44	SW7010	4.06 mg/kg dry	E	1.10	20	12/01/17 10:20	12/12/17 15:37	RCV
Wet Chemistry Analysis									
Percent Solids	44	SM18 2540G	88.7 %		0.10	1	12/01/17 13:15	12/01/17 13:15	JIW



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Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW33-12

Laboratory Sample ID: 17K0890-45

Grab Date/Time: 11/28/2017 15:10

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	45	SW7010	<5.17 mg/kg dry		5.17	10	12/01/17 10:20	12/07/17 15:32	RCV
Chromium	45	SW7010	9.01 mg/kg dry	E	1.03	20	12/01/17 10:20	12/12/17 15:43	RCV
Wet Chemistry Analysis									
Percent Solids	45	SM18 2540G	94.1 %		0.10	1	12/01/17 13:15	12/01/17 13:15	JIW



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Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW33-24

Laboratory Sample ID: 17K0890-46

Grab Date/Time: 11/28/2017 15:15

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	46	SW7010	<5.12 mg/kg dry		5.12	10	12/01/17 10:20	12/07/17 16:02	RCV
Chromium	46	SW7010	4.78 mg/kg dry	E	1.02	20	12/01/17 10:20	12/12/17 16:03	RCV
Wet Chemistry Analysis									
Percent Solids	46	SM18 2540G	88.9 %		0.10	1	12/01/17 13:15	12/01/17 13:15	JIW



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Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW34-12

Laboratory Sample ID: 17K0890-47

Grab Date/Time: 11/28/2017 15:20

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	47	SW7010	<5.29 mg/kg dry		5.29	10	12/01/17 10:20	12/07/17 16:08	RCV
Chromium	47	SW7010	7.05 mg/kg dry	E	1.06	20	12/01/17 10:20	12/12/17 16:22	RCV
Wet Chemistry Analysis									
Percent Solids	47	SM18 2540G	94.0 %		0.10	1	12/01/17 13:15	12/01/17 13:15	JIW



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Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW34-24

Laboratory Sample ID: 17K0890-48

Grab Date/Time: 11/28/2017 15:25

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	48	SW7010	<4.97 mg/kg dry		4.97	10	12/01/17 10:20	12/07/17 16:14	RCV
Chromium	48	SW7010	11.2 mg/kg dry	E	4.97	100	12/01/17 10:20	12/13/17 15:38	RCV
Wet Chemistry Analysis									
Percent Solids	48	SM18 2540G	91.9 %		0.10	1	12/01/17 13:15	12/01/17 13:15	JIW



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Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW35-12

Laboratory Sample ID: 17K0890-49

Grab Date/Time: 11/28/2017 15:30

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	49	SW7010	24.5 mg/kg dry		10.8	20	12/01/17 10:20	12/12/17 12:02	RCV
Chromium	49	SW7010	17.8 mg/kg dry	E	5.41	100	12/01/17 10:20	12/13/17 15:45	RCV
Wet Chemistry Analysis									
Percent Solids	49	SM18 2540G	91.8 %		0.10	1	12/01/17 13:15	12/01/17 13:15	JIW



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Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Laboratory Order ID: 17K0890

Analytical Results

Sample I.D. EA1-SW35-24

Laboratory Sample ID: 17K0890-50

Grab Date/Time: 11/28/2017 15:35

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	50	SW7010	<5.40 mg/kg dry		5.40	10	12/01/17 10:20	12/07/17 16:27	RCV
Chromium	50	SW7010	13.3 mg/kg dry	E	5.40	100	12/01/17 10:20	12/13/17 15:51	RCV
Wet Chemistry Analysis									
Percent Solids	50	SM18 2540G	90.5 %		0.10	1	12/01/17 13:15	12/01/17 13:15	JIW



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Purchase Order:

Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Wet Chemistry Analysis		Preparation Method:	No Prep Wet Chem		
17K0890-01	1.00 g / 1.00 mL	SM18 2540G	BAK0867	SAL0031	
17K0890-02	1.00 g / 1.00 mL	SM18 2540G	BAK0867	SAL0031	
17K0890-03	1.00 g / 1.00 mL	SM18 2540G	BAK0867	SAL0031	
17K0890-04	1.00 g / 1.00 mL	SM18 2540G	BAK0867	SAL0031	
17K0890-05	1.00 g / 1.00 mL	SM18 2540G	BAK0867	SAL0031	
17K0890-06	1.00 g / 1.00 mL	SM18 2540G	BAK0867	SAL0031	
17K0890-07	1.00 g / 1.00 mL	SM18 2540G	BAK0867	SAL0031	
17K0890-08	1.00 g / 1.00 mL	SM18 2540G	BAK0867	SAL0031	
17K0890-09	1.00 g / 1.00 mL	SM18 2540G	BAK0867	SAL0031	
17K0890-10	1.00 g / 1.00 mL	SM18 2540G	BAK0867	SAL0031	
Wet Chemistry Analysis		Preparation Method:	No Prep Wet Chem		
17K0890-11	1.00 g / 1.00 mL	SM18 2540G	BAK0916	SAL0041	
17K0890-12	1.00 g / 1.00 mL	SM18 2540G	BAK0916	SAL0041	
17K0890-13	1.00 g / 1.00 mL	SM18 2540G	BAK0916	SAL0041	
17K0890-14	1.00 g / 1.00 mL	SM18 2540G	BAK0916	SAL0041	
17K0890-15	1.00 g / 1.00 mL	SM18 2540G	BAK0916	SAL0041	
17K0890-16	1.00 g / 1.00 mL	SM18 2540G	BAK0916	SAL0041	
17K0890-17	1.00 g / 1.00 mL	SM18 2540G	BAK0916	SAL0041	
17K0890-18	1.00 g / 1.00 mL	SM18 2540G	BAK0916	SAL0041	
17K0890-19	1.00 g / 1.00 mL	SM18 2540G	BAK0916	SAL0041	
17K0890-20	1.00 g / 1.00 mL	SM18 2540G	BAK0916	SAL0041	
17K0890-21	1.00 g / 1.00 mL	SM18 2540G	BAK0916	SAL0041	
17K0890-22	1.00 g / 1.00 mL	SM18 2540G	BAK0916	SAL0041	
17K0890-23	1.00 g / 1.00 mL	SM18 2540G	BAK0916	SAL0041	
17K0890-24	1.00 g / 1.00 mL	SM18 2540G	BAK0916	SAL0041	
17K0890-25	1.00 g / 1.00 mL	SM18 2540G	BAK0916	SAL0041	
17K0890-26	1.00 g / 1.00 mL	SM18 2540G	BAK0916	SAL0041	
17K0890-27	1.00 g / 1.00 mL	SM18 2540G	BAK0916	SAL0041	
17K0890-28	1.00 g / 1.00 mL	SM18 2540G	BAK0916	SAL0041	
17K0890-29	1.00 g / 1.00 mL	SM18 2540G	BAK0916	SAL0041	
17K0890-30	1.00 g / 1.00 mL	SM18 2540G	BAK0916	SAL0041	
Wet Chemistry Analysis		Preparation Method:	No Prep Wet Chem		



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Purchase Order:

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
17K0890-31	1.00 g / 1.00 mL	SM18 2540G	BAL0020	SAL0061	
17K0890-32	1.00 g / 1.00 mL	SM18 2540G	BAL0020	SAL0061	
17K0890-33	1.00 g / 1.00 mL	SM18 2540G	BAL0020	SAL0061	
17K0890-34	1.00 g / 1.00 mL	SM18 2540G	BAL0020	SAL0061	
17K0890-35	1.00 g / 1.00 mL	SM18 2540G	BAL0020	SAL0061	
17K0890-36	1.00 g / 1.00 mL	SM18 2540G	BAL0020	SAL0061	
17K0890-37	1.00 g / 1.00 mL	SM18 2540G	BAL0020	SAL0061	
17K0890-38	1.00 g / 1.00 mL	SM18 2540G	BAL0020	SAL0061	
17K0890-39	1.00 g / 1.00 mL	SM18 2540G	BAL0020	SAL0061	
17K0890-40	1.00 g / 1.00 mL	SM18 2540G	BAL0020	SAL0061	
17K0890-41	1.00 g / 1.00 mL	SM18 2540G	BAL0020	SAL0061	
17K0890-42	1.00 g / 1.00 mL	SM18 2540G	BAL0020	SAL0061	
17K0890-43	1.00 g / 1.00 mL	SM18 2540G	BAL0020	SAL0061	
17K0890-44	1.00 g / 1.00 mL	SM18 2540G	BAL0020	SAL0061	
17K0890-45	1.00 g / 1.00 mL	SM18 2540G	BAL0020	SAL0061	
17K0890-46	1.00 g / 1.00 mL	SM18 2540G	BAL0020	SAL0061	
17K0890-47	1.00 g / 1.00 mL	SM18 2540G	BAL0020	SAL0061	
17K0890-48	1.00 g / 1.00 mL	SM18 2540G	BAL0020	SAL0061	
17K0890-49	1.00 g / 1.00 mL	SM18 2540G	BAL0020	SAL0061	
17K0890-50	1.00 g / 1.00 mL	SM18 2540G	BAL0020	SAL0061	

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 6000/7000 Series Methods		Preparation Method:	SW3050B		
17K0890-19	1.05 g / 50.0 mL	SW7010	BAK0886	SAL0227	AL70037
17K0890-19	1.05 g / 50.0 mL	SW7010	BAK0886	SAL0297	AL70060
17K0890-20	1.03 g / 50.0 mL	SW7010	BAK0886	SAL0211	AL70047
17K0890-20	1.03 g / 50.0 mL	SW7010	BAK0886	SAL0227	AL70037
17K0890-21	1.07 g / 50.0 mL	SW7010	BAK0886	SAL0227	AL70037
17K0890-21	1.07 g / 50.0 mL	SW7010	BAK0886	SAL0297	AL70060
17K0890-22	1.04 g / 50.0 mL	SW7010	BAK0886	SAL0211	AL70047
17K0890-22	1.04 g / 50.0 mL	SW7010	BAK0886	SAL0227	AL70037
17K0890-23	1.02 g / 50.0 mL	SW7010	BAK0886	SAL0227	AL70037
17K0890-23	1.02 g / 50.0 mL	SW7010	BAK0886	SAL0297	AL70060
17K0890-24	1.04 g / 50.0 mL	SW7010	BAK0886	SAL0211	AL70047
17K0890-24	1.04 g / 50.0 mL	SW7010	BAK0886	SAL0227	AL70037



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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
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Date Issued: 12/14/2017 8:53

Submitted To: Thomas Liesfeld

Project Number: R15434R-12

Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
17K0890-25	1.09 g / 50.0 mL	SW7010	BAK0886	SAL0227	AL70037
17K0890-25	1.09 g / 50.0 mL	SW7010	BAK0886	SAL0297	AL70060
17K0890-26	1.02 g / 50.0 mL	SW7010	BAK0886	SAL0211	AL70047
17K0890-26	1.02 g / 50.0 mL	SW7010	BAK0886	SAL0227	AL70037
17K0890-27	1.02 g / 50.0 mL	SW7010	BAK0886	SAL0227	AL70037
17K0890-27	1.02 g / 50.0 mL	SW7010	BAK0886	SAL0297	AL70060
17K0890-28	1.06 g / 50.0 mL	SW7010	BAK0886	SAL0211	AL70047
17K0890-28	1.06 g / 50.0 mL	SW7010	BAK0886	SAL0227	AL70037
17K0890-29	1.03 g / 50.0 mL	SW7010	BAK0886	SAL0227	AL70037
17K0890-29	1.03 g / 50.0 mL	SW7010	BAK0886	SAL0297	AL70060
17K0890-30	1.03 g / 50.0 mL	SW7010	BAK0886	SAL0227	AL70037
17K0890-30	1.03 g / 50.0 mL	SW7010	BAK0886	SAL0297	AL70060
17K0890-31	1.05 g / 50.0 mL	SW7010	BAK0886	SAL0227	AL70037
17K0890-31	1.05 g / 50.0 mL	SW7010	BAK0886	SAL0297	AL70060
17K0890-32	1.09 g / 50.0 mL	SW7010	BAK0886	SAL0227	AL70037
17K0890-32	1.09 g / 50.0 mL	SW7010	BAK0886	SAL0297	AL70060
17K0890-34	1.02 g / 50.0 mL	SW7010	BAK0886	SAL0211	AL70047
17K0890-34	1.02 g / 50.0 mL	SW7010	BAK0886	SAL0227	AL70037
17K0890-35	1.05 g / 50.0 mL	SW7010	BAK0886	SAL0227	AL70037
17K0890-35	1.05 g / 50.0 mL	SW7010	BAK0886	SAL0297	AL70060
17K0890-36	1.01 g / 50.0 mL	SW7010	BAK0886	SAL0211	AL70047
17K0890-36	1.01 g / 50.0 mL	SW7010	BAK0886	SAL0227	AL70037
17K0890-37	1.03 g / 50.0 mL	SW7010	BAK0886	SAL0227	AL70037
17K0890-37	1.03 g / 50.0 mL	SW7010	BAK0886	SAL0297	AL70060
17K0890-38	1.04 g / 50.0 mL	SW7010	BAK0886	SAL0211	AL70047
17K0890-38	1.04 g / 50.0 mL	SW7010	BAK0886	SAL0227	AL70037
Metals (Total) by EPA 6000/7000 Series Methods		Preparation Method:	SW3050B		
17K0890-39	1.07 g / 50.0 mL	SW7010	BAK0888	SAL0227	AL70037
17K0890-39	1.07 g / 50.0 mL	SW7010	BAK0888	SAL0377	AL70074
17K0890-40	1.03 g / 50.0 mL	SW7010	BAK0888	SAL0227	AL70037
17K0890-40	1.03 g / 50.0 mL	SW7010	BAK0888	SAL0344	AL70070
17K0890-41	1.02 g / 50.0 mL	SW7010	BAK0888	SAL0227	AL70037
17K0890-41	1.02 g / 50.0 mL	SW7010	BAK0888	SAL0377	AL70074
17K0890-42	1.01 g / 50.0 mL	SW7010	BAK0888	SAL0227	AL70037
17K0890-42	1.01 g / 50.0 mL	SW7010	BAK0888	SAL0344	AL70070
17K0890-43	1.03 g / 50.0 mL	SW7010	BAK0888	SAL0227	AL70037



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Final Report

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Date Issued: 12/14/2017 8:53

Submitted To: Thomas Liesfeld

Project Number: R15434R-12

Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
17K0890-43	1.03 g / 50.0 mL	SW7010	BAK0888	SAL0377	AL70074
17K0890-44	1.03 g / 50.0 mL	SW7010	BAK0888	SAL0227	AL70037
17K0890-44	1.03 g / 50.0 mL	SW7010	BAK0888	SAL0344	AL70070
17K0890-45	1.03 g / 50.0 mL	SW7010	BAK0888	SAL0227	AL70037
17K0890-45	1.03 g / 50.0 mL	SW7010	BAK0888	SAL0344	AL70070
17K0890-46	1.10 g / 50.0 mL	SW7010	BAK0888	SAL0227	AL70037
17K0890-46	1.10 g / 50.0 mL	SW7010	BAK0888	SAL0344	AL70070
17K0890-47	1.00 g / 50.0 mL	SW7010	BAK0888	SAL0227	AL70037
17K0890-47	1.00 g / 50.0 mL	SW7010	BAK0888	SAL0344	AL70070
17K0890-48	1.09 g / 50.0 mL	SW7010	BAK0888	SAL0227	AL70037
17K0890-48	1.09 g / 50.0 mL	SW7010	BAK0888	SAL0377	AL70074
17K0890-49	1.01 g / 50.0 mL	SW7010	BAK0888	SAL0339	AL70069
17K0890-49	1.01 g / 50.0 mL	SW7010	BAK0888	SAL0377	AL70074
17K0890-50	1.02 g / 50.0 mL	SW7010	BAK0888	SAL0227	AL70037
17K0890-50	1.02 g / 50.0 mL	SW7010	BAK0888	SAL0377	AL70074
Metals (Total) by EPA 6000/7000 Series Methods		Preparation Method: SW3050B			
17K0890-33	1.08 g / 50.0 mL	SW7010	BAL0040	SAL0339	AL70069
17K0890-33	1.08 g / 50.0 mL	SW7010	BAL0040	SAL0377	AL70074

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 6000/7000 Series Methods		Preparation Method: SW3050B-AA			
17K0890-01	1.09 g / 50.0 mL	SW7010	BAL0121	SAL0127	AL70024
17K0890-01	1.09 g / 50.0 mL	SW7010	BAL0121	SAL0377	AL70074
17K0890-02	1.05 g / 50.0 mL	SW7010	BAL0121	SAL0127	AL70024
17K0890-02	1.05 g / 50.0 mL	SW7010	BAL0121	SAL0377	AL70074
17K0890-03	1.08 g / 50.0 mL	SW7010	BAL0121	SAL0127	AL70024
17K0890-03	1.08 g / 50.0 mL	SW7010	BAL0121	SAL0377	AL70074
17K0890-04	1.07 g / 50.0 mL	SW7010	BAL0121	SAL0127	AL70024
17K0890-04	1.07 g / 50.0 mL	SW7010	BAL0121	SAL0344	AL70070
17K0890-05	1.09 g / 50.0 mL	SW7010	BAL0121	SAL0227	AL70037
17K0890-05	1.09 g / 50.0 mL	SW7010	BAL0121	SAL0377	AL70074
17K0890-06	1.04 g / 50.0 mL	SW7010	BAL0121	SAL0127	AL70024
17K0890-06	1.04 g / 50.0 mL	SW7010	BAL0121	SAL0344	AL70070
17K0890-07	1.08 g / 50.0 mL	SW7010	BAL0121	SAL0127	AL70024
17K0890-07	1.08 g / 50.0 mL	SW7010	BAL0121	SAL0377	AL70074



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Submitted To: Thomas Liesfeld

Project Number: R15434R-12

Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
17K0890-08	1.02 g / 50.0 mL	SW7010	BAL0121	SAL0127	AL70024
17K0890-08	1.02 g / 50.0 mL	SW7010	BAL0121	SAL0211	AL70047
17K0890-09	1.07 g / 50.0 mL	SW7010	BAL0121	SAL0227	AL70037
17K0890-09	1.07 g / 50.0 mL	SW7010	BAL0121	SAL0297	AL70060
17K0890-10	1.01 g / 50.0 mL	SW7010	BAL0121	SAL0127	AL70024
17K0890-10	1.01 g / 50.0 mL	SW7010	BAL0121	SAL0211	AL70047
17K0890-11	1.04 g / 50.0 mL	SW7010	BAL0121	SAL0227	AL70037
17K0890-11	1.04 g / 50.0 mL	SW7010	BAL0121	SAL0377	AL70074
17K0890-12	1.08 g / 50.0 mL	SW7010	BAL0121	SAL0127	AL70024
17K0890-12	1.08 g / 50.0 mL	SW7010	BAL0121	SAL0211	AL70047
17K0890-13	1.02 g / 50.0 mL	SW7010	BAL0121	SAL0127	AL70024
17K0890-13	1.02 g / 50.0 mL	SW7010	BAL0121	SAL0297	AL70060
17K0890-14	1.03 g / 50.0 mL	SW7010	BAL0121	SAL0127	AL70024
17K0890-14	1.03 g / 50.0 mL	SW7010	BAL0121	SAL0211	AL70047
17K0890-15	1.07 g / 50.0 mL	SW7010	BAL0121	SAL0127	AL70024
17K0890-15	1.07 g / 50.0 mL	SW7010	BAL0121	SAL0297	AL70060
17K0890-16	1.10 g / 50.0 mL	SW7010	BAL0121	SAL0127	AL70024
17K0890-16	1.10 g / 50.0 mL	SW7010	BAL0121	SAL0211	AL70047
17K0890-17	1.01 g / 50.0 mL	SW7010	BAL0121	SAL0127	AL70024
17K0890-17	1.01 g / 50.0 mL	SW7010	BAL0121	SAL0211	AL70047
17K0890-18	1.02 g / 50.0 mL	SW7010	BAL0121	SAL0127	AL70024
17K0890-18	1.02 g / 50.0 mL	SW7010	BAL0121	SAL0195	AL70043



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Client Name: Thomas Liesfeld Date Issued: 12/14/2017 8:53
 859 Ben Hatcher Rd
 Waynesboro GA, 30830
 Submitted To: Thomas Liesfeld Project Number: R15434R-12
 Client Site I.D.: NKWP/Confirmatory Sampling Purchase Order:

Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BAK0886 - SW3050B										
Blank (BAK0886-BLK1)				Prepared: 12/01/2017 Analyzed: 12/07/2017						
Arsenic	<0.500 mg/kg wet	0.500	mg/kg wet							
Blank (BAK0886-BLK2)				Prepared: 12/01/2017 Analyzed: 12/08/2017						
Chromium	0.144 mg/kg wet	0.050	mg/kg wet							E
LCS (BAK0886-BS1)				Prepared: 12/01/2017 Analyzed: 12/07/2017						
Arsenic	96.5 mg/kg wet	48.3	mg/kg wet	96.6	mg/kg wet	99.9	80-120			
LCS (BAK0886-BS2)				Prepared: 12/01/2017 Analyzed: 12/08/2017						
Chromium	90.4 mg/kg wet	48.3	mg/kg wet	96.6	mg/kg wet	93.6	80-120			E
LCS Dup (BAK0886-BSD1)				Prepared: 12/01/2017 Analyzed: 12/07/2017						
Arsenic	90.2 mg/kg wet	47.1	mg/kg wet	94.3	mg/kg wet	95.7	80-120	6.77	20	
LCS Dup (BAK0886-BSD2)				Prepared: 12/01/2017 Analyzed: 12/08/2017						
Chromium	108 mg/kg wet	47.1	mg/kg wet	94.3	mg/kg wet	115	80-120	18.1	20	E
Matrix Spike (BAK0886-MS1)				Source: 17K0890-28 Prepared: 12/01/2017 Analyzed: 12/07/2017						
Arsenic	92.7 mg/kg dry	53.5	mg/kg dry	107	<53.5 mg/kg dry	86.6	75-125			
Matrix Spike (BAK0886-MS2)				Source: 17K0890-38 Prepared: 12/01/2017 Analyzed: 12/07/2017						
Arsenic	92.5 mg/kg dry	52.4	mg/kg dry	105	<52.4 mg/kg dry	88.2	75-125			
Matrix Spike (BAK0886-MS3)				Source: 17K0890-28 Prepared: 12/01/2017 Analyzed: 12/08/2017						
Chromium	112 mg/kg dry	53.5	mg/kg dry	107	<53.5 mg/kg dry	105	75-125			E
Matrix Spike (BAK0886-MS4)				Source: 17K0890-38 Prepared: 12/01/2017 Analyzed: 12/08/2017						
Chromium	102 mg/kg dry	52.4	mg/kg dry	105	<52.4 mg/kg dry	97.4	75-125			E



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Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0886 - SW3050B

Matrix Spike Dup (BAK0886-MSD1)		Source: 17K0890-28		Prepared: 12/01/2017 Analyzed: 12/07/2017						
Arsenic	86.7 mg/kg dry	50.5	mg/kg dry	101	<50.5 mg/kg dry	85.8	75-125	6.68	20	
Matrix Spike Dup (BAK0886-MSD2)		Source: 17K0890-38		Prepared: 12/01/2017 Analyzed: 12/07/2017						
Arsenic	99.9 mg/kg dry	52.5	mg/kg dry	105	<52.5 mg/kg dry	95.1	75-125	7.65	20	
Matrix Spike Dup (BAK0886-MSD3)		Source: 17K0890-28		Prepared: 12/01/2017 Analyzed: 12/08/2017						
Chromium	104 mg/kg dry	50.5	mg/kg dry	101	<50.5 mg/kg dry	103	75-125	7.59	20	E
Matrix Spike Dup (BAK0886-MSD4)		Source: 17K0890-38		Prepared: 12/01/2017 Analyzed: 12/08/2017						
Chromium	107 mg/kg dry	52.5	mg/kg dry	105	<52.5 mg/kg dry	102	75-125	5.07	20	E

Batch BAK0888 - SW3050B

Blank (BAK0888-BLK1)		Prepared: 12/01/2017 Analyzed: 12/07/2017								
Arsenic	<0.500 mg/kg wet	0.500	mg/kg wet							
Blank (BAK0888-BLK2)		Prepared: 12/01/2017 Analyzed: 12/12/2017								
Chromium	0.152 mg/kg wet	0.050	mg/kg wet							B, E
LCS (BAK0888-BS1)		Prepared: 12/01/2017 Analyzed: 12/07/2017								
Arsenic	92.3 mg/kg wet	47.9	mg/kg wet	95.9	mg/kg wet	96.2	80-120			
LCS (BAK0888-BS2)		Prepared: 12/01/2017 Analyzed: 12/12/2017								
Chromium	109 mg/kg wet	47.9	mg/kg wet	95.9	mg/kg wet	114	80-120			E
LCS Dup (BAK0888-BSD1)		Prepared: 12/01/2017 Analyzed: 12/07/2017								
Arsenic	95.1 mg/kg wet	49.3	mg/kg wet	98.6	mg/kg wet	96.4	80-120	3.03	20	



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Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limit	RPD	RPD Limit	Qual
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Batch BAK0888 - SW3050B

LCS Dup (BAK0888-BSD2)				Prepared: 12/01/2017 Analyzed: 12/12/2017						
Chromium	104 mg/kg wet	49.3	mg/kg wet	98.6	mg/kg wet	105	80-120	4.91	20	E
Matrix Spike (BAK0888-MS1)				Source: 17K0890-45 Prepared: 12/01/2017 Analyzed: 12/07/2017						
Arsenic	91.9 mg/kg dry	48.4	mg/kg dry	96.9	<48.4 mg/kg dry	94.9	75-125			
Matrix Spike (BAK0888-MS2)				Source: 17K0890-50 Prepared: 12/01/2017 Analyzed: 12/07/2017						
Arsenic	151 mg/kg dry	54.3	mg/kg dry	109	<54.3 mg/kg dry	139	75-125			M
Matrix Spike (BAK0888-MS3)				Source: 17K0890-45 Prepared: 12/01/2017 Analyzed: 12/12/2017						
Chromium	117 mg/kg dry	48.4	mg/kg dry	96.9	<48.4 mg/kg dry	121	75-125			E
Matrix Spike (BAK0888-MS4)				Source: 17K0890-50 Prepared: 12/01/2017 Analyzed: 12/12/2017						
Chromium	132 mg/kg dry	54.3	mg/kg dry	109	<54.3 mg/kg dry	121	75-125			E
Matrix Spike Dup (BAK0888-MSD1)				Source: 17K0890-45 Prepared: 12/01/2017 Analyzed: 12/07/2017						
Arsenic	95.1 mg/kg dry	49.3	mg/kg dry	98.6	<49.3 mg/kg dry	96.4	75-125	3.36	20	
Matrix Spike Dup (BAK0888-MSD2)				Source: 17K0890-50 Prepared: 12/01/2017 Analyzed: 12/07/2017						
Arsenic	96.9 mg/kg dry	51.3	mg/kg dry	103	<51.3 mg/kg dry	94.5	75-125	43.4	20	P
Matrix Spike Dup (BAK0888-MSD3)				Source: 17K0890-45 Prepared: 12/01/2017 Analyzed: 12/12/2017						
Chromium	115 mg/kg dry	49.3	mg/kg dry	98.6	<49.3 mg/kg dry	116	75-125	2.04	20	E
Matrix Spike Dup (BAK0888-MSD4)				Source: 17K0890-50 Prepared: 12/01/2017 Analyzed: 12/12/2017						
Chromium	128 mg/kg dry	51.3	mg/kg dry	103	<51.3 mg/kg dry	125	75-125	2.78	20	E

Batch BAL0040 - SW3050B

Blank (BAL0040-BLK1)				Prepared: 12/04/2017 Analyzed: 12/12/2017						
Arsenic	<0.500 mg/kg wet	0.500	mg/kg wet							



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Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Qual
Batch BAL0040 - SW3050B									
Blank (BAL0040-BLK2)					Prepared: 12/04/2017 Analyzed: 12/13/2017				
Chromium	0.130 mg/kg wet	0.050	mg/kg wet						B, E
LCS (BAL0040-BS1)					Prepared: 12/04/2017 Analyzed: 12/12/2017				
Arsenic	78.7 mg/kg wet	48.2	mg/kg wet	96.4	mg/kg wet	81.6	80-120		
LCS (BAL0040-BS2)					Prepared: 12/04/2017 Analyzed: 12/13/2017				
Chromium	94.3 mg/kg wet	48.2	mg/kg wet	96.4	mg/kg wet	97.7	80-120		E
LCS Dup (BAL0040-BSD1)					Prepared: 12/04/2017 Analyzed: 12/12/2017				
Arsenic	76.5 mg/kg wet	47.0	mg/kg wet	94.0	mg/kg wet	81.4	80-120	2.82	20
LCS Dup (BAL0040-BSD2)					Prepared: 12/04/2017 Analyzed: 12/13/2017				
Chromium	89.5 mg/kg wet	47.0	mg/kg wet	94.0	mg/kg wet	95.2	80-120	5.22	20 E
Matrix Spike (BAL0040-MS1)					Source: 17L0031-01 Prepared: 12/04/2017 Analyzed: 12/12/2017				
Arsenic	91.7 mg/kg wet	46.6	mg/kg wet	93.2	<46.6 mg/kg wet	98.4	75-125		
Matrix Spike (BAL0040-MS2)					Source: 17L0031-01 Prepared: 12/04/2017 Analyzed: 12/13/2017				
Chromium	130 mg/kg wet	46.6	mg/kg wet	93.2	<46.6 mg/kg wet	139	75-125		M2, E
Matrix Spike Dup (BAL0040-MSD1)					Source: 17L0031-01 Prepared: 12/04/2017 Analyzed: 12/12/2017				
Arsenic	89.5 mg/kg wet	46.9	mg/kg wet	93.9	<46.9 mg/kg wet	95.3	75-125	2.52	20
Matrix Spike Dup (BAL0040-MSD2)					Source: 17L0031-01 Prepared: 12/04/2017 Analyzed: 12/13/2017				
Chromium	132 mg/kg wet	46.9	mg/kg wet	93.9	<46.9 mg/kg wet	141	75-125	1.90	20 M2, E
Batch BAL0121 - SW3050B-AA									
Blank (BAL0121-BLK1)					Prepared: 12/01/2017 Analyzed: 12/05/2017				
Arsenic	<0.500 mg/kg wet	0.500	mg/kg wet						



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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld Date Issued: 12/14/2017 8:53
 859 Ben Hatcher Rd
 Waynesboro GA, 30830
 Submitted To: Thomas Liesfeld Project Number: R15434R-12
 Client Site I.D.: NKWP/Confirmatory Sampling Purchase Order:

Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BAL0121 - SW3050B-AA										
Blank (BAL0121-BLK2)				Prepared: 12/01/2017 Analyzed: 12/07/2017						
Chromium	<0.050 mg/kg wet	0.050	mg/kg wet							
LCS (BAL0121-BS1)				Prepared: 12/01/2017 Analyzed: 12/05/2017						
Arsenic	95.7 mg/kg wet	48.2	mg/kg wet	96.4	mg/kg wet	99.3	80-120			
LCS (BAL0121-BS2)				Prepared: 12/01/2017 Analyzed: 12/07/2017						
Chromium	99.4 mg/kg wet	48.2	mg/kg wet	96.4	mg/kg wet	103	80-120			E
LCS Dup (BAL0121-BSD1)				Prepared: 12/01/2017 Analyzed: 12/05/2017						
Arsenic	90.1 mg/kg wet	45.6	mg/kg wet	91.2	mg/kg wet	98.8	80-120	6.04	20	
LCS Dup (BAL0121-BSD2)				Prepared: 12/01/2017 Analyzed: 12/07/2017						
Chromium	85.9 mg/kg wet	45.6	mg/kg wet	91.2	mg/kg wet	94.2	80-120	14.5	20	E
Matrix Spike (BAL0121-MS1)				Source: 17K0890-08		Prepared: 12/01/2017 Analyzed: 12/05/2017				
Arsenic	9.23 mg/kg dry	0.504	mg/kg dry	101	2.03 mg/kg dry	7.15	75-125			M, E
Matrix Spike (BAL0121-MS2)				Source: 17K0890-18		Prepared: 12/01/2017 Analyzed: 12/05/2017				
Arsenic	15.3 mg/kg dry	0.522	mg/kg dry	104	0.633 mg/kg dry	14.0	75-125			M, E
Matrix Spike (BAL0121-MS3)				Source: 17K0890-08		Prepared: 12/01/2017 Analyzed: 12/07/2017				
Chromium	114 mg/kg dry	50.4	mg/kg dry	101	<50.4 mg/kg dry	113	75-125			E
Matrix Spike (BAL0121-MS4)				Source: 17K0890-18		Prepared: 12/01/2017 Analyzed: 12/07/2017				
Chromium	124 mg/kg dry	52.2	mg/kg dry	104	<52.2 mg/kg dry	118	75-125			E
Matrix Spike Dup (BAL0121-MSD1)				Source: 17K0890-08		Prepared: 12/01/2017 Analyzed: 12/05/2017				
Arsenic	9.13 mg/kg dry	0.512	mg/kg dry	102	2.03 mg/kg dry	6.94	75-125	1.12	20	M, E



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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld Date Issued: 12/14/2017 8:53
 859 Ben Hatcher Rd
 Waynesboro GA, 30830
 Submitted To: Thomas Liesfeld Project Number: R15434R-12
 Client Site I.D.: NKWP/Confirmatory Sampling Purchase Order:

Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAL0121 - SW3050B-AA

Matrix Spike Dup (BAL0121-MSD2)		Source: 17K0890-18		Prepared: 12/01/2017 Analyzed: 12/05/2017						
Arsenic	15.3 mg/kg dry	0.517	mg/kg dry	103	0.633 mg/kg dry	14.2	75-125	0.438	20	M, E
Matrix Spike Dup (BAL0121-MSD3)		Source: 17K0890-08		Prepared: 12/01/2017 Analyzed: 12/07/2017						
Chromium	124 mg/kg dry	51.2	mg/kg dry	102	<51.2 mg/kg dry	121	75-125	8.40	20	E
Matrix Spike Dup (BAL0121-MSD4)		Source: 17K0890-18		Prepared: 12/01/2017 Analyzed: 12/07/2017						
Chromium	112 mg/kg dry	51.7	mg/kg dry	103	<51.7 mg/kg dry	108	75-125	10.2	20	E



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Client Name: Thomas Liesfeld Date Issued: 12/14/2017 8:53
 859 Ben Hatcher Rd
 Waynesboro GA, 30830
 Submitted To: Thomas Liesfeld Project Number: R15434R-12
 Client Site I.D.: NKWP/Confirmatory Sampling Purchase Order:

Wet Chemistry Analysis - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAK0867 - No Prep Wet Chem

Blank (BAK0867-BLK1)		Prepared & Analyzed: 11/29/2017								
Percent Solids	100 %	0.10	%							
Duplicate (BAK0867-DUP1)		Source: 17K0849-03		Prepared & Analyzed: 11/29/2017						
Percent Solids	88.7 %	0.10	%		89.0 %			0.307	20	
Duplicate (BAK0867-DUP2)		Source: 17K0890-10		Prepared & Analyzed: 11/29/2017						
Percent Solids	95.5 %	0.10	%		95.3 %			0.213	20	

Batch BAK0916 - No Prep Wet Chem

Blank (BAK0916-BLK1)		Prepared: 11/30/2017 Analyzed: 12/04/2017								
Percent Solids	100 %	0.10	%							
Duplicate (BAK0916-DUP1)		Source: 17K0890-20		Prepared: 11/30/2017 Analyzed: 12/04/2017						
Percent Solids	93.5 %	0.10	%		93.4 %			0.114	20	
Duplicate (BAK0916-DUP2)		Source: 17K0890-30		Prepared: 11/30/2017 Analyzed: 12/04/2017						
Percent Solids	93.5 %	0.10	%		93.8 %			0.296	20	

Batch BAL0020 - No Prep Wet Chem

Blank (BAL0020-BLK1)		Prepared & Analyzed: 12/01/2017								
Percent Solids	100 %	0.10	%							
Duplicate (BAL0020-DUP1)		Source: 17K0890-40		Prepared & Analyzed: 12/01/2017						
Percent Solids	94.0 %	0.10	%		94.2 %			0.223	20	



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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld Date Issued: 12/14/2017 8:53
 859 Ben Hatcher Rd
 Waynesboro GA, 30830
 Submitted To: Thomas Liesfeld Project Number: R15434R-12
 Client Site I.D.: NKWP/Confirmatory Sampling Purchase Order:

Wet Chemistry Analysis - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Qual
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Batch BAL0020 - No Prep Wet Chem

Duplicate (BAL0020-DUP2)

Source: 17K0890-50

Prepared & Analyzed: 12/01/2017

Percent Solids	90.2 %	0.10	%	90.5 %	0.336	20
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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld Date Issued: 12/14/2017 8:53
859 Ben Hatcher Rd
Waynesboro GA, 30830
Submitted To: Thomas Liesfeld Project Number: R15434R-12
Client Site I.D.: NKWP/Confirmatory Sampling Purchase Order:

Certified Analyses included in this Report

Analyte		Certifications	
SW7010 in Solids			
Arsenic		VELAP	
Chromium		VELAP	
Code	Description	Lab Number	Expires
MdDOE	Maryland DE Drinking Water	341	12/31/2018
NC	North Carolina DENR	495	12/31/2017
VELAP	NELAC-Virginia Certificate #9475	460021	06/14/2018
WVDEP	West Virginia DEP	350	11/30/2018



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Certificate of Analysis

Final Report

Client Name:	Thomas Liesfeld 859 Ben Hatcher Rd Waynesboro GA, 30830	Date Issued:	12/14/2017 8:53
Submitted To:	Thomas Liesfeld	Project Number:	R15434R-12
Client Site I.D.:	NKWP/Confirmatory Sampling	Purchase Order:	

Summary of Data Qualifiers

B Blank contamination. The recorded result is associated with a contaminated blank.

E Estimated concentration, outside calibration range

M Matrix spike recovery is outside established acceptance limits

M2 Sample was diluted due to matrix interference.

P Duplicate analysis does not meet the acceptance criteria for precision

RPD Relative Percent Difference

Qual Qualifiers

-RE Denotes sample was re-analyzed

D.F. Dilution Factor. Please also see the Preparation Factor in the Analysis Summary section.

TIC Tentatively Identified Compounds are compounds that are identified by comparing the analyte mass spectral pattern with the NIST spectral library .
A TIC spectral match is reported when the pattern is at least 75% consistent with the published pattern. Compound concentrations are estimated and are calculated using an internal standard response factor of 1.

PCBs, Total Total PCBs are defined as the sum of detected Aroclors 1016, 1221, 1232, 1248, 1254, 1260, 1262, and 1268.

CHAIN OF CUSTODY											
CLIENT: LIESFELD FARMS				CONSULTANT: DRAPER ADEN ASSOCIATES				COPY COA TO CONSULTANT? YES			
ATTN: THOMAS LIESFELD				ATTN: WILLIAM A SALOMONE (WSALOMONE@DAA.COM)				COPY INVOICE TO CONSULTANT? YES			
STREET: 859 BEN HATCHER ROAD				STREET: 8090 VILLA PARK DRIVE				PROJECT: NKWP / CONFIRMATORY SAMPLING			
CITY: WAYNESBORO, GA 30830				CITY: RICHMOND, VIRGINIA 23228				LOCATION: PROVIDENCE FORGE, VIRGINIA			
PHONE: 804-633-4288				PHONE: 804-264-2228				LABORATORY: AIR, WATER, & SOIL LABORATORIES			
TURN AROUND: 2 3 5 10 DAYS				P.O. #: R15434R-12				ANALYSES REQUESTED			
LAB USE ONLY	SAMPLE INFORMATION			COMPOSITE	Grab	NO. OF JARS	MATRIX	Metals (As, Cr)			COMMENTS (SAMPLING INTERVAL)
LAB ID	SAMPLE ID	DATE	TIME								
	EAI-SW11-12	11/28	8:35		✓	1	S	✓			
	EAI-SW11-24		8:30		✓	1	S	✓			
	EAI-SW12-12		8:45		✓	1	S	✓			
	EAI-SW12-24		8:40		✓	1	S	✓			
	EAI-SW13-12		8:55		✓	1	S	✓			
	EAI-SW13-24		8:50		✓	1	S	✓			
	EAI-SW14-12		9:25		✓	1	S	✓			
	EAI-SW14-24		9:20		✓	1	S	✓			
SAMPLED BY: <i>Kendall Dunham</i>				PRINTED NAME: Kendall Dunham				Level 2 data package. Please report all concentrations in mg/kg (dry weight). All dry weight analyses shall be total analysis.			
RELINQUISHED BY: <i>Kendall Dunham</i>		DATE: 11/28	TIME: 1720	RECEIVED BY: <i>[Signature]</i>		DATE: 11/28/17		TIME: 1720			
TEMP: 17.0		pH:		CONTENTS: A = AIR; S=SOIL; G=GROUNDWATER; WW=WASTEWATER							

Thomas Liesfeld 17K0890
 NKWP - Excavation - R15434R-12
 Recd: 11/28/2017 Due: 12/05/2017

CHAIN OF CUSTODY												
CLIENT: LIESFELD FARMS				CONSULTANT: DRAPER ADEN ASSOCIATES				COPY COA TO CONSULTANT? YES				
ATTN: THOMAS LIESFELD				ATTN: WILLIAM A SALOMONE (WSALOMONE@DAA.COM)				COPY INVOICE TO CONSULTANT? YES				
STREET: 859 BEN HATCHER ROAD				STREET: 8090 VILLA PARK DRIVE				PROJECT: NKWP / CONFIRMATORY SAMPLING				
CITY: WAYNESBORO, GA 30830				CITY: RICHMOND, VIRGINIA 23228				LOCATION: PROVIDENCE FORGE, VIRGINIA				
PHONE: 804-833-4286				PHONE: 804-264-2228				LABORATORY: AIR, WATER, & SOIL LABORATORIES				
TURN AROUND: 1 2 3 5 10 DAYS				P.O. #: R15434R-12				ANALYSES REQUESTED				
LAB USE ONLY	SAMPLE INFORMATION			COMPOSITE	Grab	NO. OF JARS	MATRIX	Metals (As, Cr)			COMMENTS (SAMPLING INTERVAL)	
LAB ID	SAMPLE ID	DATE	TIME									
	EAI-SW15-12	11/28	935		✓	1	S	✓				
	EAI-SW15-24		930		✓	1	S	✓				
	EAI-SW16-12		945		✓	1	S	✓				
	EAI-SW16-24		940		✓	1	S	✓				
	EAI-SW17-12		955		✓	1	S	✓				
	EAI-SW17-24		950		✓	1	S	✓				
	EAI-SW18-12		1020		✓	1	S	✓				
	EAI-SW18-24		1015		✓	1	S	✓				
SAMPLED BY: <i>Kendall Dunham</i>				PRINTED NAME: kendall dunham				Level 2 data package. Please report all concentrations in mg/kg (dry weight). All dry weight analyses shall be total analysis.				
RELINQUISHED BY: <i>Kendall Dunham</i>		DATE: 11/28	TIME: 1720	RECEIVED BY: <i>Be-Rill</i>		DATE: 11/28/17		TIME: 1720				
TEMP: 17.0		pH:		CONTENTS: A = AIR; S=SOIL; G=GROUNDWATER; WW=WASTEWATER								

No Sal
No Ice

Thomas Liesfeld
NKWP - Excavation - R15434R-12
17K0890
 Recd: 11/28/2017 Due: 12/05/2017
 v130325002

CHAIN OF CUSTODY												
CLIENT: LIESFELD FARMS				CONSULTANT: DRAPER ADEN ASSOCIATES				COPY COA TO CONSULTANT? YES				
ATTN: THOMAS LIESFELD				ATTN: WILLIAM A SALOMONE (WSALOMONE@DAA.COM)				COPY INVOICE TO CONSULTANT? YES				
STREET: 859 BEN HATCHER ROAD				STREET: 8090 VILLA PARK DRIVE				PROJECT: NKWP / CONFIRMATORY SAMPLING				
CITY: WAYNESBORO, GA 30830				CITY: RICHMOND, VIRGINIA 23228				LOCATION: PROVIDENCE FORGE, VIRGINIA				
PHONE: 804-833-4286				PHONE: 804-264-2228				LABORATORY: AIR, WATER, & SOIL LABORATORIES				
TURN AROUND: 1 2 3 5 10 DAYS				P.O. #: R15434R-12				ANALYSES REQUESTED				
LAB USE ONLY	SAMPLE INFORMATION			COMPOSITE	Grab	NO. OF JARS	MATRIX	Metals (As, Cr)			COMMENTS (SAMPLING INTERVAL)	
LAB ID	SAMPLE ID	DATE	TIME									
	EAI-SW19-12	11/28	1030		J	1	S	✓				
	EAI-SW19-24	1	1025		J	1	S	✓				
	EAI-SW20-12		1100		✓	1	S	✓				
	EAI-SW20-24		1055		✓	1	S	✓				
	EAI-SW21-12		1110		✓	1	S	✓				
	EAI-SW21-24		1105		✓	1	S	✓				
	EAI-SW22-12		1120		✓	1	S	✓				
	EAI-SW22-24	1	1115		✓	1	S	✓				
SAMPLED BY: <i>Kendall Dunham</i>				PRINTED NAME: Kendall Dunham				Level 2 data package. Please report all concentrations in mg/kg (dry weight). All dry weight analyses shall be total analysis.				
RELINQUISHED BY: <i>Kendall Dunham</i>		DATE: 11/28	TIME: 1720	RECEIVED BY: <i>[Signature]</i>		DATE: 11/28/17		TIME: 1720				
TEMP: 17.0		pH:		CONTENTS: A = AIR; S=SOIL; G=GROUNDWATER; WW=WASTEWATER								

*No Seal
No Ice*

Thomas Liesfeld 17K0890
NKWP - Excavation - R15434R-12
Recd: 11/28/2017 Due: 12/05/2017

CHAIN OF CUSTODY											
CLIENT: LIESFELD FARMS				CONSULTANT: DRAPER ADEN ASSOCIATES				COPY COA TO CONSULTANT? YES			
ATTN: THOMAS LIESFELD				ATTN: WILLIAM A SALOMONE (WSALOMONE@DAA.COM)				COPY INVOICE TO CONSULTANT? YES			
STREET: 859 BEN HATCHER ROAD				STREET: 8090 VILLA PARK DRIVE				PROJECT: NKWP / CONFIRMATORY SAMPLING			
CITY: WAYNESBORO, GA 30830				CITY: RICHMOND, VIRGINIA 23228				LOCATION: PROVIDENCE FORGE, VIRGINIA			
PHONE: 804-833-4286				PHONE: 804-264-2228				LABORATORY: AIR, WATER, & SOIL LABORATORIES			
TURN AROUND: 1 2 3 5 10 DAYS				P.O. #: R15434R-12				ANALYSES REQUESTED			
LAB USE ONLY	SAMPLE INFORMATION			COMPOSITE	Grab	NO. OF JARS	MATRIX	Metals (As, Cr)		COMMENTS (SAMPLING INTERVAL)	
LAB ID	SAMPLE ID	DATE	TIME								
	EAI-SW23-12	11/28	1130		✓	1	S	✓			
	EAI-SW23-24		1135		✓	1	S	✓			
	EAI-SW24-12		1150		✓	1	S	✓			
	EAI-SW24-24		1145		✓	1	S	✓			
	EAI-SW25-12		+1551200		✓	1	S	✓			
	EAI-SW25-24		+2001155		✓	1	S	✓			
	EAI-SW26-12		1210		✓	1	S	✓			
	EAI-SW26-24		1205		✓	1	S	✓			
SAMPLED BY: <i>Kendall Dunham</i>				PRINTED NAME: Kendall Dunham				Level 2 data package. Please report all concentrations in mg/kg (dry weight). All dry weight analyses shall be total analysis.			
RELINQUISHED BY: <i>Kendall Dunham</i>		DATE: 11/28	TIME: 1720	RECEIVED BY: <i>Be. RV</i>		DATE: 11/28/17		1720			
TEMP: 17.0		pH:		CONTENTS: A = AIR; S=SOIL; G=GROUNDWATER; WW=WASTEWATER							

*No Sed
No He*

Thomas Liesfeld 17K0890
NKWP - Excavation - R15434R-12
Recd: 11/28/2017 Due: 12/05/2017

CHAIN OF CUSTODY												
CLIENT: LIESFELD FARMS				CONSULTANT: DRAPER ADEN ASSOCIATES				COPY COA TO CONSULTANT? YES				
ATTN: THOMAS LIESFELD				ATTN: WILLIAM A SALOMONE (WSALOMONE@DAA.COM)				COPY INVOICE TO CONSULTANT? YES				
STREET: 859 BEN HATCHER ROAD				STREET: 8090 VILLA PARK DRIVE				PROJECT: NKWP / CONFIRMATORY SAMPLING				
CITY: WAYNESBORO, GA 30830				CITY: RICHMOND, VIRGINIA 23228				LOCATION: PROVIDENCE FORGE, VIRGINIA				
PHONE: 804-833-4286				PHONE: 804-264-2228				LABORATORY: AIR, WATER, & SOIL LABORATORIES				
TURN AROUND: 1 2 3 5 10 DAYS				P.O. #: R15434R-12				ANALYSES REQUESTED				
LAB USE ONLY	SAMPLE INFORMATION			COMPOSITE	Grab	NO. OF JARS	MATRIX	Metals (As, Cr)		COMMENTS (SAMPLING INTERVAL)		
LAB ID	SAMPLE ID	DATE	TIME									
	EAI-SW27-12	11/28	1220		✓	1	S	✓				
	EAI-SW27-24		1215		✓	1	S	✓				
	EAI-SW28-12		1235		✓	1	S	✓				
	EAI-SW28-24		1230		✓	1	S	✓				
	EAI-SW29-12		1245		✓	1	S	✓				
	EAI-SW29-24		1240		✓	1	S	✓				
	EAI-SW30-12		1300		✓	1	S	✓				
	EAI-SW30-24		1255		✓	1	S	✓				
SAMPLED BY: <i>Kendall Dunham</i>				PRINTED NAME: Kendall Dunham				Level 2 data package. Please report all concentrations in mg/kg (dry weight). All dry weight analyses shall be total analysis.				
RELINQUISHED BY: <i>Kendall Dunham</i>		DATE: 11/28	TIME: 1720	RECEIVED BY: <i>[Signature]</i>		DATE: 11/28/17		TIME: 1720				
TEMP: 17.0		pH:		CONTENTS: A = AIR; S=SOIL; G=GROUNDWATER; WW=WASTEWATER								

Thomas Liesfeld 17K0890
 NKWP - Excavation - R15434R-12
 Recd: 11/28/2017 Due: 12/05/2017

CHAIN OF CUSTODY														
CLIENT: LIESFELD FARMS				CONSULTANT: DRAPER ADEN ASSOCIATES				COPY COA TO CONSULTANT? YES						
ATTN: THOMAS LIESFELD				ATTN: WILLIAM A SALOMONE (WSALOMONE@DAA.COM)				COPY INVOICE TO CONSULTANT? YES						
STREET: 859 BEN HATCHER ROAD				STREET: 8080 VILLA PARK DRIVE				PROJECT: NKWP / CONFIRMATORY SAMPLING						
CITY: WAYNESBORO, GA 30830				CITY: RICHMOND, VIRGINIA 23228				LOCATION: PROVIDENCE FORGE, VIRGINIA						
PHONE: 804-833-4286				PHONE: 804-264-2228				LABORATORY: AIR, WATER, & SOIL LABORATORIES						
TURN AROUND: 1 2 3 5 10 DAYS				P.O. #: R15434R-12				ANALYSES REQUESTED						
LAB USE ONLY		SAMPLE INFORMATION				COMPOSITE	Grab	NO. OF JARS	MATRIX	Metals (As, Cr)				COMMENTS (SAMPLING INTERVAL)
LAB ID	SAMPLE ID	DATE	TIME											
	EAI-SW31-12	11/28	1310		✓	1	S	✓						
	EAI-SW31-24	11/28	1305		✓	1	S	✓						
	EAI-SW32-12		1500		✓	1	S	✓						
	EAI-SW32-24		1505		✓	1	S	✓						
	EAI-SW33-12		1510		✓	1	S	✓					sed. basin 2	
	EAI-SW33-24		1515		✓	1	S	✓					sed. basin 2	
	EAI-SW34-12		1520		✓	1	S	✓					sed. basin 3	
	EAI-SW34-24		1525		✓	1	S	✓					sed. basin 3	
SAMPLED BY: <i>Kendall Dunham</i>				PRINTED NAME: Kendall Dunham				Level 2 data package. Please report all concentrations in mg/kg (dry weight). All dry weight analyses shall be total analysis.						
RELINQUISHED BY: <i>Kendall Dunham</i>		DATE: 11/28	TIME: 1720	RECEIVED BY: <i>[Signature]</i>				DATE: 11/28/17		TIME: 1720				
TEMP: 17.0		pH:		CONTENTS: A = AIR; S=SOIL; G=GROUNDWATER; WW=WASTEWATER										

Thomas Liesfeld 17K0890
 NKWP - Excavation - R15434R-12
 Recd: 11/28/2017 Due: 12/05/2017



1941 Reymet Road • Richmond, Virginia 23230 • Tel: (804)-358-8295 Fax: (804)-358-8297

Certificate of Analysis

Final Report

Client Name:	Thomas Liesfeld 859 Ben Hatcher Rd Waynesboro GA, 30830	Date Issued:	12/14/2017 8:53
Submitted To:	Thomas Liesfeld	Project Number:	R15434R-12
Client Site I.D.:	NKWP/Confirmatory Sampling	Purchase Order:	

Sample Conditions Checklist

Samples Received at:	17.00°C
How were samples received?	Walk In
Were Custody Seals used? If so, were they received intact?	No
Are the custody papers filled out completely and correctly?	Yes
Do all bottle labels agree with custody papers?	Yes
Is the temperature blank or representative sample within acceptable limits? (above freezing to 6°C) or received on ice and recently taken?	No
Are all samples within holding time for requested laboratory tests?	Yes
Is a sufficient amount of sample provided to perform the tests included?	Yes
Are all samples in appropriate containers for the analyses requested?	Yes
Were volatile organic containers received?	No
Are all volatile organic and TOX containers free of headspace?	NA
Is a trip blank provided for each VOC sample set? VOC sample sets include EPA8011, EPA504, EPA8260, EPA624, EPA8015 GRO, EPA8021, EPA524, and RSK-175.	NA
Are all samples received appropriately preserved? Note that metals containers do not require field preservation but lab preservation may delay analysis.	Yes

Work Order Comments

Due to instrument failure; ok per Thomas Liesfeld, As and Cr will be analyzed by GFAA. KLC 12/5/17 13:44.



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Certificate of Analysis

Final Report

Laboratory Order ID 17L0342

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro, GA 30830

Date Received: December 11, 2017 13:08

Date Issued: December 20, 2017 13:01

Project Number: [none]

Submitted To: Thomas Liesfeld

Purchase Order:

Client Site I.D.: NKWP/Confirmatory Sampling

Enclosed are the results of analyses for samples received by the laboratory on 12/11/2017 13:08. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

A handwritten signature in black ink that reads "Ted Soyars".

Ted Soyars
Laboratory Manager

End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld Date Issued: 12/20/2017 13:01
859 Ben Hatcher Rd
Waynesboro GA, 30830
Submitted To: Thomas Liesfeld Project Number: [none]
Client Site I.D.: NKWP/Confirmatory Sampling Purchase Order:

ANALYTICAL REPORT FOR SAMPLES

Laboratory Order ID 17L0342

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EA3-SW1-12	17L0342-01	Soil	12/08/2017 08:55	12/11/2017 13:08
EA3-SW1-24	17L0342-02	Soil	12/08/2017 09:00	12/11/2017 13:08
EA3-SW2-12	17L0342-03	Soil	12/08/2017 09:10	12/11/2017 13:08
EA3-SW2-24	17L0342-04	Soil	12/08/2017 09:05	12/11/2017 13:08
EA3-SW3-12	17L0342-05	Soil	12/08/2017 09:20	12/11/2017 13:08
EA3-SW3-24	17L0342-06	Soil	12/08/2017 09:15	12/11/2017 13:08
EA3-SW4-12	17L0342-07	Soil	12/08/2017 09:30	12/11/2017 13:08
EA3-SW4-24	17L0342-08	Soil	12/08/2017 09:25	12/11/2017 13:08



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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro GA, 30830
Date Issued: 12/20/2017 13:01
Submitted To: Thomas Liesfeld
Project Number: [none]
Client Site I.D.: NKWP/Confirmatory Sampling
Purchase Order:

Laboratory Order ID: 17L0342

Analytical Results

Sample I.D. EA3-SW1-12

Laboratory Sample ID: 17L0342-01

Grab Date/Time: 12/08/2017 08:55

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	01	SW6010C	3.17 mg/kg dry		1.01	1	12/14/17 12:00	12/19/17 17:48	BG
Chromium	01	SW6010C	12.7 mg/kg dry		0.503	1	12/14/17 12:00	12/19/17 17:48	BG
Wet Chemistry Analysis									
Percent Solids	01	SM18 2540G	91.4 %		0.10	1	12/14/17 14:05	12/14/17 14:05	JCM



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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro GA, 30830
Date Issued: 12/20/2017 13:01

Submitted To: Thomas Liesfeld
Project Number: [none]
Client Site I.D.: NKWP/Confirmatory Sampling
Purchase Order:

Laboratory Order ID: 17L0342

Analytical Results

Sample I.D. EA3-SW1-24

Laboratory Sample ID: 17L0342-02

Grab Date/Time: 12/08/2017 09:00

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	02	SW6010C	49.2 mg/kg dry		1.01	1	12/14/17 12:00	12/19/17 17:51	BG
Chromium	02	SW6010C	66.5 mg/kg dry		0.505	1	12/14/17 12:00	12/19/17 17:50	BG
Wet Chemistry Analysis									
Percent Solids	02	SM18 2540G	92.0 %		0.10	1	12/14/17 14:05	12/14/17 14:05	JCM



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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro GA, 30830
Date Issued: 12/20/2017 13:01
Submitted To: Thomas Liesfeld
Project Number: [none]
Client Site I.D.: NKWP/Confirmatory Sampling
Purchase Order:

Laboratory Order ID: 17L0342

Analytical Results

Sample I.D. EA3-SW2-12

Laboratory Sample ID: 17L0342-03

Grab Date/Time: 12/08/2017 09:10

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	03	SW6010C	96.0 mg/kg dry		1.03	1	12/14/17 12:00	12/19/17 17:53	BG
Chromium	03	SW6010C	63.2 mg/kg dry		0.516	1	12/14/17 12:00	12/19/17 17:53	BG
Wet Chemistry Analysis									
Percent Solids	03	SM18 2540G	88.7 %		0.10	1	12/14/17 14:05	12/14/17 14:05	JCM



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Final Report

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro GA, 30830
Date Issued: 12/20/2017 13:01

Submitted To: Thomas Liesfeld
Project Number: [none]
Client Site I.D.: NKWP/Confirmatory Sampling
Purchase Order:

Laboratory Order ID: 17L0342

Analytical Results

Sample I.D. EA3-SW2-24

Laboratory Sample ID: 17L0342-04

Grab Date/Time: 12/08/2017 09:05

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	04	SW6010C	<1.00 mg/kg dry		1.00	1	12/14/17 12:00	12/19/17 17:55	BG
Chromium	04	SW6010C	4.72 mg/kg dry		0.500	1	12/14/17 12:00	12/19/17 17:55	BG
Wet Chemistry Analysis									
Percent Solids	04	SM18 2540G	95.4 %		0.10	1	12/14/17 14:05	12/14/17 14:05	JCM



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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro GA, 30830
Date Issued: 12/20/2017 13:01

Submitted To: Thomas Liesfeld
Project Number: [none]
Client Site I.D.: NKWP/Confirmatory Sampling
Purchase Order:

Laboratory Order ID: 17L0342

Analytical Results

Sample I.D. EA3-SW3-12

Laboratory Sample ID: 17L0342-05

Grab Date/Time: 12/08/2017 09:20

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	05	SW6010C	88.9 mg/kg dry		1.02	1	12/14/17 12:00	12/19/17 17:57	BG
Chromium	05	SW6010C	181 mg/kg dry		0.509	1	12/14/17 12:00	12/19/17 17:57	BG
Wet Chemistry Analysis									
Percent Solids	05	SM18 2540G	93.7 %		0.10	1	12/14/17 14:05	12/14/17 14:05	JCM



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Final Report

Client Name: Thomas Liesfeld Date Issued: 12/20/2017 13:01
859 Ben Hatcher Rd
Waynesboro GA, 30830
Submitted To: Thomas Liesfeld Project Number: [none]
Client Site I.D.: NKWP/Confirmatory Sampling Purchase Order:

Laboratory Order ID: 17L0342

Analytical Results

Sample I.D. EA3-SW3-24

Laboratory Sample ID: 17L0342-06

Grab Date/Time: 12/08/2017 09:15

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	06	SW6010C	1.65 mg/kg dry		1.02	1	12/14/17 12:00	12/19/17 18:00	BG
Chromium	06	SW6010C	11.0 mg/kg dry		0.509	1	12/14/17 12:00	12/19/17 18:00	BG
Wet Chemistry Analysis									
Percent Solids	06	SM18 2540G	91.8 %		0.10	1	12/14/17 14:05	12/14/17 14:05	JCM



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Final Report

Client Name: Thomas Liesfeld Date Issued: 12/20/2017 13:01
859 Ben Hatcher Rd
Waynesboro GA, 30830
Submitted To: Thomas Liesfeld Project Number: [none]
Client Site I.D.: NKWP/Confirmatory Sampling Purchase Order:

Laboratory Order ID: 17L0342

Analytical Results

Sample I.D. EA3-SW4-12

Laboratory Sample ID: 17L0342-07

Grab Date/Time: 12/08/2017 09:30

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	07	SW6010C	58.0 mg/kg dry		1.07	1	12/19/17 10:00	12/19/17 18:29	BG
Chromium	07	SW6010C	63.5 mg/kg dry		0.534	1	12/19/17 10:00	12/19/17 18:29	BG
Wet Chemistry Analysis									
Percent Solids	07	SM18 2540G	93.6 %		0.10	1	12/14/17 14:05	12/14/17 14:05	JCM



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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro GA, 30830
Date Issued: 12/20/2017 13:01

Submitted To: Thomas Liesfeld
Project Number: [none]
Client Site I.D.: NKWP/Confirmatory Sampling
Purchase Order:

Laboratory Order ID: 17L0342

Analytical Results

Sample I.D. EA3-SW4-24

Laboratory Sample ID: 17L0342-08

Grab Date/Time: 12/08/2017 09:25

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	08	SW6010C	<1.01 mg/kg dry		1.01	1	12/14/17 12:00	12/18/17 14:48	BG
Chromium	08	SW6010C	6.30 mg/kg dry		0.505	1	12/14/17 12:00	12/18/17 14:48	BG
Wet Chemistry Analysis									
Percent Solids	08	SM18 2540G	94.6 %		0.10	1	12/14/17 14:05	12/14/17 14:05	JCM



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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro GA, 30830

Date Issued: 12/20/2017 13:01

Submitted To: Thomas Liesfeld

Project Number: [none]

Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order:

Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Wet Chemistry Analysis		Preparation Method:	No Prep Wet Chem		
17L0342-01	1.00 g / 1.00 mL	SM18 2540G	BAL0427	SAL0456	
17L0342-02	1.00 g / 1.00 mL	SM18 2540G	BAL0427	SAL0456	
17L0342-03	1.00 g / 1.00 mL	SM18 2540G	BAL0427	SAL0456	
17L0342-04	1.00 g / 1.00 mL	SM18 2540G	BAL0427	SAL0456	
17L0342-05	1.00 g / 1.00 mL	SM18 2540G	BAL0427	SAL0456	
17L0342-06	1.00 g / 1.00 mL	SM18 2540G	BAL0427	SAL0456	
17L0342-07	1.00 g / 1.00 mL	SM18 2540G	BAL0427	SAL0456	
17L0342-08	1.00 g / 1.00 mL	SM18 2540G	BAL0427	SAL0456	
Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 6000/7000 Series Methods		Preparation Method:	SW3050B		
17L0342-01	1.09 g / 50.0 mL	SW6010C	BAL0420	SAL0573	AL70111
17L0342-02	1.08 g / 50.0 mL	SW6010C	BAL0420	SAL0573	AL70111
17L0342-03	1.09 g / 50.0 mL	SW6010C	BAL0420	SAL0573	AL70111
17L0342-04	1.07 g / 50.0 mL	SW6010C	BAL0420	SAL0573	AL70111
17L0342-05	1.05 g / 50.0 mL	SW6010C	BAL0420	SAL0573	AL70111
17L0342-06	1.07 g / 50.0 mL	SW6010C	BAL0420	SAL0573	AL70111
17L0342-08	1.05 g / 50.0 mL	SW6010C	BAL0420	SAL0513	AL70098
Metals (Total) by EPA 6000/7000 Series Methods		Preparation Method:	SW3050B		
17L0342-07	1.00 g / 50.0 mL	SW6010C	BAL0554	SAL0573	AL70111



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Client Name: Thomas Liesfeld Date Issued: 12/20/2017 13:01
 859 Ben Hatcher Rd
 Waynesboro GA, 30830
 Submitted To: Thomas Liesfeld Project Number: [none]
 Client Site I.D.: NKWP/Confirmatory Sampling Purchase Order:

Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAL0420 - SW3050B

Blank (BAL0420-BLK1)

Prepared: 12/14/2017 Analyzed: 12/18/2017

Chromium	<0.500 mg/kg wet	0.500	mg/kg wet
Arsenic	<1.00 mg/kg wet	1.00	mg/kg wet

LCS (BAL0420-BS1)

Prepared: 12/14/2017 Analyzed: 12/18/2017

Arsenic	89.3 mg/kg wet	1.00	mg/kg wet	94.2	mg/kg wet	94.9	80-120
Chromium	87.7 mg/kg wet	0.500	mg/kg wet	94.2	mg/kg wet	93.1	80-120

LCS Dup (BAL0420-BSD1)

Prepared: 12/14/2017 Analyzed: 12/18/2017

Arsenic	90.5 mg/kg wet	1.00	mg/kg wet	95.1	mg/kg wet	95.1	80-120	1.34	20
Chromium	88.8 mg/kg wet	0.500	mg/kg wet	95.1	mg/kg wet	93.4	80-120	1.28	20

Matrix Spike (BAL0420-MS1)

Source: 17L0342-08

Prepared: 12/14/2017 Analyzed: 12/18/2017

Arsenic	93.5 mg/kg dry	1.01	mg/kg dry	101	<1.01 mg/kg dry	92.5	75-125
Chromium	102 mg/kg dry	0.506	mg/kg dry	101	6.30 mg/kg dry	94.2	75-125

Matrix Spike (BAL0420-MS2)

Source: 17L0406-06

Prepared: 12/14/2017 Analyzed: 12/18/2017

Arsenic	96.9 mg/kg dry	1.03	mg/kg dry	103	<1.03 mg/kg dry	94.2	75-125
Chromium	102 mg/kg dry	0.514	mg/kg dry	103	5.56 mg/kg dry	94.1	75-125

Matrix Spike Dup (BAL0420-MSD1)

Source: 17L0342-08

Prepared: 12/14/2017 Analyzed: 12/18/2017

Arsenic	94.1 mg/kg dry	1.00	mg/kg dry	100	<1.00 mg/kg dry	93.8	75-125	0.654	20
Chromium	101 mg/kg dry	0.502	mg/kg dry	100	6.30 mg/kg dry	94.8	75-125	0.156	20

Matrix Spike Dup (BAL0420-MSD2)

Source: 17L0406-06

Prepared: 12/14/2017 Analyzed: 12/18/2017

Chromium	103 mg/kg dry	0.518	mg/kg dry	104	5.56 mg/kg dry	94.1	75-125	0.684	20
Arsenic	96.3 mg/kg dry	1.04	mg/kg dry	104	<1.04 mg/kg dry	92.9	75-125	0.601	20



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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld Date Issued: 12/20/2017 13:01
 859 Ben Hatcher Rd
 Waynesboro GA, 30830
 Submitted To: Thomas Liesfeld Project Number: [none]
 Client Site I.D.: NKWP/Confirmatory Sampling Purchase Order:

Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAL0554 - SW3050B

Blank (BAL0554-BLK1)

Prepared & Analyzed: 12/19/2017

Arsenic	<1.00 mg/kg wet	1.00	mg/kg wet
Chromium	<0.500 mg/kg wet	0.500	mg/kg wet

LCS (BAL0554-BS1)

Prepared & Analyzed: 12/19/2017

Arsenic	87.5 mg/kg wet	1.00	mg/kg wet	95.5	mg/kg wet	91.6	80-120
Chromium	89.9 mg/kg wet	0.500	mg/kg wet	95.5	mg/kg wet	94.1	80-120

LCS Dup (BAL0554-BSD1)

Prepared & Analyzed: 12/19/2017

Arsenic	82.5 mg/kg wet	1.00	mg/kg wet	92.1	mg/kg wet	89.5	80-120	5.96	20
Chromium	84.4 mg/kg wet	0.500	mg/kg wet	92.1	mg/kg wet	91.6	80-120	6.39	20

Matrix Spike (BAL0554-MS1)

Source: 17L0556-01

Prepared & Analyzed: 12/19/2017

Arsenic	182 mg/kg wet	1.00	mg/kg wet	97.8	59.0 mg/kg wet	125	75-125			M
Chromium	215 mg/kg wet	0.500	mg/kg wet	97.8	113 mg/kg wet	104	75-125			

Matrix Spike Dup (BAL0554-MSD1)

Source: 17L0556-01

Prepared & Analyzed: 12/19/2017

Arsenic	132 mg/kg wet	1.00	mg/kg wet	92.3	59.0 mg/kg wet	79.6	75-125	31.3	20	P
Chromium	182 mg/kg wet	0.500	mg/kg wet	92.3	113 mg/kg wet	75.0	75-125	16.5	20	M



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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld Date Issued: 12/20/2017 13:01
 859 Ben Hatcher Rd
 Waynesboro GA, 30830
 Submitted To: Thomas Liesfeld Project Number: [none]
 Client Site I.D.: NKWP/Confirmatory Sampling Purchase Order:

Wet Chemistry Analysis - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAL0427 - No Prep Wet Chem

Blank (BAL0427-BLK1)

Prepared & Analyzed: 12/14/2017

Percent Solids 100 % 0.10 %

Duplicate (BAL0427-DUP1)

Source: 17L0406-02

Prepared & Analyzed: 12/14/2017

Percent Solids 93.1 % 0.10 % 93.3 % 0.199 20

Duplicate (BAL0427-DUP2)

Source: 17L0317-01

Prepared & Analyzed: 12/14/2017

Percent Solids 79.0 % 0.10 % 79.4 % 0.476 20



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859 Ben Hatcher Rd
Waynesboro GA, 30830
Submitted To: Thomas Liesfeld Project Number: [none]
Client Site I.D.: NKWP/Confirmatory Sampling Purchase Order:

Certified Analyses included in this Report

Analyte		Certifications	
SW6010C in Solids			
Arsenic		VELAP	
Chromium		VELAP	
Code	Description	Lab Number	Expires
MdDOE	Maryland DE Drinking Water	341	12/31/2018
NC	North Carolina DENR	495	12/31/2018
VELAP	NELAC-Virginia Certificate #9475	460021	06/14/2018
WVDEP	West Virginia DEP	350	11/30/2018



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Certificate of Analysis

Final Report

Client Name:	Thomas Liesfeld 859 Ben Hatcher Rd Waynesboro GA, 30830	Date Issued:	12/20/2017 13:01
Submitted To:	Thomas Liesfeld	Project Number:	[none]
Client Site I.D.:	NKWP/Confirmatory Sampling	Purchase Order:	

Summary of Data Qualifiers

M Matrix spike recovery is outside established acceptance limits

P Duplicate analysis does not meet the acceptance criteria for precision

RPD Relative Percent Difference

Qual Qualifiers

-RE Denotes sample was re-analyzed

D.F. Dilution Factor. Please also see the Preparation Factor in the Analysis Summary section.

TIC Tentatively Identified Compounds are compounds that are identified by comparing the analyte mass spectral pattern with the NIST spectral library .
A TIC spectral match is reported when the pattern is at least 75% consistent with the published pattern. Compound concentrations are estimated and are calculated using an internal standard response factor of 1.

PCBs, Total Total PCBs are defined as the sum of detected Aroclors 1016, 1221, 1232, 1248, 1254, 1260, 1262, and 1268.



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Certificate of Analysis

Final Report

Client Name:	Thomas Liesfeld 859 Ben Hatcher Rd Waynesboro GA, 30830	Date Issued:	12/20/2017 13:01
Submitted To:	Thomas Liesfeld	Project Number:	[none]
Client Site I.D.:	NKWP/Confirmatory Sampling	Purchase Order:	

Sample Conditions Checklist

Samples Received at:	17.40°C
How were samples received?	Walk In
Were Custody Seals used? If so, were they received intact?	No
Are the custody papers filled out completely and correctly?	Yes
Do all bottle labels agree with custody papers?	Yes
Is the temperature blank or representative sample within acceptable limits? (above freezing to 6°C) or received on ice and recently taken?	No
Are all samples within holding time for requested laboratory tests?	Yes
Is a sufficient amount of sample provided to perform the tests included?	Yes
Are all samples in appropriate containers for the analyses requested?	Yes
Were volatile organic containers received?	No
Are all volatile organic and TOX containers free of headspace?	NA
Is a trip blank provided for each VOC sample set? VOC sample sets include EPA8011, EPA504, EPA8260, EPA624, EPA8015 GRO, EPA8021, EPA524, and RSK-175.	NA
Are all samples received appropriately preserved? Note that metals containers do not require field preservation but lab preservation may delay analysis.	Yes

Work Order Comments



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Certificate of Analysis

Final Report

Laboratory Order ID 17L0406

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro, GA 30830

Date Received: December 12, 2017 13:47

Date Issued: December 20, 2017 12:58

Project Number: [none]

Submitted To: Thomas Liesfeld

Purchase Order: R15434R-12

Client Site I.D.: NKWP/Confirmatory Sampling

Enclosed are the results of analyses for samples received by the laboratory on 12/12/2017 13:47. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

A handwritten signature in black ink that reads "Ted Soyars".

Ted Soyars
Laboratory Manager

End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld Date Issued: 12/20/2017 12:58
859 Ben Hatcher Rd
Waynesboro GA, 30830
Submitted To: Thomas Liesfeld Project Number: [none]
Client Site I.D.: NKWP/Confirmatory Sampling Purchase Order: R15434R-12

ANALYTICAL REPORT FOR SAMPLES

Laboratory Order ID 17L0406

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EA3-SW5-12	17L0406-01	Soil	12/12/2017 10:50	12/12/2017 13:47
EA3-SW5-24	17L0406-02	Soil	12/12/2017 10:55	12/12/2017 13:47
EA3-SW6-12	17L0406-03	Soil	12/12/2017 11:00	12/12/2017 13:47
EA3-SW6-24	17L0406-04	Soil	12/12/2017 11:05	12/12/2017 13:47
EA3-SW7-12	17L0406-05	Soil	12/12/2017 11:20	12/12/2017 13:47
EA3-SW7-24	17L0406-06	Soil	12/12/2017 11:15	12/12/2017 13:47



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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro GA, 30830
Date Issued: 12/20/2017 12:58

Submitted To: Thomas Liesfeld
Project Number: [none]
Client Site I.D.: NKWP/Confirmatory Sampling
Purchase Order: R15434R-12

Laboratory Order ID: 17L0406

Analytical Results

Sample I.D. EA3-SW5-12

Laboratory Sample ID: 17L0406-01

Grab Date/Time: 12/12/2017 10:50

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	01	SW6010C	48.5 mg/kg dry		1.21	1	12/14/17 12:00	12/19/17 18:02	BG
Chromium	01	SW6010C	76.2 mg/kg dry		0.603	1	12/14/17 12:00	12/19/17 18:02	BG
Wet Chemistry Analysis									
Percent Solids	01	SM18 2540G	82.7 %		0.10	1	12/14/17 14:05	12/14/17 14:05	JCM



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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro GA, 30830

Date Issued: 12/20/2017 12:58

Submitted To: Thomas Liesfeld
Client Site I.D.: NKWP/Confirmatory Sampling

Project Number: [none]
Purchase Order: R15434R-12

Laboratory Order ID: 17L0406

Analytical Results

Sample I.D. EA3-SW5-24

Laboratory Sample ID: 17L0406-02

Grab Date/Time: 12/12/2017 10:55

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	02	SW6010C	<1.00 mg/kg dry		1.00	1	12/14/17 12:00	12/19/17 18:04	BG
Chromium	02	SW6010C	4.31 mg/kg dry		0.500	1	12/14/17 12:00	12/19/17 18:04	BG
Wet Chemistry Analysis									
Percent Solids	02	SM18 2540G	93.3 %		0.10	1	12/14/17 14:05	12/14/17 14:05	JCM



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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro GA, 30830
Date Issued: 12/20/2017 12:58

Submitted To: Thomas Liesfeld
Project Number: [none]
Client Site I.D.: NKWP/Confirmatory Sampling
Purchase Order: R15434R-12

Laboratory Order ID: 17L0406

Analytical Results

Sample I.D. EA3-SW6-12

Laboratory Sample ID: 17L0406-03

Grab Date/Time: 12/12/2017 11:00

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	03	SW6010C	54.3 mg/kg dry		1.02	1	12/14/17 12:00	12/19/17 18:07	BG
Chromium	03	SW6010C	90.3 mg/kg dry		0.512	1	12/14/17 12:00	12/19/17 18:07	BG
Wet Chemistry Analysis									
Percent Solids	03	SM18 2540G	90.9 %		0.10	1	12/14/17 14:05	12/14/17 14:05	JCM



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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro GA, 30830

Date Issued: 12/20/2017 12:58

Submitted To: Thomas Liesfeld
Client Site I.D.: NKWP/Confirmatory Sampling

Project Number: [none]
Purchase Order: R15434R-12

Laboratory Order ID: 17L0406

Analytical Results

Sample I.D. EA3-SW6-24

Laboratory Sample ID: 17L0406-04

Grab Date/Time: 12/12/2017 11:05

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	04	SW6010C	1.49 mg/kg dry		1.05	1	12/14/17 12:00	12/19/17 18:09	BG
Chromium	04	SW6010C	11.4 mg/kg dry		0.523	1	12/14/17 12:00	12/19/17 18:09	BG
Wet Chemistry Analysis									
Percent Solids	04	SM18 2540G	91.6 %		0.10	1	12/14/17 14:05	12/14/17 14:05	JCM



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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro GA, 30830
Date Issued: 12/20/2017 12:58

Submitted To: Thomas Liesfeld
Project Number: [none]
Client Site I.D.: NKWP/Confirmatory Sampling
Purchase Order: R15434R-12

Laboratory Order ID: 17L0406

Analytical Results

Sample I.D. EA3-SW7-12

Laboratory Sample ID: 17L0406-05

Grab Date/Time: 12/12/2017 11:20

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	05	SW6010C	28.6 mg/kg dry		1.07	1	12/14/17 12:00	12/19/17 18:17	BG
Chromium	05	SW6010C	36.5 mg/kg dry		0.535	1	12/14/17 12:00	12/19/17 18:16	BG
Wet Chemistry Analysis									
Percent Solids	05	SM18 2540G	89.8 %		0.10	1	12/14/17 14:05	12/14/17 14:05	JCM



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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld Date Issued: 12/20/2017 12:58
 859 Ben Hatcher Rd
 Waynesboro GA, 30830
 Submitted To: Thomas Liesfeld Project Number: [none]
 Client Site I.D.: NKWP/Confirmatory Sampling Purchase Order: R15434R-12

Laboratory Order ID: 17L0406

Analytical Results

Sample I.D. EA3-SW7-24

Laboratory Sample ID: 17L0406-06

Grab Date/Time: 12/12/2017 11:15

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	06	SW6010C	<1.04 mg/kg dry		1.04	1	12/14/17 12:00	12/18/17 15:11	BG
Chromium	06	SW6010C	5.56 mg/kg dry		0.518	1	12/14/17 12:00	12/18/17 15:11	BG
Wet Chemistry Analysis									
Percent Solids	06	SM18 2540G	93.3 %		0.10	1	12/14/17 14:05	12/14/17 14:05	JCM

Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Wet Chemistry Analysis		Preparation Method:	No Prep Wet Chem		
17L0406-01	1.00 g / 1.00 mL	SM18 2540G	BAL0427	SAL0456	
17L0406-02	1.00 g / 1.00 mL	SM18 2540G	BAL0427	SAL0456	
17L0406-03	1.00 g / 1.00 mL	SM18 2540G	BAL0427	SAL0456	
17L0406-04	1.00 g / 1.00 mL	SM18 2540G	BAL0427	SAL0456	
17L0406-05	1.00 g / 1.00 mL	SM18 2540G	BAL0427	SAL0456	
17L0406-06	1.00 g / 1.00 mL	SM18 2540G	BAL0427	SAL0456	
Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 6000/7000 Series Methods		Preparation Method:	SW3050B		
17L0406-01	1.00 g / 50.0 mL	SW6010C	BAL0420	SAL0573	AL70111
17L0406-02	1.08 g / 50.0 mL	SW6010C	BAL0420	SAL0573	AL70111
17L0406-03	1.08 g / 50.0 mL	SW6010C	BAL0420	SAL0573	AL70111
17L0406-04	1.04 g / 50.0 mL	SW6010C	BAL0420	SAL0573	AL70111
17L0406-05	1.04 g / 50.0 mL	SW6010C	BAL0420	SAL0573	AL70111
17L0406-06	1.03 g / 50.0 mL	SW6010C	BAL0420	SAL0513	AL70098



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Certificate of Analysis

Final Report

Client Name:	Thomas Liesfeld 859 Ben Hatcher Rd Waynesboro GA, 30830	Date Issued:	12/20/2017 12:58
Submitted To:	Thomas Liesfeld	Project Number:	[none]
Client Site I.D.:	NKWP/Confirmatory Sampling	Purchase Order:	R15434R-12

Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAL0420 - SW3050B

Blank (BAL0420-BLK1)

Prepared: 12/14/2017 Analyzed: 12/18/2017

Chromium	<0.500 mg/kg wet	0.500	mg/kg wet
Arsenic	<1.00 mg/kg wet	1.00	mg/kg wet

LCS (BAL0420-BS1)

Prepared: 12/14/2017 Analyzed: 12/18/2017

Chromium	87.7 mg/kg wet	0.500	mg/kg wet	94.2	mg/kg wet	93.1	80-120
Arsenic	89.3 mg/kg wet	1.00	mg/kg wet	94.2	mg/kg wet	94.9	80-120

LCS Dup (BAL0420-BSD1)

Prepared: 12/14/2017 Analyzed: 12/18/2017

Chromium	88.8 mg/kg wet	0.500	mg/kg wet	95.1	mg/kg wet	93.4	80-120	1.28	20
Arsenic	90.5 mg/kg wet	1.00	mg/kg wet	95.1	mg/kg wet	95.1	80-120	1.34	20

Matrix Spike (BAL0420-MS1)

Source: 17L0342-08

Prepared: 12/14/2017 Analyzed: 12/18/2017

Chromium	102 mg/kg dry	0.506	mg/kg dry	101	6.30 mg/kg dry	94.2	75-125
Arsenic	93.5 mg/kg dry	1.01	mg/kg dry	101	<1.01 mg/kg dry	92.5	75-125

Matrix Spike (BAL0420-MS2)

Source: 17L0406-06

Prepared: 12/14/2017 Analyzed: 12/18/2017

Arsenic	96.9 mg/kg dry	1.03	mg/kg dry	103	<1.03 mg/kg dry	94.2	75-125
Chromium	102 mg/kg dry	0.514	mg/kg dry	103	5.56 mg/kg dry	94.1	75-125

Matrix Spike Dup (BAL0420-MSD1)

Source: 17L0342-08

Prepared: 12/14/2017 Analyzed: 12/18/2017

Arsenic	94.1 mg/kg dry	1.00	mg/kg dry	100	<1.00 mg/kg dry	93.8	75-125	0.654	20
Chromium	101 mg/kg dry	0.502	mg/kg dry	100	6.30 mg/kg dry	94.8	75-125	0.156	20

Matrix Spike Dup (BAL0420-MSD2)

Source: 17L0406-06

Prepared: 12/14/2017 Analyzed: 12/18/2017

Chromium	103 mg/kg dry	0.518	mg/kg dry	104	5.56 mg/kg dry	94.1	75-125	0.684	20
Arsenic	96.3 mg/kg dry	1.04	mg/kg dry	104	<1.04 mg/kg dry	92.9	75-125	0.601	20



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Certificate of Analysis

Final Report

Client Name:	Thomas Liesfeld	Date Issued:	12/20/2017 12:58
	859 Ben Hatcher Rd		
	Waynesboro GA, 30830		
Submitted To:	Thomas Liesfeld	Project Number:	[none]
Client Site I.D.:	NKWP/Confirmatory Sampling	Purchase Order:	R15434R-12

Wet Chemistry Analysis - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BAL0427 - No Prep Wet Chem

Blank (BAL0427-BLK1)

Prepared & Analyzed: 12/14/2017

Percent Solids	100 %	0.10	%
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Duplicate (BAL0427-DUP1)

Source: 17L0406-02

Prepared & Analyzed: 12/14/2017

Percent Solids	93.1 %	0.10	%	93.3 %	0.199	20
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Duplicate (BAL0427-DUP2)

Source: 17L0317-01

Prepared & Analyzed: 12/14/2017

Percent Solids	79.0 %	0.10	%	79.4 %	0.476	20
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Certificate of Analysis

Final Report

Client Name:	Thomas Liesfeld 859 Ben Hatcher Rd Waynesboro GA, 30830	Date Issued:	12/20/2017 12:58
Submitted To:	Thomas Liesfeld	Project Number:	[none]
Client Site I.D.:	NKWP/Confirmatory Sampling	Purchase Order:	R15434R-12

Certified Analyses included in this Report

Analyte		Certifications	
SW6010C in Solids			
Arsenic		VELAP	
Chromium		VELAP	
Code	Description	Lab Number	Expires
MdDOE	Maryland DE Drinking Water	341	12/31/2018
NC	North Carolina DENR	495	12/31/2018
VELAP	NELAC-Virginia Certificate #9475	460021	06/14/2018
WVDEP	West Virginia DEP	350	11/30/2018



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Certificate of Analysis

Final Report

Client Name:	Thomas Liesfeld 859 Ben Hatcher Rd Waynesboro GA, 30830	Date Issued:	12/20/2017 12:58
Submitted To:	Thomas Liesfeld	Project Number:	[none]
Client Site I.D.:	NKWP/Confirmatory Sampling	Purchase Order:	R15434R-12

Summary of Data Qualifiers

RPD Relative Percent Difference
Qual Qualifiers
-RE Denotes sample was re-analyzed
D.F. Dilution Factor. Please also see the Preparation Factor in the Analysis Summary section.

TIC Tentatively Identified Compounds are compounds that are identified by comparing the analyte mass spectral pattern with the NIST spectral library .
A TIC spectral match is reported when the pattern is at least 75% consistent with the published pattern. Compound concentrations are estimated and are calculated using an internal standard response factor of 1.

PCBs, Total Total PCBs are defined as the sum of detected Aroclors 1016, 1221, 1232, 1248, 1254, 1260, 1262, and 1268.



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Certificate of Analysis

Final Report

Client Name:	Thomas Liesfeld 859 Ben Hatcher Rd Waynesboro GA, 30830	Date Issued:	12/20/2017 12:58
Submitted To:	Thomas Liesfeld	Project Number:	[none]
Client Site I.D.:	NKWP/Confirmatory Sampling	Purchase Order:	R15434R-12

Sample Conditions Checklist

Samples Received at:	17.60°C
How were samples received?	Walk In
Were Custody Seals used? If so, were they received intact?	No
Are the custody papers filled out completely and correctly?	Yes
Do all bottle labels agree with custody papers?	Yes
Is the temperature blank or representative sample within acceptable limits? (above freezing to 6°C) or received on ice and recently taken?	No
Are all samples within holding time for requested laboratory tests?	Yes
Is a sufficient amount of sample provided to perform the tests included?	Yes
Are all samples in appropriate containers for the analyses requested?	Yes
Were volatile organic containers received?	No
Are all volatile organic and TOX containers free of headspace?	NA
Is a trip blank provided for each VOC sample set? VOC sample sets include EPA8011, EPA504, EPA8260, EPA624, EPA8015 GRO, EPA8021, EPA524, and RSK-175.	NA
Are all samples received appropriately preserved? Note that metals containers do not require field preservation but lab preservation may delay analysis.	Yes

Work Order Comments



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Certificate of Analysis

Final Report

Laboratory Order ID 18A0506

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro, GA 30830

Date Received: January 22, 2018 12:52

Date Issued: January 29, 2018 16:18

Project Number: [none]

Submitted To: Thomas Liesfeld

Purchase Order: R1543R-12

Client Site I.D.: NKWP/Confirmatory Sampling

Enclosed are the results of analyses for samples received by the laboratory on 01/22/2018 12:52. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

A handwritten signature in black ink that reads "Ted Soyars".

Ted Soyars
Laboratory Manager

End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro GA, 30830

Date Issued: 1/29/2018 16:18

Submitted To: Thomas Liesfeld
Client Site I.D.: NKWP/Confirmatory Sampling

Project Number: [none]
Purchase Order: R1543R-12

ANALYTICAL REPORT FOR SAMPLES

Laboratory Order ID 18A0506

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EA2-SW1-12	18A0506-01	Solids	01/22/2018 08:55	01/22/2018 12:52
EA2-SW1-24	18A0506-02	Solids	01/22/2018 08:51	01/22/2018 12:52
EA2-SW2-12	18A0506-03	Solids	01/22/2018 09:05	01/22/2018 12:52
EA2-SW2-24	18A0506-04	Solids	01/22/2018 09:00	01/22/2018 12:52
EA2-SW3-12	18A0506-05	Solids	01/22/2018 09:15	01/22/2018 12:52
EA2-SW3-24	18A0506-06	Solids	01/22/2018 09:10	01/22/2018 12:52
EA2-SW4-12	18A0506-07	Solids	01/22/2018 09:25	01/22/2018 12:52
EA2-SW4-24	18A0506-08	Solids	01/22/2018 09:20	01/22/2018 12:52
EA2-SW5-12	18A0506-09	Solids	01/22/2018 09:30	01/22/2018 12:52
EA2-SW5-24	18A0506-10	Solids	01/22/2018 09:27	01/22/2018 12:52

Results have been calculated based on dry weight.



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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro GA, 30830
Date Issued: 1/29/2018 16:18

Submitted To: Thomas Liesfeld
Client Site I.D.: NKWP/Confirmatory Sampling
Project Number: [none]
Purchase Order: R1543R-12

Laboratory Order ID: 18A0506

Analytical Results

Sample I.D. EA2-SW1-12

Laboratory Sample ID: 18A0506-01

Grab Date/Time: 01/22/2018 08:55

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	01	SW6010C	87.2 mg/kg dry		1.08	1	01/23/18 11:00	01/26/18 14:32	JPV
Chromium	01RE1	SW7010	70.8 mg/kg dry	E	10.9	200	01/23/18 16:00	01/29/18 12:05	MWL
Wet Chemistry Analysis									
Percent Solids	01	SM18 2540G	90.5 %		0.10	1	01/22/18 15:00	01/22/18 15:00	JIW



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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro GA, 30830

Date Issued: 1/29/2018 16:18

Submitted To: Thomas Liesfeld
Client Site I.D.: NKWP/Confirmatory Sampling

Project Number: [none]
Purchase Order: R1543R-12

Laboratory Order ID: 18A0506

Analytical Results

Sample I.D. EA2-SW1-24

Laboratory Sample ID: 18A0506-02

Grab Date/Time: 01/22/2018 08:51

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	02	SW6010C	<1.13 mg/kg dry		1.13	1	01/23/18 11:00	01/26/18 14:34	JPV
Chromium	02	SW6010C	4.38 mg/kg dry		0.566	1	01/23/18 11:00	01/26/18 14:34	JPV
Wet Chemistry Analysis									
Percent Solids	02	SM18 2540G	86.8 %		0.10	1	01/22/18 15:00	01/22/18 15:00	JIW



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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro GA, 30830

Date Issued: 1/29/2018 16:18

Submitted To: Thomas Liesfeld
Client Site I.D.: NKWP/Confirmatory Sampling

Project Number: [none]
Purchase Order: R1543R-12

Laboratory Order ID: 18A0506

Analytical Results

Sample I.D. EA2-SW2-12

Laboratory Sample ID: 18A0506-03

Grab Date/Time: 01/22/2018 09:05

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	03	SW6010C	2.18 mg/kg dry		1.02	1	01/23/18 11:00	01/26/18 14:37	JPV
Chromium	03	SW6010C	6.59 mg/kg dry		0.510	1	01/23/18 11:00	01/26/18 14:37	JPV
Wet Chemistry Analysis									
Percent Solids	03	SM18 2540G	89.6 %		0.10	1	01/22/18 15:00	01/22/18 15:00	JIW



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Certificate of Analysis

Final Report

Client Name: Thomas Liesfeld
859 Ben Hatcher Rd
Waynesboro GA, 30830
Date Issued: 1/29/2018 16:18
Submitted To: Thomas Liesfeld
Project Number: [none]
Client Site I.D.: NKWP/Confirmatory Sampling
Purchase Order: R1543R-12

Laboratory Order ID: 18A0506

Analytical Results

Sample I.D. EA2-SW2-24

Laboratory Sample ID: 18A0506-04

Grab Date/Time: 01/22/2018 09:00

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	04	SW6010C	2.35 mg/kg dry		1.13	1	01/23/18 11:00	01/26/18 14:39	JPV
Chromium	04	SW6010C	9.15 mg/kg dry		0.566	1	01/23/18 11:00	01/26/18 14:39	JPV
Wet Chemistry Analysis									
Percent Solids	04	SM18 2540G	85.3 %		0.10	1	01/22/18 15:00	01/22/18 15:00	JIW



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Purchase Order: R1543R-12

Laboratory Order ID: 18A0506

Analytical Results

Sample I.D. EA2-SW3-12

Laboratory Sample ID: 18A0506-05

Grab Date/Time: 01/22/2018 09:15

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	05	SW6010C	1.84 mg/kg dry		1.07	1	01/23/18 11:00	01/26/18 14:41	JPV
Chromium	05	SW6010C	4.79 mg/kg dry		0.535	1	01/23/18 11:00	01/26/18 14:41	JPV
Wet Chemistry Analysis									
Percent Solids	05	SM18 2540G	89.3 %		0.10	1	01/22/18 15:00	01/22/18 15:00	JIW



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Purchase Order: R1543R-12

Laboratory Order ID: 18A0506

Analytical Results

Sample I.D. EA2-SW3-24

Laboratory Sample ID: 18A0506-06

Grab Date/Time: 01/22/2018 09:10

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	06	SW6010C	2.81 mg/kg dry		1.17	1	01/23/18 11:00	01/26/18 14:43	JPV
Chromium	06	SW6010C	5.02 mg/kg dry		0.583	1	01/23/18 11:00	01/26/18 14:43	JPV
Wet Chemistry Analysis									
Percent Solids	06	SM18 2540G	85.3 %		0.10	1	01/22/18 15:00	01/22/18 15:00	JIW



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Submitted To: Thomas Liesfeld
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Purchase Order: R1543R-12

Laboratory Order ID: 18A0506

Analytical Results

Sample I.D. EA2-SW4-12

Laboratory Sample ID: 18A0506-07

Grab Date/Time: 01/22/2018 09:25

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	07	SW6010C	1.10 mg/kg dry		1.08	1	01/23/18 11:00	01/26/18 14:45	JPV
Chromium	07	SW6010C	3.80 mg/kg dry		0.538	1	01/23/18 11:00	01/26/18 14:45	JPV
Wet Chemistry Analysis									
Percent Solids	07	SM18 2540G	90.6 %		0.10	1	01/22/18 15:00	01/22/18 15:00	JIW



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Date Issued: 1/29/2018 16:18

Submitted To: Thomas Liesfeld
Project Number: [none]
Client Site I.D.: NKWP/Confirmatory Sampling
Purchase Order: R1543R-12

Laboratory Order ID: 18A0506

Analytical Results

Sample I.D. EA2-SW4-24

Laboratory Sample ID: 18A0506-08

Grab Date/Time: 01/22/2018 09:20

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	08	SW6010C	<1.11 mg/kg dry		1.11	1	01/23/18 11:00	01/26/18 14:51	JPV
Chromium	08	SW6010C	2.98 mg/kg dry		0.554	1	01/23/18 11:00	01/26/18 14:51	JPV
Wet Chemistry Analysis									
Percent Solids	08	SM18 2540G	87.3 %		0.10	1	01/22/18 15:00	01/22/18 15:00	JIW



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Client Site I.D.: NKWP/Confirmatory Sampling
Purchase Order: R1543R-12

Laboratory Order ID: 18A0506

Analytical Results

Sample I.D. EA2-SW5-12

Laboratory Sample ID: 18A0506-09

Grab Date/Time: 01/22/2018 09:30

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	09	SW6010C	7.66 mg/kg dry		1.03	1	01/23/18 11:00	01/26/18 14:53	JPV
Chromium	09	SW6010C	8.58 mg/kg dry		0.513	1	01/23/18 11:00	01/26/18 14:53	JPV
Wet Chemistry Analysis									
Percent Solids	09	SM18 2540G	91.2 %		0.10	1	01/22/18 15:00	01/22/18 15:00	JIW



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Date Issued: 1/29/2018 16:18
Submitted To: Thomas Liesfeld
Project Number: [none]
Client Site I.D.: NKWP/Confirmatory Sampling
Purchase Order: R1543R-12

Laboratory Order ID: 18A0506

Analytical Results

Sample I.D. EA2-SW5-24

Laboratory Sample ID: 18A0506-10

Grab Date/Time: 01/22/2018 09:27

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Metals (Total) by EPA 6000/7000 Series Methods									
Arsenic	10	SW6010C	<1.03 mg/kg dry		1.03	1	01/23/18 11:00	01/26/18 14:56	JPV
Chromium	10	SW6010C	6.05 mg/kg dry		0.514	1	01/23/18 11:00	01/26/18 14:56	JPV
Wet Chemistry Analysis									
Percent Solids	10	SM18 2540G	89.4 %		0.10	1	01/22/18 15:00	01/22/18 15:00	JIW



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Certificate of Analysis

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Date Issued: 1/29/2018 16:18

Submitted To: Thomas Liesfeld

Project Number: [none]

Client Site I.D.: NKWP/Confirmatory Sampling

Purchase Order: R1543R-12

Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Wet Chemistry Analysis		Preparation Method:	No Prep Wet Chem		
18A0506-01	1.00 g / 1.00 mL	SM18 2540G	BBA0543	SBA0478	
18A0506-02	1.00 g / 1.00 mL	SM18 2540G	BBA0543	SBA0478	
18A0506-03	1.00 g / 1.00 mL	SM18 2540G	BBA0543	SBA0478	
18A0506-04	1.00 g / 1.00 mL	SM18 2540G	BBA0543	SBA0478	
18A0506-05	1.00 g / 1.00 mL	SM18 2540G	BBA0543	SBA0478	
18A0506-06	1.00 g / 1.00 mL	SM18 2540G	BBA0543	SBA0478	
18A0506-07	1.00 g / 1.00 mL	SM18 2540G	BBA0543	SBA0478	
18A0506-08	1.00 g / 1.00 mL	SM18 2540G	BBA0543	SBA0478	
18A0506-09	1.00 g / 1.00 mL	SM18 2540G	BBA0543	SBA0478	
18A0506-10	1.00 g / 1.00 mL	SM18 2540G	BBA0543	SBA0478	

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 6000/7000 Series Methods		Preparation Method:	SW3050B		
18A0506-01	1.03 g / 50.0 mL	SW6010C	BBA0575	SBA0580	AA80124
18A0506-02	1.02 g / 50.0 mL	SW6010C	BBA0575	SBA0580	AA80124
18A0506-03	1.10 g / 50.0 mL	SW6010C	BBA0575	SBA0580	AA80124
18A0506-04	1.04 g / 50.0 mL	SW6010C	BBA0575	SBA0580	AA80124
18A0506-05	1.05 g / 50.0 mL	SW6010C	BBA0575	SBA0580	AA80124
18A0506-06	1.00 g / 50.0 mL	SW6010C	BBA0575	SBA0580	AA80124
18A0506-07	1.02 g / 50.0 mL	SW6010C	BBA0575	SBA0580	AA80124
18A0506-08	1.04 g / 50.0 mL	SW6010C	BBA0575	SBA0580	AA80124
18A0506-09	1.07 g / 50.0 mL	SW6010C	BBA0575	SBA0580	AA80124
18A0506-10	1.09 g / 50.0 mL	SW6010C	BBA0575	SBA0580	AA80124

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 6000/7000 Series Methods		Preparation Method:	SW3050B-AA		
18A0506-01	1.02 g / 50.0 mL	SW7010	BBA0581	SBA0611	AA80133
18A0506-01RE1	1.02 g / 50.0 mL	SW7010	BBA0581	SBA0611	AA80133



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Certificate of Analysis

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Client Name:	Thomas Liesfeld 859 Ben Hatcher Rd Waynesboro GA, 30830	Date Issued:	1/29/2018 16:18
Submitted To:	Thomas Liesfeld	Project Number:	[none]
Client Site I.D.:	NKWP/Confirmatory Sampling	Purchase Order:	R1543R-12

Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BBA0575 - SW3050B

Blank (BBA0575-BLK1)

Prepared: 01/23/2018 Analyzed: 01/26/2018

Arsenic	<1.00 mg/kg wet	1.00	mg/kg wet
Chromium	<0.500 mg/kg wet	0.500	mg/kg wet

LCS (BBA0575-BS1)

Prepared: 01/23/2018 Analyzed: 01/26/2018

Arsenic	90.3 mg/kg wet	1.00	mg/kg wet	97.5	mg/kg wet	92.7	80-120
Chromium	88.8 mg/kg wet	0.500	mg/kg wet	97.5	mg/kg wet	91.1	80-120

LCS Dup (BBA0575-BSD1)

Prepared: 01/23/2018 Analyzed: 01/26/2018

Chromium	85.6 mg/kg wet	0.500	mg/kg wet	94.3	mg/kg wet	90.8	80-120	3.70	20
Arsenic	85.6 mg/kg wet	1.00	mg/kg wet	94.3	mg/kg wet	90.9	80-120	5.31	20

Matrix Spike (BBA0575-MS1)

Source: 18A0513-02

Prepared: 01/23/2018 Analyzed: 01/26/2018

Chromium	99.5 mg/kg wet	0.500	mg/kg wet	98.4	6.29 mg/kg wet	94.7	75-125
Arsenic	92.1 mg/kg wet	1.00	mg/kg wet	98.4	1.25 mg/kg wet	92.3	75-125

Matrix Spike (BBA0575-MS2)

Source: 18A0516-01

Prepared: 01/23/2018 Analyzed: 01/26/2018

Arsenic	149 mg/kg wet	1.00	mg/kg wet	98.0	68.4 mg/kg wet	82.6	75-125
Chromium	94.6 mg/kg wet	0.500	mg/kg wet	98.0	3.17 mg/kg wet	93.3	75-125

Matrix Spike Dup (BBA0575-MSD1)

Source: 18A0513-02

Prepared: 01/23/2018 Analyzed: 01/26/2018

Arsenic	89.6 mg/kg wet	1.00	mg/kg wet	97.7	1.25 mg/kg wet	90.5	75-125	2.67	20
Chromium	96.4 mg/kg wet	0.500	mg/kg wet	97.7	6.29 mg/kg wet	92.3	75-125	3.22	20

Matrix Spike Dup (BBA0575-MSD2)

Source: 18A0516-01

Prepared: 01/23/2018 Analyzed: 01/26/2018

Chromium	87.1 mg/kg wet	0.500	mg/kg wet	92.9	3.17 mg/kg wet	90.4	75-125	8.32	20
Arsenic	165 mg/kg wet	1.00	mg/kg wet	92.9	68.4 mg/kg wet	104	75-125	10.0	20



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Client Site I.D.:	NKWP/Confirmatory Sampling	Purchase Order:	R1543R-12

Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BBA0581 - SW3050B-AA										
Blank (BBA0581-BLK1)				Prepared: 01/23/2018 Analyzed: 01/29/2018						
Chromium	<0.050 mg/kg wet	0.050	mg/kg wet							
LCS (BBA0581-BS1)				Prepared: 01/23/2018 Analyzed: 01/29/2018						
Chromium	0.098 mg/kg wet	0.050	mg/kg wet	0.0972	mg/kg wet	101	80-120			E
LCS Dup (BBA0581-BSD1)				Prepared: 01/23/2018 Analyzed: 01/29/2018						
Chromium	0.094 mg/kg wet	0.050	mg/kg wet	0.0949	mg/kg wet	99.2	80-120	4.05	20	E
Matrix Spike (BBA0581-MS2)				Source: 18A0506-01RE1 Prepared: 01/23/2018 Analyzed: 01/29/2018						
Chromium	44.0 mg/kg dry	10.6	mg/kg dry	0.106	70.8 mg/kg dry	-25400	75-125			M2, E
Matrix Spike Dup (BBA0581-MSD2)				Source: 18A0506-01RE1 Prepared: 01/23/2018 Analyzed: 01/29/2018						
Chromium	62.7 mg/kg dry	10.3	mg/kg dry	0.103	70.8 mg/kg dry	-7800	75-125	35.2	20	M2, P, E



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Wet Chemistry Analysis - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BBA0543 - No Prep Wet Chem

Blank (BBA0543-BLK1)

Prepared & Analyzed: 01/22/2018

Percent Solids	100 %	0.10	%
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Duplicate (BBA0543-DUP1)

Source: 18A0505-10

Prepared & Analyzed: 01/22/2018

Percent Solids	88.8 %	0.10	%	88.8 %	0.00271	20
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Duplicate (BBA0543-DUP2)

Source: 18A0506-10

Prepared & Analyzed: 01/22/2018

Percent Solids	89.0 %	0.10	%	89.4 %	0.473	20
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Certified Analyses included in this Report

Analyte		Certifications	
SW6010C in Solids			
Arsenic		VELAP	
Chromium		VELAP	
SW7010 in Solids			
Chromium		VELAP	
Code	Description	Lab Number	Expires
MdDOE	Maryland DE Drinking Water	341	12/31/2018
NC	North Carolina DENR	495	12/31/2018
VELAP	NELAC-Virginia Certificate #9475	460021	06/14/2018
WVDEP	West Virginia DEP	350	11/30/2018



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Summary of Data Qualifiers

E Estimated concentration, outside calibration range

M2 Sample was diluted due to matrix interference.

P Duplicate analysis does not meet the acceptance criteria for precision

RPD Relative Percent Difference

Qual Qualifiers

-RE Denotes sample was re-analyzed

D.F. Dilution Factor. Please also see the Preparation Factor in the Analysis Summary section.

TIC Tentatively Identified Compounds are compounds that are identified by comparing the analyte mass spectral pattern with the NIST spectral library .
A TIC spectral match is reported when the pattern is at least 75% consistent with the published pattern. Compound concentrations are estimated and are calculated using an internal standard response factor of 1.

PCBs, Total Total PCBs are defined as the sum of detected Aroclors 1016, 1221, 1232, 1248, 1254, 1260, 1262, and 1268.

CHAIN OF CUSTODY											
CLIENT: LIESFELD FARMS				CONSULTANT: DRAPER ADEN ASSOCIATES				COPY COA TO CONSULTANT? YES			
ATTN: THOMAS LIESFELD				ATTN: WILLIAM A SALOMONE (WSALOMONE@DAA.COM)				COPY INVOICE TO CONSULTANT? YES			
STREET: 859 BEN HATCHER ROAD				STREET: 8090 VILLA PARK DRIVE				PROJECT: NKWP / CONFIRMATORY SAMPLING			
CITY: WAYNESBORO, GA 30830				CITY: RICHMOND, VIRGINIA 23228				LOCATION: PROVIDENCE FORGE, VIRGINIA			
PHONE: 804-833-4286				PHONE: 804-264-2228				LABORATORY: AIR, WATER, & SOIL LABORATORIES			
TURN AROUND: 1 2 3 5 10 DAYS				P.O. #: R15434R-12				ANALYSES REQUESTED			
<div style="display: flex; justify-content: space-between;"> <div style="width: 10%;">LAB USE ONLY</div> <div style="width: 35%;">SAMPLE INFORMATION</div> <div style="width: 10%;"> COMPOSITE Grab NO. OF JARS MATRIX </div> <div style="width: 20%;">Metals (As, Cr)</div> <div style="width: 25%;">COMMENTS (SAMPLING INTERVAL)</div> </div>											
LAB ID	SAMPLE ID	DATE	TIME								
	EA2-SW1-12	1/22/18	0855		✓	1	S		✓		
	EA2-SW1-24		0851		✓	1	S		✓		
	EA2-SW2-12		0905		✓	1	S		✓		
	EA2-SW2-24		0900		✓	1	S		✓		
	EA2-SW3-12		0915		✓	1	S		✓		
	EA2-SW3-24		0910		✓	1	S		✓		
	EA2-SW4-12		0925		✓	1	S		✓		
	EA2-SW4-24		0920		✓	1	S		✓		
	EA2-SW5-12		0930		✓	1	S		✓		
	EA2-SW5-24		0927		✓	1	S		✓		
										DA 18A0506 New Kent Wood Preservatives (NK) Recd: 01/22/2018 Due: 01/29/2018 <small>v130325002</small>	
SAMPLED BY: <i>Kendall Dunham</i>				SAMPLED BY: <i>Kendall Dunham</i>				Level 2 data package. Please report all concentrations in mg/kg (dry weight). All dry weight analyses shall be total analysis.			
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME						
<i>Kendall Dunham</i>	1/22/18	11:45	<i>[Signature]</i>	1/22/18	11:45						
	1/22/18	12:52	<i>[Signature]</i>	1/22/18	12:52	20.5°C No Sol No Ice					
TEMP:		pH:		CONTENTS: A = AIR; S=SOIL; G=GROUNDWATER; WW=WASTEWATER							



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Client Site I.D.:	NKWP/Confirmatory Sampling	Purchase Order:	R1543R-12

Sample Conditions Checklist

Samples Received at:	20.50°C
How were samples received?	Walk In
Were Custody Seals used? If so, were they received intact?	No
Are the custody papers filled out completely and correctly?	Yes
Do all bottle labels agree with custody papers?	Yes
Is the temperature blank or representative sample within acceptable limits? (above freezing to 6°C) or received on ice and recently taken?	No
Are all samples within holding time for requested laboratory tests?	Yes
Is a sufficient amount of sample provided to perform the tests included?	Yes
Are all samples in appropriate containers for the analyses requested?	Yes
Were volatile organic containers received?	No
Are all volatile organic and TOX containers free of headspace?	NA
Is a trip blank provided for each VOC sample set? VOC sample sets include EPA8011, EPA504, EPA8260, EPA624, EPA8015 GRO, EPA8021, EPA524, and RSK-175.	NA
Are all samples received appropriately preserved? Note that metals containers do not require field preservation but lab preservation may delay analysis.	Yes

Environmental Conservation Laboratories, Inc.

102-A Woodwinds Industrial Court

Cary NC, 27511

Phone: 919.467.3090 FAX: 919.467.3515



www.encolabs.com

Wednesday, December 20, 2017

Draper Aden Associates (DR002)

Attn: William Salomone

8090 Villa Park Drive

Richmond, VA 23228

RE: Laboratory Results for

Project Number: R15434R-12, Project Name/Desc: NKWP

ENCO Workorder: CA19434

Dear William Salomone,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, December 14, 2017.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink that reads "Chuck Smith". The signature is written in a cursive, flowing style.

Chuck Smith

Project Manager

Enclosure(s)



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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID:	EA4-SW1-12	Lab ID:	CA19434-01	Sampled:	12/13/17 09:57	Received:	12/14/17 14:00
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Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010D	06/11/18	12/15/17 10:40	12/18/2017 14:29

Client ID:	EA4-SW1-24	Lab ID:	CA19434-02	Sampled:	12/13/17 09:50	Received:	12/14/17 14:00
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Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010D	06/11/18	12/15/17 10:40	12/18/2017 14:31

Client ID:	EA4-SW2-12	Lab ID:	CA19434-03	Sampled:	12/13/17 10:06	Received:	12/14/17 14:00
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Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010D	06/11/18	12/15/17 10:40	12/18/2017 14:34

Client ID:	EA4-SW2-24	Lab ID:	CA19434-04	Sampled:	12/13/17 09:59	Received:	12/14/17 14:00
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Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010D	06/11/18	12/15/17 10:40	12/18/2017 14:37

Client ID:	EA4-SW3-12	Lab ID:	CA19434-05	Sampled:	12/13/17 10:18	Received:	12/14/17 14:00
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Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010D	06/11/18	12/15/17 10:40	12/18/2017 14:39

Client ID:	EA4-SW3-24	Lab ID:	CA19434-06	Sampled:	12/13/17 10:13	Received:	12/14/17 14:00
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Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010D	06/11/18	12/15/17 10:40	12/18/2017 14:42

Client ID:	EA4-SW4-12	Lab ID:	CA19434-07	Sampled:	12/13/17 10:25	Received:	12/14/17 14:00
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Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010D	06/11/18	12/15/17 10:40	12/18/2017 14:44

Client ID:	EA4-SW4-24	Lab ID:	CA19434-08	Sampled:	12/13/17 10:21	Received:	12/14/17 14:00
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Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010D	06/11/18	12/15/17 10:40	12/18/2017 14:56

Client ID:	EA4-SW5-12	Lab ID:	CA19434-09	Sampled:	12/13/17 10:34	Received:	12/14/17 14:00
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Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010D	06/11/18	12/15/17 10:40	12/18/2017 14:58



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Client ID: EA4-SW5-24		Lab ID: CA19434-10		Sampled: 12/13/17 10:32		Received: 12/14/17 14:00	
Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)			
EPA 6010D	06/11/18	12/15/17	10:40	12/18/2017 15:00			

SAMPLE DETECTION SUMMARY

Client ID:	EA4-SW1-12	Lab ID:	CA19434-01
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	14.0		0.343	0.535	mg/kg dry	EPA 6010D	
Chromium - Total	14.5		0.107	0.535	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW1-24	Lab ID:	CA19434-02
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	1.27		0.338	0.529	mg/kg dry	EPA 6010D	
Chromium - Total	4.11		0.106	0.529	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW2-12	Lab ID:	CA19434-03
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	13.1		0.338	0.528	mg/kg dry	EPA 6010D	
Chromium - Total	17.7		0.106	0.528	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW2-24	Lab ID:	CA19434-04
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	BLOQ		0.337	0.526	mg/kg dry	EPA 6010D	
Chromium - Total	2.91		0.105	0.526	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW3-12	Lab ID:	CA19434-05
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	1.37		0.341	0.533	mg/kg dry	EPA 6010D	
Chromium - Total	4.65		0.107	0.533	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW3-24	Lab ID:	CA19434-06
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	0.955		0.341	0.533	mg/kg dry	EPA 6010D	
Chromium - Total	3.88		0.107	0.533	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW4-12	Lab ID:	CA19434-07
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	1.92		0.342	0.535	mg/kg dry	EPA 6010D	
Chromium - Total	5.34		0.107	0.535	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW4-24	Lab ID:	CA19434-08
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	0.831		0.344	0.537	mg/kg dry	EPA 6010D	
Chromium - Total	3.47		0.107	0.537	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW5-12	Lab ID:	CA19434-09
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	1.51		0.344	0.537	mg/kg dry	EPA 6010D	
Chromium - Total	6.24		0.107	0.537	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW5-24	Lab ID:	CA19434-10
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	1.28		0.346	0.541	mg/kg dry	EPA 6010D	
Chromium - Total	4.53		0.108	0.541	mg/kg dry	EPA 6010D	



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ANALYTICAL RESULTS

Description: EA4-SW1-12

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19434-01

Sampled: 12/13/17 09:57

Sampled By: Kendall Dunham

Received: 12/14/17 14:00

Work Order: CA19434

% Solids: 93.4

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	14.0		mg/kg dry	1	0.343	0.535	7L15017	EPA 6010D	12/18/17 14:29	JDH	
Chromium [7440-47-3] ^	14.5		mg/kg dry	1	0.107	0.535	7L15017	EPA 6010D	12/18/17 14:29	JDH	



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Description: EA4-SW1-24

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19434-02

Sampled: 12/13/17 09:50

Sampled By: Kendall Dunham

Received: 12/14/17 14:00

Work Order: CA19434

% Solids: 94.6

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte</u> [<u>CAS Number</u>]	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	1.27		mg/kg dry	1	0.338	0.529	7L15017	EPA 6010D	12/18/17 14:31	JDH	
Chromium [7440-47-3] ^	4.11		mg/kg dry	1	0.106	0.529	7L15017	EPA 6010D	12/18/17 14:31	JDH	



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Description: EA4-SW2-12

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19434-03

Sampled: 12/13/17 10:06

Sampled By: Kendall Dunham

Received: 12/14/17 14:00

Work Order: CA19434

% Solids: 94.7

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	13.1		mg/kg dry	1	0.338	0.528	7L15017	EPA 6010D	12/18/17 14:34	JDH	
Chromium [7440-47-3] ^	17.7		mg/kg dry	1	0.106	0.528	7L15017	EPA 6010D	12/18/17 14:34	JDH	



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Description: EA4-SW2-24

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19434-04

Sampled: 12/13/17 09:59

Sampled By: Kendall Dunham

Received: 12/14/17 14:00

Work Order: CA19434

% Solids: 95.1

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	BLOQ		mg/kg dry	1	0.337	0.526	7L15017	EPA 6010D	12/18/17 14:37	JDH	
Chromium [7440-47-3] ^	2.91		mg/kg dry	1	0.105	0.526	7L15017	EPA 6010D	12/18/17 14:37	JDH	



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Description: EA4-SW3-12

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19434-05

Sampled: 12/13/17 10:18

Sampled By: Kendall Dunham

Received: 12/14/17 14:00

Work Order: CA19434

% Solids: 93.9

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	1.37		mg/kg dry	1	0.341	0.533	7L15017	EPA 6010D	12/18/17 14:39	JDH	
Chromium [7440-47-3] ^	4.65		mg/kg dry	1	0.107	0.533	7L15017	EPA 6010D	12/18/17 14:39	JDH	



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Description: EA4-SW3-24

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19434-06

Sampled: 12/13/17 10:13

Sampled By: Kendall Dunham

Received: 12/14/17 14:00

Work Order: CA19434

% Solids: 93.8

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	0.955		mg/kg dry	1	0.341	0.533	7L15017	EPA 6010D	12/18/17 14:42	JDH	
Chromium [7440-47-3] ^	3.88		mg/kg dry	1	0.107	0.533	7L15017	EPA 6010D	12/18/17 14:42	JDH	



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Description: EA4-SW4-12

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19434-07

Sampled: 12/13/17 10:25

Sampled By: Kendall Dunham

Received: 12/14/17 14:00

Work Order: CA19434

% Solids: 93.5

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	1.92		mg/kg dry	1	0.342	0.535	7L15017	EPA 6010D	12/18/17 14:44	JDH	
Chromium [7440-47-3] ^	5.34		mg/kg dry	1	0.107	0.535	7L15017	EPA 6010D	12/18/17 14:44	JDH	



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Description: EA4-SW4-24

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19434-08

Sampled: 12/13/17 10:21

Sampled By: Kendall Dunham

Received: 12/14/17 14:00

Work Order: CA19434

% Solids: 93.1

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	0.831		mg/kg dry	1	0.344	0.537	7L15017	EPA 6010D	12/18/17 14:56	JDH	
Chromium [7440-47-3] ^	3.47		mg/kg dry	1	0.107	0.537	7L15017	EPA 6010D	12/18/17 14:56	JDH	



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Description: EA4-SW5-12

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19434-09

Sampled: 12/13/17 10:34

Sampled By: Kendall Dunham

Received: 12/14/17 14:00

Work Order: CA19434

% Solids: 93.1

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	1.51		mg/kg dry	1	0.344	0.537	7L15017	EPA 6010D	12/18/17 14:58	JDH	
Chromium [7440-47-3] ^	6.24		mg/kg dry	1	0.107	0.537	7L15017	EPA 6010D	12/18/17 14:58	JDH	



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Description: EA4-SW5-24

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19434-10

Sampled: 12/13/17 10:32

Sampled By: Kendall Dunham

Received: 12/14/17 14:00

Work Order: CA19434

% Solids: 92.5

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	1.28		mg/kg dry	1	0.346	0.541	7L15017	EPA 6010D	12/18/17 15:00	JDH	
Chromium [7440-47-3] ^	4.53		mg/kg dry	1	0.108	0.541	7L15017	EPA 6010D	12/18/17 15:00	JDH	

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 7L15017 - EPA 3050B

Blank (7L15017-BLK1)

Prepared: 12/15/2017 10:40 Analyzed: 12/18/2017 13:08

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	BLOD		0.500	mg/kg wet							
Chromium	BLOD		0.500	mg/kg wet							

LCS (7L15017-BS1)

Prepared: 12/15/2017 10:40 Analyzed: 12/18/2017 13:56

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	9.96		0.500	mg/kg wet	10.0		100	80-120			
Chromium	10.4		0.500	mg/kg wet	10.0		104	80-120			

Matrix Spike (7L15017-MS1)

Prepared: 12/15/2017 10:40 Analyzed: 12/18/2017 14:01

Source: CA18655-01

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	15.5		0.722	mg/kg dry	14.6	3.68	81	75-125			
Chromium	50.1		0.722	mg/kg dry	14.6	33.3	115	75-125			

Matrix Spike Dup (7L15017-MSD1)

Prepared: 12/15/2017 10:40 Analyzed: 12/18/2017 14:03

Source: CA18655-01

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	15.7		0.722	mg/kg dry	13.9	3.68	87	75-125	1	20	
Chromium	50.3		0.722	mg/kg dry	13.9	33.3	122	75-125	0.3	20	

Post Spike (7L15017-PS1)

Prepared: 12/15/2017 10:40 Analyzed: 12/18/2017 14:05

Source: CA18655-01

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.258		0.0100	mg/L	0.200	0.0510	104	80-120			
Chromium	0.724		0.0100	mg/L	0.200	0.461	131	80-120			QM-08

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
BLOQ	The reported value is between the laboratory Limit of Detection (LOD) and the laboratory Limit of Quantitation (LOQ), adjusted for actual sample preparation data and moisture content, where applicable.
BLOD	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
LOQ	Limit of Quantitation. The LOQ is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
QM-08	Post-digestion spike did not meet method requirements due to confirmed matrix effects (dilution test).

CHAIN OF CUSTODY

CLIENT:	LIESFELD FARMS	CONSULTANT:	DRAPER ADEN ASSOCIATES	COPY GOA TO CONSULTANT?	YES
ATTN:	THOMAS LIESFELD	ATTN:	WILLIAM A SALOMONE (WSALOMONE@DAA.COM)	COPY INVOICE TO CONSULTANT?	YES
STREET:	859 BEN HATCHER ROAD	STREET:	8090 VILLA PARK DRIVE	PROJECT:	NRWP / CONFIRMATORY SAMPLING
CITY:	WAYNESBORO, GA 30830	CITY:	RICHMOND, VIRGINIA 23228	LOCATION:	PROVIDENCE FORGE, VIRGINIA
PHONE:	804-833-4286	PHONE:	804-264-2228	LABORATORY:	ENCO Labs, 102-A Woodwinds Industrial Court, Cary NC, 27511 (919) 467-3090
TURN AROUND:	1 2 3 5 10 DAYS	P.O. #:	R16434R-12	ANALYSES REQUESTED	Att: Chuck Smith

LAB USE ONLY

SAMPLE INFORMATION

Metals (As, Cr)

COMMENTS (SAMPLING INTERVAL)

CA19434

LAB ID	SAMPLE ID	DATE	TIME	COMPOSITE	Grab	NO. OF JARS	MATRIX
	EA4-SW1-12	12/13/17	0957		✓	1	S
	EA4-SW1-24		0950		✓	1	S
	EA4-SW2-12		1006		✓	1	S
	EA4-SW2-24		0959		✓	1	S
	EA4-SW3-12		1010		✓	1	S
	EA4-SW3-24		1013		✓	1	S
	EA4-SW4-12		1025		✓	1	S
	EA4-SW4-24		1021		✓	1	S
	EA4-SW5-12		1034		✓	1	S
	EA4-SW5-24		1032		✓	1	S

SAMPLED BY:

Kendall Dunham

SAMPLED BY:

Kendall Dunham

RELINQUISHED BY:

Kendall Dunham

DATE

12/13/17

TIME

1600

RECEIVED BY:

Fedex

DATE

12/13/17

TIME

1600

TEMP:

18.9C

pH:

CONTENTS: A = AIR, S=SOIL, G=GROUNDWATER, WW=WASTEWATER

Level 2 data package.
Please report all concentrations in mg/kg (dry weight).
All dry weight analyses shall be total analysis.

Environmental Conservation Laboratories, Inc.

102-A Woodwinds Industrial Court

Cary NC, 27511

Phone: 919.467.3090 FAX: 919.467.3515



www.encolabs.com

Thursday, December 28, 2017

Draper Aden Associates (DR002)

Attn: William Salomone

8090 Villa Park Drive

Richmond, VA 23228

RE: Laboratory Results for

Project Number: R15434R-12, Project Name/Desc: NKWP

ENCO Workorder: CA19685

Dear William Salomone,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Wednesday, December 20, 2017.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink that reads "Chuck Smith". The signature is written in a cursive, flowing style.

Chuck Smith

Project Manager

Enclosure(s)



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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID:	EA4-SW6-12	Lab ID:	CA19685-01	Sampled:	12/19/17 09:38	Received:	12/20/17 14:30
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Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010D	06/17/18	12/21/17 09:58	12/28/2017 14:12

Client ID:	EA4-SW6-24	Lab ID:	CA19685-02	Sampled:	12/19/17 09:35	Received:	12/20/17 14:30
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Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010D	06/17/18	12/21/17 09:58	12/28/2017 14:23

Client ID:	EA4-SW7-12	Lab ID:	CA19685-03	Sampled:	12/19/17 09:44	Received:	12/20/17 14:30
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Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010D	06/17/18	12/21/17 09:58	12/28/2017 14:50

Client ID:	EA4-SW7-24	Lab ID:	CA19685-04	Sampled:	12/19/17 09:41	Received:	12/20/17 14:30
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Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010D	06/17/18	12/21/17 09:58	12/28/2017 14:53

Client ID:	EA4-SW8-12	Lab ID:	CA19685-05	Sampled:	12/19/17 10:40	Received:	12/20/17 14:30
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Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010D	06/17/18	12/21/17 09:58	12/28/2017 14:55

Client ID:	EA4-SW8-24	Lab ID:	CA19685-06	Sampled:	12/19/17 10:37	Received:	12/20/17 14:30
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Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010D	06/17/18	12/21/17 09:58	12/28/2017 14:57

Client ID:	EA4-SW9-12	Lab ID:	CA19685-07	Sampled:	12/19/17 10:45	Received:	12/20/17 14:30
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Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010D	06/17/18	12/21/17 09:58	12/28/2017 15:00

Client ID:	EA4-SW9-24	Lab ID:	CA19685-08	Sampled:	12/19/17 10:49	Received:	12/20/17 14:30
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Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010D	06/17/18	12/21/17 09:58	12/28/2017 15:03

Client ID:	EA4-SW10-12	Lab ID:	CA19685-09	Sampled:	12/19/17 10:56	Received:	12/20/17 14:30
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Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010D	06/17/18	12/21/17 09:58	12/28/2017 15:05



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Client ID: EA4-SW10-24		Lab ID: CA19685-10		Sampled: 12/19/17 10:59		Received: 12/20/17 14:30	
Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)			
EPA 6010D	06/17/18	12/21/17 09:58		12/28/2017 15:08			

Client ID: EA4-SW11-12		Lab ID: CA19685-11		Sampled: 12/19/17 11:05		Received: 12/20/17 14:30	
Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)			
EPA 6010D	06/17/18	12/21/17 09:58		12/28/2017 15:10			

Client ID: EA4-SW11-24		Lab ID: CA19685-12		Sampled: 12/19/17 11:07		Received: 12/20/17 14:30	
Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)			
EPA 6010D	06/17/18	12/21/17	09:58	12/28/2017 15:13			

SAMPLE DETECTION SUMMARY

Client ID:	EA4-SW6-12	Lab ID:	CA19685-01
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	7.47		0.341	0.532	mg/kg dry	EPA 6010D	
Chromium - Total	16.8		0.106	0.532	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW6-24	Lab ID:	CA19685-02
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	1.62		0.349	0.545	mg/kg dry	EPA 6010D	
Chromium - Total	4.10		0.109	0.545	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW7-12	Lab ID:	CA19685-03
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	7.99		0.345	0.540	mg/kg dry	EPA 6010D	
Chromium - Total	17.1		0.108	0.540	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW7-24	Lab ID:	CA19685-04
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	1.70		0.346	0.540	mg/kg dry	EPA 6010D	
Chromium - Total	4.89		0.108	0.540	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW8-12	Lab ID:	CA19685-05
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	5.32		0.354	0.553	mg/kg dry	EPA 6010D	
Chromium - Total	10.3		0.111	0.553	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW8-24	Lab ID:	CA19685-06
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	11.2		0.334	0.522	mg/kg dry	EPA 6010D	
Chromium - Total	21.4		0.104	0.522	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW9-12	Lab ID:	CA19685-07
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	4.56		0.341	0.533	mg/kg dry	EPA 6010D	
Chromium - Total	7.22		0.107	0.533	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW9-24	Lab ID:	CA19685-08
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	10.2		0.354	0.554	mg/kg dry	EPA 6010D	
Chromium - Total	20.2		0.111	0.554	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW10-12	Lab ID:	CA19685-09
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	1.12		0.336	0.526	mg/kg dry	EPA 6010D	
Chromium - Total	2.55		0.105	0.526	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW10-24	Lab ID:	CA19685-10
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	13.3		0.363	0.567	mg/kg dry	EPA 6010D	
Chromium - Total	60.2		0.113	0.567	mg/kg dry	EPA 6010D	



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Client ID: EA4-SW11-12		Lab ID: CA19685-11					
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	0.821		0.346	0.541	mg/kg dry	EPA 6010D	
Chromium - Total	1.64		0.108	0.541	mg/kg dry	EPA 6010D	

Client ID: EA4-SW11-24		Lab ID: CA19685-12					
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	7.91		0.357	0.557	mg/kg dry	EPA 6010D	
Chromium - Total	57.2		0.111	0.557	mg/kg dry	EPA 6010D	



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ANALYTICAL RESULTS

Description: EA4-SW6-12

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19685-01

Sampled: 12/19/17 09:38

Sampled By: Kendall Dunham

Received: 12/20/17 14:30

Work Order: CA19685

% Solids: 94.0

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	7.47		mg/kg dry	1	0.341	0.532	7L21020	EPA 6010D	12/28/17 14:12	JMV	
Chromium [7440-47-3] ^	16.8		mg/kg dry	1	0.106	0.532	7L21020	EPA 6010D	12/28/17 14:12	JMV	



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Description: EA4-SW6-24

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19685-02

Sampled: 12/19/17 09:35

Sampled By: Kendall Dunham

Received: 12/20/17 14:30

Work Order: CA19685

% Solids: 91.7

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	1.62		mg/kg dry	1	0.349	0.545	7L21020	EPA 6010D	12/28/17 14:23	JMV	
Chromium [7440-47-3] ^	4.10		mg/kg dry	1	0.109	0.545	7L21020	EPA 6010D	12/28/17 14:23	JMV	



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Description: EA4-SW7-12

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19685-03

Sampled: 12/19/17 09:44

Sampled By: Kendall Dunham

Received: 12/20/17 14:30

Work Order: CA19685

% Solids: 92.6

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	7.99		mg/kg dry	1	0.345	0.540	7L21020	EPA 6010D	12/28/17 14:50	JMV	
Chromium [7440-47-3] ^	17.1		mg/kg dry	1	0.108	0.540	7L21020	EPA 6010D	12/28/17 14:50	JMV	



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Description: EA4-SW7-24

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19685-04

Sampled: 12/19/17 09:41

Sampled By: Kendall Dunham

Received: 12/20/17 14:30

Work Order: CA19685

% Solids: 92.5

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	1.70		mg/kg dry	1	0.346	0.540	7L21020	EPA 6010D	12/28/17 14:53	JMV	
Chromium [7440-47-3] ^	4.89		mg/kg dry	1	0.108	0.540	7L21020	EPA 6010D	12/28/17 14:53	JMV	



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Description: EA4-SW8-12

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19685-05

Sampled: 12/19/17 10:40

Sampled By: Kendall Dunham

Received: 12/20/17 14:30

Work Order: CA19685

% Solids: 90.5

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	5.32		mg/kg dry	1	0.354	0.553	7L21020	EPA 6010D	12/28/17 14:55	JMV	
Chromium [7440-47-3] ^	10.3		mg/kg dry	1	0.111	0.553	7L21020	EPA 6010D	12/28/17 14:55	JMV	



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Description: EA4-SW8-24

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19685-06

Sampled: 12/19/17 10:37

Sampled By: Kendall Dunham

Received: 12/20/17 14:30

Work Order: CA19685

% Solids: 95.9

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte</u> [<u>CAS Number</u>]	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	11.2		mg/kg dry	1	0.334	0.522	7L21020	EPA 6010D	12/28/17 14:57	JMV	
Chromium [7440-47-3] ^	21.4		mg/kg dry	1	0.104	0.522	7L21020	EPA 6010D	12/28/17 14:57	JMV	



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Description: EA4-SW9-12

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19685-07

Sampled: 12/19/17 10:45

Sampled By: Kendall Dunham

Received: 12/20/17 14:30

Work Order: CA19685

% Solids: 93.9

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	4.56		mg/kg dry	1	0.341	0.533	7L21020	EPA 6010D	12/28/17 15:00	JMV	
Chromium [7440-47-3] ^	7.22		mg/kg dry	1	0.107	0.533	7L21020	EPA 6010D	12/28/17 15:00	JMV	



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Description: EA4-SW9-24

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19685-08

Sampled: 12/19/17 10:49

Sampled By: Kendall Dunham

Received: 12/20/17 14:30

Work Order: CA19685

% Solids: 90.3

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	10.2		mg/kg dry	1	0.354	0.554	7L21020	EPA 6010D	12/28/17 15:03	JMV	
Chromium [7440-47-3] ^	20.2		mg/kg dry	1	0.111	0.554	7L21020	EPA 6010D	12/28/17 15:03	JMV	



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Description: EA4-SW10-12

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19685-09

Sampled: 12/19/17 10:56

Sampled By: Kendall Dunham

Received: 12/20/17 14:30

Work Order: CA19685

% Solids: 95.1

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	1.12		mg/kg dry	1	0.336	0.526	7L21020	EPA 6010D	12/28/17 15:05	JMV	
Chromium [7440-47-3] ^	2.55		mg/kg dry	1	0.105	0.526	7L21020	EPA 6010D	12/28/17 15:05	JMV	



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Description: EA4-SW10-24

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19685-10

Sampled: 12/19/17 10:59

Sampled By: Kendall Dunham

Received: 12/20/17 14:30

Work Order: CA19685

% Solids: 88.1

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	13.3		mg/kg dry	1	0.363	0.567	7L21020	EPA 6010D	12/28/17 15:08	JMV	
Chromium [7440-47-3] ^	60.2		mg/kg dry	1	0.113	0.567	7L21020	EPA 6010D	12/28/17 15:08	JMV	



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Description: EA4-SW11-12

Lab Sample ID: CA19685-11

Received: 12/20/17 14:30

Matrix: Soil

Sampled: 12/19/17 11:05

Work Order: CA19685

Project: NKWP

Sampled By: Kendall Dunham

% Solids: 92.5

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte</u> [<u>CAS Number</u>]	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	0.821		mg/kg dry	1	0.346	0.541	7L21020	EPA 6010D	12/28/17 15:10	JMV	
Chromium [7440-47-3] ^	1.64		mg/kg dry	1	0.108	0.541	7L21020	EPA 6010D	12/28/17 15:10	JMV	



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Description: EA4-SW11-24

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19685-12

Sampled: 12/19/17 11:07

Sampled By: Kendall Dunham

Received: 12/20/17 14:30

Work Order: CA19685

% Solids: 89.7

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte</u> [<u>CAS Number</u>]	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	7.91		mg/kg dry	1	0.357	0.557	7L21020	EPA 6010D	12/28/17 15:13	JMV	
Chromium [7440-47-3] ^	57.2		mg/kg dry	1	0.111	0.557	7L21020	EPA 6010D	12/28/17 15:13	JMV	

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 7L21020 - EPA 3050B

Blank (7L21020-BLK1)

Prepared: 12/21/2017 09:58 Analyzed: 12/28/2017 14:07

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	BLOD		0.500	mg/kg wet							
Chromium	BLOD		0.500	mg/kg wet							

LCS (7L21020-BS1)

Prepared: 12/21/2017 09:58 Analyzed: 12/28/2017 14:10

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	10.2		0.500	mg/kg wet	9.80		104	80-120			
Chromium	10.1		0.500	mg/kg wet	9.80		103	80-120			

Matrix Spike (7L21020-MS1)

Prepared: 12/21/2017 09:58 Analyzed: 12/28/2017 14:14

Source: CA19685-01

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	15.1		0.532	mg/kg dry	10.5	7.47	72	75-125			QM-07
Chromium	23.9		0.532	mg/kg dry	10.5	16.8	67	75-125			QM-07

Matrix Spike Dup (7L21020-MSD1)

Prepared: 12/21/2017 09:58 Analyzed: 12/28/2017 14:17

Source: CA19685-01

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	16.1		0.532	mg/kg dry	10.6	7.47	81	75-125	6	20	
Chromium	26.3		0.532	mg/kg dry	10.6	16.8	89	75-125	10	20	

Post Spike (7L21020-PS1)

Prepared: 12/21/2017 09:58 Analyzed: 12/28/2017 14:19

Source: CA19685-01

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.339		0.0100	mg/L	0.200	0.140	99	80-120			
Chromium	0.511		0.0100	mg/L	0.200	0.315	98	80-120			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
BLOQ	The reported value is between the laboratory Limit of Detection (LOD) and the laboratory Limit of Quantitation (LOQ), adjusted for actual sample preparation data and moisture content, where applicable.
BLOD	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
LOQ	Limit of Quantitation. The LOQ is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

CHAIN OF CUSTODY

CLIENT:	LIESFIELD FARMS	CONSULTANT:	DRAPER ADEN ASSOCIATES	COPY COA TO CONSULTANT?	YES
ATTN:	THOMAS LIESFIELD	ATTN:	WILLIAM A SALOMONE (WSALOMONE@DAA.COM)	COPY INVOICE TO CONSULTANT?	YES
STREET:	859 BEN HATCHER ROAD	STREET:	8090 VILLA PARK DRIVE	PROJECT:	NRHP / CONFIRMATORY SAMPLING
CITY:	WAYNESBORO, GA 30330	CITY:	RICHMOND, VIRGINIA 23228	LOCATION:	PROVIDENCE FORGE, VIRGINIA
PHONE:	804-833-4286	PHONE:	804-264-2228	LABORATORY:	ENCO Labs, 102-A Woodwinds Industrial Court, Cary NC, 27511 (919) 487-2090 Attn: Chuck Smith
TURN AROUND:	1 2 3 5 10 DAYS	P.O. #:	RT6424R-12	ANALYSES REQUESTED	
LAB USE ONLY	SAMPLE INFORMATION	COMPOSITE	Grab	NO. OF JARS	MATRIX
LAB ID	SAMPLE ID	DATE	TIME		
	EA4-SW6-12	12/19/17	9:30	✓	✓
	EA4-SW6-24		9:35	✓	✓
	EA4-SW7-12		9:44	✓	✓
	EA4-SW7-24		9:41	✓	✓
	EA4-SW8-12		10:40	✓	✓
	EA4-SW8-24		10:37	✓	✓
	EA4-SW9-12		10:45	✓	✓
	EA4-SW9-24		10:49	✓	✓
	EA4-SW10-12		10:56	✓	✓
	EA4-SW10-24		10:59	✓	✓
	EA4-SW11-12		11:05	✓	✓
	EA4-SW11-24		11:07	✓	✓
SAMPLED BY:	Kendall Dunham	SAMPLED BY:	Kendall Dunham	Level 2 data package. Please report all concentrations in mg/kg (dry weight). All dry weight analyses shall be total analysis.	
RELINQUISHED BY:	Kendall Dunham	DATE	TIME	RECEIVED BY:	DATE
		12/19/17	1815	Fedex	12/20/17
TEMP:		PH:		CONTENTS: A = AIR; S = SOIL; G = GROUNDWATER; WW = WASTEWATER	

Metals (As, Cr)

COMMENTS (SAMPLING INTERVAL)

CA 19685

Environmental Conservation Laboratories, Inc.

102-A Woodwinds Industrial Court

Cary NC, 27511

Phone: 919.467.3090 FAX: 919.467.3515



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Thursday, January 4, 2018

Draper Aden Associates (DR002)

Attn: William Salomone

8090 Villa Park Drive

Richmond, VA 23228

RE: Laboratory Results for

Project Number: R15434R-12, Project Name/Desc: NKWP

ENCO Workorder: CA19785

Dear William Salomone,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Tuesday, December 26, 2017.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink that reads "Chuck Smith". The signature is written in a cursive, flowing style.

Chuck Smith

Project Manager

Enclosure(s)



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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID:	EA4-SW12-12	Lab ID:	CA19785-01	Sampled:	12/21/17 10:38	Received:	12/26/17 11:40
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Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010D	06/19/18	12/28/17 08:53	1/2/2018 13:53

Client ID:	EA4-SW12-24	Lab ID:	CA19785-02	Sampled:	12/21/17 10:34	Received:	12/26/17 11:40
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Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010D	06/19/18	12/28/17 08:53	1/2/2018 14:23

Client ID:	EA4-SW13-12	Lab ID:	CA19785-03	Sampled:	12/21/17 10:42	Received:	12/26/17 11:40
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Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010D	06/19/18	12/28/17 08:53	1/2/2018 14:26

Client ID:	EA4-SW13-24	Lab ID:	CA19785-04	Sampled:	12/21/17 10:40	Received:	12/26/17 11:40
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Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010D	06/19/18	12/28/17 08:53	1/2/2018 14:28

Client ID:	EA4-SW14-12	Lab ID:	CA19785-05	Sampled:	12/21/17 10:50	Received:	12/26/17 11:40
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Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010D	06/19/18	12/28/17 08:53	1/2/2018 14:30

Client ID:	EA4-SW14-24	Lab ID:	CA19785-06	Sampled:	12/21/17 10:48	Received:	12/26/17 11:40
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Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010D	06/19/18	12/28/17 08:53	1/2/2018 14:40

Client ID:	EA4-SW15-12	Lab ID:	CA19785-07	Sampled:	12/21/17 10:55	Received:	12/26/17 11:40
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Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010D	06/19/18	12/28/17 08:53	1/2/2018 14:42

Client ID:	EA4-SW15-24	Lab ID:	CA19785-08	Sampled:	12/21/17 10:52	Received:	12/26/17 11:40
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Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010D	06/19/18	12/28/17 08:53	1/2/2018 14:44

Client ID:	EA4-SW16-12	Lab ID:	CA19785-09	Sampled:	12/21/17 11:04	Received:	12/26/17 11:40
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Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010D	06/19/18	12/28/17 08:53	1/2/2018 14:46



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Client ID:	EA4-SW16-24	Lab ID:	CA19785-10	Sampled:	12/21/17 11:01	Received:	12/26/17 11:40
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)				
EPA 6010D	06/19/18	12/28/17 08:53	1/2/2018 14:49				

Client ID:	EA4-SW17-12	Lab ID:	CA19785-11	Sampled:	12/21/17 11:09	Received:	12/26/17 11:40
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)				
EPA 6010D	06/19/18	12/28/17 08:53	1/2/2018 14:51				

Client ID:	EA4-SW17-24	Lab ID:	CA19785-12	Sampled:	12/21/17 11:07	Received:	12/26/17 11:40
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)				
EPA 6010D	06/19/18	12/28/17 08:53	1/2/2018 14:53				

Client ID:	EA4-SW18-12	Lab ID:	CA19785-13	Sampled:	12/21/17 15:32	Received:	12/26/17 11:40
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)				
EPA 6010D	06/19/18	12/28/17 08:53	1/2/2018 14:56				

Client ID:	EA4-SW18-24	Lab ID:	CA19785-14	Sampled:	12/21/17 15:30	Received:	12/26/17 11:40
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)				
EPA 6010D	06/19/18	12/28/17 08:53	1/2/2018 14:58				

Client ID:	EA4-SW19-12	Lab ID:	CA19785-15	Sampled:	12/21/17 16:24	Received:	12/26/17 11:40
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)				
EPA 6010D	06/19/18	12/28/17 08:53	1/2/2018 15:00				

Client ID:	EA4-SW19-24	Lab ID:	CA19785-16	Sampled:	12/21/17 16:22	Received:	12/26/17 11:40
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)				
EPA 6010D	06/19/18	12/28/17 12:01	1/3/2018 13:28				

Client ID:	EA4-SW20-12	Lab ID:	CA19785-17	Sampled:	12/21/17 11:18	Received:	12/26/17 11:40
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)				
EPA 6010D	06/19/18	12/28/17 12:01	1/3/2018 13:51				

Client ID:	EA4-SW20-24	Lab ID:	CA19785-18	Sampled:	12/21/17 11:16	Received:	12/26/17 11:40
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)				
EPA 6010D	06/19/18	12/28/17 12:01	1/3/2018 13:54				



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Client ID: EA4-SW21-12		Lab ID: CA19785-19		Sampled: 12/21/17 11:22		Received: 12/26/17 11:40	
Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)			
EPA 6010D	06/19/18	12/28/17	12:01	1/3/2018 13:56			

Client ID: EA4-SW21-24		Lab ID: CA19785-20		Sampled: 12/21/17 11:20		Received: 12/26/17 11:40	
Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)			
EPA 6010D	06/19/18	12/28/17	12:01	1/3/2018 13:58			

Client ID: EA4-SW22-12		Lab ID: CA19785-21		Sampled: 12/21/17 11:29		Received: 12/26/17 11:40	
Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)			
EPA 6010D	06/19/18	12/28/17	12:01	1/3/2018 14:01			

Client ID: EA4-SW22-24		Lab ID: CA19785-22		Sampled: 12/21/17 11:27		Received: 12/26/17 11:40	
Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)			
EPA 6010D	06/19/18	12/28/17	12:01	1/3/2018 14:03			

Client ID: EA4-SW23-12		Lab ID: CA19785-23		Sampled: 12/21/17 11:35		Received: 12/26/17 11:40	
Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)			
EPA 6010D	06/19/18	12/28/17	12:01	1/3/2018 14:05			

Client ID: EA4-SW23-24		Lab ID: CA19785-24		Sampled: 12/21/17 11:33		Received: 12/26/17 11:40	
Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)			
EPA 6010D	06/19/18	12/28/17	12:01	1/3/2018 14:07			

SAMPLE DETECTION SUMMARY

Client ID:	EA4-SW12-12	Lab ID:	CA19785-01
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	5.81		0.338	0.527	mg/kg dry	EPA 6010D	
Chromium - Total	6.59		0.105	0.527	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW12-24	Lab ID:	CA19785-02
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	0.904		0.337	0.526	mg/kg dry	EPA 6010D	
Chromium - Total	3.61		0.105	0.526	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW13-12	Lab ID:	CA19785-03
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	67.7		0.353	0.551	mg/kg dry	EPA 6010D	
Chromium - Total	312		0.110	0.551	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW13-24	Lab ID:	CA19785-04
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	1.44		0.339	0.529	mg/kg dry	EPA 6010D	
Chromium - Total	3.75		0.106	0.529	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW14-12	Lab ID:	CA19785-05
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	65.6		0.346	0.541	mg/kg dry	EPA 6010D	
Chromium - Total	169		0.108	0.541	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW14-24	Lab ID:	CA19785-06
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	1.26		0.346	0.540	mg/kg dry	EPA 6010D	
Chromium - Total	4.64		0.108	0.540	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW15-12	Lab ID:	CA19785-07
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	59.8		0.358	0.559	mg/kg dry	EPA 6010D	
Chromium - Total	119		0.112	0.559	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW15-24	Lab ID:	CA19785-08
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	1.25		0.349	0.546	mg/kg dry	EPA 6010D	
Chromium - Total	3.80		0.109	0.546	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW16-12	Lab ID:	CA19785-09
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	46.2		0.362	0.566	mg/kg dry	EPA 6010D	
Chromium - Total	29.7		0.113	0.566	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW16-24	Lab ID:	CA19785-10
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	0.996		0.348	0.543	mg/kg dry	EPA 6010D	
Chromium - Total	3.77		0.109	0.543	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW17-12	Lab ID:	CA19785-11
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	83.1		0.348	0.544	mg/kg dry	EPA 6010D	
Chromium - Total	162		0.109	0.544	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW17-24	Lab ID:	CA19785-12
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	2.13		0.343	0.537	mg/kg dry	EPA 6010D	
Chromium - Total	4.17		0.107	0.537	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW18-12	Lab ID:	CA19785-13
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	3.45		0.349	0.545	mg/kg dry	EPA 6010D	
Chromium - Total	10.0		0.109	0.545	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW18-24	Lab ID:	CA19785-14
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	1.30		0.352	0.550	mg/kg dry	EPA 6010D	
Chromium - Total	10.4		0.110	0.550	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW19-12	Lab ID:	CA19785-15
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	30.8		0.348	0.544	mg/kg dry	EPA 6010D	
Chromium - Total	25.1		0.109	0.544	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW19-24	Lab ID:	CA19785-16
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	3.88		0.342	0.534	mg/kg dry	EPA 6010D	
Chromium - Total	3.70		0.107	0.534	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW20-12	Lab ID:	CA19785-17
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	71.5		0.364	0.569	mg/kg dry	EPA 6010D	
Chromium - Total	152		0.114	0.569	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW20-24	Lab ID:	CA19785-18
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	0.761		0.341	0.533	mg/kg dry	EPA 6010D	
Chromium - Total	2.77		0.107	0.533	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW21-12	Lab ID:	CA19785-19
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	9.68		0.344	0.538	mg/kg dry	EPA 6010D	
Chromium - Total	9.61		0.108	0.538	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW21-24	Lab ID:	CA19785-20
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	1.37		0.342	0.534	mg/kg dry	EPA 6010D	
Chromium - Total	3.42		0.107	0.534	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW22-12	Lab ID:	CA19785-21
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
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Client ID:	EA4-SW22-12	Lab ID:	CA19785-21
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	37.2		0.334	0.522	mg/kg dry	EPA 6010D	
Chromium - Total	67.3		0.104	0.522	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW22-24	Lab ID:	CA19785-22
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	0.977		0.340	0.531	mg/kg dry	EPA 6010D	
Chromium - Total	2.92		0.106	0.531	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW23-12	Lab ID:	CA19785-23
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	13.9		0.334	0.521	mg/kg dry	EPA 6010D	
Chromium - Total	17.4		0.104	0.521	mg/kg dry	EPA 6010D	

Client ID:	EA4-SW23-24	Lab ID:	CA19785-24
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Analyte	Results	Flag	LOD	LOQ	Units	Method	Notes
Arsenic - Total	0.759		0.340	0.531	mg/kg dry	EPA 6010D	
Chromium - Total	3.45		0.106	0.531	mg/kg dry	EPA 6010D	



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ANALYTICAL RESULTS

Description: EA4-SW12-12

Lab Sample ID: CA19785-01

Received: 12/26/17 11:40

Matrix: Soil

Sampled: 12/21/17 10:38

Work Order: CA19785

Project: NKWP

Sampled By: Kendall Dunham

% Solids: 94.8

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	5.81		mg/kg dry	1	0.338	0.527	7L28004	EPA 6010D	01/02/18 13:53	JMV	
Chromium [7440-47-3] ^	6.59		mg/kg dry	1	0.105	0.527	7L28004	EPA 6010D	01/02/18 13:53	JMV	



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Description: EA4-SW12-24

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19785-02

Sampled: 12/21/17 10:34

Sampled By: Kendall Dunham

Received: 12/26/17 11:40

Work Order: CA19785

% Solids: 95.1

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	0.904		mg/kg dry	1	0.337	0.526	7L28004	EPA 6010D	01/02/18 14:23	JMV	
Chromium [7440-47-3] ^	3.61		mg/kg dry	1	0.105	0.526	7L28004	EPA 6010D	01/02/18 14:23	JMV	



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Description: EA4-SW13-12

Lab Sample ID: CA19785-03

Received: 12/26/17 11:40

Matrix: Soil

Sampled: 12/21/17 10:42

Work Order: CA19785

Project: NKWP

Sampled By: Kendall Dunham

% Solids: 90.8

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	67.7		mg/kg dry	1	0.353	0.551	7L28004	EPA 6010D	01/02/18 14:26	JMV	
Chromium [7440-47-3] ^	312		mg/kg dry	1	0.110	0.551	7L28004	EPA 6010D	01/02/18 14:26	JMV	



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Description: EA4-SW13-24

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19785-04

Sampled: 12/21/17 10:40

Sampled By: Kendall Dunham

Received: 12/26/17 11:40

Work Order: CA19785

% Solids: 94.4

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	1.44		mg/kg dry	1	0.339	0.529	7L28004	EPA 6010D	01/02/18 14:28	JMV	
Chromium [7440-47-3] ^	3.75		mg/kg dry	1	0.106	0.529	7L28004	EPA 6010D	01/02/18 14:28	JMV	



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Description: EA4-SW14-12

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19785-05

Sampled: 12/21/17 10:50

Sampled By: Kendall Dunham

Received: 12/26/17 11:40

Work Order: CA19785

% Solids: 92.5

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	65.6		mg/kg dry	1	0.346	0.541	7L28004	EPA 6010D	01/02/18 14:30	JMV	
Chromium [7440-47-3] ^	169		mg/kg dry	1	0.108	0.541	7L28004	EPA 6010D	01/02/18 14:30	JMV	



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Description: EA4-SW14-24

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19785-06

Sampled: 12/21/17 10:48

Sampled By: Kendall Dunham

Received: 12/26/17 11:40

Work Order: CA19785

% Solids: 92.6

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	1.26		mg/kg dry	1	0.346	0.540	7L28004	EPA 6010D	01/02/18 14:40	JMV	
Chromium [7440-47-3] ^	4.64		mg/kg dry	1	0.108	0.540	7L28004	EPA 6010D	01/02/18 14:40	JMV	



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Description: EA4-SW15-12

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19785-07

Sampled: 12/21/17 10:55

Sampled By: Kendall Dunham

Received: 12/26/17 11:40

Work Order: CA19785

% Solids: 89.5

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	59.8		mg/kg dry	1	0.358	0.559	7L28004	EPA 6010D	01/02/18 14:42	JMV	
Chromium [7440-47-3] ^	119		mg/kg dry	1	0.112	0.559	7L28004	EPA 6010D	01/02/18 14:42	JMV	



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Description: EA4-SW15-24

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19785-08

Sampled: 12/21/17 10:52

Sampled By: Kendall Dunham

Received: 12/26/17 11:40

Work Order: CA19785

% Solids: 91.6

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	1.25		mg/kg dry	1	0.349	0.546	7L28004	EPA 6010D	01/02/18 14:44	JMV	
Chromium [7440-47-3] ^	3.80		mg/kg dry	1	0.109	0.546	7L28004	EPA 6010D	01/02/18 14:44	JMV	



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Description: EA4-SW16-12

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19785-09

Sampled: 12/21/17 11:04

Sampled By: Kendall Dunham

Received: 12/26/17 11:40

Work Order: CA19785

% Solids: 88.3

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	46.2		mg/kg dry	1	0.362	0.566	7L28004	EPA 6010D	01/02/18 14:46	JMV	
Chromium [7440-47-3] ^	29.7		mg/kg dry	1	0.113	0.566	7L28004	EPA 6010D	01/02/18 14:46	JMV	



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Description: EA4-SW16-24

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19785-10

Sampled: 12/21/17 11:01

Sampled By: Kendall Dunham

Received: 12/26/17 11:40

Work Order: CA19785

% Solids: 92.0

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	0.996		mg/kg dry	1	0.348	0.543	7L28004	EPA 6010D	01/02/18 14:49	JMV	
Chromium [7440-47-3] ^	3.77		mg/kg dry	1	0.109	0.543	7L28004	EPA 6010D	01/02/18 14:49	JMV	



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Description: EA4-SW17-12

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19785-11

Sampled: 12/21/17 11:09

Sampled By: Kendall Dunham

Received: 12/26/17 11:40

Work Order: CA19785

% Solids: 91.8

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	83.1		mg/kg dry	1	0.348	0.544	7L28004	EPA 6010D	01/02/18 14:51	JMV	
Chromium [7440-47-3] ^	162		mg/kg dry	1	0.109	0.544	7L28004	EPA 6010D	01/02/18 14:51	JMV	



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Description: EA4-SW17-24

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19785-12

Sampled: 12/21/17 11:07

Sampled By: Kendall Dunham

Received: 12/26/17 11:40

Work Order: CA19785

% Solids: 93.2

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	2.13		mg/kg dry	1	0.343	0.537	7L28004	EPA 6010D	01/02/18 14:53	JMV	
Chromium [7440-47-3] ^	4.17		mg/kg dry	1	0.107	0.537	7L28004	EPA 6010D	01/02/18 14:53	JMV	



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Description: EA4-SW18-12

Lab Sample ID: CA19785-13

Received: 12/26/17 11:40

Matrix: Soil

Sampled: 12/21/17 15:32

Work Order: CA19785

Project: NKWP

Sampled By: Kendall Dunham

% Solids: 91.8

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte</u> [<u>CAS Number</u>]	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	3.45		mg/kg dry	1	0.349	0.545	7L28004	EPA 6010D	01/02/18 14:56	JMV	
Chromium [7440-47-3] ^	10.0		mg/kg dry	1	0.109	0.545	7L28004	EPA 6010D	01/02/18 14:56	JMV	



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Description: EA4-SW18-24

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19785-14

Sampled: 12/21/17 15:30

Sampled By: Kendall Dunham

Received: 12/26/17 11:40

Work Order: CA19785

% Solids: 90.9

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	1.30		mg/kg dry	1	0.352	0.550	7L28004	EPA 6010D	01/02/18 14:58	JMV	
Chromium [7440-47-3] ^	10.4		mg/kg dry	1	0.110	0.550	7L28004	EPA 6010D	01/02/18 14:58	JMV	



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Description: EA4-SW19-12

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19785-15

Sampled: 12/21/17 16:24

Sampled By: Kendall Dunham

Received: 12/26/17 11:40

Work Order: CA19785

% Solids: 91.9

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	30.8		mg/kg dry	1	0.348	0.544	7L28004	EPA 6010D	01/02/18 15:00	JMV	
Chromium [7440-47-3] ^	25.1		mg/kg dry	1	0.109	0.544	7L28004	EPA 6010D	01/02/18 15:00	JMV	



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Description: EA4-SW19-24

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19785-16

Sampled: 12/21/17 16:22

Sampled By: Kendall Dunham

Received: 12/26/17 11:40

Work Order: CA19785

% Solids: 93.7

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	3.88		mg/kg dry	1	0.342	0.534	7L28005	EPA 6010D	01/03/18 13:28	JMV	
Chromium [7440-47-3] ^	3.70		mg/kg dry	1	0.107	0.534	7L28005	EPA 6010D	01/03/18 13:28	JMV	



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Description: EA4-SW20-12

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19785-17

Sampled: 12/21/17 11:18

Sampled By: Kendall Dunham

Received: 12/26/17 11:40

Work Order: CA19785

% Solids: 87.8

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	71.5		mg/kg dry	1	0.364	0.569	7L28005	EPA 6010D	01/03/18 13:51	JMV	
Chromium [7440-47-3] ^	152		mg/kg dry	1	0.114	0.569	7L28005	EPA 6010D	01/03/18 13:51	JMV	



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Description: EA4-SW20-24

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19785-18

Sampled: 12/21/17 11:16

Sampled By: Kendall Dunham

Received: 12/26/17 11:40

Work Order: CA19785

% Solids: 93.9

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	0.761		mg/kg dry	1	0.341	0.533	7L28005	EPA 6010D	01/03/18 13:54	JMV	
Chromium [7440-47-3] ^	2.77		mg/kg dry	1	0.107	0.533	7L28005	EPA 6010D	01/03/18 13:54	JMV	



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Description: EA4-SW21-12

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19785-19

Sampled: 12/21/17 11:22

Sampled By: Kendall Dunham

Received: 12/26/17 11:40

Work Order: CA19785

% Solids: 93.0

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	9.68		mg/kg dry	1	0.344	0.538	7L28005	EPA 6010D	01/03/18 13:56	JMV	
Chromium [7440-47-3] ^	9.61		mg/kg dry	1	0.108	0.538	7L28005	EPA 6010D	01/03/18 13:56	JMV	



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Description: EA4-SW21-24

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19785-20

Sampled: 12/21/17 11:20

Sampled By: Kendall Dunham

Received: 12/26/17 11:40

Work Order: CA19785

% Solids: 93.7

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte</u> [<u>CAS Number</u>]	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	1.37		mg/kg dry	1	0.342	0.534	7L28005	EPA 6010D	01/03/18 13:58	JMV	
Chromium [7440-47-3] ^	3.42		mg/kg dry	1	0.107	0.534	7L28005	EPA 6010D	01/03/18 13:58	JMV	



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Description: EA4-SW22-12

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19785-21

Sampled: 12/21/17 11:29

Sampled By: Kendall Dunham

Received: 12/26/17 11:40

Work Order: CA19785

% Solids: 95.8

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	37.2		mg/kg dry	1	0.334	0.522	7L28005	EPA 6010D	01/03/18 14:01	JMV	
Chromium [7440-47-3] ^	67.3		mg/kg dry	1	0.104	0.522	7L28005	EPA 6010D	01/03/18 14:01	JMV	



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Description: EA4-SW22-24

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19785-22

Sampled: 12/21/17 11:27

Sampled By: Kendall Dunham

Received: 12/26/17 11:40

Work Order: CA19785

% Solids: 94.2

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	0.977		mg/kg dry	1	0.340	0.531	7L28005	EPA 6010D	01/03/18 14:03	JMV	
Chromium [7440-47-3] ^	2.92		mg/kg dry	1	0.106	0.531	7L28005	EPA 6010D	01/03/18 14:03	JMV	



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Description: EA4-SW23-12

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19785-23

Sampled: 12/21/17 11:35

Sampled By: Kendall Dunham

Received: 12/26/17 11:40

Work Order: CA19785

% Solids: 95.9

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	13.9		mg/kg dry	1	0.334	0.521	7L28005	EPA 6010D	01/03/18 14:05	JMV	
Chromium [7440-47-3] ^	17.4		mg/kg dry	1	0.104	0.521	7L28005	EPA 6010D	01/03/18 14:05	JMV	



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Description: EA4-SW23-24

Matrix: Soil

Project: NKWP

Lab Sample ID: CA19785-24

Sampled: 12/21/17 11:33

Sampled By: Kendall Dunham

Received: 12/26/17 11:40

Work Order: CA19785

% Solids: 94.1

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>LOD</u>	<u>LOQ</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2] ^	0.759		mg/kg dry	1	0.340	0.531	7L28005	EPA 6010D	01/03/18 14:07	JMV	
Chromium [7440-47-3] ^	3.45		mg/kg dry	1	0.106	0.531	7L28005	EPA 6010D	01/03/18 14:07	JMV	

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 7L28004 - EPA 3050B

Blank (7L28004-BLK1)

Prepared: 12/28/2017 08:53 Analyzed: 01/02/2018 13:48

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	BLOD		0.500	mg/kg wet							
Chromium	BLOD		0.500	mg/kg wet							

LCS (7L28004-BS1)

Prepared: 12/28/2017 08:53 Analyzed: 01/02/2018 13:51

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	8.21		0.500	mg/kg wet	10.0		82	80-120			
Chromium	8.29		0.500	mg/kg wet	10.0		83	80-120			

Matrix Spike (7L28004-MS1)

Prepared: 12/28/2017 08:53 Analyzed: 01/02/2018 13:56

Source: CA19785-01

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	14.4		0.527	mg/kg dry	10.4	5.81	82	75-125			
Chromium	16.3		0.527	mg/kg dry	10.4	6.59	93	75-125			

Matrix Spike Dup (7L28004-MSD1)

Prepared: 12/28/2017 08:53 Analyzed: 01/02/2018 13:58

Source: CA19785-01

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	13.8		0.527	mg/kg dry	10.5	5.81	75	75-125	4	20	
Chromium	16.1		0.527	mg/kg dry	10.5	6.59	90	75-125	1	20	

Post Spike (7L28004-PS1)

Prepared: 12/28/2017 08:53 Analyzed: 01/02/2018 14:00

Source: CA19785-01

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.325		0.0100	mg/L	0.200	0.110	107	80-120			
Chromium	0.333		0.0100	mg/L	0.200	0.125	104	80-120			

Batch 7L28005 - EPA 3050B

Blank (7L28005-BLK1)

Prepared: 12/28/2017 12:01 Analyzed: 01/03/2018 13:23

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	BLOD		0.500	mg/kg wet							
Chromium	BLOD		0.500	mg/kg wet							

LCS (7L28005-BS1)

Prepared: 12/28/2017 12:01 Analyzed: 01/03/2018 13:31

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	10.2		0.500	mg/kg wet	10.0		102	80-120			
Chromium	10.4		0.500	mg/kg wet	10.0		104	80-120			

Matrix Spike (7L28005-MS1)

Prepared: 12/28/2017 12:01 Analyzed: 01/03/2018 13:34

Source: CA19785-16



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QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 7L28005 - EPA 3050B

Matrix Spike (7L28005-MS1) Continued

Prepared: 12/28/2017 12:01 Analyzed: 01/03/2018 13:34

Source: CA19785-16

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	12.9		0.534	mg/kg dry	10.6	3.88	85	75-125			
Chromium	13.0		0.534	mg/kg dry	10.6	3.70	88	75-125			

Matrix Spike Dup (7L28005-MSD1)

Prepared: 12/28/2017 12:01 Analyzed: 01/03/2018 13:36

Source: CA19785-16

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	12.2		0.534	mg/kg dry	10.7	3.88	78	75-125	6	20	
Chromium	12.4		0.534	mg/kg dry	10.7	3.70	82	75-125	5	20	

Post Spike (7L28005-PS1)

Prepared: 12/28/2017 12:01 Analyzed: 01/03/2018 13:39

Source: CA19785-16

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.284		0.0100	mg/L	0.200	0.0727	106	80-120			
Chromium	0.277		0.0100	mg/L	0.200	0.0693	104	80-120			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
BLOQ	The reported value is between the laboratory Limit of Detection (LOD) and the laboratory Limit of Quantitation (LOQ), adjusted for actual sample preparation data and moisture content, where applicable.
BLOD	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
LOQ	Limit of Quantitation. The LOQ is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.

CHAIN OF CUSTODY

CLIENT:	LIESFELD FARMS	CONSULTANT:	DRAPER ADEN ASSOCIATES	COPY COA TO CONSULTANT?	YES
ATTN:	THOMAS LIESFELD	ATTN:	WILLIAM A SALOMONE (WSALOMONE@DAA.COM)	COPY INVOICE TO CONSULTANT?	YES
STREET:	839 BEN HATCHER ROAD	STREET:	8090 VILLA PARK DRIVE	PROJECT:	NKWP / CONFIRMATORY SAMPLING
CITY:	WAYNESBORO, GA 30030	CITY:	RICHMOND, VIRGINIA 23228	LOCATION:	PROVIDENCE FORGE, VIRGINIA
PHONE:	804-833-4286	PHONE:	804-264-2228	LABORATORY:	ENCO Labs, 102-A Woodwinds Industrial Court, Cary NC, 27511 (919) 467-3090
				Att: Chuck Smith	

TURN AROUND: 1 2 3 5 10 DAYS

P.O. #: R1543AR-12

ANALYSES REQUESTED

LAB USE ONLY

SAMPLE INFORMATION

Metals (As, Cr)

COMMENTS (SAMPLING INTERVAL)

CA 19785

LAB ID	SAMPLE ID	DATE	TIME	COMPOSITE	Grab	NO. OF JARS	MATRIX	
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	EA4-SW12-12	12/21/17	1038		✓	1	5	✓
	EA4-SW12-24		1034		✓	1	5	✓
	EA4-SW13-12		1042		✓	1	5	✓
	EA4-SW13-24		1040		✓	1	5	✓
	EA4-SW14-12		1050		✓	1	5	✓
	EA4-SW14-24		1048		✓	1	5	✓
	EA4-SW15-12		1055		✓	1	5	✓
	EA4-SW15-24		1052		✓	1	5	✓
	EA4-SW16-12		1104		✓	1	5	✓
	EA4-SW16-24		1101		✓	1	5	✓
	EA4-SW17-12		1109		✓	1	5	✓
	EA4-SW17-24		1107		✓	1	5	✓
	EA4-SW18-12		1532		✓	1	5	✓
	EA4-SW18-24		1530		✓	1	5	✓

SAMPLED BY:

Jenelle Dunham

SAMPLED BY:

Kendall Dunham

RELINQUISHED BY:

Jenelle Dunham

DATE

12/21/17

TIME

1545

RECEIVED BY:

Felix

DATE

12/21/17

TIME

1545

12/21/17

11:40

TEMP: pH: CONTENTS: A = AIR, S = SOIL, G = GROUNDWATER, WW = WASTEWATER

CLIENT:	LIESFELD FARMS	CONSULTANT:	DRAPER ADEEN ASSOCIATES	COPY COA TO CONSULTANT?	YES
ATTN:	THOMAS LIESFELD	ATTN:	WILLIAM A SALOMONE (WSALOMONE@DAA.COM)	COPY INVOICE TO CONSULTANT?	YES
STREET:	855 BEN HATCHER ROAD	STREET:	8090 VILLA PARK DRIVE	PROJECT:	NKWP / CONFIRMATORY SAMPLING
CITY:	WAYNESBORO, GA 30830	CITY:	RICHMOND, VIRGINIA 23228	LOCATION:	PROVIDENCE FORGE, VIRGINIA
PHONE:	804-833-4286	PHONE:	804-264-2228	LABORATORY:	ENCO Labs, 102-A Woodwinds Industrial Court, Cary NC, 27511 (919) 467-2090
TURN AROUND:	1 2 3 5 10 DAYS	P.O. #:	R154348-12	ANALYSES REQUESTED Attn: Chuck Smith	

LAB USE ONLY					
SAMPLE INFORMATION					
SAMPLE ID	DATE	TIME	COMPOSITE	Grab	NO. OF JARS
MATRIX					
EAG-SW19-12	12/21/17	1024		✓	1
EAG-SW19-24		1022		✓	1
EAG-SW20-12		1118		✓	1
EAG-SW20-24		1116		✓	1
EAG-SW21-12		1122		✓	1
EAG-SW21-24		1120		✓	1
EAG-SW22-12		1129		✓	1
EAG-SW22-24		1127		✓	1
EAG-SW23-12		1135		✓	1
EAG-SW23-24		1133		✓	1
SAMPLED BY: Kendall Dunham					
RECEIVED BY: Felix					
DATE: 12/22/17 TIME: 1545					
Level 2 data package. Please report all concentrations in mg/kg (dry weight). All dry weight analyses shall be total analysis.					