



1001 Boulders Parkway
Suite 300
Richmond, VA 23225

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www.timmons.com

September 2, 2016

Mr. Daniel Rifenburg
City of Richmond
Department of Public Utilities
P.O. Box 27545
Richmond, Virginia 23261

**RE: Sampling Summation
East Main Street Parcels
Fulton Gas Works
City of Richmond, Virginia**

Dear Mr. Rifenburg,

Timmons Group would like to present the details of environmental sampling that was completed on three (3) parcels located along East Main Street at Peebles Street in the City of Richmond, Virginia (hereafter the "Subject Property" or "Site"). Sampling was completed in general accordance with ASTM Standard E 1903-11 (Standard Practice for Environmental Site Assessments [ESA]: Phase II Environmental Site Assessment Process) based on the identification of recognized environmental conditions (RECs) in the Phase I ESA published on June 13, 2016. RECs are defined by ASTM Standards as *"the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property due to release to the environment; under conditions indicative of a release to the environment or under conditions that pose a material threat of future release."* Based on the identified RECs in the Phase I ESA, the proposed scope of environmental sampling activity included the collection of soil samples for laboratory analysis of probable contaminants based on the presence of an active railroad trestle transecting the Site.

Previously stated, the Subject Property encompasses three (3) parcels which are located at 3100, 3110, and 3200 East Main Street and comprise approximately 2.396 acres. The Site is currently vacant and mostly forested with a CSX railroad trestle transecting the middle of the three (3) parcels (Attachment 1). The adjoining properties include: a CSX railroad trestle, Newton's Bus Service, and Norfolk Southern railroad line to the north; a CSX railroad trestle and the vacant Fulton Gas Works to the east; East Main Street to the south; and East Main Street and Dock Street to the west with the James River beyond.

Investigative Methods

Environmental sampling included the collection of twelve (12) soil samples collected at random locations across the Subject Property (Attachment 1). Sampling was accomplished in accordance with ASTM and industry standards and facilitated using a stainless steel hand auger. Soil samples were collected at depths between one (1) to three (3) feet below surface grade.

Soil sampling was likewise conducted in accordance with ASTM and industry standards with analysis being completed by an accredited laboratory using approved U.S. Environmental Protection Agency (EPA) Methods. Based on the history of the site and the surrounding area, soil samples were analyzed for adsorbed phase concentrations of Primary Pollutant List (PPL) Metals.

Analytical Results

Following receipt of the laboratory report, the analytical results were compared to the EPA Mid-Atlantic Residential Soil and Industrial Soil Regional Screening Levels (RSLs) and the Virginia Department of Environmental Quality (DEQ) Voluntary Remediation Program (VRP) Tier II (Residential) and Tier III (Commercial/Industrial) Screening Concentrations to evaluate the potential presence of subsurface impact.

The collected soil samples (SS) produced three (3) concentrations of Arsenic in SS-3, SS-4, and SS-9; SS-3 and SS-9 were measured above the EPA Mid-Atlantic Residential Soil RSL for Arsenic while SS-4 was measured above the EPA Mid-Atlantic Industrial Soil RSL and DEQ VRP Tier II screening concentration for Arsenic. Furthermore, all twelve (12) samples produced a concentration of Chromium above the DEQ VRP Tier II screening concentration.

Attachment 2 contains the Air Water and Soil Laboratories analytical report while the tabulated cumulative data is included as Attachment 3.

Conclusions

Given the analytical results of this sampling exercise, potential risks to human health and the environment are present within the subsurface of the Subject Property. While no future plan for the Site currently exists, soil remediation will potentially be necessary prior to redevelopment or construction activities. If plans for development eventually develop, this summation should be used for reference.

Please contact me at chase.farnsworth@timmons.com or 804.200.6450 if you have any questions or comments about the procedures or data presented in association with this sampling summation.

Sincerely,

TIMMONS GROUP

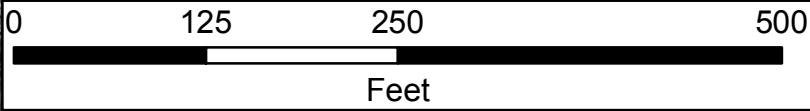


Chase Farnsworth IV
Environmental Scientist I

Attachments:

1. Site Maps
2. Air Water and Soil Laboratories Report from June 10, 2016
3. Cumulative Data Table

ATTACHMENT 1
Site Maps



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, ICP, swisstopo, and the GIS User Community

EAST MAIN ST PARCELS - SAMPLING MAP
CITY OF RICHMOND, VIRGINIA
VICINITY MAP



TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.

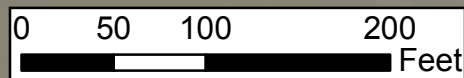
TIMMONS GROUP JOB NUMBER: 34323.022
PROJECT STUDY LIMITS: 2.396 ACRES
LATITUDE: 37° 31' 24.79" N
LONGITUDE: 77° 25' 02.49" W

U.S.G.S. QUADRANGLE(S): RICHMOND
DATE(S): 1994
WATERSHED(S): LOWER JAMES
HYDROLOGIC UNIT CODE(S): 02080206



Legend

-  Richmond Properties - 10.3 Acres
-  City of Richmond Tax Parcels



TIMMONS GROUP

FULTON GAS WORKS
CITY OF RICHMOND, VIRGINIA

PROPERTY MAP

YOUR VISION ACHIEVED THROUGH OURS

THIS DRAWING PREPARED AT THE
CORPORATE OFFICE
1001 Boulders Parkway, Suite 300 | Richmond, VA 23225
TEL 804.200.6500 FAX 804.560.7648 www.timmons.com

DATE	REVISION DESCRIPTION
02/29/2016	

DATE	REVISION DESCRIPTION

DRAWN BY
B. NORRIS

DESIGNED BY
B. NORRIS

CHECKED BY
H. RUSSELL

SCALE
1" = 100'

JOB NUMBER
36156.06

SHEET NO.
1 OF 1

These plans and associated documents are the exclusive property of TIMMONS GROUP and may not be reproduced in whole or in part and shall not be used for any purpose whatsoever, inclusive, but not limited to construction, bidding, and/or construction staking without the express written consent of TIMMONS GROUP.

ATTACHMENT 2
Air Water and Soil Laboratories Report
from June 10, 2016



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

Certificate of Analysis

Final Report

Laboratory Order ID 16F0089

Client Name:	Timmons Group	Date Received:	June 3, 2016 9:22
	1001 Boulders Parkway, Suite 300	Date Issued:	June 10, 2016 13:23
	Richmond, VA 23225	Project Number:	[none]
Submitted To:	Chase Farnsworth	Purchase Order:	
Client Site I.D.:	E Main St. Parcels		

Enclosed are the results of analyses for samples received by the laboratory on 06/03/2016 09:22. 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.

This report shall not be reproduced except in full without the expressed and written approval of an authorized representative of Air Water & Soil Laboratories, Inc.





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Certificate of Analysis

Final Report

Client Name: Timmons Group
1001 Boulders Parkway, Suite 300
Richmond VA, 23225

Date Issued: 6/10/2016 13:23

Submitted To: Chase Farnsworth
Client Site I.D.: E Main St. Parcels

Project Number: [none]

Purchase Order:

ANALYTICAL REPORT FOR SAMPLES

Laboratory Order ID 16F0089

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-1	16F0089-01	Soil	06/02/2016 10:00	06/03/2016 09:22
SS-2	16F0089-02	Soil	06/02/2016 10:05	06/03/2016 09:22
SS-3	16F0089-03	Soil	06/02/2016 10:15	06/03/2016 09:22
SS-4	16F0089-04	Soil	06/02/2016 10:30	06/03/2016 09:22
SS-5	16F0089-05	Soil	06/02/2016 10:45	06/03/2016 09:22
SS-6	16F0089-06	Soil	06/02/2016 11:00	06/03/2016 09:22
SS-7	16F0089-07	Soil	06/02/2016 11:15	06/03/2016 09:22
SS-8	16F0089-08	Soil	06/02/2016 11:40	06/03/2016 09:22
SS-9	16F0089-09	Soil	06/02/2016 11:55	06/03/2016 09:22
SS-10	16F0089-10	Soil	06/02/2016 12:10	06/03/2016 09:22
SS-11	16F0089-11	Soil	06/02/2016 12:25	06/03/2016 09:22
SS-12	16F0089-12	Soil	06/02/2016 12:40	06/03/2016 09:22



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Date Issued: 6/10/2016 13:23

Submitted To: Chase Farnsworth
 Client Site I.D.: E Main St. Parcels

Project Number: [none]

Purchase Order:

Laboratory Order ID: 16F0089

Analytical Results

Sample I.D. SS-1

Laboratory Sample ID: 16F0089-01

Date/Time Sampled: 06/02/2016 10:00

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									
Silver	01	SW6010C	<0.500 mg/kg		0.500	1	06/06/16 11:10	06/06/16 15:10	CWO
Arsenic	01RE1	SW6010C	<1.99 mg/kg		1.99	2	06/06/16 11:10	06/07/16 12:36	CWO
Beryllium	01	SW6010C	<0.200 mg/kg		0.200	1	06/06/16 11:10	06/06/16 15:10	CWO
Cadmium	01	SW6010C	2.45 mg/kg		0.200	1	06/06/16 11:10	06/06/16 15:10	CWO
Chromium	01	SW6010C	15.6 mg/kg		0.500	1	06/06/16 11:10	06/06/16 15:10	CWO
Copper	01	SW6010C	24.1 mg/kg		2.50	1	06/06/16 11:10	06/06/16 15:10	CWO
Mercury	01RE1	SW7471B	0.617 mg/kg		0.075	10	06/07/16 09:00	06/07/16 12:56	MWL
Nickel	01	SW6010C	13.8 mg/kg		0.500	1	06/06/16 11:10	06/06/16 15:10	CWO
Lead	01	SW6010C	58.6 mg/kg		0.500	1	06/06/16 11:10	06/06/16 15:10	CWO
Antimony	01	SW6010C	<5.00 mg/kg		5.00	1	06/06/16 11:10	06/06/16 15:10	CWO
Selenium	01	SW6010C	<2.50 mg/kg		2.50	1	06/06/16 11:10	06/06/16 15:10	CWO
Thallium	01	SW6010C	<2.50 mg/kg		2.50	1	06/06/16 11:10	06/06/16 15:10	CWO
Zinc	01	SW6010C	78.9 mg/kg		0.500	1	06/06/16 11:10	06/06/16 15:10	CWO



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Certificate of Analysis

Final Report

Client Name: Timmons Group
 1001 Boulders Parkway, Suite 300
 Richmond VA, 23225

Date Issued: 6/10/2016 13:23

Submitted To: Chase Farnsworth
 Client Site I.D.: E Main St. Parcels

Project Number: [none]

Purchase Order:

Laboratory Order ID: 16F0089

Analytical Results

Sample I.D. SS-2

Laboratory Sample ID: 16F0089-02

Date/Time Sampled: 06/02/2016 10:05

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									
Silver	02	SW6010C	<0.500 mg/kg		0.500	1	06/06/16 11:10	06/06/16 15:16	CWO
Arsenic	02RE1	SW6010C	<1.98 mg/kg		1.98	2	06/06/16 11:10	06/07/16 12:41	CWO
Beryllium	02	SW6010C	<0.200 mg/kg		0.200	1	06/06/16 11:10	06/06/16 15:16	CWO
Cadmium	02	SW6010C	2.56 mg/kg		0.200	1	06/06/16 11:10	06/06/16 15:16	CWO
Chromium	02	SW6010C	15.2 mg/kg		0.500	1	06/06/16 11:10	06/06/16 15:16	CWO
Copper	02	SW6010C	32.2 mg/kg		2.50	1	06/06/16 11:10	06/06/16 15:16	CWO
Mercury	02	SW7471B	0.189 mg/kg		0.008	1	06/07/16 09:00	06/07/16 12:03	MWL
Nickel	02	SW6010C	14.3 mg/kg		0.500	1	06/06/16 11:10	06/06/16 15:16	CWO
Lead	02	SW6010C	77.4 mg/kg		0.500	1	06/06/16 11:10	06/06/16 15:16	CWO
Antimony	02	SW6010C	<5.00 mg/kg		5.00	1	06/06/16 11:10	06/06/16 15:16	CWO
Selenium	02	SW6010C	<2.50 mg/kg		2.50	1	06/06/16 11:10	06/06/16 15:16	CWO
Thallium	02	SW6010C	<2.50 mg/kg		2.50	1	06/06/16 11:10	06/06/16 15:16	CWO
Zinc	02	SW6010C	98.6 mg/kg		0.500	1	06/06/16 11:10	06/06/16 15:16	CWO



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Date Issued: 6/10/2016 13:23

Submitted To: Chase Farnsworth
 Client Site I.D.: E Main St. Parcels

Project Number: [none]

Purchase Order:

Laboratory Order ID: 16F0089

Analytical Results

Sample I.D. SS-3

Laboratory Sample ID: 16F0089-03

Date/Time Sampled: 06/02/2016 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									
Silver	03	SW6010C	<0.500 mg/kg		0.500	1	06/06/16 11:10	06/06/16 15:27	CWO
Arsenic	03	SW6010C	2.35 mg/kg		1.00	1	06/06/16 11:10	06/06/16 15:27	CWO
Beryllium	03	SW6010C	<0.200 mg/kg		0.200	1	06/06/16 11:10	06/06/16 15:27	CWO
Cadmium	03	SW6010C	2.51 mg/kg		0.200	1	06/06/16 11:10	06/06/16 15:27	CWO
Chromium	03	SW6010C	12.7 mg/kg		0.500	1	06/06/16 11:10	06/06/16 15:27	CWO
Copper	03	SW6010C	47.4 mg/kg		2.50	1	06/06/16 11:10	06/06/16 15:27	CWO
Mercury	03	SW7471B	0.180 mg/kg		0.008	1	06/07/16 09:00	06/07/16 12:06	MWL
Nickel	03	SW6010C	5.57 mg/kg		0.500	1	06/06/16 11:10	06/06/16 15:27	CWO
Lead	03	SW6010C	112 mg/kg		0.500	1	06/06/16 11:10	06/06/16 15:27	CWO
Antimony	03	SW6010C	<5.00 mg/kg		5.00	1	06/06/16 11:10	06/06/16 15:27	CWO
Selenium	03	SW6010C	<2.50 mg/kg		2.50	1	06/06/16 11:10	06/06/16 15:27	CWO
Thallium	03	SW6010C	<2.50 mg/kg		2.50	1	06/06/16 11:10	06/06/16 15:27	CWO
Zinc	03	SW6010C	105 mg/kg		0.500	1	06/06/16 11:10	06/06/16 15:27	CWO



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Final Report

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 Richmond VA, 23225

Date Issued: 6/10/2016 13:23

Submitted To: Chase Farnsworth
 Client Site I.D.: E Main St. Parcels

Project Number: [none]

Purchase Order:

Laboratory Order ID: 16F0089

Analytical Results

Sample I.D. SS-4

Laboratory Sample ID: 16F0089-04

Date/Time Sampled: 06/02/2016 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									
Silver	04	SW6010C	<0.500 mg/kg		0.500	1	06/06/16 11:10	06/06/16 15:42	CWO
Arsenic	04	SW6010C	7.52 mg/kg		1.00	1	06/06/16 11:10	06/06/16 15:42	CWO
Beryllium	04	SW6010C	<0.200 mg/kg		0.200	1	06/06/16 11:10	06/06/16 15:42	CWO
Cadmium	04	SW6010C	2.68 mg/kg		0.200	1	06/06/16 11:10	06/06/16 15:42	CWO
Chromium	04	SW6010C	9.91 mg/kg		0.500	1	06/06/16 11:10	06/06/16 15:42	CWO
Copper	04	SW6010C	40.2 mg/kg		2.50	1	06/06/16 11:10	06/06/16 15:42	CWO
Mercury	04	SW7471B	0.152 mg/kg		0.008	1	06/07/16 09:00	06/07/16 12:08	MWL
Nickel	04	SW6010C	6.32 mg/kg		0.500	1	06/06/16 11:10	06/06/16 15:42	CWO
Lead	04	SW6010C	87.7 mg/kg		0.500	1	06/06/16 11:10	06/06/16 15:42	CWO
Antimony	04	SW6010C	<5.00 mg/kg		5.00	1	06/06/16 11:10	06/06/16 15:42	CWO
Selenium	04	SW6010C	<2.50 mg/kg		2.50	1	06/06/16 11:10	06/06/16 15:42	CWO
Thallium	04	SW6010C	<2.50 mg/kg		2.50	1	06/06/16 11:10	06/06/16 15:42	CWO
Zinc	04	SW6010C	28.5 mg/kg		0.500	1	06/06/16 11:10	06/06/16 15:42	CWO



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Final Report

Client Name: Timmons Group 1001 Boulders Parkway, Suite 300 Richmond VA, 23225	Date Issued: 6/10/2016 13:23
Submitted To: Chase Farnsworth	Project Number: [none]
Client Site I.D.: E Main St. Parcels	Purchase Order:

Laboratory Order ID: 16F0089

Analytical Results

Sample I.D. SS-5	Laboratory Sample ID: 16F0089-05
Date/Time Sampled: 06/02/2016 10:45	

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									
Silver	05	SW6010C	<0.500 mg/kg		0.500	1	06/06/16 11:10	06/06/16 15:48	CWO
Arsenic	05RE1	SW6010C	<1.86 mg/kg		1.86	2	06/06/16 11:10	06/07/16 12:57	CWO
Beryllium	05	SW6010C	<0.200 mg/kg		0.200	1	06/06/16 11:10	06/06/16 15:47	CWO
Cadmium	05	SW6010C	2.21 mg/kg		0.200	1	06/06/16 11:10	06/06/16 15:48	CWO
Chromium	05	SW6010C	14.1 mg/kg		0.500	1	06/06/16 11:10	06/06/16 15:48	CWO
Copper	05	SW6010C	27.0 mg/kg		2.50	1	06/06/16 11:10	06/06/16 15:48	CWO
Mercury	05	SW7471B	0.102 mg/kg		0.008	1	06/07/16 09:00	06/07/16 12:11	MWL
Nickel	05	SW6010C	4.79 mg/kg		0.500	1	06/06/16 11:10	06/06/16 15:48	CWO
Lead	05	SW6010C	45.2 mg/kg		0.500	1	06/06/16 11:10	06/06/16 15:48	CWO
Antimony	05	SW6010C	<5.00 mg/kg		5.00	1	06/06/16 11:10	06/06/16 15:48	CWO
Selenium	05	SW6010C	<2.50 mg/kg		2.50	1	06/06/16 11:10	06/06/16 15:48	CWO
Thallium	05	SW6010C	<2.50 mg/kg		2.50	1	06/06/16 11:10	06/06/16 15:48	CWO
Zinc	05	SW6010C	36.0 mg/kg		0.500	1	06/06/16 11:10	06/06/16 15:48	CWO



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Certificate of Analysis

Final Report

Client Name: Timmons Group
 1001 Boulders Parkway, Suite 300
 Richmond VA, 23225

Date Issued: 6/10/2016 13:23

Submitted To: Chase Farnsworth
 Client Site I.D.: E Main St. Parcels

Project Number: [none]

Purchase Order:

Laboratory Order ID: 16F0089

Analytical Results

Sample I.D. SS-6

Laboratory Sample ID: 16F0089-06

Date/Time Sampled: 06/02/2016 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									
Silver	06	SW6010C	<0.500 mg/kg		0.500	1	06/06/16 11:10	06/06/16 15:53	CWO
Arsenic	06RE1	SW6010C	<1.92 mg/kg		1.92	2	06/06/16 11:10	06/07/16 13:02	CWO
Beryllium	06	SW6010C	<0.200 mg/kg		0.200	1	06/06/16 11:10	06/06/16 15:53	CWO
Cadmium	06	SW6010C	2.74 mg/kg		0.200	1	06/06/16 11:10	06/06/16 15:53	CWO
Chromium	06	SW6010C	20.1 mg/kg		0.500	1	06/06/16 11:10	06/06/16 15:53	CWO
Copper	06	SW6010C	34.2 mg/kg		2.50	1	06/06/16 11:10	06/06/16 15:53	CWO
Mercury	06RE1	SW7471B	0.211 mg/kg		0.039	5	06/07/16 09:00	06/07/16 14:24	MWL
Nickel	06	SW6010C	11.0 mg/kg		0.500	1	06/06/16 11:10	06/06/16 15:53	CWO
Lead	06	SW6010C	112 mg/kg		0.500	1	06/06/16 11:10	06/06/16 15:53	CWO
Antimony	06	SW6010C	<5.00 mg/kg		5.00	1	06/06/16 11:10	06/06/16 15:53	CWO
Selenium	06	SW6010C	<2.50 mg/kg		2.50	1	06/06/16 11:10	06/06/16 15:53	CWO
Thallium	06	SW6010C	<2.50 mg/kg		2.50	1	06/06/16 11:10	06/06/16 15:53	CWO
Zinc	06	SW6010C	93.3 mg/kg		0.500	1	06/06/16 11:10	06/06/16 15:53	CWO



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Client Name: Timmons Group
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Date Issued: 6/10/2016 13:23

Submitted To: Chase Farnsworth
 Client Site I.D.: E Main St. Parcels

Project Number: [none]

Purchase Order:

Laboratory Order ID: 16F0089

Analytical Results

Sample I.D. SS-7

Laboratory Sample ID: 16F0089-07

Date/Time Sampled: 06/02/2016 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									
Silver	07	SW6010C	<0.500 mg/kg		0.500	1	06/06/16 11:10	06/06/16 15:59	CWO
Arsenic	07RE1	SW6010C	<1.87 mg/kg		1.87	2	06/06/16 11:10	06/07/16 13:08	CWO
Beryllium	07	SW6010C	<0.200 mg/kg		0.200	1	06/06/16 11:10	06/06/16 15:59	CWO
Cadmium	07	SW6010C	1.99 mg/kg		0.200	1	06/06/16 11:10	06/06/16 15:59	CWO
Chromium	07	SW6010C	13.5 mg/kg		0.500	1	06/06/16 11:10	06/06/16 15:59	CWO
Copper	07	SW6010C	28.4 mg/kg		2.50	1	06/06/16 11:10	06/06/16 15:59	CWO
Mercury	07RE1	SW7471B	0.315 mg/kg		0.038	5	06/07/16 09:00	06/07/16 13:57	MWL
Nickel	07	SW6010C	9.04 mg/kg		0.500	1	06/06/16 11:10	06/06/16 15:59	CWO
Lead	07	SW6010C	90.4 mg/kg		0.500	1	06/06/16 11:10	06/06/16 15:59	CWO
Antimony	07	SW6010C	<5.00 mg/kg		5.00	1	06/06/16 11:10	06/06/16 15:59	CWO
Selenium	07	SW6010C	<2.50 mg/kg		2.50	1	06/06/16 11:10	06/06/16 15:59	CWO
Thallium	07	SW6010C	<2.50 mg/kg		2.50	1	06/06/16 11:10	06/06/16 15:59	CWO
Zinc	07	SW6010C	84.9 mg/kg		0.500	1	06/06/16 11:10	06/06/16 15:59	CWO



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Certificate of Analysis

Final Report

Client Name: Timmons Group
 1001 Boulders Parkway, Suite 300
 Richmond VA, 23225

Date Issued: 6/10/2016 13:23

Submitted To: Chase Farnsworth
 Client Site I.D.: E Main St. Parcels

Project Number: [none]

Purchase Order:

Laboratory Order ID: 16F0089

Analytical Results

Sample I.D. SS-8

Laboratory Sample ID: 16F0089-08

Date/Time Sampled: 06/02/2016 11:40

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									
Silver	08	SW6010C	<0.500 mg/kg		0.500	1	06/06/16 11:10	06/06/16 16:05	CWO
Arsenic	08RE1	SW6010C	<1.93 mg/kg		1.93	2	06/06/16 11:10	06/07/16 13:13	CWO
Beryllium	08	SW6010C	<0.200 mg/kg		0.200	1	06/06/16 11:10	06/06/16 16:04	CWO
Cadmium	08	SW6010C	2.11 mg/kg		0.200	1	06/06/16 11:10	06/06/16 16:05	CWO
Chromium	08	SW6010C	16.6 mg/kg		0.500	1	06/06/16 11:10	06/06/16 16:05	CWO
Copper	08	SW6010C	40.4 mg/kg		2.50	1	06/06/16 11:10	06/06/16 16:05	CWO
Mercury	08RE1	SW7471B	0.256 mg/kg		0.035	5	06/07/16 09:00	06/07/16 13:59	MWL
Nickel	08	SW6010C	9.21 mg/kg		0.500	1	06/06/16 11:10	06/06/16 16:05	CWO
Lead	08	SW6010C	78.9 mg/kg		0.500	1	06/06/16 11:10	06/06/16 16:05	CWO
Antimony	08	SW6010C	<5.00 mg/kg		5.00	1	06/06/16 11:10	06/06/16 16:05	CWO
Selenium	08	SW6010C	<2.50 mg/kg		2.50	1	06/06/16 11:10	06/06/16 16:05	CWO
Thallium	08	SW6010C	<2.50 mg/kg		2.50	1	06/06/16 11:10	06/06/16 16:05	CWO
Zinc	08	SW6010C	92.6 mg/kg		0.500	1	06/06/16 11:10	06/06/16 16:05	CWO



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Date Issued: 6/10/2016 13:23

Submitted To: Chase Farnsworth
 Client Site I.D.: E Main St. Parcels

Project Number: [none]
 Purchase Order:

Laboratory Order ID: 16F0089

Analytical Results

Sample I.D. SS-9

Laboratory Sample ID: 16F0089-09

Date/Time Sampled: 06/02/2016 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									
Silver	09	SW6010C	<0.500 mg/kg		0.500	1	06/06/16 11:10	06/06/16 16:10	CWO
Arsenic	09	SW6010C	2.05 mg/kg		1.00	1	06/06/16 11:10	06/06/16 16:11	CWO
Beryllium	09	SW6010C	<0.200 mg/kg		0.200	1	06/06/16 11:10	06/06/16 16:10	CWO
Cadmium	09	SW6010C	2.39 mg/kg		0.200	1	06/06/16 11:10	06/06/16 16:11	CWO
Chromium	09	SW6010C	11.4 mg/kg		0.500	1	06/06/16 11:10	06/06/16 16:11	CWO
Copper	09	SW6010C	51.3 mg/kg		2.50	1	06/06/16 11:10	06/06/16 16:10	CWO
Mercury	09RE1	SW7471B	0.720 mg/kg		0.072	10	06/07/16 09:00	06/07/16 14:01	MWL
Nickel	09	SW6010C	4.79 mg/kg		0.500	1	06/06/16 11:10	06/06/16 16:11	CWO
Lead	09	SW6010C	122 mg/kg		0.500	1	06/06/16 11:10	06/06/16 16:11	CWO
Antimony	09	SW6010C	<5.00 mg/kg		5.00	1	06/06/16 11:10	06/06/16 16:11	CWO
Selenium	09	SW6010C	<2.50 mg/kg		2.50	1	06/06/16 11:10	06/06/16 16:11	CWO
Thallium	09	SW6010C	<2.50 mg/kg		2.50	1	06/06/16 11:10	06/06/16 16:11	CWO
Zinc	09	SW6010C	69.8 mg/kg		0.500	1	06/06/16 11:10	06/06/16 16:10	CWO



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Date Issued: 6/10/2016 13:23

Submitted To: Chase Farnsworth
 Client Site I.D.: E Main St. Parcels

Project Number: [none]
 Purchase Order:

Laboratory Order ID: 16F0089

Analytical Results

Sample I.D. SS-10

Laboratory Sample ID: 16F0089-10

Date/Time Sampled: 06/02/2016 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									
Silver	10	SW6010C	<0.500 mg/kg		0.500	1	06/06/16 11:10	06/06/16 16:16	CWO
Arsenic	10RE1	SW6010C	<1.96 mg/kg		1.96	2	06/06/16 11:10	06/07/16 13:26	CWO
Beryllium	10	SW6010C	<0.200 mg/kg		0.200	1	06/06/16 11:10	06/06/16 16:16	CWO
Cadmium	10	SW6010C	2.21 mg/kg		0.200	1	06/06/16 11:10	06/06/16 16:16	CWO
Chromium	10	SW6010C	14.7 mg/kg		0.500	1	06/06/16 11:10	06/06/16 16:16	CWO
Copper	10	SW6010C	39.1 mg/kg		2.50	1	06/06/16 11:10	06/06/16 16:16	CWO
Mercury	10	SW7471B	0.116 mg/kg		0.008	1	06/07/16 09:00	06/07/16 12:30	MWL
Nickel	10	SW6010C	8.85 mg/kg		0.500	1	06/06/16 11:10	06/06/16 16:16	CWO
Lead	10	SW6010C	69.2 mg/kg		0.500	1	06/06/16 11:10	06/06/16 16:16	CWO
Antimony	10	SW6010C	<5.00 mg/kg		5.00	1	06/06/16 11:10	06/06/16 16:16	CWO
Selenium	10	SW6010C	<2.50 mg/kg		2.50	1	06/06/16 11:10	06/06/16 16:16	CWO
Thallium	10	SW6010C	<2.50 mg/kg		2.50	1	06/06/16 11:10	06/06/16 16:16	CWO
Zinc	10	SW6010C	76.7 mg/kg		0.500	1	06/06/16 11:10	06/06/16 16:16	CWO



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Date Issued: 6/10/2016 13:23

Submitted To: Chase Farnsworth
 Client Site I.D.: E Main St. Parcels

Project Number: [none]

Purchase Order:

Laboratory Order ID: 16F0089

Analytical Results

Sample I.D. SS-11

Laboratory Sample ID: 16F0089-11

Date/Time Sampled: 06/02/2016 12:25

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									
Silver	11	SW6010C	<0.500 mg/kg		0.500	1	06/06/16 11:10	06/06/16 16:33	CWO
Arsenic	11RE1	SW6010C	<1.99 mg/kg		1.99	2	06/06/16 11:10	06/07/16 13:41	CWO
Beryllium	11	SW6010C	<0.200 mg/kg		0.200	1	06/06/16 11:10	06/06/16 16:33	CWO
Cadmium	11	SW6010C	1.85 mg/kg		0.200	1	06/06/16 11:10	06/06/16 16:34	CWO
Chromium	11	SW6010C	14.2 mg/kg		0.500	1	06/06/16 11:10	06/06/16 16:34	CWO
Copper	11	SW6010C	17.8 mg/kg		2.50	1	06/06/16 11:10	06/06/16 16:33	CWO
Mercury	11	SW7471B	0.127 mg/kg		0.008	1	06/07/16 09:00	06/07/16 12:32	MWL
Nickel	11	SW6010C	6.94 mg/kg		0.500	1	06/06/16 11:10	06/06/16 16:34	CWO
Lead	11	SW6010C	54.5 mg/kg		0.500	1	06/06/16 11:10	06/06/16 16:34	CWO
Antimony	11	SW6010C	<5.00 mg/kg		5.00	1	06/06/16 11:10	06/06/16 16:34	CWO
Selenium	11	SW6010C	<2.50 mg/kg		2.50	1	06/06/16 11:10	06/06/16 16:34	CWO
Thallium	11	SW6010C	<2.50 mg/kg		2.50	1	06/06/16 11:10	06/06/16 16:34	CWO
Zinc	11	SW6010C	68.0 mg/kg		0.500	1	06/06/16 11:10	06/06/16 16:33	CWO



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Client Name: Timmons Group 1001 Boulders Parkway, Suite 300 Richmond VA, 23225	Date Issued: 6/10/2016 13:23
Submitted To: Chase Farnsworth	Project Number: [none]
Client Site I.D.: E Main St. Parcels	Purchase Order:

Laboratory Order ID: 16F0089

Analytical Results

Sample I.D. SS-12	Laboratory Sample ID: 16F0089-12
Date/Time Sampled: 06/02/2016 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									
Silver	12	SW6010C	<0.500 mg/kg		0.500	1	06/06/16 11:10	06/06/16 16:48	CWO
Arsenic	12RE1	SW6010C	<1.83 mg/kg		1.83	2	06/06/16 11:10	06/07/16 13:46	CWO
Beryllium	12	SW6010C	<0.200 mg/kg		0.200	1	06/06/16 11:10	06/06/16 16:48	CWO
Cadmium	12	SW6010C	1.55 mg/kg		0.200	1	06/06/16 11:10	06/06/16 16:49	CWO
Chromium	12	SW6010C	11.7 mg/kg		0.500	1	06/06/16 11:10	06/06/16 16:49	CWO
Copper	12	SW6010C	16.4 mg/kg		2.50	1	06/06/16 11:10	06/06/16 16:48	CWO
Mercury	12	SW7471B	0.156 mg/kg		0.008	1	06/07/16 09:00	06/07/16 12:35	MWL
Nickel	12	SW6010C	5.63 mg/kg		0.500	1	06/06/16 11:10	06/06/16 16:49	CWO
Lead	12	SW6010C	62.5 mg/kg		0.500	1	06/06/16 11:10	06/06/16 16:49	CWO
Antimony	12	SW6010C	<5.00 mg/kg		5.00	1	06/06/16 11:10	06/06/16 16:49	CWO
Selenium	12	SW6010C	<2.50 mg/kg		2.50	1	06/06/16 11:10	06/06/16 16:49	CWO
Thallium	12	SW6010C	<2.50 mg/kg		2.50	1	06/06/16 11:10	06/06/16 16:49	CWO
Zinc	12	SW6010C	52.4 mg/kg		0.500	1	06/06/16 11:10	06/06/16 16:48	CWO



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Final Report

Client Name: Timmons Group
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 Richmond VA, 23225

Date Issued: 6/10/2016 13:23

Submitted To: Chase Farnsworth
 Client Site I.D.: E Main St. Parcels

Project Number: [none]
 Purchase Order:

Analytical Summary

Preparation Method:

Preparation Method:

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 6000/7000 Series Methods		Preparation Method: SW3050B			
16F0089-01	1.00 g / 50.0 mL	SW6010C	BZF0109	SZF0139	AF60017
16F0089-01RE1	1.00 g / 50.0 mL	SW6010C	BZF0109	SZF0162	AF60024
16F0089-02	1.01 g / 50.0 mL	SW6010C	BZF0109	SZF0139	AF60017
16F0089-02RE1	1.01 g / 50.0 mL	SW6010C	BZF0109	SZF0162	AF60024
16F0089-03	1.06 g / 50.0 mL	SW6010C	BZF0109	SZF0139	AF60017
16F0089-04	1.02 g / 50.0 mL	SW6010C	BZF0109	SZF0139	AF60017
16F0089-05	1.08 g / 50.0 mL	SW6010C	BZF0109	SZF0139	AF60017
16F0089-05RE1	1.08 g / 50.0 mL	SW6010C	BZF0109	SZF0162	AF60024
16F0089-06	1.04 g / 50.0 mL	SW6010C	BZF0109	SZF0139	AF60017
16F0089-06RE1	1.04 g / 50.0 mL	SW6010C	BZF0109	SZF0162	AF60024
16F0089-07	1.07 g / 50.0 mL	SW6010C	BZF0109	SZF0139	AF60017
16F0089-07RE1	1.07 g / 50.0 mL	SW6010C	BZF0109	SZF0162	AF60024
16F0089-08	1.03 g / 50.0 mL	SW6010C	BZF0109	SZF0139	AF60017
16F0089-08RE1	1.03 g / 50.0 mL	SW6010C	BZF0109	SZF0162	AF60024
16F0089-09	1.08 g / 50.0 mL	SW6010C	BZF0109	SZF0139	AF60017
16F0089-10	1.02 g / 50.0 mL	SW6010C	BZF0109	SZF0139	AF60017
16F0089-10RE1	1.02 g / 50.0 mL	SW6010C	BZF0109	SZF0162	AF60024
16F0089-11	1.00 g / 50.0 mL	SW6010C	BZF0109	SZF0139	AF60017
16F0089-11RE1	1.00 g / 50.0 mL	SW6010C	BZF0109	SZF0162	AF60024
16F0089-12	1.09 g / 50.0 mL	SW6010C	BZF0109	SZF0139	AF60017
16F0089-12RE1	1.09 g / 50.0 mL	SW6010C	BZF0109	SZF0162	AF60024

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 6000/7000 Series Methods		Preparation Method: SW7471B			
16F0089-01	0.534 g / 20.0 mL	SW7471B	BZF0130	SZF0161	AF60023
16F0089-01RE1	0.534 g / 20.0 mL	SW7471B	BZF0130	SZF0161	AF60023
16F0089-02	0.514 g / 20.0 mL	SW7471B	BZF0130	SZF0161	AF60023
16F0089-03	0.542 g / 20.0 mL	SW7471B	BZF0130	SZF0161	AF60023
16F0089-04	0.523 g / 20.0 mL	SW7471B	BZF0130	SZF0161	AF60023



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Final Report

Client Name: Timmons Group
1001 Boulders Parkway, Suite 300
Richmond VA, 23225

Date Issued: 6/10/2016 13:23

Submitted To: Chase Farnsworth
Client Site I.D.: E Main St. Parcels

Project Number: [none]
Purchase Order:

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
16F0089-05	0.531 g / 20.0 mL	SW7471B	BZF0130	SZF0161	AF60023
16F0089-06	0.510 g / 20.0 mL	SW7471B	BZF0130	SZF0161	AF60023
16F0089-06RE1	0.510 g / 20.0 mL	SW7471B	BZF0130	SZF0161	AF60023
16F0089-07	0.533 g / 20.0 mL	SW7471B	BZF0130	SZF0161	AF60023
16F0089-07RE1	0.533 g / 20.0 mL	SW7471B	BZF0130	SZF0161	AF60023
16F0089-08	0.565 g / 20.0 mL	SW7471B	BZF0130	SZF0161	AF60023
16F0089-08RE1	0.565 g / 20.0 mL	SW7471B	BZF0130	SZF0161	AF60023
16F0089-09	0.554 g / 20.0 mL	SW7471B	BZF0130	SZF0161	AF60023
16F0089-09RE1	0.554 g / 20.0 mL	SW7471B	BZF0130	SZF0161	AF60023
16F0089-10	0.516 g / 20.0 mL	SW7471B	BZF0130	SZF0161	AF60023
16F0089-11	0.519 g / 20.0 mL	SW7471B	BZF0130	SZF0161	AF60023
16F0089-12	0.553 g / 20.0 mL	SW7471B	BZF0130	SZF0161	AF60023



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Certificate of Analysis

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Client Name: Timmons Group	Date Issued: 6/10/2016 13:23
1001 Boulders Parkway, Suite 300	
Richmond VA, 23225	
Submitted To: Chase Farnsworth	Project Number: [none]
Client Site I.D.: E Main St. Parcels	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 BZF0109 - SW3050B

Blank (BZF0109-BLK1)

Prepared & Analyzed: 06/06/2016

Lead	<0.500 mg/kg	0.500	mg/kg
Selenium	<2.50 mg/kg	2.50	mg/kg
Copper	<2.50 mg/kg	2.50	mg/kg
Beryllium	<0.200 mg/kg	0.200	mg/kg
Antimony	<5.00 mg/kg	5.00	mg/kg
Cadmium	<0.200 mg/kg	0.200	mg/kg
Thallium	<2.50 mg/kg	2.50	mg/kg
Arsenic	<1.00 mg/kg	1.00	mg/kg
Chromium	<0.500 mg/kg	0.500	mg/kg
Silver	<0.500 mg/kg	0.500	mg/kg
Zinc	<0.500 mg/kg	0.500	mg/kg
Nickel	<0.500 mg/kg	0.500	mg/kg

LCS (BZF0109-BS1)

Prepared & Analyzed: 06/06/2016

Copper	95.0 mg/kg	2.50	mg/kg	95.0	mg/kg	100	80-120
Selenium	82.8 mg/kg	2.50	mg/kg	95.0	mg/kg	87.2	80-120
Chromium	93.9 mg/kg	0.500	mg/kg	95.0	mg/kg	98.9	80-120
Antimony	80.1 mg/kg	5.00	mg/kg	95.0	mg/kg	84.4	80-120
Lead	91.2 mg/kg	0.500	mg/kg	95.0	mg/kg	96.1	80-120
Silver	4.06 mg/kg	0.500	mg/kg	4.75	mg/kg	85.5	80-120
Beryllium	87.4 mg/kg	0.200	mg/kg	95.0	mg/kg	92.1	80-120
Thallium	88.2 mg/kg	2.50	mg/kg	95.0	mg/kg	92.9	80-120
Cadmium	89.8 mg/kg	0.200	mg/kg	95.0	mg/kg	94.6	80-120
Arsenic	90.0 mg/kg	1.00	mg/kg	95.0	mg/kg	94.8	80-120
Nickel	92.9 mg/kg	0.500	mg/kg	95.0	mg/kg	97.9	80-120
Zinc	89.0 mg/kg	0.500	mg/kg	95.0	mg/kg	93.8	80-120

LCS Dup (BZF0109-BSD1)

Prepared & Analyzed: 06/06/2016

Arsenic	94.9 mg/kg	1.00	mg/kg	98.9	mg/kg	95.9	80-120	5.24	20
Silver	4.29 mg/kg	0.500	mg/kg	4.95	mg/kg	86.7	80-120	5.42	20
Chromium	98.7 mg/kg	0.500	mg/kg	98.9	mg/kg	99.8	80-120	4.94	20
Nickel	97.6 mg/kg	0.500	mg/kg	98.9	mg/kg	98.7	80-120	4.90	20



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Submitted To: Chase Farnsworth	Project Number: [none]
Client Site I.D.: E Main St. Parcels	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 BZF0109 - SW3050B

LCS Dup (BZF0109-BSD1)

Prepared & Analyzed: 06/06/2016

Beryllium	92.1 mg/kg	0.200	mg/kg	98.9	mg/kg	93.1	80-120	5.14	20	
Lead	95.9 mg/kg	0.500	mg/kg	98.9	mg/kg	96.9	80-120	4.97	20	
Copper	99.9 mg/kg	2.50	mg/kg	98.9	mg/kg	101	80-120	4.99	20	
Zinc	93.7 mg/kg	0.500	mg/kg	98.9	mg/kg	94.7	80-120	5.07	20	
Cadmium	94.5 mg/kg	0.200	mg/kg	98.9	mg/kg	95.5	80-120	5.04	20	
Selenium	87.3 mg/kg	2.50	mg/kg	98.9	mg/kg	88.2	80-120	5.20	20	
Thallium	91.7 mg/kg	2.50	mg/kg	98.9	mg/kg	92.7	80-120	3.89	20	
Antimony	83.8 mg/kg	5.00	mg/kg	98.9	mg/kg	84.7	80-120	4.45	20	

Matrix Spike (BZF0109-MS1)

Source: 16F0089-02

Prepared & Analyzed: 06/06/2016

Thallium	71.0 mg/kg	2.50	mg/kg	95.7	<2.50 mg/kg	74.2	75-125			M
Zinc	182 mg/kg	0.500	mg/kg	95.7	98.6 mg/kg	87.4	75-125			
Selenium	65.6 mg/kg	2.50	mg/kg	95.7	<2.50 mg/kg	68.5	75-125			M
Silver	2.97 mg/kg	0.500	mg/kg	4.78	<0.500 mg/kg	62.1	75-125			M
Beryllium	70.5 mg/kg	0.200	mg/kg	95.7	<0.200 mg/kg	73.7	75-125			M
Lead	160 mg/kg	0.500	mg/kg	95.7	77.4 mg/kg	86.2	75-125			
Chromium	96.7 mg/kg	0.500	mg/kg	95.7	15.2 mg/kg	85.2	75-125			
Nickel	94.4 mg/kg	0.500	mg/kg	95.7	14.3 mg/kg	83.7	75-125			
Copper	122 mg/kg	2.50	mg/kg	95.7	32.2 mg/kg	94.1	75-125			
Cadmium	79.7 mg/kg	0.200	mg/kg	95.7	2.56 mg/kg	80.6	75-125			
Antimony	24.9 mg/kg	5.00	mg/kg	95.7	<5.00 mg/kg	26.0	75-125			M

Matrix Spike (BZF0109-MS2)

Source: 16F0089-10

Prepared & Analyzed: 06/06/2016

Lead	135 mg/kg	0.500	mg/kg	97.6	69.2 mg/kg	67.0	75-125			M
Zinc	149 mg/kg	0.500	mg/kg	97.6	76.7 mg/kg	74.1	75-125			M
Silver	3.12 mg/kg	0.500	mg/kg	4.88	<0.500 mg/kg	64.0	75-125			M
Beryllium	69.7 mg/kg	0.200	mg/kg	97.6	<0.200 mg/kg	71.5	75-125			M
Cadmium	77.4 mg/kg	0.200	mg/kg	97.6	2.21 mg/kg	77.0	75-125			
Chromium	94.2 mg/kg	0.500	mg/kg	97.6	14.7 mg/kg	81.5	75-125			
Selenium	65.3 mg/kg	2.50	mg/kg	97.6	<2.50 mg/kg	67.0	75-125			M
Nickel	84.9 mg/kg	0.500	mg/kg	97.6	8.85 mg/kg	78.0	75-125			
Antimony	24.7 mg/kg	5.00	mg/kg	97.6	<5.00 mg/kg	25.3	75-125			M



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Certificate of Analysis

Final Report

Client Name: Timmons Group
 1001 Boulders Parkway, Suite 300
 Richmond VA, 23225

Date Issued: 6/10/2016 13:23

Submitted To: Chase Farnsworth
 Client Site I.D.: E Main St. Parcels

Project Number: [none]

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 BZF0109 - SW3050B

Matrix Spike (BZF0109-MS2) Source: 16F0089-10 Prepared & Analyzed: 06/06/2016

Thallium	72.7 mg/kg	2.50	mg/kg	97.6	<2.50 mg/kg	74.5	75-125			M
Copper	124 mg/kg	2.50	mg/kg	97.6	39.1 mg/kg	86.6	75-125			

Matrix Spike (BZF0109-MS3) Source: 16F0089-02RE1 Prepared: 06/06/2016 Analyzed: 06/07/2016

Arsenic	81.6 mg/kg	1.91	mg/kg	95.7	<1.91 mg/kg	85.3	75-125			
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Matrix Spike (BZF0109-MS4) Source: 16F0089-10RE1 Prepared: 06/06/2016 Analyzed: 06/07/2016

Arsenic	82.8 mg/kg	1.95	mg/kg	97.6	<1.95 mg/kg	84.9	75-125			
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Matrix Spike Dup (BZF0109-MSD1) Source: 16F0089-02 Prepared & Analyzed: 06/06/2016

Silver	2.49 mg/kg	0.500	mg/kg	4.56	<0.500 mg/kg	54.6	75-125	17.6	20	M
Nickel	83.7 mg/kg	0.500	mg/kg	91.2	14.3 mg/kg	76.1	75-125	12.0	20	
Antimony	21.9 mg/kg	5.00	mg/kg	91.2	<5.00 mg/kg	23.9	75-125	12.9	20	M
Cadmium	69.4 mg/kg	0.200	mg/kg	91.2	2.56 mg/kg	73.3	75-125	13.8	20	M
Copper	113 mg/kg	2.50	mg/kg	91.2	32.2 mg/kg	88.2	75-125	8.10	20	
Thallium	64.1 mg/kg	2.50	mg/kg	91.2	<2.50 mg/kg	70.3	75-125	10.2	20	M
Selenium	56.7 mg/kg	2.50	mg/kg	91.2	<2.50 mg/kg	62.1	75-125	14.6	20	M
Lead	123 mg/kg	0.500	mg/kg	91.2	77.4 mg/kg	50.4	75-125	25.8	20	M, P
Zinc	166 mg/kg	0.500	mg/kg	91.2	98.6 mg/kg	73.4	75-125	9.61	20	M
Chromium	85.8 mg/kg	0.500	mg/kg	91.2	15.2 mg/kg	77.4	75-125	11.9	20	
Beryllium	60.2 mg/kg	0.200	mg/kg	91.2	<0.200 mg/kg	66.0	75-125	15.8	20	M

Matrix Spike Dup (BZF0109-MSD2) Source: 16F0089-10 Prepared & Analyzed: 06/06/2016

Antimony	21.2 mg/kg	5.00	mg/kg	96.5	<5.00 mg/kg	22.0	75-125	15.2	20	M
Thallium	62.9 mg/kg	2.50	mg/kg	96.5	<2.50 mg/kg	65.2	75-125	14.4	20	M
Zinc	123 mg/kg	0.500	mg/kg	96.5	76.7 mg/kg	48.3	75-125	18.9	20	M
Lead	124 mg/kg	0.500	mg/kg	96.5	69.2 mg/kg	57.2	75-125	7.79	20	M
Copper	128 mg/kg	2.50	mg/kg	96.5	39.1 mg/kg	92.0	75-125	3.45	20	
Chromium	83.9 mg/kg	0.500	mg/kg	96.5	14.7 mg/kg	71.6	75-125	11.6	20	M
Cadmium	69.1 mg/kg	0.200	mg/kg	96.5	2.21 mg/kg	69.3	75-125	11.3	20	M
Nickel	75.3 mg/kg	0.500	mg/kg	96.5	8.85 mg/kg	68.8	75-125	12.1	20	M
Beryllium	62.2 mg/kg	0.200	mg/kg	96.5	<0.200 mg/kg	64.4	75-125	11.5	20	M
Silver	2.79 mg/kg	0.500	mg/kg	4.83	<0.500 mg/kg	57.8	75-125	11.3	20	M



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Certificate of Analysis

Final Report

Client Name: Timmons Group 1001 Boulders Parkway, Suite 300 Richmond VA, 23225	Date Issued: 6/10/2016 13:23
Submitted To: Chase Farnsworth	Project Number: [none]
Client Site I.D.: E Main St. Parcels	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 BZF0109 - SW3050B

Matrix Spike Dup (BZF0109-MSD2)		Source: 16F0089-10		Prepared & Analyzed: 06/06/2016						
Selenium	58.0 mg/kg	2.50	mg/kg	96.5	<2.50 mg/kg	60.1	75-125	11.8	20	M
Matrix Spike Dup (BZF0109-MSD3)		Source: 16F0089-02RE1		Prepared: 06/06/2016 Analyzed: 06/07/2016						
Arsenic	80.3 mg/kg	1.82	mg/kg	91.2	<1.82 mg/kg	88.0	75-125	1.63	20	
Matrix Spike Dup (BZF0109-MSD4)		Source: 16F0089-10RE1		Prepared: 06/06/2016 Analyzed: 06/07/2016						
Arsenic	93.0 mg/kg	1.93	mg/kg	96.5	<1.93 mg/kg	96.4	75-125	11.6	20	

Batch BZF0130 - SW7471B

Blank (BZF0130-BLK1)				Prepared & Analyzed: 06/07/2016						
Mercury	<0.008 mg/kg	0.008	mg/kg							
LCS (BZF0130-BS1)				Prepared & Analyzed: 06/07/2016						
Mercury	0.094 mg/kg	0.008	mg/kg	0.0951	mg/kg	98.7	80-120			
LCS Dup (BZF0130-BSD1)				Prepared & Analyzed: 06/07/2016						
Mercury	0.094 mg/kg	0.008	mg/kg	0.0947	mg/kg	99.0	80-120	0.104	20	
Matrix Spike (BZF0130-MS1)		Source: 16F0089-12		Prepared & Analyzed: 06/07/2016						
Mercury	0.242 mg/kg	0.008	mg/kg	0.0992	0.156 mg/kg	87.4	80-120			
Matrix Spike Dup (BZF0130-MSD1)		Source: 16F0089-12		Prepared & Analyzed: 06/07/2016						
Mercury	0.237 mg/kg	0.008	mg/kg	0.0954	0.156 mg/kg	84.9	80-120	2.34	20	



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Certificate of Analysis

Final Report

Client Name: Timmons Group 1001 Boulders Parkway, Suite 300 Richmond VA, 23225	Date Issued: 6/10/2016 13:23
Submitted To: Chase Farnsworth	Project Number: [none]
Client Site I.D.: E Main St. Parcels	Purchase Order:

Certified Analyses included in this Report

Analyte	Certifications
SW6010C in Solids	
Antimony	VELAP,NC
Arsenic	VELAP,NC
Beryllium	VELAP,NC
Cadmium	VELAP,NC,WVDEP
Chromium	VELAP,NC
Copper	VELAP,NC
Lead	VELAP,NC,WVDEP
Nickel	VELAP,NC
Selenium	VELAP,NC,WVDEP
Silver	VELAP,NC,WVDEP
Thallium	VELAP,NC
Zinc	VELAP,NC
SW7471B in Solids	
Mercury	VELAP,WVDEP

Code	Description	Lab Number	Expires
MdDOE	Maryland DE Drinking Water	341	12/31/2016
NC	North Carolina DENR	495	12/31/2016
PADEP	NELAC-Pennsylvania	001	10/31/2016
VELAP	NELAC-Virginia Certificate #8271	460021	06/14/2016
WVDEP	West Virginia DEP	350	11/30/2016



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Certificate of Analysis

Final Report

Client Name:	Timmons Group 1001 Boulders Parkway, Suite 300 Richmond VA, 23225	Date Issued:	6/10/2016 13:23
Submitted To:	Chase Farnsworth	Project Number:	[none]
Client Site I.D.:	E Main St. Parcels	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.

CHAIN OF CUSTODY

PAGE 1 OF 2

COMPANY NAME: <u>Timmons Group</u>	INVOICE TO: <u>→</u>	PROJECT NAME/Quote #: <u>E Main St Parcels</u>
CONTACT: <u>Chase Farnsworth</u>	INVOICE CONTACT:	SITE NAME:
ADDRESS: <u>1001 Boulders Pkwy, Suite 300</u>	INVOICE ADDRESS:	PROJECT NUMBER:
PHONE #: <u>804.200.6450</u>	INVOICE PHONE #:	P.O. #:
FAX #:	EMAIL: <u>chase.farnsworth@timmons.com</u>	Pretreatment Program:
Is sample for compliance reporting? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	Is sample from a chlorinated supply? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	PWS I.D. #:
SAMPLER NAME (PRINT): <u>Chase Farnsworth</u> SAMPLER SIGNATURE: <u>[Signature]</u>		Turn Around Time: <u>5</u> Day(s)

Matrix Codes: WW=Waste Water/Storm Water GW=Ground Water DW=Drinking Water S=Soil/Solids OR=Organic A=Air WP=Wipe OT=Other _____

CLIENT SAMPLE I.D.	Grab	Composite	Field Filtered (Dissolved Metals)	Composite Start Date	Composite Start Time	Grab Date or Composite Stop Date	Grab Time or Composite Stop Time	Time Preserved	Matrix (See Codes)	Number of Containers	ANALYSIS / (PRESERVATIVE)								COMMENTS
1) <u>55-1</u>		X		<u>6/2/16</u>	<u>10:00</u>				<u>S</u>	<u>1</u>	<u>X</u>								Preservative Codes: N=Nitric Acid C=Hydrochloric Acid S=Sulfuric Acid H=Sodium Hydroxide A=Ascorbic Acid Z=Zinc Acetate T=Sodium Thiosulfate M=Methanol PLEASE NOTE PRESERVATIVE(S), INTERFERENCE CHECKS or PUMP RATE (L/min)
2) <u>55-2</u>		X			<u>10:05</u>				<u>S</u>	<u>1</u>	<u>X</u>								
3) <u>55-3</u>		X			<u>10:15</u>				<u>S</u>	<u>1</u>	<u>X</u>								
4) <u>55-4</u>		X			<u>10:30</u>				<u>S</u>	<u>1</u>	<u>X</u>								
5) <u>55-5</u>		X			<u>10:45</u>				<u>S</u>	<u>1</u>	<u>X</u>								
6) <u>55-6</u>		X			<u>11:00</u>				<u>S</u>	<u>1</u>	<u>X</u>								
7) <u>55-7</u>		X			<u>11:15</u>				<u>S</u>	<u>1</u>	<u>X</u>								
8) <u>55-8</u>		X			<u>11:40</u>				<u>S</u>	<u>1</u>	<u>X</u>								
9) <u>55-9</u>		X			<u>11:55</u>				<u>S</u>	<u>1</u>	<u>X</u>								
10) <u>55-10</u>		X			<u>12:10</u>				<u>S</u>	<u>1</u>	<u>X</u>								

Page 23 of 26	INQUIRED: <u>[Signature]</u> DATE / TIME <u>6/3/16</u>	RECEIVED: <u>[Signature]</u> DATE / TIME <u>6/3/16 922</u>	QC Data Package	LAB USE ONLY	COOLER TEMP <u>1.4</u> °C
	INQUIRED: DATE / TIME	RECEIVED: DATE / TIME	Level I <input type="checkbox"/>	TG E Main St. Parcels Recd: 06/03/2016 Due: 06/10/2016 16F0089	
	INQUIRED: DATE / TIME	RECEIVED: DATE / TIME	Level II <input type="checkbox"/>		
	INQUIRED: DATE / TIME	RECEIVED: DATE / TIME	Level III <input type="checkbox"/>		
INQUIRED: DATE / TIME	RECEIVED: DATE / TIME	Level IV <input type="checkbox"/>			

CHAIN OF CUSTODY

PAGE 2 OF 2

COMPANY NAME: <u>Timmons Group</u>	INVOICE TO: <u>[Signature]</u>	PROJECT NAME/Quote #: <u>E Main St Parcels</u>
CONTACT: <u>Chase Farnsworth</u>	INVOICE CONTACT:	SITE NAME:
ADDRESS:	INVOICE ADDRESS:	PROJECT NUMBER:
PHONE #:	INVOICE PHONE #:	P.O. #:
FAX #:	EMAIL:	Pretreatment Program:

Is sample for compliance reporting? YES NO Is sample from a chlorinated supply? YES NO PWS I.D. #:

SAMPLER NAME (PRINT): Chase Farnsworth SAMPLER SIGNATURE: [Signature] Turn Around Time: 5 Day(s)

Matrix Codes: WW=Waste Water/Storm Water GW=Ground Water DW=Drinking Water S=Soil/Solids OR=Organic A=Air WP=Wipe OT=Other _____

CLIENT SAMPLE I.D.	Grab	Composite	Field Filtered (Dissolved Metals)	Composite Start Date	Composite Start Time	Grab Date or Composite Stop Date	Grab Time or Composite Stop Time	Time Preserved	Matrix (See Codes)	Number of Containers	ANALYSIS / (PRESERVATIVE)								COMMENTS
1) <u>55-11</u>		X		<u>6/2/16</u>	<u>12:25</u>				<u>S</u>	<u>1</u>	<u>X</u>								Preservative Codes: N=Nitric Acid C=Hydrochloric Acid S=Sulfuric Acid H=Sodium Hydroxide A=Ascorbic Acid Z=Zinc Acetate T=Sodium Thiosulfate M=Methanol PLEASE NOTE PRESERVATIVE(S), INTERFERENCE CHECKS or PUMP RATE (L/min)
2) <u>55-12</u>		X		<u>6/2/16</u>	<u>12:40</u>				<u>S</u>	<u>1</u>	<u>X</u>								
3)																			
4)																			
5)																			
6)																			
7)																			
8)																			
9)																			
10)																			

RELINQUISHED: <u>[Signature]</u>	DATE / TIME: <u>6/3/16</u>	RECEIVED: <u>[Signature]</u>	DATE / TIME: <u>6/3/16 9:22</u>	QC Data Package	LAB USE ONLY	COOLER TEMP <u>1.4</u> °C
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level I <input type="checkbox"/>	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> TG E Main St. Parcels Recd: 06/03/2016 Due: 06/10/2016 </div>	16F0089
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level II <input type="checkbox"/>		
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level III <input type="checkbox"/>		
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level IV <input type="checkbox"/>		

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Sample Conditions Checklist

Opened by: (Initials) BTC Lab ID No.: 16F0089
 Date Cooler Opened: 06/03/16

		YES	NO	N/A
1.	How were samples received? Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Courier <input type="checkbox"/> Walk In <input checked="" type="checkbox"/>			
2.	Were custody seals used?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3.	If yes, are custody seals unbroken and intact at the date and time of arrival?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.	Are the custody papers filled out completely and correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	Do all bottle labels agree with custody papers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	Is the temperature blank or representative sample within acceptable limits? (above freezing to 6°C)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.	If NO, are the samples just taken and received on ice?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9.	Are all samples within holding time for requested laboratory tests?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.	Is a sufficient amount of sample provided to perform the tests indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.	Are all samples in proper containers for the analyses requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12.	Are all samples appropriately preserved for the analyses requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13.	Are all volatile organic containers free of headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
14.	Are all TOX containers free of headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15.	Is Trip blank provided with each VOC sample set? Circle applicable method: (Document if trip blank is not received with the sample set)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

EPA 8011 EPA 504 EPA 8260 EPA 624
 RSK-175 EPA 8015 (GRO) EPA 8021
 EPA 524 *GRO Wisconsin DNR (water and/or methanol trip blank must be provided)

* See preservation log for Wisconsin soil DRO.

COMMENTS

FOR LAB USE ONLY:

CrVI preserved date/time: _____
 Buffer Sol'n ID: _____ Analyst initials: _____
 1N NaOH ID: _____ or 5N NaOH ID: _____

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED
 F1302 Sample Condition 6_0.xls



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Certificate of Analysis

Final Report

Client Name:	Timmons Group 1001 Boulders Parkway, Suite 300 Richmond VA, 23225	Date Issued:	6/10/2016 13:23
Submitted To:	Chase Farnsworth	Project Number:	[none]
Client Site I.D.:	E Main St. Parcels	Purchase Order:	

Sample Conditions Checklist

Samples Received at:	1.40°C
How were samples received?	Walk In
Were custody seals used? If so were they received intact?	No
Are 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 6C) or received on ice and recently sampled?	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 containers 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, EPA80015 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.	No

ATTACHMENT 3
Cumulative Data Table

Parameter	EPA Mid-Atlantic RSLs - Residential Soil (mg/kg)	EPA Mid-Atlantic RSLs - Industrial Soil (mg/kg)	DEQ VRP Tier II Soil Unrestricted - Residential (mg/kg)	DEQ VRP Tier III Soil Restricted - Commercial/Industrial (mg/kg)	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8	SS-9	SS-10	SS-11	SS-12
<i>Arsenic</i>	0.68	3.00	3.40	30.00			2.35	7.52					2.05			
<i>Cadmium</i>	7.10	98.00	7.00	98.00	2.45	2.56	2.51	2.68	2.21	2.74	1.99	2.11	2.39	2.21	1.85	1.55
<i>Chromium</i>	12000.00	180000.00	3.00	63.00	15.60	15.20	12.70	9.91	14.10	20.10	13.50	16.60	11.40	14.70	14.20	11.70
<i>Copper</i>	310.00	4700.00	310.00	4700.00	24.10	32.20	47.40	40.20	27.00	34.20	28.40	40.40	51.30	39.10	17.80	16.40
<i>Lead</i>	400.00	800.00	270.00	800.00	58.60	77.40	112.00	87.70	45.20	112.00	90.40	78.90	122.00	69.20	54.50	62.50
<i>Mercury</i>	0.94	4.00	0.94	4.00	0.62	0.19	0.18	0.15	0.10	0.21	0.32	0.26	0.72	0.12	0.13	0.16
<i>Nickel</i>	150.00	2200.00	50.80	2200.00	13.80	14.30	5.57	6.32	4.79	11.00	9.04	9.21	4.79	8.85	6.94	5.63
<i>Zinc</i>	2300.00	35000.00	745.00	35000.00	78.90	98.60	105.00	28.50	36.00	93.30	84.90	92.60	69.80	76.70	68.00	52.40

	Exceeds EPA Residential Soil RSL
	Exceeds EPA Industrial Soil RSL
	Exceeds DEQ VRP Tier II screening concentrations