

LETTER OF TRANSMITTAL

1301 Trumansburg Road, Suite N Ithaca, NY 14850 Phone: (607) 216-8955 www.geiconsultants.com

To:	Mr. D	David Szymaı	nski	Date:	May 21, 2014
	Envi	ronmental Pro	ogram – Specialist I	Project No.	1404090-*-1004
	Divis Regi		nmental Remediation,	Re:	Preliminary Results Transmittal
	NYS	DEC			CMWP Addendum #3
	270 I	Michigan Ave	enue		Mineral Springs Former MGP Site
	Buffa	alo, NY 1420	3-2915		NYSDEC Site #V00195
We a	re send	ding you the	following enclosures:		
N	о.	Туре		Desc	ription
	1	Electronic	Preliminary (Non-Valid Performed on 4/22/20		ace Soil Results for Sampling
T 4 a s c c g la	For Aflessage The result/22/201/2/201/2/201/2/201/2/201/2/201/2/201/2/201/2/2/201/2/2/2/2	approval	elementation of CMWP A ows the results of samp sampling performed at the n was found to exceed to also included are the Wo age and chain-of-custod you have any questions	National Fuel Addendum #3 aling performed he off-site parche Residential rk Plan figures y record for the regarding the	parcel and one off-site parcel on at the Mineral Springs MGP Site are don the National Fuel parcel. Table 2 cel. Where a concentration of a SCO, the sample result is shaded in a showing the sample locations, the
B T S M D	. Alexa 5. McLa 1. Forcu 5. Ripsto	er – National nder – Natior ughlin – NYS ucci – NYSDO ein – NYSDO ell – GEI	nal Fuel SDOH DH	()	7d, Edward, wards, C.P.G. ogist

If enclosures are not as noted, kindly notify us at once.

Preliminary Results Transmittal CMWP Addendum #3 Mineral Springs Former MGP Site May 2014

Attachment A

Subsurface Soil Results Summary Tableg

Table 1 Preliminary (Non-Validated) Subsurface Soil Results Samples Collected 4/22/2014 On-Site Soil Sample Results

		Location Name	(E2)(N1)	(E2)(N1)	(E2)(N2)	(E2)(N2)	(E2)(N3)	(E2)(N3)	(E2)(N4)	(E2)(N4)	(E2)(N5)	(E2)(N5)	(E2)(N6)	(E2)(N6)	(E2)(N7)	(E2)(N7)
		Sample Name	(E2) (N1) (0.2-1.4)	(E2) (N1) (1.4-1.9)	(E2) (N2) (0.2-1.8)	(E2) (N2) (1.8-2.3)	(E2) (N3) (0.2-0.9)	(E2) (N3) (0.9-1.4)	(E2) (N4) (0.2-1.4)	(E2) (N4) (1.4-1.9)	(E2) (N5) (0.2-1.8)	(E2) (N5) (1.8-2.3)	(E2) (N6) (0.2-1.2)	(E2) (N6) (1.2-1.7)	(E2) (N7) (0.2-1.8)	(E2) (N7) (1.8-2.3)
		Description	Fill Material	Native Soil / Silty Clay	Fill Material	Native Soil / Silty Clay	Fill Material	Native Soil / Silty Clay	Fill Material	Native Soil / Silty Clay	Fill Material	Native Soil / Silty Clay	Fill Material	Native Soil / Silty Clay	Fill Material	Native Soil / Silty Clay
		Start Depth	0.2	1.4	0.2	1.8	0.2	0.9	0.2	1.4	0.2	1.8	0.2	1.2	0.2	1.8
		End Depth	1.4	1.9	1.8	2.3	0.9	1.4	1.4	1.9	1.8	2.3	1.2	1.7	1.8	2.3
		Depth Unit	ft	ft												
		Sample Date	4/22/2014	4/22/2014	4/22/2014	4/22/2014	4/22/2014	4/22/2014	4/22/2014	4/22/2014	4/22/2014	4/22/2014	4/22/2014	4/22/2014	4/22/2014	4/22/2014
		Residential														
Analyte	CAS no.	sco														
Total Metals m	g/kg															
Arsenic	7440-38-2	16	20.2	6.6	24.9	17	15.3	10.9	21.2	5.1	7.6	4.1	13.6	3.2	14.5	7
Cadmium	7440-43-9	2.5	1 U	0.86 U	0.41 J	0.9 U	0.91 U	0.9 U	0.96 U	0.68 U	0.81 U	0.92 U	0.47 J	0.69 U	1.2	0.73 U
Lead	7439-92-1	400	133	18.2	247	14.5	61.7	15.3	74.1	18.7	48	13	132	11.9	56.4	15.2
Mercury	7439-97-6	0.81	0.51	0.028	0.23	0.054	0.13	0.034	0.43	0.072	0.17	0.049	0.36	0.034	0.82	0.04
Cyanides mg/k	g															
Free Cyanide	e NA	NE	3.3 U	2.9 U	2.3 U	0.14 J	1.5 J	0.61 J	1.1 J	1.6 J	3 U	0.19 J	0.8 J	2.7 U	0.16 J	0.2 J
Total Cyanid	e 57-12-5	27	6.7	10.7	12.2	12.8	40.1	2.6	49.4	2.7	2.5	6.9	9.3	3.5	1.3 J	0.71 J

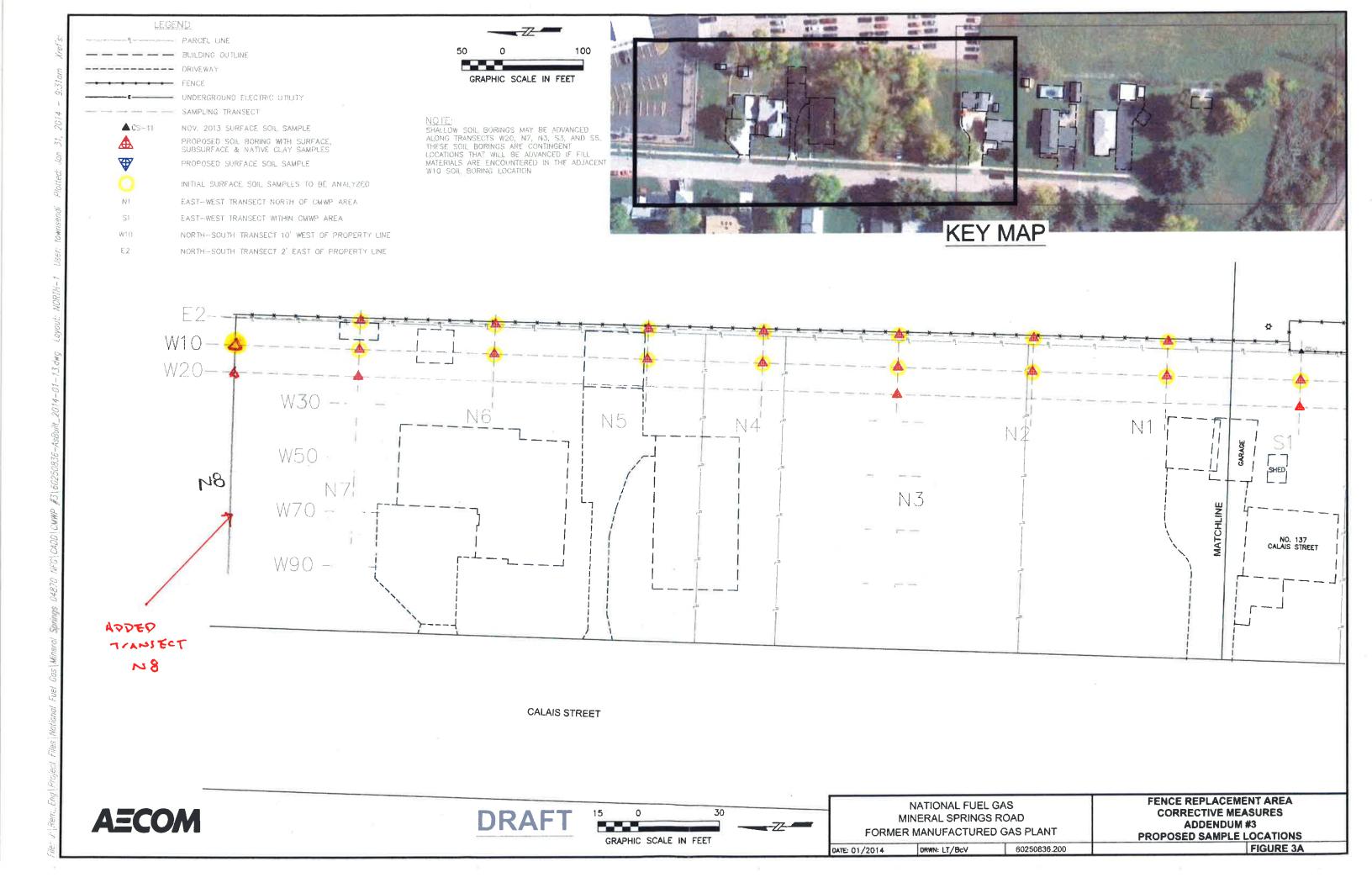
Table 2 Preliminary (Non-Validated) Subsurface Soil Results Samples Collected 4/22/2014 Off-Site Soil Sample Results

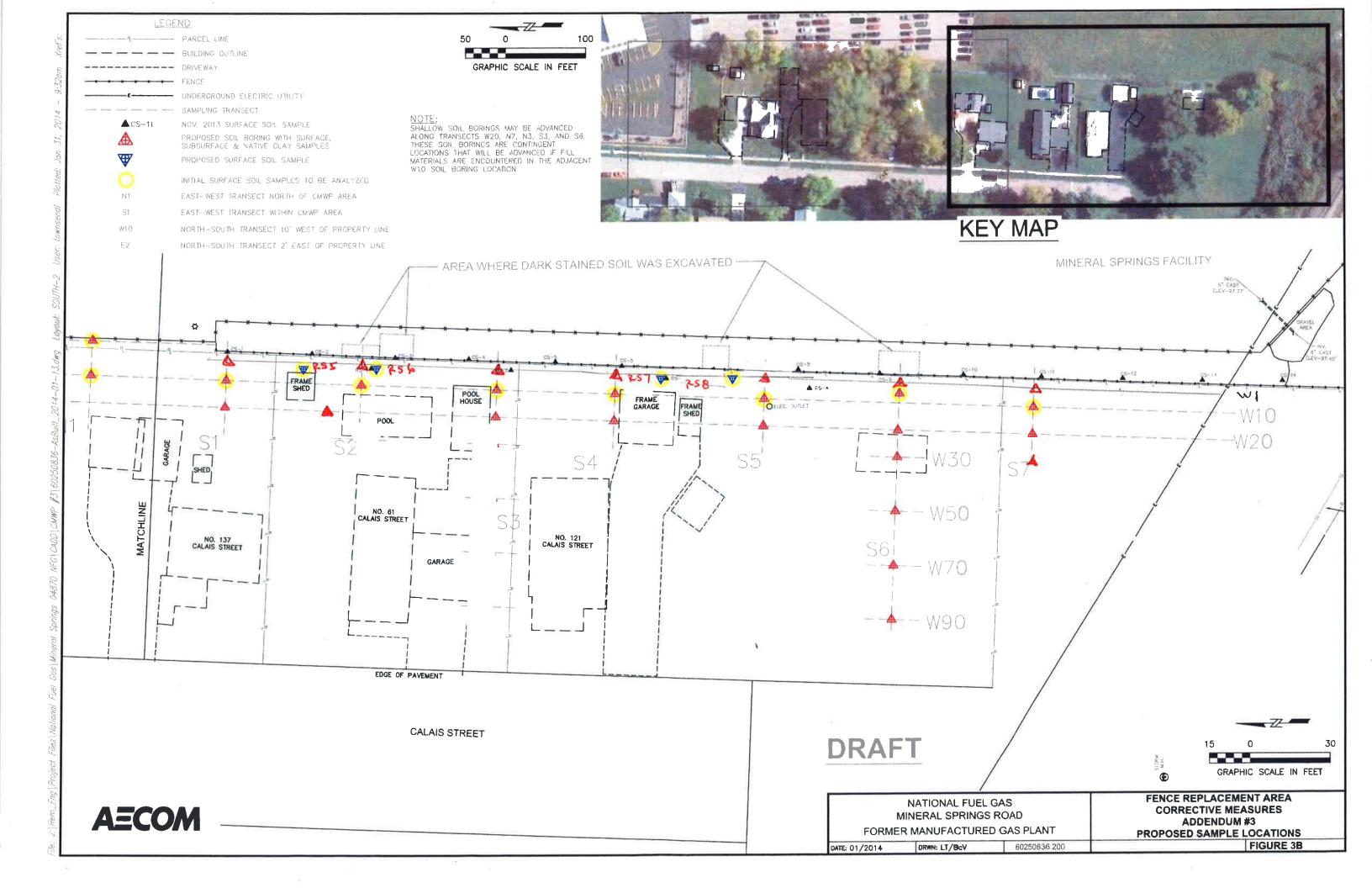
			Location Name	(W10)(S2)	(W10)(S2)
			Sample Name	(W10) (S2) (0.2-1.9)	(W10) (S2) (1.9-2.4)
			Description	Fill Material	Native Soil / Silty Clay
			Start Depth	0.2	1.9
			End Depth	1.9	2.4
			Depth Unit	ft	ft
			Sample Date	4/22/2014	4/22/2014
		CAC	Residential SCO		
	nalyte	CAS no.	300		
To	tal Metals mg/	kg			
	Arsenic	7440-38-2	16	8.8	2.9 J
	Cadmium	7440-43-9	2.5	0.51 J	0.81 U
	Lead	7439-92-1	400	179	13.2
	Mercury	7439-97-6	0.81	0.11	0.033
Су	anides mg/kg				
	Free Cyanide	NA	NE	0.23 J	0.41 J
	Total Cyanide	57-12-5	27	2.2	1.2 U

Preliminary Results Transmittal CMWP Addendum #3 Mineral Springs Former MGP Site May 2014

Attachment B

Site Figures





Preliminary Results Transmittal CMWP Addendum #3 Mineral Springs Former MGP Site May 2014

Attachment C

Chain-of-Custody and Laboratory Reports



<u>TestAmerica</u>

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

TestAmerica Job ID: 480-58444-1

Client Project/Site: National Fuel Gas - Mineral Springs MGP

For:

GEI Consultants, Inc. 1301 Trumansburg Road Suite N Ithaca, New York 14850

Attn: James Edwards

Authorized for release by: 5/20/2014 3:45:24 PM

Rebecca Jones, Project Management Assistant I rebecca.jones@testamericainc.com

Designee for

Melissa Deyo, Project Manager I (716)504-9874 melissa.deyo@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

TestAmerica N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2SSSO3
S - H2SO4
...
T - TSP Dodecahydrate U - Acetone "
V - MCAA
W - ph 4-5
Z - other (specify) Special Instructions/Note: 22/14 1665 T Сотралу Months AH-DIN 4 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Moot
Special Instructions/QC Requirements: 480-48242-12790.4 reservation Codes D - Nitric Acid E - NaHSO4 F - MaOH G - Amchior H - Ascarbic Acid 480-58444 Chain of Custody Page: Page 4 of 19 J'-DI Water K-EDTA L-EDA stenietroo to tedmuMilatoT lethod of Shipment Analysis Requested coler Temperature(s) °C and Other Remarks. 8010C, 7470A X0X 8 9016 - Cyanide, Free Chain of Custody Record MCU) melissa.deyo@testamericainc.com у. ye, بلا ۴ × X × ceived by: Received by: X × Lab PM: Deyo, Melissa L E-Mail: yL. メ ፠ × × × ¥ Perrorm Marman (Yes of No) アア Matrix Preservation Code Solid Company D10/ Type (C=comp, G=grab) Sample Radiological 10 20 Po #: Purchase Order not required 235 1145 1130 226 22 1 145 12014 30 = 70 Sample 173 125 Date: (AT Requested (days) Finknown **Date Requested:** 4.22 4-22 4.22 4.12 4.22. 4.22 47.77 4.22 4.12 Sample Date 71.4 4.22 4.72 Project #: 48009603. Date/Time: **WO#** Poison B ナニ Phoenes -2.3 #:- 1 9-1-20 2-1-2.0 (H-1-6-0 6.0-2.0 Skin Irritant 1.9 0.2 - 1.8 1.8-2.3 iverable Requested: 1, II, III, IV, Other (specify) Custody Seal No.: <u>.</u> 85 Amharst, NY 14228-2298 Phone (716) 691-2600 Fax (716) 691-7991 ŧ. National Fuel Gas - Mineral Springs MGP 0.2 1:1 * Flammable ncummings@geiconsultants.com Possible Hazard Identification TestAmerica Buffalo 90B John Muir Drive Suite 104 2 7 2 (22 12 npty Kit Relinquished by: 2 N Z (22) モストイルラン インパッチ Fと形でろ) Custody Seals Intact ∆ Yes ∆ No Client Information 2 (1~)(2) ample Identification GEI Consultants, Inc. 10 Hazelwood Drive **Aichael Cummings** Non-Hazard 4 elinquished by: イン いい (62 NY, 14228 ると アイ Amherst

TestAmerica Buffalo			0	Chain of Custody Record	f Cus	tody	Red	ord					Test	[esiAmeri	8
Amherst, NY 14228-2298 Phone (716) 691-2600 Fax (716) 691-7991									- 1				HENTER THE	Hi eelise hiskorororia. Testale	ESTRE
Client Information	Sampler.			Lab PM Deyo,	Lab PM: Deyo, Melissa L				3	Carrier Tracking No(s)	ng No(s):		COC No: 480-48242-12790.5	790.5	
Client Contact Michael Cummings	Phone:			E-Mail: meliss	E-Mail: melissa.deyo@testamericainc.com	testamer	icainc.o	me		-		ı	Page: Page 5 of 19		
Company: GEI Consultants, Inc.							An	Analysis	Requ	Requested	5		Job #:		8
Address: 90B John Muir Drive Suite 104	Due Date Requested:	ij			(Par								Preservation Codes		·
City: Amherst	TAT Requested (days):	ys):				_							B - NaOH C - Zn Acetate		*
State, Zip. NY, 14228					3.7							0			
Phone:	PO#. Purchase Order not required	not required					- 1				_	. 4	G - Amchior H - Ascorbic Acid		hydrate
Enait: mcummings@geiconsultants.com	*OW								3				1 - los J - Dl Water K - Enta	U - Acetone V - MCAA W - nh 4-5	
Project Name: National Fuel Gas - Mineral Springs MGP	Project #: 48009603							_					L-EDA	Z - other (speci	 Si
Site:	SSOW#;								9617		10.		Other:		
		Sample	Sample Type (C=comp,	Matrix (Wewester, Sesold, Oewesteroit,	ipotofiid biel MisM mtoffe Bists 7471B	o16 - Cyanide, i	260C - TCL Vol	270D - TCL Ser 	016 - Cyanide,	A0747 , 2010			otal Number		
Sample Identification	Sample Date	e X	G=grab) str-nsow, Ava Preservation Code	BTr-Tissue, Artile) tion Code.		18 2	8 2	- U	8 .00		No.		STATE OF	Special Instructions/Note:	e Kara
(5.1 \C)(1.1 \)	4.72	12.50		Solid	*	×			4		N. Common of the	S - 5	7 2	יאר	
	4.27	1015		Solid		×	×	-				B ₁ 2	۲	14.4	
8-1)(52	и.и			Solid		У У	74			-#	1			æ	
7(52) (6.2	4.72	315		Solid		7-	*					o V	2.4.		
(52) (1.9-2	4.22	717		Solid		× ,×,	*					23.4	34 T		100
				Solid								irelic)			
				Solid											
				Solid				H25							
				Solid									20.35		E I
				Solid								8.6			
				Solid							_				
Possible Hazard Identification	A C				Samp	Sample Disposal (A fee may be assessed if Return To Client Disposal By	sal (A f	ee may	be ass	assessed if san Disposal By Lab	amples a	re retain	samples are retained longer than 1 month)	month) Months	
1	1	1			Specia	Special Instructions/QC Requirements:	jons/20	Requin	ements:						
Empty Kit Relinquished by:		Date:			Time:		· 4	^		Methox	Method of Shipment	¥			
Reinquished by: 74. Colon quel	Date/Time:	4102	J.	Company	1,	Received by:		Jach	Kaih	7	Date/T	7	27/14 6	GC Company	
d by:	Date/Time:			Сотрапу		Received by:				6110	Date/Time	me:		Company	
Relinquished by:	Date/Time:			Сотрану	8	Received by:				a :=	Date/Time:	те:		Company	
Custody Seals Intact Custody Seal No.:	/				8	Cooler Temperature(s) °C and Other Remarks:	erature(s)	C and O	her Rema	iks:	1:8	#	江臣		
O 100 D 100	t														

Client: GEI Consultants, Inc.

Project/Site: National Fuel Gas - Mineral Springs MGP

Client Sample ID: (E2) (N1) (0.2-1.4)

TestAmerica Job ID: 480-58444-1

Lab Sample ID: 480-58444-1

Date Collected: 04/22/14 02:30 Date Received: 04/22/14 16:00								Matri Percent Soli	x: Solid ds: 65.4
Method: 6010C - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20.2		3,8	1.0	mg/Kg	₩	05/10/14 15:47	05/12/14 14:31	4
Cadmium	ND		1,0	0.35	mg/Kg	₩	05/10/14 15:47	05/12/14 14:31	4
Lead	133		2,5	1.0	mg/Kg	₽	05/10/14 15:47	05/12/14 14:31	4
Method: 7471B - Mercury									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.51		0,026	0,018	mg/Kg	☼	04/30/14 11:11	04/30/14 17:18	1

General Chemistry Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 1,5 ₩ 04/29/14 14:46 04/29/14 22:18 Cyanide, Total 6.7 0.71 mg/Kg Cyanide, Free ND 3.3 05/05/14 05:30 05/05/14 11:30 0.16 mg/Kg

Client Sample ID: (E2) (N1) (1.4-1.9)

Lab Sample ID: 480-58444-2

Date Collected: 04/22/14 02:35 Date Received: 04/22/14 16:00 Matrix: Solid Percent Solids: 74.0

Method: 6010C - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.6		3.2	0,89	mg/Kg	₹	05/11/14 17:57	05/12/14 19:47	4
Cadmium	ND		0.86	0,31	mg/Kg	፨	05/11/14 17:57	05/12/14 19:47	4
Lead	18.2		2.2	0.89	mg/Kg	₽	05/11/14 17:57	05/12/14 19:47	4
Method: 7471B - Mercury									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0,021	0,015	mg/Kg	Ö	04/30/14 11:11	04/30/14 17:20	. 1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

 Analyte
 Result Qualifier
 RL
 MDL Unit
 D verpared
 Analyzed
 Dil Fac

 Cyanide, Total
 10.7
 1.3
 0.61 mg/Kg
 04/29/14 14:46
 04/29/14 22:19
 1

 Cyanide, Free
 ND
 2.9
 0.14 mg/Kg
 05/05/14 05:30
 05/05/14 11:30
 1

Client Sample ID: (E2) (N2) (0.2-1.8)

Lab Sample ID: 480-58444-3

Date Collected: 04/22/14 09:20 Date Received: 04/22/14 16:00 Matrix: Solid Percent Solids: 93.0

Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
24.9		2.6	0.72	mg/Kg	₩ 🛱	05/11/14 17:57	05/12/14 19:51	
0.41	J	0.70	0.25	mg/Kg	¤	05/11/14 17:57	05/12/14 19:51	
247		1.7	0.72	mg/Kg	₽	05/11/14 17:57	05/12/14 19:51	4
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
0.23		0.017	0.012	mg/Kg	₩	04/30/14 11:11	04/30/14 17:22	
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
12.2		1.0	0.49	mg/Kg	₽	04/29/14 14:46	04/29/14 22:21	1
ND		2.2	0.11	mg/Kg	25	05/05/44 05:20	05/05/44 44:30	
	24.9 0.41 247 Result 0.23	Result Qualifier 0.23 Result Qualifier 12.2	24.9 2.6 0.41 J 0.70 247 1.7 Result Qualifier RL 0.23 0.017 Result Qualifier RL 12.2 1.0	24.9 2.6 0.72 0.41 J 0.70 0.25 247 1.7 0.72 Result Qualifier RL MDL 0.23 0.017 0.012 Result Qualifier RL MDL 12.2 1.0 0.49	24.9 2.6 0.72 mg/Kg 0.41 J 0.70 0.25 mg/Kg 247 1.7 0.72 mg/Kg Result 0.23 Result 0.017 mg/Kg Result 1.22 Result 1.0 0.49 mg/Kg	24.9 2.6 0.72 mg/Kg ©	24.9 2.6 0.72 mg/Kg □ 05/11/14 17:57 0.41 J 0.70 0.25 mg/Kg □ 05/11/14 17:57 247 1.7 0.72 mg/Kg □ 05/11/14 17:57 Result Qualifier RL MDL Unit D Prepared 0.23 0.017 0.012 mg/Kg □ 04/30/14 11:11 Result Qualifier RL MDL Unit D Prepared 12.2 1.0 0.49 mg/Kg □ 04/29/14 14:46	24.9 2.6 0.72 mg/Kg © 05/11/14 17:57 05/12/14 19:51 0.41 J 0.70 0.25 mg/Kg © 05/11/14 17:57 05/12/14 19:51 247 1.7 0.72 mg/Kg © 05/11/14 17:57 05/12/14 19:51 Result Qualifier RL MDL Unit D Prepared Analyzed 0.23 0.017 0.012 mg/Kg © 04/30/14 11:11 04/30/14 17:22 Result Qualifier RL MDL Unit D Prepared Analyzed 12.2 1.0 0.49 mg/Kg © 04/29/14 14:46 04/29/14 22:21

Client: GEI Consultants, Inc.

Project/Site: National Fuel Gas - Mineral Springs MGP

TestAmerica Job ID: 480-58444-1

Lab Sample ID: 480-58444-4 Client Sample ID: (E2) (N2) (1.8-2.3)

Date Collected: 04/22/14 10:20

Matrix: Solid

Date Received: 04/22/14 16:00 Percent Solids: 74.6

Method: 6010C - Metals (ICP)		0.115	-			_			D.: E
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	17.0		3,4	0,92	mg/Kg	₩	05/11/14 17:57	05/12/14 19:54	4
Cadmium	ND		0.90	0.32	mg/Kg	₩	05/11/14 17:57	05/12/14 19:54	4
Lead	14.5		2,3	0.93	mg/Kg	₩	05/11/14 17:57	05/12/14 19:54	4
Method: 7471B - Mercury									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.054		0,020	0,014	mg/Kg	Ø	04/30/14 11:11	04/30/14 17:24	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	12.8		1.3	0.64	mg/Kg	₽	04/29/14 14:46	04/29/14 22:24	1
Cyanide, Free	0.14	J	2,9	0.14	mg/Kg	₽	05/05/14 05:30	05/05/14 11:30	1

Client Sample ID: (E2) (N3) (0.9-1.4) Lab Sample ID: 480-58444-5

Date Collected: 04/22/14 11:20 Date Received: 04/22/14 16:00

Date Collected: 04/22/14 01:45

Matrix: Solid Percent Solids: 79.7

Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	10.9		3.4	0.92	mg/Kg	*	05/11/14 17:57	05/12/14 19:58	
Cadmium	ND		0.90	0.32	mg/Kg	₩	05/11/14 17:57	05/12/14 19:58	4
Lead	15.3		2.2	0.92	mg/Kg	₽	05/11/14 17:57	05/12/14 19:58	4
Method: 7471B - Mercury									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0,018	0,013	mg/Kg	₩	04/30/14 11:11	04/30/14 17:26	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.6		1.2	0.57	mg/Kg	₽	04/29/14 14:46	04/29/14 22:26	1
Cyanide, Free	0.61	J	2.7	0.13	mg/Kg	₩	05/05/14 05:30	05/05/14 11:30	1

Client Sample ID: (E2) (N3) (0.2-0.9)

Lab Sample ID: 480-58444-6

Matrix: Solid Percent Solids: 72.3

Date Received: 04/22/14 16:00 Method: 6010C - Metals (ICP) RL Analyte Result Qualifier MDL Unit D Prepared Analyzed Dil Fac 3.4 05/12/14 20:02 **Arsenic** 15.3 0.93 mg/Kg 05/11/14 17:57 Cadmium 0.91 05/12/14 20:02 ND 0.32 mg/Kg 05/11/14 17:57 05/12/14 20:02 2,3 0.93 mg/Kg 05/11/14 17:57 Lead 61.7 Method: 7471B - Mercury Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 0.021 0,015 mg/Kg 04/30/14 11:11 04/30/14 17:28 0.13 Mercury **General Chemistry** Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 1.3 ₩ Cyanide, Total 40.1 0.62 mg/Kg 04/29/14 14:46 04/29/14 22:28 3.0 0_15 mg/Kg 05/05/14 05:30 05/05/14 11:30 Cyanide, Free 1.5 J

Client: GEI Consultants, Inc.

Project/Site: National Fuel Gas - Mineral Springs MGP

TestAmerica Job ID: 480-58444-1

Client Sample ID: (E2) (N4) (0.2-1.4)

Lab Sample ID: 480-58444-7

Date Collected: 04/22/14 01:20 Date Received: 04/22/14 16:00 Matrix: Solid Percent Solids: 68.0

Method: 6010C - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	21.2		3,6	0,98	mg/Kg	♡	05/11/14 17:57	05/12/14 20:05	4
Cadmium	ND		0.96	0.34	mg/Kg	₽	05/11/14 17:57	05/12/14 20:05	4
Lead	74.1		2.4	0.98	mg/Kg	₽	05/11/14 17:57	05/12/14 20:05	4
Method: 7471B - Mercury Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.43		0.024	0.017	mg/Kg	☼	05/05/14 11:50	05/05/14 16:03	1
General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	49.4		1.4	0.67	mg/Kg	Ø	04/29/14 14:46	04/29/14 22:29	1
Cyanide, Free	1.1	A.	3.2	0-16	mg/Kg	₽	05/05/14 05:30	05/05/14 11:30	4

Client Sample ID: (E2) (N4) (1.4-1.9)

Lab Sample ID: 480-58444-8

Date Collected: 04/22/14 01:25 Date Received: 04/22/14 16:00 Matrix: Solid Percent Solids: 80.0

Method: 6010C - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	. D	Prepared	Analyzed	Dil Fac
	5.1	quamor	2.6	0.70	mg/Kg	- -	05/11/14 17:57	05/12/14 20:09	4
Arsenic	5.1		2,0	0.70	mg/Kg	r	03/11/14 17.57	03/12/14 20:09	4
Cadmium	ND		0,68	0.24	mg/Kg	₽	05/11/14 17:57	05/12/14 20:09	4
Lead	18.7		1.7	0,70	mg/Kg	₽	05/11/14 17:57	05/12/14 20:09	4
Method: 7471B - Mercury									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.072		0.021	0,015	mg/Kg	₩	05/05/14 11:50	05/05/14 16:05	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.7		1.2	0.60	mg/Kg	₽	04/29/14 18:35	04/30/14 15:44	1
Cyanide, Free	1.6	J	2.6	0.13	mg/Kg	₽	05/05/14 05:30	05/05/14 11:30	1

Client Sample ID: (E2) (N5) (0.2-1.8)

Lab Sample ID: 480-58444-9

Date Collected: 04/22/14 11:45 Date Received: 04/22/14 16:00 Matrix: Solid
Percent Solids: 68.8

Method: 6010C - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Arsenic	7.6		3.0	0.83	mg/Kg	₩	05/11/14 17:57	05/12/14 20:12	
Cadmium	ND		0,81	0.29	mg/Kg	☼	05/11/14 17:57	05/12/14 20:12	
Lead	48.0		2.0	0.83	mg/Kg	₩	05/11/14 17:57	05/12/14 20:12	
Method: 7471B - Mercury									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17		0,023	0,016	mg/ K g	₩	05/05/14 11:50	05/05/14 16:07	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.5		1.4	0.69	mg/Kg	₩	04/29/14 18:35	04/30/14 15:46	1
Cyanide, Free	ND		3.0	0.15	mg/Kg	≎	05/05/14 05:30	05/05/14 11:30	1

Client: GEI Consultants, Inc.

Date Collected: 04/22/14 11:50

Date Received: 04/22/14 16:00

Project/Site: National Fuel Gas - Mineral Springs MGP

Client Sample ID: (E2) (N5) (1.8-2.3)

Lab Carrella ID: 400 50444 40

Lab Sample ID: 480-58444-10

TestAmerica Job ID: 480-58444-1

Matrix: Solid Percent Solids: 77.6

Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.1		3.5	0.94	mg/Kg	₩	05/11/14 17:57	05/12/14 20:27	4
Cadmium	ND		0.92	0.33	mg/Kg	₩	05/11/14 17:57	05/12/14 20:27	4
Lead	13.0		2,3	0.94	mg/Kg	₩	05/11/14 17:57	05/12/14 20:27	4

Method: 7471B - Mercury Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.049		0,021	0.015	mg/Kg	¢	05/05/14 11:50	05/05/14 16:12	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	6.9		1.2	0.59	mg/Kg	₽	04/29/14 18:35	04/30/14 15:57	1
Cyanide, Free	0.19	J	2.7	0.14	mg/Kg	₩	05/05/14 05:30	05/05/14 11:30	1

Client Sample ID: (E2) (N6) (0.2-1.2)

Lab Sample ID: 480-58444-11

 Date Collected: 04/22/14 11:30
 Matrix: Solid

 Date Received: 04/22/14 16:00
 Percent Solids: 69.3

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.36		0.024	0.017	mg/Kg	<u> </u>	05/05/14 11:50	05/05/14 16:14	1
Method: 7471B - Mercury Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	132		2.3	0.96	mg/Kg	₩	05/11/14 17:57	05/12/14 20:31	4
Cadmium	0.47	J	0.94	0.33	mg/Kg	₩	05/11/14 17:57	05/12/14 20:31	4
Arsenic	13.6		3.5	0.96	mg/Kg	₩	05/11/14 17:57	05/12/14 20:31	4
Method: 6010C - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

ı	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ı	Cyanide, Total	9.3		1.4	0.69	mg/Kg	₩	04/29/14 18:35	04/30/14 15:56	1
	Cyanide, Free	0.80	J	3.0	0.15	mg/Kg	¢	05/05/14 05:30	05/05/14 11:30	1

Client Sample ID: (E2) (N6) (1.2-1.7)

Lab Sample ID: 480-58444-12

 Date Collected: 04/22/14 12:50
 Matrix: Solid

 Date Received: 04/22/14 16:00
 Percent Solids: 78.4

Method: 6010C - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Arsenic	3.2		2.6	0.71	mg/Kg	₩	05/11/14 17:57	05/12/14 20:34	
Cadmium	ND		0.69	0.25	mg/Kg	₩	05/11/14 17:57	05/12/14 20:34	
Lead	11.9		1.7	0.71	mg/Kg	₽	05/11/14 17:57	05/12/14 20:34	
Method: 7471B - Mercury Analyte	Pacult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Mercury	0.034	Qualifier	0,020	0,014		p	05/05/14 11:50	05/05/14 16:16	DIIFa
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Cyanide, Total	3.5		1.2	0.58	mg/Kg	₩	04/29/14 18:35	04/30/14 15:54	

Client: GEI Consultants, Inc.

Project/Site: National Fuel Gas - Mineral Springs MGP

Client Sample ID: (E2) (N7) (0.2-1.8)

Lab Sample ID: 480-58444-13

 Date Collected: 04/22/14 10:15
 Matrix: Solid

 Date Received: 04/22/14 16:00
 Percent Solids: 66.5

Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	14.5		4.0	1,1	mg/Kg	₩	05/11/14 17:57	05/12/14 20:38	4
Cadmium	1.2		1.:1	0.38	mg/Kg	₩	05/11/14 17:57	05/12/14 20:38	4
Lead	56.4		2.7	1:1	mg/Kg	₩	05/11/14 17:57	05/12/14 20:38	4
Method: 7471B - Mercury									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.82		0.025	0.018	mg/Kg	₩	05/05/14 11:50	05/05/14 16:18	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	1.3	J	1.4	0.67	mg/Kg	₩	04/29/14 18:35	04/30/14 15:43	- 1
Cyanide, Free	0.16	J	3.2	0.16	mg/Kg	☼	05/05/14 05:30	05/05/14 11:30	9

Client Sample ID: (E2) (N7) (1.8-2.3)

Lab Sample ID: 480-58444-14

 Date Collected: 04/22/14 10:30
 Matrix: Solid

 Date Received: 04/22/14 16:00
 Percent Solids: 74.4

Method: 6010C - Metals (ICP)						_			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.0		2.7	0.74	mg/Kg	₩	05/11/14 17:57	05/12/14 20:42	4
Cadmium	ND		0.73	0.26	mg/Kg	₩	05/11/14 17:57	05/12/14 20:42	4
Lead	15.2		1.8	0.75	mg/Kg	₩	05/11/14 17:57	05/12/14 20:42	4
Method: 7471B - Mercury									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.023	0,016	mg/Kg	₩	05/05/14 11:50	05/05/14 16:20	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.71	J	1.3	0.64	mg/Kg	₩	04/29/14 18:35	04/30/14 15:50	1
Cyanide, Free	0.20	J	2.8	0.14	mg/Kg	₽	05/05/14 05:30	05/05/14 11:30	1

Client Sample ID: (W10) (S2) (0.2-1.9)

Lab Sample ID: 480-58444-15

Date Collected: 04/22/14 03:15

Date Received: 04/22/14 16:00

Matrix: Solid
Percent Solids: 65.5

Method: 6010C - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.8		3.9	1.1	mg/Kg	₩	05/11/14 17:57	05/12/14 20:45	4
Cadmium	0.51	J	1.0	0.37	mg/Kg	₽	05/11/14 17:57	05/12/14 20:45	4
Lead	179		2.6	121	mg/Kg	❖	05/11/14 17:57	05/12/14 20:45	4
Method: 7471B - Mercury									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.024	0.017	mg/ K g	₽	05/05/14 11:50	05/05/14 16:22	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.2		1,5	0,73	mg/Kg	#	04/29/14 18:35	04/30/14 15:47	1
	0.23		3.3	0.16	mg/Kg	₩	05/05/14 05:30	05/05/14 11:30	3

TestAmerica Buffalo

TestAmerica Job ID: 480-58444-1

Client: GEI Consultants, Inc.

Project/Site: National Fuel Gas - Mineral Springs MGP

Lab Sample ID: 480-58444-16

04/29/14 18:35

05/05/14 05:30

TestAmerica Job ID: 480-58444-1

Sample ID: 400-50444-10

04/30/14 15:48

05/05/14 11:30

Matrix: Solid Percent Solids: 80.5

Client Sample ID: (W10) (S2) (1.9-2.4)
Date Collected: 04/22/14 03:17

Date Collected: 04/22/14 03:17

Date Received: 04/22/14 16:00

Cyanide, Total

Cyanide, Free

Method: 6010C - Metals (ICP) RL D Analyte Result Qualifier MDL Unit Prepared Analyzed Dil Fac 3.0 $\overline{\alpha}$ 05/11/14 17:57 05/12/14 20:49 Arsenic 2.9 0.83 mg/Kg ND 0.81 0.29 mg/Kg ₩ 05/11/14 17:57 05/12/14 20:49 Cadmium 05/11/14 17:57 05/12/14 20:49 2.0 0.83 mg/Kg 13.2 Lead Method: 7471B - Mercury Result Qualifier RL MDL Unit D **Analyzed** Dil Fac Analyte Prepared 0.020 0.014 mg/Kg ₩ 05/05/14 11:50 05/05/14 16:24 0.033 Mercury **General Chemistry** Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed Analyte

1.2

2.6

0.58 mg/Kg

0.13 mg/Kg

ND

0.41 J