## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

#### ANALYTICAL RESULTS

Prepared by:

Prepared for:

Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601 Keating Environmental Mgmt Inc 835 Springdale Drive Suite 20 Exton PA 19341

Report Date: December 19, 2016

Project: West Phila. HS

Submittal Date: 12/14/2016 Group Number: 1744407 PO Number: 1218 State of Sample Origin: PA

	Lancaster Labs
Client Sample Description	<u>(LL) #</u>
1020-01-KS-101-02 Grab Potable Water	8744268
1020-03-WC-102-02 Grab Potable Water	8744269
1020-03-WC-103-02 Grab Potable Water	8744270
1020-03-WC-104-02 Grab Potable Water	8744271
1020-02-WC-105-02 Grab Potable Water	8744272
1020-02-WC-106-02 Grab Potable Water	8744273
1020-02-WC-107-02 Grab Potable Water	8744274
1020-01-WC-108-02 Grab Potable Water	8744275
1020-01-WC-109-02 Grab Potable Water	8744276
1020-01-WC-110-02 Grab Potable Water	8744277
1020-01-WC-111-02 Grab Potable Water	8744278
1020-01-WC-112-02 Grab Potable Water	8744279
1020-01-WC-113-02 Grab Potable Water	8744280
1020-01-WC-114-02 Grab Potable Water	8744281
1020-01-NS-115-02 Grab Potable Water	8744282
1020-01-WC-116-02 Grab Potable Water	8744283
1020-01-WC-117-02 Grab Potable Water	8744284
1020-01-WC-118-02 Grab Potable Water	8744285
1020-01-BF-119-02 Grab Potable Water	8744286
1020-01-WC-120-02 Grab Potable Water	8744287
1020-01-WC-121-02 Grab Potable Water	8744288

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our current scopes of accreditation can be viewed at <a href="http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/">http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/</a>. To request copies of prior scopes of accreditation, contact your project manager.



## Analysis Report

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Electronic Copy To Keating Environmental Mgmt Inc Attn: Keith Choper

Respectfully Submitted,

Stacy L. Hess

(717) 556-7236



# Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 1020-01-KS-101-02 Grab Potable Water

West Philadelphia HS

LL Sample # WW 8744268 LL Group # 1744407 Account # 20318

Project Name: West Phila. HS

Collected: 12/14/2016 08:35 by CO Keating Environmental Mgmt Inc

835 Springdale Drive

Suite 20

Exton PA 19341

Submitted:	12/14/2016	16:22
Reported:	12/19/2016	12:46

CAT No.	Analysis Name		CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metal	s	SW-846 603	10B	mg/l	mg/l	mg/l	
01754	Iron		7439-89-6	N.D.	0.0747	0.200	1
07055	Lead		7439-92-1	N.D.	0.0062	0.0150	1
07058	Manganese		7439-96-5	0.0037 J	0.0018	0.0050	1
07072	Zinc		7440-66-6	0.202	0.0054	0.0200	1
Wet C	hemistry	SM 2130 B	-2001	N T U	N T U	N T U	
12145	Turbidity		n.a.	0.43 J BQ8	0.14	1.0	1

#### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

Laboratory Sample Analysis Record										
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tir	me	Analyst	Dilution Factor		
01754	Iron	SW-846 6010B	1	163501848001	12/16/2016	00:47	Matthew R Machtinger	1		
07055	Lead	SW-846 6010B	1	163501848001	12/16/2016	00:47	Matthew R Machtinger	1		
07058	Manganese	SW-846 6010B	1	163501848001	12/16/2016	00:47	Matthew R Machtinger	1		
07072	Zinc	SW-846 6010B	1	163501848001	12/16/2016	00:47	Matthew R Machtinger	1		
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	163501848001	12/15/2016	16:46	Barbara A Kane	1		
12145	Turbidity	SM 2130 B-2001	1	16349121452A	12/14/2016	22:25	Hannah M Royer	1		

<sup>\*=</sup>This limit was used in the evaluation of the final result



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 1020-03-WC-102-02 Grab Potable Water

West Philadelphia HS

LL Sample # WW 8744269 LL Group # 1744407 Account # 20318

Project Name: West Phila. HS

Collected: 12/14/2016 06:10 by CO Keating Environmental Mgmt Inc

835 Springdale Drive

Suite 20

Exton PA 19341

Submitted: 12/14/2016 16:22 Reported: 12/19/2016 12:46

CAT No.	Analysis Name	C	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals	3	SW-846 6010	В	mg/l	mg/l	mg/l	
01754	Iron	-	7439-89-6	N.D.	0.0747	0.200	1
07055	Lead	-	7439-92-1	N.D.	0.0062	0.0150	1
07058	Manganese	-	7439-96-5	0.0022 J	0.0018	0.0050	1
07072	Zinc	5	7440-66-6	0.268	0.0054	0.0200	1
Wet Cl	nemistry	SM 2130 B-2	001	N T U	N T U	NTU	
12145	Turbidity	r	ı.a.	0.35 J BQ8	0.14	1.0	1

#### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

Laboratory Sample Analysis Record											
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tir	me	Analyst	Dilution Factor			
01754	Iron	SW-846 6010B	1	163501848001	12/16/2016	00:29	Matthew R Machtinger	1			
07055	Lead	SW-846 6010B	1	163501848001	12/16/2016	00:29	Matthew R Machtinger	1			
07058	Manganese	SW-846 6010B	1	163501848001	12/16/2016	00:29	Matthew R Machtinger	1			
07072	Zinc	SW-846 6010B	1	163501848001	12/16/2016	00:29	Matthew R Machtinger	1			
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	163501848001	12/15/2016	16:46	Barbara A Kane	1			
12145	Turbidity	SM 2130 B-2001	1	16349121452A	12/14/2016	22:25	Hannah M Royer	1			

<sup>\*=</sup>This limit was used in the evaluation of the final result



## Analysis Report

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Sample Description: 1020-03-WC-103-02 Grab Potable Water

West Philadelphia HS

LL Sample # WW 8744270 LL Group # 1744407 Account # 20318

Project Name: West Phila. HS

Collected: 12/14/2016 06:15 by CO Keating Environmental Mgmt Inc

835 Springdale Drive

Suite 20

Exton PA 19341

Submitted: 12/14/2016 16:22 Reported: 12/19/2016 12:46

CAT No.	Analysis Name		CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals	5	SW-846 6010	)B	mg/l	mg/l	mg/l	
01754	Iron		7439-89-6	0.244	0.0747	0.200	1
07055	Lead		7439-92-1	N.D.	0.0062	0.0150	1
07058	Manganese		7439-96-5	0.0097	0.0018	0.0050	1
07072	Zinc		7440-66-6	0.455	0.0054	0.0200	1
Wet Ch	nemistry	SM 2130 B-2	2001	N T U	N T U	N T U	
12145	Turbidity		n.a.	1.2 BQ8	0.14	1.0	1

#### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

Laboratory Sample Analysis Record											
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tir	me	Analyst	Dilution Factor			
01754	Iron	SW-846 6010B	1	163501848001	12/16/2016	00:50	Matthew R Machtinger	1			
07055	Lead	SW-846 6010B	1	163501848001	12/16/2016	00:50	Matthew R Machtinger	1			
07058	Manganese	SW-846 6010B	1	163501848001	12/16/2016	00:50	Matthew R Machtinger	1			
07072	Zinc	SW-846 6010B	1	163501848001	12/16/2016	00:50	Matthew R Machtinger	1			
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	163501848001	12/15/2016	16:46	Barbara A Kane	1			
12145	Turbidity	SM 2130 B-2001	1	16349121452A	12/14/2016	22:25	Hannah M Royer	1			

<sup>\*=</sup>This limit was used in the evaluation of the final result



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 1020-03-WC-104-02 Grab Potable Water

West Philadelphia HS

LL Sample # WW 8744271 LL Group # 1744407 Account # 20318

Project Name: West Phila. HS

Collected: 12/14/2016 06:20 by CO Keating Environmental Mgmt Inc

835 Springdale Drive

Suite 20

Exton PA 19341

Submitted: 12/14/2016 16:22 Reported: 12/19/2016 12:46

CAT No.	Analysis Name	CAS Nu	mber Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals	<b>S</b>	SW-846 6010B	mg/l	mg/l	mg/l	
01754	Iron	7439-8	9-6 N.D.	0.0747	0.200	1
07055	Lead	7439-9	2-1 N.D.	0.0062	0.0150	1
07058	Manganese	7439-9	6-5 N.D.	0.0018	0.0050	1
07072	Zinc	7440-6	6-6 0.275	0.0054	0.0200	1
Wet Ch	nemistry	SM 2130 B-2001	N T U	N T U	N T U	
12145	Turbidity	n.a.	0.42 J BQ8	0.14	1.0	1

#### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

Laboratory Sample Analysis Record										
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tim	ne	Analyst	Dilution Factor		
01754	Iron	SW-846 6010B	1	163501848001	12/16/2016	00:59	Matthew R Machtinger	1		
07055	Lead	SW-846 6010B	1	163501848001	12/16/2016	00:59	Matthew R Machtinger	1		
07058	Manganese	SW-846 6010B	1	163501848001	12/16/2016	00:59	Matthew R Machtinger	1		
07072	Zinc	SW-846 6010B	1	163501848001	12/16/2016	00:59	Matthew R Machtinger	1		
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	163501848001	12/15/2016	16:46	Barbara A Kane	1		
12145	Turbidity	SM 2130 B-2001	1	16349121452A	12/14/2016	22:25	Hannah M Royer	1		

<sup>\*=</sup>This limit was used in the evaluation of the final result



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 1020-02-WC-105-02 Grab Potable Water

West Philadelphia HS

LL Sample # WW 8744272 LL Group # 1744407 Account # 20318

Project Name: West Phila. HS

Collected: 12/14/2016 06:30 by CO Keating Environmental Mgmt Inc

835 Springdale Drive

Suite 20

Exton PA 19341

Submitted: 12/14/2016 16:22 Reported: 12/19/2016 12:46

CAT No.	Analysis Name		CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals	<b>S</b>	SW-846	6010B	mg/l	mg/l	mg/l	
01754	Iron		7439-89-6	0.541	0.0747	0.200	1
07055	Lead		7439-92-1	N.D.	0.0062	0.0150	1
07058	Manganese		7439-96-5	0.0228	0.0018	0.0050	1
07072	Zinc		7440-66-6	0.608	0.0054	0.0200	1
Wet Ch	nemistry	SM 2130	B-2001	N T U	N T U	N T U	
12145	Turbidity		n.a.	1.8 BQ8	0.14	1.0	1

#### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

Laboratory Sample Analysis Record											
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tir	me	Analyst	Dilution Factor			
01754	Iron	SW-846 6010B	1	163501848001	12/16/2016	01:02	Matthew R Machtinger	1			
07055	Lead	SW-846 6010B	1	163501848001	12/16/2016	01:02	Matthew R Machtinger	1			
07058	Manganese	SW-846 6010B	1	163501848001	12/16/2016	01:02	Matthew R Machtinger	1			
07072	Zinc	SW-846 6010B	1	163501848001	12/16/2016	01:02	Matthew R Machtinger	1			
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	163501848001	12/15/2016	16:46	Barbara A Kane	1			
12145	Turbidity	SM 2130 B-2001	1	16349121452A	12/14/2016	22:25	Hannah M Royer	1			

<sup>\*=</sup>This limit was used in the evaluation of the final result



## **Analysis Report**

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 1020-02-WC-106-02 Grab Potable Water

West Philadelphia HS

LL Sample # WW 8744273 LL Group # 1744407 Account # 20318

Project Name: West Phila. HS

Collected: 12/14/2016 06:35 by CO Keating Environmental Mgmt Inc

835 Springdale Drive

Suite 20

Exton PA 19341

Submitted: 12/14/2016 16:22 Reported: 12/19/2016 12:46

CAT No.	Analysis Name		CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals	3	SW-846	6010B	mg/l	mg/l	mg/l	
01754	Iron		7439-89-6	0.191 J	0.0747	0.200	1
07055	Lead		7439-92-1	N.D.	0.0062	0.0150	1
07058	Manganese		7439-96-5	0.0096	0.0018	0.0050	1
07072	Zinc		7440-66-6	0.300	0.0054	0.0200	1
Wet Ch	nemistry	SM 2130	B-2001	N T U	N T U	N T U	
12145	Turbidity		n.a.	1.4 BQ8	0.14	1.0	1

#### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

Laboratory Sample Analysis Record											
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tir	me	Analyst	Dilution Factor			
01754	Iron	SW-846 6010B	1	163501848001	12/16/2016	01:05	Matthew R Machtinger	1			
07055	Lead	SW-846 6010B	1	163501848001	12/16/2016	01:05	Matthew R Machtinger	1			
07058	Manganese	SW-846 6010B	1	163501848001	12/16/2016	01:05	Matthew R Machtinger	1			
07072	Zinc	SW-846 6010B	1	163501848001	12/16/2016	01:05	Matthew R Machtinger	1			
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	163501848001	12/15/2016	16:46	Barbara A Kane	1			
12145	Turbidity	SM 2130 B-2001	1	16349121452A	12/14/2016	22:25	Hannah M Royer	1			

<sup>\*=</sup>This limit was used in the evaluation of the final result



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 1020-02-WC-107-02 Grab Potable Water

West Philadelphia HS

LL Sample # WW 8744274 LL Group # 1744407 Account # 20318

Project Name: West Phila. HS

Collected: 12/14/2016 06:45 by CO Keating Environmental Mgmt Inc

835 Springdale Drive

Suite 20

Exton PA 19341

Submitted:	12/14/2016	16:22
Reported:	12/19/2016	12:46

CAT No.	Analysis Name		CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals	3	SW-846 601	.0в	mg/l	mg/l	mg/l	
01754	Iron		7439-89-6	0.126 J	0.0747	0.200	1
07055	Lead		7439-92-1	N.D.	0.0062	0.0150	1
07058	Manganese		7439-96-5	0.0071	0.0018	0.0050	1
07072	Zinc		7440-66-6	0.388	0.0054	0.0200	1
Wet Cl	nemistry	SM 2130 B-	2001	N T U	N T U	N T U	
12145	Turbidity		n.a.	0.71 J BQ8	0.14	1.0	1

#### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

Laboratory Sample Analysis Record											
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tir	me	Analyst	Dilution Factor			
01754	Iron	SW-846 6010B	1	163501848001	12/16/2016	01:08	Matthew R Machtinger	1			
07055	Lead	SW-846 6010B	1	163501848001	12/16/2016	01:08	Matthew R Machtinger	1			
07058	Manganese	SW-846 6010B	1	163501848001	12/16/2016	01:08	Matthew R Machtinger	1			
07072	Zinc	SW-846 6010B	1	163501848001	12/16/2016	01:08	Matthew R Machtinger	1			
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	163501848001	12/15/2016	16:46	Barbara A Kane	1			
12145	Turbidity	SM 2130 B-2001	1	16349121452A	12/14/2016	22:25	Hannah M Royer	1			

<sup>\*=</sup>This limit was used in the evaluation of the final result



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 1020-01-WC-108-02 Grab Potable Water

West Philadelphia HS

LL Sample # WW 8744275 LL Group # 1744407 Account # 20318

Project Name: West Phila. HS

Collected: 12/14/2016 07:15 by CO Keating Environmental Mgmt Inc

835 Springdale Drive

Suite 20

Exton PA 19341

Submitted: 12/14/2016 16:22 Reported: 12/19/2016 12:46

CAT No.	Analysis Name	CAS Numb	er Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals	5	SW-846 6010B	mg/l	mg/l	mg/l	
01754	Iron	7439-89-	6 0.710	0.0747	0.200	1
07055	Lead	7439-92-	1 N.D.	0.0062	0.0150	1
07058	Manganese	7439-96-	5 0.0296	0.0018	0.0050	1
07072	Zinc	7440-66-	6 0.625	0.0054	0.0200	1
Wet Ch	nemistry	SM 2130 B-2001	N T U	N T U	N T U	
12145	Turbidity	n.a.	2.6 B	0.14	1.0	1

#### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

Laboratory Sample Analysis Record											
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tir	ne	Analyst	Dilution Factor			
01754	Iron	SW-846 6010B	1	163501848001	12/16/2016	01:11	Matthew R Machtinger	1			
07055	Lead	SW-846 6010B	1	163501848001	12/16/2016	01:11	Matthew R Machtinger	1			
07058	Manganese	SW-846 6010B	1	163501848001	12/16/2016	01:11	Matthew R Machtinger	1			
07072	Zinc	SW-846 6010B	1	163501848001	12/16/2016	01:11	Matthew R Machtinger	1			
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	163501848001	12/15/2016	16:46	Barbara A Kane	1			
12145	Turbidity	SM 2130 B-2001	1	16349121452B	12/14/2016	22:25	Hannah M Royer	1			

<sup>\*=</sup>This limit was used in the evaluation of the final result



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 1020-01-WC-109-02 Grab Potable Water

West Philadelphia HS

LL Sample # WW 8744276 LL Group # 1744407 Account # 20318

Project Name: West Phila. HS

Collected: 12/14/2016 07:10 by CO Keating Environmental Mgmt Inc

835 Springdale Drive

Suite 20

Exton PA 19341

Submitted:	12/14/2016	16:22
Reported:	12/19/2016	12:46

CAT No.	Analysis Name	c	AS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals	5	SW-846 60101	В	mg/l	mg/l	mg/l	
01754	Iron	7	439-89-6	0.282	0.0747	0.200	1
07055	Lead	7	439-92-1	N.D.	0.0062	0.0150	1
07058	Manganese	7	439-96-5	0.0128	0.0018	0.0050	1
07072	Zinc	7	440-66-6	0.514	0.0054	0.0200	1
Wet Ch	nemistry	SM 2130 B-20	001	NTU	N T U	N T U	
12145	Turbidity	n	.a.	1.0 BQ8	0.14	1.0	1

#### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

Laboratory Sample Analysis Record											
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tir	me	Analyst	Dilution Factor			
01754	Iron	SW-846 6010B	1	163501848001	12/16/2016	01:14	Matthew R Machtinger	1			
07055	Lead	SW-846 6010B	1	163501848001	12/16/2016	01:14	Matthew R Machtinger	1			
07058	Manganese	SW-846 6010B	1	163501848001	12/16/2016	01:14	Matthew R Machtinger	1			
07072	Zinc	SW-846 6010B	1	163501848001	12/16/2016	01:14	Matthew R Machtinger	1			
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	163501848001	12/15/2016	16:46	Barbara A Kane	1			
12145	Turbidity	SM 2130 B-2001	1	16349121452A	12/14/2016	22:25	Hannah M Royer	1			

<sup>\*=</sup>This limit was used in the evaluation of the final result



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 1020-01-WC-110-02 Grab Potable Water

West Philadelphia HS

LL Sample # WW 8744277 LL Group # 1744407 Account # 20318

Project Name: West Phila. HS

Collected: 12/14/2016 07:20 by CO Keating Environmental Mgmt Inc

835 Springdale Drive

Suite 20

Exton PA 19341

Submitted: 12/14/2016 16:22 Reported: 12/19/2016 12:46

CAT No.	Analysis Name		CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals	5	SW-846	6010B	mg/l	mg/l	mg/l	
01754	Iron		7439-89-6	0.430	0.0747	0.200	1
07055	Lead		7439-92-1	0.0084 J	0.0062	0.0150	1
07058	Manganese		7439-96-5	0.0217	0.0018	0.0050	1
07072	Zinc		7440-66-6	0.494	0.0054	0.0200	1
Wet Ch	nemistry	SM 2130	B-2001	N T U	N T U	N T U	
12145	Turbidity		n.a.	1.7 BQ8	0.14	1.0	1

#### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

Laboratory Sample Analysis Record											
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tir	me	Analyst	Dilution Factor			
01754	Iron	SW-846 6010B	1	163501848001	12/16/2016	01:17	Matthew R Machtinger	1			
07055	Lead	SW-846 6010B	1	163501848001	12/16/2016	01:17	Matthew R Machtinger	1			
07058	Manganese	SW-846 6010B	1	163501848001	12/16/2016	01:17	Matthew R Machtinger	1			
07072	Zinc	SW-846 6010B	1	163501848001	12/16/2016	01:17	Matthew R Machtinger	1			
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	163501848001	12/15/2016	16:46	Barbara A Kane	1			
12145	Turbidity	SM 2130 B-2001	1	16349121452A	12/14/2016	22:25	Hannah M Royer	1			

<sup>\*=</sup>This limit was used in the evaluation of the final result



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 1020-01-WC-111-02 Grab Potable Water

West Philadelphia HS

LL Sample # WW 8744278 LL Group # 1744407 Account # 20318

Project Name: West Phila. HS

Collected: 12/14/2016 07:30 by CO Keating Environmental Mgmt Inc

835 Springdale Drive

Suite 20

Exton PA 19341

Submitted:	12/14/2016	16:22
Reported:	12/19/2016	12:46

CAT No.	Analysis Name	C.	AS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals	5	SW-846 6010E	3	mg/l	mg/l	mg/l	
01754	Iron	7-	439-89-6	0.131 J	0.0747	0.200	1
07055	Lead	7-	439-92-1	N.D.	0.0062	0.0150	1
07058	Manganese	7-	439-96-5	0.0106	0.0018	0.0050	1
07072	Zinc	7-	440-66-6	0.404	0.0054	0.0200	1
Wet Cl	nemistry	SM 2130 B-20	001	N T U	N T U	N T U	
12145	Turbidity	n	.a.	0.95 J BQ8	0.14	1.0	1

#### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

	Laboratory Sample Analysis Record										
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tir	me	Analyst	Dilution Factor			
01754	Iron	SW-846 6010B	1	163501848001	12/16/2016	01:19	Matthew R Machtinger	1			
07055	Lead	SW-846 6010B	1	163501848001	12/16/2016	01:19	Matthew R Machtinger	1			
07058	Manganese	SW-846 6010B	1	163501848001	12/16/2016	01:19	Matthew R Machtinger	1			
07072	Zinc	SW-846 6010B	1	163501848001	12/16/2016	01:19	Matthew R Machtinger	1			
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	163501848001	12/15/2016	16:46	Barbara A Kane	1			
12145	Turbidity	SM 2130 B-2001	1	16349121452A	12/14/2016	22:25	Hannah M Royer	1			

<sup>\*=</sup>This limit was used in the evaluation of the final result



## **Analysis Report**

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 1020-01-WC-112-02 Grab Potable Water

West Philadelphia HS

LL Sample # WW 8744279 LL Group # 1744407 Account # 20318

Project Name: West Phila. HS

Collected: 12/14/2016 07:35 by CO Keating Environmental Mgmt Inc

835 Springdale Drive

Suite 20

Exton PA 19341

Submitted: 12/14/2016 16:22 Reported: 12/19/2016 12:46

CAT No.	Analysis Name		CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metal	5	SW-846 6010	ЭВ	mg/l	mg/l	mg/l	
01754	Iron		7439-89-6	N.D.	0.0747	0.200	1
07055	Lead		7439-92-1	0.0101 J	0.0062	0.0150	1
07058	Manganese		7439-96-5	0.0093	0.0018	0.0050	1
07072	Zinc		7440-66-6	0.500	0.0054	0.0200	1
Wet C	nemistry	SM 2130 B-2	2001	N T U	N T U	N T U	
12145	Turbidity		n.a.	0.98 JB	0.14	1.0	1

#### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

	Laboratory Sample Analysis Record										
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tir	me	Analyst	Dilution Factor			
01754	Iron	SW-846 6010B	1	163501848001	12/16/2016	01:22	Matthew R Machtinger	1			
07055	Lead	SW-846 6010B	1	163501848001	12/16/2016	01:22	Matthew R Machtinger	1			
07058	Manganese	SW-846 6010B	1	163501848001	12/16/2016	01:22	Matthew R Machtinger	1			
07072	Zinc	SW-846 6010B	1	163501848001	12/16/2016	01:22	Matthew R Machtinger	1			
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	163501848001	12/15/2016	16:46	Barbara A Kane	1			
12145	Turbidity	SM 2130 B-2001	1	16349121452B	12/14/2016	22:25	Hannah M Royer	1			

<sup>\*=</sup>This limit was used in the evaluation of the final result



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 1020-01-WC-113-02 Grab Potable Water

West Philadelphia HS

LL Sample # WW 8744280 LL Group # 1744407 Account # 20318

Project Name: West Phila. HS

Collected: 12/14/2016 07:38 by CO Keating Environmental Mgmt Inc

835 Springdale Drive

Suite 20

Exton PA 19341

Submitted: 12/14/2016 16:22 Reported: 12/19/2016 12:46

CAT No.	Analysis Name		CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals	5	SW-846 6	010B	mg/l	mg/l	mg/l	
01754	Iron		7439-89-6	0.451	0.0747	0.200	1
07055	Lead		7439-92-1	N.D.	0.0062	0.0150	1
07058	Manganese		7439-96-5	0.0253	0.0018	0.0050	1
07072	Zinc		7440-66-6	0.602	0.0054	0.0200	1
Wet Cl	nemistry	SM 2130	B-2001	N T U	N T U	N T U	
12145	Turbidity		n.a.	2.2 B	0.14	1.0	1

#### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

	Laboratory Sample Analysis Record										
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tir	me	Analyst	Dilution Factor			
01754	Iron	SW-846 6010B	1	163501848001	12/16/2016	01:25	Matthew R Machtinger	1			
07055	Lead	SW-846 6010B	1	163501848001	12/16/2016	01:25	Matthew R Machtinger	1			
07058	Manganese	SW-846 6010B	1	163501848001	12/16/2016	01:25	Matthew R Machtinger	1			
07072	Zinc	SW-846 6010B	1	163501848001	12/16/2016	01:25	Matthew R Machtinger	1			
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	163501848001	12/15/2016	16:46	Barbara A Kane	1			
12145	Turbidity	SM 2130 B-2001	1	16349121452B	12/14/2016	22:25	Hannah M Royer	1			

<sup>\*=</sup>This limit was used in the evaluation of the final result



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 1020-01-WC-114-02 Grab Potable Water

West Philadelphia HS

LL Sample # WW 8744281 LL Group # 1744407 Account # 20318

Project Name: West Phila. HS

Collected: 12/14/2016 07:45 by CO Keating Environmental Mgmt Inc

835 Springdale Drive

Suite 20

Exton PA 19341

Submitted:	12/14/2016	16:22
Reported:	12/19/2016	12:46

CAT No.	Analysis Name		CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals	5	SW-846 6	5010B	mg/l	mg/l	mg/l	
01754	Iron		7439-89-6	0.321	0.0747	0.200	1
07055	Lead		7439-92-1	N.D.	0.0062	0.0150	1
07058	Manganese		7439-96-5	0.0158	0.0018	0.0050	1
07072	Zinc		7440-66-6	0.461	0.0054	0.0200	1
Wet Cl	nemistry	SM 2130	B-2001	N T U	N T U	N T U	
12145	Turbidity		n.a.	1.3 B	0.14	1.0	1

#### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

Laboratory	Sample	Analysis	Record
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CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tim	ne	Analyst	Dilution Factor
01754	Iron	SW-846 6010B	1	163501848001	12/16/2016	12:16	Eric L Eby	1
07055	Lead	SW-846 6010B	1	163501848001	12/16/2016	01:34	Matthew R Machtinger	1
07058	Manganese	SW-846 6010B	1	163501848001	12/16/2016	01:34	Matthew R Machtinger	1
07072	Zinc	SW-846 6010B	1	163501848001	12/16/2016	01:34	Matthew R Machtinger	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	163501848001	12/15/2016	16:46	Barbara A Kane	1
12145	Turbidity	SM 2130 B-2001	1	16349121452B	12/14/2016	22:25	Hannah M Royer	1

<sup>\*=</sup>This limit was used in the evaluation of the final result



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 1020-01-NS-115-02 Grab Potable Water

West Philadelphia HS

LL Sample # WW 8744282 LL Group # 1744407 Account # 20318

Project Name: West Phila. HS

Collected: 12/14/2016 08:05 by CO Keating Environmental Mgmt Inc

835 Springdale Drive

Suite 20

Exton PA 19341

Submitted: 12/14/2016 16:22 Reported: 12/19/2016 12:46

CAT No.	Analysis Name		CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals	3	SW-846 6010	)B	mg/l	mg/l	mg/l	
01754	Iron		7439-89-6	0.451	0.0747	0.200	1
07055	Lead		7439-92-1	N.D.	0.0062	0.0150	1
07058	Manganese		7439-96-5	0.0269	0.0018	0.0050	1
07072	Zinc		7440-66-6	0.580	0.0054	0.0200	1
Wet Ch	nemistry	SM 2130 B-2	2001	N T U	N T U	N T U	
12145	Turbidity		n.a.	1.4 B	0.14	1.0	1

#### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

		Laboratory	Sample	Analysis	Record	
mo	Method	Tria	l# Batch	<b>#</b>	Analysis	,

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
01754	Iron	SW-846 6010B	1	163501848001	12/16/2016	12:19	Eric L Eby	1
07055	Lead	SW-846 6010B	1	163501848001	12/16/2016	01:37	Matthew R Machtinger	1
07058	Manganese	SW-846 6010B	1	163501848001	12/16/2016	01:37	Matthew R Machtinger	1
07072	Zinc	SW-846 6010B	1	163501848001	12/16/2016	01:37	Matthew R Machtinger	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	163501848001	12/15/2016	16:46	Barbara A Kane	1
12145	Turbidity	SM 2130 B-2001	1	16349121452B	12/14/2016	22:25	Hannah M Royer	1

<sup>\*=</sup>This limit was used in the evaluation of the final result



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 1020-01-WC-116-02 Grab Potable Water

West Philadelphia HS

LL Sample # WW 8744283 LL Group # 1744407 Account # 20318

Project Name: West Phila. HS

Collected: 12/14/2016 08:00 by CO Keating Environmental Mgmt Inc

835 Springdale Drive

Suite 20

Exton PA 19341

Submitted:	12/14/2016	16:22
Reported:	12/19/2016	12:46

CAT No.	Analysis Name		CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals	5	SW-846 6	010B	mg/l	mg/l	mg/l	
01754	Iron		7439-89-6	0.235	0.0747	0.200	1
07055	Lead		7439-92-1	N.D.	0.0062	0.0150	1
07058	Manganese		7439-96-5	0.0112	0.0018	0.0050	1
07072	Zinc		7440-66-6	0.476	0.0054	0.0200	1
Wet Ch	nemistry	SM 2130	B-2001	N T U	N T U	N T U	
12145	Turbidity		n.a.	1.2 B	0.14	1.0	1

#### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

01848 ICP-WW, 3005A (tot rec) - SW-846 3005A

12145 Turbidity

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

SM 2130 B-2001

Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
01754	Iron	SW-846 6010B	1	163501848001	12/16/2016	12:22	Eric L Eby	1
07055	Lead	SW-846 6010B	1	163501848001	12/16/2016	01:40	Matthew R Machtinger	1
07058	Manganese	SW-846 6010B	1	163501848001	12/16/2016	01:40	Matthew R Machtinger	1
07072	Zinc	SW-846 6010B	1	163501848001	12/16/2016	01:40	Matthew R Machtinger	1

163501848001

16349121452B

12/15/2016 16:46

12/14/2016 22:25

Barbara A Kane

Hannah M Royer

<sup>\*=</sup>This limit was used in the evaluation of the final result



# Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 1020-01-WC-117-02 Grab Potable Water

West Philadelphia HS

LL Sample # WW 8744284 LL Group # 1744407 Account # 20318

Project Name: West Phila. HS

Collected: 12/14/2016 07:50 by CO Keating Environmental Mgmt Inc

835 Springdale Drive

Suite 20

Exton PA 19341

Submitted: 12/14/2016 16:22 Reported: 12/19/2016 12:46

CAT No.	Analysis Name	CAS Nu	umber Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals	3	SW-846 6010B	mg/l	mg/l	mg/l	
01754	Iron	7439-8	39-6 0.134 J	0.0747	0.200	1
07055	Lead	7439-9	92-1 N.D.	0.0062	0.0150	1
07058	Manganese	7439-9	0.0066	0.0018	0.0050	1
07072	Zinc	7440-6	0.417	0.0054	0.0200	1
Wet Ch	nemistry	SM 2130 B-2001	N T U	N T U	N T U	
12145	Turbidity	n.a.	1.0 B	0.14	1.0	1

#### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

	Laboratory Sample Analysis Record							
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	.me	Analyst	Dilution Factor
01754	Iron	SW-846 6010B	1	163501848001	12/16/2016	12:26	Eric L Eby	1
07055	Lead	SW-846 6010B	1	163501848001	12/16/2016	01:43	Matthew R Machtinger	1
07058	Manganese	SW-846 6010B	1	163501848001	12/16/2016	01:43	Matthew R Machtinger	1
07072	Zinc	SW-846 6010B	1	163501848001	12/16/2016	01:43	Matthew R Machtinger	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	. 1	163501848001	12/15/2016	16:46	Barbara A Kane	1
12145	Turbidity	SM 2130 B-20	01 1	16349121452B	12/14/2016	22:25	Hannah M Royer	1

<sup>\*=</sup>This limit was used in the evaluation of the final result



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 1020-01-WC-118-02 Grab Potable Water

West Philadelphia HS

LL Sample # WW 8744285 LL Group # 1744407 Account # 20318

Project Name: West Phila. HS

Collected: 12/14/2016 06:55 by CO Keating Environmental Mgmt Inc

835 Springdale Drive

Suite 20

Exton PA 19341

Submitted:	12/14/2016	16:22
Reported:	12/19/2016	12:46

CAT No.	Analysis Name	CAS N	umber Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals	3	SW-846 6010B	mg/l	mg/l	mg/l	
01754	Iron	7439-	89-6 N.D.	0.0747	0.200	1
07055	Lead	7439-	92-1 N.D.	0.0062	0.0150	1
07058	Manganese	7439-	96-5 0.0085	0.0018	0.0050	1
07072	Zinc	7440-	66-6 0.250	0.0054	0.0200	1
Wet Ch	nemistry	SM 2130 B-2001	N T U	N T U	N T U	
12145	Turbidity	n.a.	0.57 J B	0.14	1.0	1

#### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

	Laboratory Sample Analysis Record							
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tir	me	Analyst	Dilution Factor
01754	Iron	SW-846 6010B	1	163501848001	12/16/2016	01:46	Matthew R Machtinger	1
07055	Lead	SW-846 6010B	1	163501848001	12/16/2016	01:46	Matthew R Machtinger	1
07058	Manganese	SW-846 6010B	1	163501848001	12/16/2016	01:46	Matthew R Machtinger	1
07072	Zinc	SW-846 6010B	1	163501848001	12/16/2016	01:46	Matthew R Machtinger	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	163501848001	12/15/2016	16:46	Barbara A Kane	1
12145	Turbidity	SM 2130 B-2001	1	16349121452B	12/14/2016	22:25	Hannah M Royer	1

<sup>\*=</sup>This limit was used in the evaluation of the final result



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 1020-01-BF-119-02 Grab Potable Water

West Philadelphia HS

LL Sample # WW 8744286 LL Group # 1744407 Account # 20318

Project Name: West Phila. HS

Collected: 12/14/2016 08:10 by CO Keating Environmental Mgmt Inc

835 Springdale Drive

Suite 20

Exton PA 19341

Submitted:	12/14/2016	16:22
Reported:	12/19/2016	12:46

CAT No.	Analysis Name		CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals	3	SW-846 6	5010B	mg/l	mg/l	mg/l	
01754	Iron		7439-89-6	0.228	0.0747	0.200	1
07055	Lead		7439-92-1	N.D.	0.0062	0.0150	1
07058	Manganese		7439-96-5	0.0124	0.0018	0.0050	1
07072	Zinc		7440-66-6	0.480	0.0054	0.0200	1
Wet Cl	nemistry	SM 2130	B-2001	N T U	N T U	N T U	
12145	Turbidity		n.a.	1.1 B	0.14	1.0	1

#### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

	Laboratory Sample Analysis Record										
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tim	ne	Analyst	Dilution Factor			
01754	Iron	SW-846 6010B	1	163501848001	12/16/2016	12:29	Eric L Eby	1			
07055	Lead	SW-846 6010B	1	163501848001	12/16/2016	01:49	Matthew R Machtinger	1			
07058	Manganese	SW-846 6010B	1	163501848001	12/16/2016	01:49	Matthew R Machtinger	1			
07072	Zinc	SW-846 6010B	1	163501848001	12/16/2016	01:49	Matthew R Machtinger	1			
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	163501848001	12/15/2016	16:46	Barbara A Kane	1			
12145	Turbidity	SM 2130 B-2001	1	16349121452B	12/14/2016	22:25	Hannah M Royer	1			

<sup>\*=</sup>This limit was used in the evaluation of the final result



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 1020-01-WC-120-02 Grab Potable Water

West Philadelphia HS

LL Sample # WW 8744287 LL Group # 1744407 Account # 20318

Project Name: West Phila. HS

Collected: 12/14/2016 06:50 by CO Keating Environmental Mgmt Inc

835 Springdale Drive

Suite 20

Exton PA 19341

Submitted: 12/14/2016 16:22 Reported: 12/19/2016 12:46

CAT No.	Analysis Name	CAS	Number Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals	3	SW-846 6010B	mg/l	mg/l	mg/l	
01754	Iron	7439	-89-6 0.296	0.0747	0.200	1
07055	Lead	7439	-92-1 N.D.	0.0062	0.0150	1
07058	Manganese	7439	-96-5 0.0091	0.0018	0.0050	1
07072	Zinc	7440	-66-6 0.507	0.0054	0.0200	1
Wet Ch	nemistry	SM 2130 B-2001	NTU	N T U	N T U	
12145	Turbidity	n.a.	1.9 B	0.14	1.0	1

#### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

				Laboratory	Sample	Analysis	Reco	ord
'AT	Analysis	Name	Method	Tria	l# Batch	#	Anal	lysis

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
01754	Iron	SW-846 6010B	1	163501848001	12/16/2016	12:32	Eric L Eby	1
07055	Lead	SW-846 6010B	1	163501848001	12/16/2016	01:52	Matthew R Machtinger	1
07058	Manganese	SW-846 6010B	1	163501848001	12/16/2016	01:52	Matthew R Machtinger	1
07072	Zinc	SW-846 6010B	1	163501848001	12/16/2016	01:52	Matthew R Machtinger	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	163501848001	12/15/2016	16:46	Barbara A Kane	1
12145	Turbidity	SM 2130 B-2001	1	16349121452B	12/14/2016	22:25	Hannah M Royer	1

<sup>\*=</sup>This limit was used in the evaluation of the final result



# Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 1020-01-WC-121-02 Grab Potable Water

West Philadelphia HS

LL Sample # WW 8744288 LL Group # 1744407 Account # 20318

Project Name: West Phila. HS

Collected: 12/14/2016 08:15 by CO Keating Environmental Mgmt Inc

835 Springdale Drive

Suite 20

Exton PA 19341

Submitted: 12/14/2016 16:22 Reported: 12/19/2016 12:46

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metal	s	SW-846 6010B	mg/l	mg/l	mg/l	
01754	Iron	7439-89-6	N.D.	0.0747	0.200	1
07055	Lead	7439-92-1	N.D.	0.0062	0.0150	1
07058	Manganese	7439-96-5	N.D.	0.0018	0.0050	1
07072	Zinc	7440-66-6	0.319	0.0054	0.0200	1
Wet C	hemistry	SM 2130 B-2001	N T U	N T U	N T U	
12145	Turbidity	n.a.	0.32 ЈВ	0.14	1.0	1

#### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

#### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
01754	Iron	SW-846 6010B	1	163501848002	12/16/2016	06:06	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	163501848002	12/16/2016	06:06	Joanne M Gates	1
07058	Manganese	SW-846 6010B	1	163501848002	12/16/2016	06:06	Joanne M Gates	1
07072	Zinc	SW-846 6010B	1	163501848002	12/16/2016	06:06	Joanne M Gates	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	163501848002	12/15/2016	16:48	Barbara A Kane	1
12145	Turbidity	SM 2130 B-2001	1	16349121451A	12/14/2016	21:57	Hannah M Royer	1

<sup>\*=</sup>This limit was used in the evaluation of the final result



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

### Quality Control Summary

Client Name: Keating Environmental Mgmt Inc Group Number: 1744407

Reported: 12/19/2016 12:46

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

#### Method Blank

Analysis Name	Result	MDL**	LOQ
	mg/l	mg/l	mg/l
Batch number: 163501848001 Iron Lead Manganese Zinc		(s): 87442 0.0747 0.0062 0.0018 0.0054	0.200 0.0150 0.0050
Batch number: 163501848002 Iron Lead Manganese Zinc			0.200 0.0150
	N T U	NTU	N T U
Batch number: 16349121451A Turbidity	Sample number 0.24 J		88 1.0
Batch number: 16349121452A Turbidity	Sample number 0.21 J	(s): 87442 0.14	68-8744274,8744276-8744278 1.0
Batch number: 16349121452B Turbidity	Sample number 0.21 J	(s): 87442 0.14	75,8744279-8744287 1.0

#### LCS/LCSD

LCS Spike Added mg/l	LCS Conc mg/l	LCSD Spike Added mg/l	LCSD Conc mg/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Sample number	r(s): 87442	268-8744287						
1.00	1.02			102		80-120		
0.150	0.157			105		80-120		
0.500	0.520			104		80-120		
0.500	0.508			102		80-120		
Sample number	r(s): 87442	288						
1.00	1.03			103		80-120		
0.150	0.143			96		80-120		
0.500	0.486			97		80-120		
0.500	0.477			95		80-120		
	Added mg/l  Sample number 1.00 0.150 0.500  Sample number 1.00 0.150 0.150 0.150 0.150 0.500	Added Conc mg/1 mg/1  Sample number(s): 87444 1.00 1.02 0.150 0.157 0.500 0.520 0.500 0.508  Sample number(s): 87444 1.00 1.03 0.150 0.143 0.500 0.486	Added mg/l mg/l mg/l  Sample number(s): 8744268-8744287  1.00 1.02  0.150 0.157  0.500 0.520  0.500 0.508  Sample number(s): 8744288  1.00 1.03  0.150 0.143  0.500 0.486	Added Conc Added Conc mg/l mg/l mg/l mg/l  Sample number(s): 8744268-8744287  1.00 1.02  0.150 0.157  0.500 0.520  0.500 0.508  Sample number(s): 8744288  1.00 1.03  0.150 0.143  0.500 0.486	Added mg/l         Conc mg/l         Added mg/l         Conc mg/l         %REC mg/l           sample number(s): 8744268-8744287         1.00         1.02         102           0.150         0.157         105         105           0.500         0.520         104         102           Sample number(s): 8744288         1.00         1.03         103           0.150         0.143         96           0.500         0.486         97	Added mg/l         Conc mg/l         Added mg/l         Conc mg/l         %REC mg/l	Added mg/l         Conc mg/l         Added mg/l         Conc mg/l         %REC mg/l         Limits           Sample number(s):         8744268-8744287         102         80-120           1.00         1.02         105         80-120           0.150         0.157         105         80-120           0.500         0.520         104         80-120           0.500         0.508         102         80-120           Sample number(s):         8744288           1.00         1.03         103         80-120           0.150         0.143         96         80-120           0.500         0.486         97         80-120	Added         Conc         Added         Conc         %REC         %REC         Limits           mg/l         mg/l         mg/l         MREC         %REC         Limits           Sample number(s):         8744268-8744287         80-120         80-120           0.150         0.157         105         80-120           0.500         0.520         104         80-120           0.500         0.508         102         80-120           Sample number(s):         8744288         80-120           1.00         1.03         103         80-120           0.150         0.143         96         80-120           0.500         0.486         97         80-120

<sup>\*-</sup> Outside of specification

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

<sup>\*\*-</sup>This limit was used in the evaluation of the final result for the blank

<sup>(1)</sup> The result for one or both determinations was less than five times the LOQ.

<sup>(2)</sup> The unspiked result was more than four times the spike added.



## **Analysis Report**

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

### Quality Control Summary

Client Name: Keating Environmental Mgmt Inc Group Number: 1744407

Reported: 12/19/2016 12:46

#### LCS/LCSD (continued)

Analysis Name	LCS Spike Added N T U	LCS Conc N T U	LCSD Spike Added N T U	LCSD Conc N T U	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 16349121451A Turbidity	Sample numbe	r(s): 8744 10.1	288 10	10.2	101	102	90-104	1	3
Batch number: 16349121452A Turbidity	Sample numbe	r(s): 8744 10.0	268-8744274,87	44276-8744	278 100		90-104		
Batch number: 16349121452B Turbidity	Sample numbe	r(s): 8744 10.0	275,8744279-87	44287	100		90-104		

#### MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name		Unspiked Conc mg/l	MS Spike Added mg/l	MS Conc mg/l	MSD Spike Added mg/l	MSD Conc mg/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number:	163501848001	Sample numb	er(s): 8744	1268-8744	287 UNSPK: 8	3744269					
Iron		N.D.	1.00	1.04	1.00	1.06	104	106	75-125	2	20
Lead		N.D.	0.150	0.152	0.150	0.160	101	107	75-125	5	20
Manganese		0.00222	0.500	0.515	0.500	0.521	103	104	75-125	1	20
Zinc		0.268	0.500	0.764	0.500	0.776	99	102	75-125	2	20
Batch number:	163501848002	Sample numb	er(s): 8744	1288 UNSF	K: P743510						
Iron		N.D.	1.00	1.06	1.00	1.03	106	103	75-125	4	20
Lead		N.D.	0.150	0.141	0.150	0.142	94	94	75-125	0	20
Manganese		0.00653	0.500	0.494	0.500	0.488	98	96	75-125	1	20
Zinc		N.D.	0.500	0.481	0.500	0.478	96	96	75-125	1	20

#### Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/l	DUP Conc mg/l	DUP RPD	DUP RPD Max
Batch number: 163501848001	Sample number(s):	8744268-8744287 BKG:	8744269	
Iron	N.D.	N.D.	0 (1)	20
Lead	N.D.	N.D.	0 (1)	20
Manganese	0.00222	0.00181	20 (1)	20
Zinc	0.268	0.266	1	20
Batch number: 163501848002	Sample number(s):	8744288 BKG: P743510	)	
Iron	N.D.	N.D.	0 (1)	20

<sup>\*-</sup> Outside of specification

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

<sup>\*\*-</sup>This limit was used in the evaluation of the final result for the blank

<sup>(1)</sup> The result for one or both determinations was less than five times the LOQ.

<sup>(2)</sup> The unspiked result was more than four times the spike added.



# Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

### Quality Control Summary

Client Name: Keating Environmental Mgmt Inc Group Number: 1744407

Reported: 12/19/2016 12:46

#### Laboratory Duplicate (continued)

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/l	DUP Conc mg/l	DUP RPD	DUP RPD Max
Lead	N.D.	N.D.	0 (1)	20
Manganese	0.00653	0.00683	4 (1)	20
Zinc	N.D.	N.D.	0 (1)	20
	N T U	NTU		
Batch number: 16349121451A Turbidity	Sample number(s): 8.29	8744288 BKG: P74305 8.03	8 3	8
Batch number: 16349121452A	Sample number(s): 1.24	8744268-8744274,874	4276-874427	8 BKG: 8744270
Turbidity		1.47	17* (1)	8
Batch number: 16349121452B	Sample number(s): 2.61	8744275,8744279-874	4287 BKG: 8	744275
Turbidity		2.68	3 (1)	8

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

<sup>\*-</sup> Outside of specification

<sup>\*\*-</sup>This limit was used in the evaluation of the final result for the blank

<sup>(1)</sup> The result for one or both determinations was less than five times the LOQ.

<sup>(2)</sup> The unspiked result was more than four times the spike added.

#### Environmental Analysis Request/Chain of Custody 1 of 3 👯 eurofins For Eurofins Lancaster Laboratories Environmental use only Acct. # 20318 Group # 7446 Sample #8744268 - 88 COC #516904 **Lancaster Laboratories** Environmental Client Information Matrix **Analysis Requested** For Lab Use Only Acct. #: Preservation Codes FSC: KEATING ENU. MyT. INC. SCR#: Surface PWSID #: Ground **Preservation Codes** H=HCI T=Thiosulfate P.O. #: N=HNO<sub>3</sub> B=NaOH 210 Total # of Containers N 0=Other S=H2SO4 Sediment Remarks NPDES Potable State where samples were collected: For Compliance: Composite No 🔀 Yes Water Collected Grab Soil Sample Identification Time Date 1020-01-KS-101-02 12/14/A 08:35 POTABLE X 1020-03-WC-102-02 06:10 020-03-WC-103-02 06:15 020-03-WC-104-62 06120 1020-02-WC-105-62 06130 1020-02-WC-106-02 06:35 1020-02- WC -107 -02 06:45 1020-01-WC-188-02 07:15 1020-01-WC-109-02 07:10 1020-01- WC-110-02 07:20 Relinguished by Received by Turnaround Time (TAT) Requested (please circle) 135 13:51 12-1411 Standard Rush Date Received by Time (Rush TAT is subject to laboratory approval and surcharge.) 12.14.16 Date results are needed: 3-day TAT Relinquished by Received by Date Time E-mail address: LIChOPERQUEMPARTNERS. COM Relinguished by Date Time Received by Date Time Data Package Options (circle if required)

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

If yes, format:

Relinguished by

Type VI (Raw Data Only)

TX TRRP-13

CT RCP

NJ DKQP

MA MCP

Type I (EPA Level 3

Equivalent/non-CLP)

Type III (Reduced non-CLP)

NYSDEC Category A or B

Site-Specific QC (MS/MSD/Dup)?

EDD Required? Yes (No)

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

FedEx

Temperature upon receipt 1.0-1.1

# Environmental Analysis Request/Chain of Custody

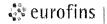
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Type III (Reduced non-CLP) NJ DKQP TX TRRP-13				EDD Required? Yes Relinquished by Commercial Carrier:  If yes, format: UPS FedEx Other																				
NYSDEC Category A or B MA MCP CT RCP				Site-Specific QC (MS/MSD/Dup)? Yes (If yes, indicate QC sample and submit triplicate sample volume.)							Tem	npera	perature upon receipt // O-/. / °C											

2 1 2

## Environmental Analysis Request/Chain of Custody

**eurofins** For Eurofins Lancaster Laboratories Environmental use only

Group # \_\_\_\_\_Sample # \_\_\_\_\_SU(4768-Acct. # 703(8 COC #516906 **Lancaster Laboratories** Environmental Client Information **Analysis Requested** Matrix For Lab Use Only Acct. #: **Preservation Codes** FSC: SCR#: Surface PWSID #: Ground **Preservation Codes** H=HCI T=Thiosulfate P.O. #; N=HNO<sub>3</sub> B=NaOH Total # of Containers O=Other S=H2SO4 Sediment | Quote #: Remarks Potable ' NPDES For Compliance: State where samples were collected: Composite Yes 🗌 No 🔽 Collected Water Grab Soil Sample Identification Time Date 1020-01-WC-120-02 12-14-16 06:50 TOTABLY \* 12-19-108:15 Rotable 1020-01-WC-121-02 Turnaround Time (TAT) Requested (please circle) Relinguished by Received by 12-14 13:52 1338 Standard Date Relinguished by Received by (Rush TAT is subject to laboratory approval and surcharge.) 12.14 m u Date results are needed: Relinquished by Date Received by Date Time E-mail address: Relinguished by Time Date Received by Date Time Data Package Options (circle if required) Relinguished by Type I (EPA Level 3 Type VI (Raw Data Only) Equivalent/non-CLP) EDD Required? Yes Relinquished by Commercial Carrier: Type III (Reduced non-CLP) NJ DKQP TX TRRP-13 If yes, format: **UPS** FedEx Other Site-Specific QC (MS/MSD/Dup)? Temperature upon receipt 1.0-NYSDEC Category A or B MA MCP CT RCP (If yes, indicate QC sample and submit triplicate sample volume.)



### Sample Administration Receipt Documentation Log

Doc Log ID:

170776

Group Number(s): \

Client: Keating Environment Mgt Inc

**Delivery and Receipt Information** 

**Delivery Method:** 

**ELLE Courier** 

Arrival Timestamp:

12/14/2016 16:22

Number of Packages:

<u>2</u>

Number of Projects:

State/Province of Origin:

PA

**Arrival Condition Summary** 

Shipping Container Sealed:

Yes

Sample IDs on COC match Containers:

Yes

**Custody Seal Present:** 

No

Sample Date/Times match COC:

No

Samples Chilled:

Yes

VOA Vial Headspace ≥ 6mm:

N/A

Paperwork Enclosed:

Yes

Total Trip Blank Qty:

0

Samples Intact:

Yes

Air Quality Samples Present:

No

Missing Samples:

No No

Extra Samples: Discrepancy in Container Qty on COC:

No

Unpacked by Cory Jeremiah (10469) at 17:33 on 12/14/2016

Samples Chilled Details

Thermometer Types:

DT = Digital (Temp. Bottle)

IR = Infrared (Surface Temp)

Comments

All Temperatures in °C.

Cooler#	Thermometer ID	Corrected Temp	Therm. Type	ice Type	Ice Present?	<u>Ice Container</u>	Elevated Temp?
1	DT146	1.0	DT	Wet	Υ	Bagged	N
2	DT146	1.1	DT	Wet	Υ	Bagged	N

Sample Date/Time Discrepancy Details

Sample ID on COC	Date/Time on Label
1020-01-KS-101-02	12/14/2016 08:25
1020-03-WC-102-02	wa wa
1020-03-WC-103-02	12/14/2016 06:10
1020-03-\WC-106-02	12/14/2016 06:55



## **Explanation of Symbols and Abbreviations**

The following defines common symbols and abbreviations used in reporting technical data:

**BMQL** Below Minimum Quantitation Level mq milligram(s) degrees Celsius mĹ milliliter(s) C cfu colony forming units MPN Most Probable Number **CP Units** cobalt-chloroplatinate units N.D. none detected F degrees Fahrenheit ng nanogram(s) nephelometric turbidity units gram(s) NTU g IU International Units pg/L picogram/liter kilogram(s) RLkg Reporting Limit **TNTC** liter(s) Too Numerous To Count pound(s) lb. microgram(s) μg μĹ microliter(s) m3 cubic meter(s) milliequivalents umhos/cm micromhos/cm meg

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight Besults printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an

as-received basis.

#### Laboratory Data Qualifiers:

B - Analyte detected in the blank

C - Result confirmed by reanalysis

E - Concentration exceeds the calibration range

J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)

P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.

U - Analyte was not detected at the value indicated

V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference...

W - The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.



## **Additional Data Qualifiers**

Qualifier	Definition
В	Detection in the Blank
Q0	LCS/LCSD Low
Q1	LCS/LCSD High
Q4	MS/MSD Out of Range
Q7	LCS/LCSD RPD
Q8	DUP RPD
Q9	MS/MSD RPD