

ENVIROSEARCH

CONSULTANTS, INC.

January 10, 2019

Ms. Angela Vianni
Brazos de Oro Children Foundation
c/o Mariana Bracetti Academy Charter School
1840 Torresdale Avenue
Philadelphia, Pennsylvania 19124

*Received
01/15/2020*

Reference: Lead Water Testing Results
Completed on November 27 & December 18, 2019
Mariana Bracetti Academy Charter School
1840 Torresdale Avenue
Philadelphia, Pennsylvania 19124

Dear Angela:

Envirosearch Consultants, Inc. (Envirosearch) is pleased to provide this letter that provides the analytical results for the water testing that was completed at the above-referenced property on November 27, 2019, and December 18, 2019. This water testing activities complies with the City of Philadelphia (COP) water testing program passed by Philadelphia City Council in Bill #160618. The bill was enacted on January 24, 2017, and the water testing is an amendment to Section A-703.1 of Title 4 of the Philadelphia Code. The amendment, identified as Special Certificate of Inspection, requires Philadelphia-based schools to provide testing results regarding the water quality of "drinking water outlets" as a condition of occupancy. In addition, the Code requires the testing of the "drinking water outlet" for lead in every school on a five-year cycle. The action level, as per this Code, is 10 parts per billion (ppb) of lead in water. This action level is more restrictive than the USEPA's recommended action level of 15 ppb.

1.0 SAMPLING SUMMARY

This letter report provides the water testing results completed on November 27, 2019 at the Mariana Bracetti Academy Charter School (MBACS), and the verification sampling completed on December 18, 2019.

On November 27, 2019, forty-eight (48) outlets (e.g. faucets, water fountain) at the school were sampled, and identified as DW-01 to DW-48. Based upon the initial results of the outlets classified as non-drinking water, Envirosearch recommended follow-up sampling to be conducted of three outlets (DW-33, DW-44 and DW-46) since it was identified that these outlets were low to no use faucets, the concentrations exceeded the COP action level of 10 ppb and the faucets were installed in 2012.

The 48 outlets were classified into three (3) categories and include the following:

- **Drinking Water Outlets:** Nineteen (19) faucets and/or water fountains were tested for the presence of lead. These 19 outlets have been identified for “consumptive use” by students and/or faculty at MBACS;
- **Potential-Drinking Water Outlets:** Seventeen (17) faucets were tested for the presence of lead. These 17 outlets are located in bathrooms throughout MBACS. Although it is understood that these outlets are for “hand-washing only,” Envirosearch sampled the water since the bathrooms are accessible to students and/or faculty, and not currently labeled and/or restricted by written policy;
- **Non-Drinking Water Outlets:** During the visual inspection of the areas in MBACS, 12 outlets were identified on the 4th Floor of the school in the science-based classrooms that had lab sinks. These classrooms are identified as Rooms # 416 (5 outlets) and #424 (7 outlets). It should be noted that it is school policy that due to the potential use of chemicals in the classrooms for science-based learning, the faucets are for hand-washing, eye-rinsing and experiments only. According to information provided to Envirosearch, these 12 faucets are also considered “low-use outlets.”

A description of the outlets sampled and their location are provided on Table 1.

The water samples were collected by Envirosearch, who are trained environmental professionals, in accordance with the USEPA published guidance for “Drinking Water Sample Collection.” The initial samples collected on November 27, 2019 were “first draw” samples, which represents water contained within the plumbing prior daily use and for a minimum of 6 hours.

The verification sampling that was conducted on December 18, 2019, consisted of “first draw” and “flush” samples. The “flush” sample is typically taken after letting the water from the outlet run cold, and is representative of the water supply from outside of the building’s plumbing system. As part of the verification sampling, Envirosearch collected the “flush” samples after a minimum of 1 minute of letting the water run cold. The verification samples were collected in the morning, prior to school hours. At the time of sampling, the on-site water supply had not been used since the school closed the previous day (e.g. >6 hours).

The water samples were collected in laboratory-supplied bottleware and preserved with Nitric Acid. The samples were placed on ice and transported to the Pennsylvania certified laboratory under standard chain of custody procedures. The samples collected during both sampling events were delivered to Test America on the same day collected. The initial samples (DW-01 through DW-48) and the verification samples (DW-33, DW-44, DW-46) were analyzed for Total Lead using USEPA Method 200.8 (ICP/MS).

2.0 FINDINGS

On November 27, 2019, 48 outlets were initially tested at MBACS, and of the 48 outlets tested, 45 of the outlets tested produced water that is below the COP action level for lead of 10 ppb. It should be noted that these 45 outlets also included the faucets in the bathrooms at MBACS.

- The analytical results for the **19 drinking water outlets** tested revealed no lead concentrations above the COP action level of 10 ppb.
- The analytical results for the 17 water outlets, classified as potential drinking water, revealed no lead concentrations above the COP action level of 10 ppb. These 17 outlets are located throughout the school and include the student, faculty and auditorium bathrooms.
- Three of the 12 non-drinking water outlets tested exhibited lead concentrations above the COP action level of 10 ppb. Of these three exceedances, two were below the USEPA action level of 15 ppb. These three outlets were resampled to verify the analytical results since the outlets not used on a routine basis in the classrooms.

The three (3) outlets sampled that revealed lead concentrations above the 10 ppb action level for lead were collected from the faucets located in the science/social studies classrooms, Rooms #416 (DW-33) and #424 (DW-44, DW-46). These three outlets are not used for “consumptive use” at the school, and are also classified as “low use” outlets since they are rarely used during the school-year. In fact, during the initial sample collection, Envirosearch had to remove books and boxes stored in and/or on-top of the sink basins

2.1 Follow-Up Verification Sampling of Non-Drinking Water Outlets / December 18, 2019

Due to the concentrations detected in the “first draw” samples of DW-33, DW-44, and DW-46, follow-up verification sampling was conducted to confirm the initial results collected from the three (3) low-use outlets. Envirosearch recommended that the faucets in the two classrooms be allowed to run for a minimum of 15 minutes prior to the follow-up verification sampling to ensure the samples would be representative of the actual water supply quality (since these faucets are rarely used during the school year).

Two days before conducting the verification sampling, the outlets in the two classrooms went through a “pre-stagnant flushing” by allowing the water to run for a minimum of 15 minutes, prior to Envirosearch’s re-sampling. The USEPA recommends that “pre-stagnant flushing” be conducted a minimum of 8 hours prior to sampling.

On December 18, 2019, Envirosearch completed the verification sampling prior to the start of the school day. Two drinking water samples were collected from each of the three outlets and are identified as “first –draw” and “flush” samples. Based on the analytical results of the verification sampling the following is provided:

- The analytical results for the 3 **non-drinking water outlets** sampled revealed that the concentrations of lead were below the COP action level of 10 ppb for both the first draw and flushed samples.
- Analytical testing indicates a significant decrease in lead concentrations in the three outlets between the November 27, 2019 and the December 18, 2019 sampling events.
- The decrease in lead concentrations in the follow-up sampling is attributed to the outlets being flushed two days prior to the sampling event. Prior to the November 27, 2019 sampling event, the outlets had been unused by the school.

2.2 Additional Information on Other Water Outlets

It should be noted, that the current school building was remodeled in 2012, and included the installation of a new water main leading from the street to the school, new plumbing throughout the interior of the school and new faucets.

The school cafeteria maintains four sinks that are labeled as “hand-washing only,” and does not have an ice machine. Custodial sinks are located on each floor and in the maintenance room. Since the four sinks are labeled and the custodial sinks have restricted access, these outlets were not sampled.

Copies of the analytical data reports are provided in Attachments 1 and 2, and the results for both sampling events are also provided on Table 1.

3.0 CONCLUSIONS & RECOMMENDATIONS

Based on the analytical results of the two water testing events, Envirosearch has the following recommendations:

Drinking Water Outlets / 19 Faucets & Water Fountains

- Based on the analytical results for the 19 outlets used for “consumptive use,” the next COP required sampling event would be five (5) years from the initial sampling event (on or before November 28, 2024).
- The 19 drinking water outlets should be marked with the Sample ID to ensure consistency with future sampling events.

Potential Drinking Water Outlets / Seventeen (17) Faucets

- Although these water outlets tested below the COP action level, Envirosearch recommends MBACS to determine if these outlets are to be classified as drinking water or non-drinking water outlets. Since the outlets are located in bathrooms, it is assumed that the water is for non-consumptive use. However, based on the MBACS' classification, additional work may be required that includes the following:
 - If the 17 outlets are to be used for "consumptive uses" the outlets should be labeled with the sample location ID, and included in the next sampling event.
 - If the 17 outlets are to be classified as non-drinking water outlets (for non-consumptive use), then the locations of the outlets should be clearly labeled "for hand washing only."

Non-Drinking Water Outlets / 12 Faucets in Classrooms (Rooms #416 & #424)

- The 12 non-drinking water outlets should be clearly labeled "for hand washing only."
- If these 12 non-drinking water outlets are not planned for future use, the outlets could be temporarily shut-off or capped.

Custodial Room Outlets

- These outlets should be clearly labeled "not for drinking water."

Posting of Analytical Results for Water Testing

- This report should be forwarded to the COP Health Department, as well as posted on the MBACS website in accordance with the COP ordinance. A hard copy should be made readily available in the main office.

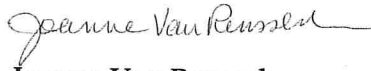
Sampling & Maintenance Plan for Water Testing

- Envirosearch recommends that a sampling plan be prepared by MBACS that details the outlet locations, instructions on sampling requirements, review of water use at the school, flushing protocols and other general procedures and/or activities relating to drinking water at the school. As part of this Plan, logs will be developed that easily identify the general maintenance activities associated with the drinking and non-drinking water outlets.

January 10, 2020

Envirosearch appreciates the opportunity to provide environmental testing services. If you have questions concerning this letter report, please contact me at (215) 850-8444 (cell).

Sincerely,
ENVIROSEARCH CONSULTANTS, INC.



Joanne Van Rensselaer
Principal

Table 1 - Analytical Results for Water Testing of Consumptive & Non-Consumptive Water Outlets
Attachment 1 Analytical Data Report for November 27, 2019 Sampling Event
Attachment 2 Analytical Data Report for December 18, 2019 Sampling Event

TABLE 1

TABLE 1
ANALYTICAL RESULTS FOR WATER TESTING OF CONSUMPTION & NON-CONSUMPTION WATER OUTLETS
Marianna Bracetti Academy
1840 Torresdale Avenue, Philadelphia PA 19124
Sampling Events: November 27, 2019 & December 18, 2019

DRINKING WATER OUTLET SAMPLE ID	SAMPLING DATE	OUTLET TYPE	FLOOR	OUTLET DESCRIPTION	WATER-USE DESCRIPTION	LEAD RESULTS (ppb)	METHOD DETECTION LIMIT (ppb)	REPORTING LIMIT (ppb)	COP ACTION LEVEL (ppb)	USEPA ACTION LEVEL (ppb)	RESULTS / RECOMMENDATION	
DW-01	11/27/19	Water Fountain	1st	Cafeteria Water Fountain	Drinking Water	0.064	0.053	2	10	15	BA	R1
DW-02	11/27/19	Faucet	1st	Boys Bathroom Sink (Near Rm #5)	Potential Drinking Water *	0.098	0.053	2	10	15	BA	R2
DW-03	11/27/19	Faucet	1st	Girls Bathroom Sink (Near Rm #5)	Potential Drinking Water *	0.15	0.053	2	10	15	BA	R2
DW-04	11/27/19	Faucet	1st	Cafeteria Food Prep Area Sink	Drinking Water	0.94	0.053	2	10	15	BA	R1
DW-05	11/27/19	Faucet	1st	Cafeteria Food Prep & Cleanup Area / Sink	Drinking Water	0.32	0.053	2	10	15	BA	R1
DW-06	11/27/19	Faucet	1st	Staff Bathroom Sink Near Rm #11 - Code Accessible Room	Drinking Water	0.16	0.053	2	10	15	BA	R1
DW-07	11/27/19	Faucet	1st	Girls Bathroom Sink near Cafeteria	Potential Drinking Water *	0.13	0.053	2	10	15	BA	R2
DW-08	11/27/19	Water Fountain	1st	Gymnasium - Outside of Entrance Doors (left)	Drinking Water	<0.053	0.053	2	10	15	BA	R1
DW-09	11/27/19	Water Fountain	1st	Gymnasium - Inside of Entrance	Drinking Water	<0.053	0.053	2	10	15	BA	R1
DW-10	11/27/19	Water Fountain	1st	Gymnasium - Inside Near Hallway	Drinking Water	<0.053	0.053	2	10	15	BA	R1
DW-11	11/27/19	Faucet	1st	Boys Bathroom Sink (Near Rm #109)	Potential Drinking Water *	0.81	0.053	2	10	15	BA	R2
DW-12	11/27/19	Faucet	1st	Art Room #103	Drinking Water	0.2	0.053	2	10	15	BA	R2
DW-13	11/27/19	Faucet	1st	Nurse's Bathroom Rm. #104	Drinking Water	0.46	0.053	2	10	15	BA	R1
DW-14	11/27/19	Faucet	2nd	Kindergarten Bathroom off of stairs	Potential Drinking Water *	0.07	0.053	2	10	15	BA	R2

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Sampling Events: November 27, 2019 & December 18, 2019

DRINKING WATER OUTLET SAMPLE ID	SAMPLING DATE	OUTLET TYPE	FLOOR	OUTLET DESCRIPTION	WATER-USE DESCRIPTION	LEAD RESULTS (ppb)	METHOD DETECTION LIMIT (ppb)	REPORTING LIMIT (ppb)	COP ACTION LEVEL (ppb)	USEPA ACTION LEVEL (ppb)	RESULTS / RECOMMENDATION	
DW-15	11/27/19	Water Fountain	2nd	Kindergarten Area of Floor	Drinking Water	0.12	0.053	2	10	15	BA	R1
DW-16	11/27/19	Faucet	2nd	Girls Bathroom Sink Opposite Rm #203	Potential Drinking Water *	0.14	0.053	2	10	15	BA	R2
DW-17	11/27/19	Faucet	2nd	Boys Bathroom Sink Opposite Main Office	Potential Drinking Water *	0.29	0.053	2	10	15	BA	R2
DW-18	11/27/19	Faucet	2nd	Auditorium Bathroom, Left side of Stage	Potential Drinking Water *	0.085	0.053	2	10	15	BA	R2
DW-19	11/27/19	Faucet	2nd	Auditorium Bathroom, Right side of Stage	Potential Drinking Water *	0.24	0.053	2	10	15	BA	R2
DW-20	11/27/19	Faucet	2nd	Kindergarten Bathroom Opposite Rm. #215 & Near Main Office	Potential Drinking Water *	0.24	0.053	2	10	15	BA	R2
DW-21	11/27/19	Faucet	2nd	Room #215 Sink	Drinking Water	0.18	0.053	2	10	15	BA	R1
DW-22	11/27/19	Water Fountain	2nd	Opposite Rm. #219	Drinking Water	0.076	0.053	2	10	15	BA	R1
DW-23	11/27/19	Faucet	2nd	Staff Bathroom Near Annex	Potential Drinking Water *	0.091	0.053	2	10	15	BA	R2
DW-24	11/27/19	Faucet	3rd	Boys Bathroom (opposite Lockers #969 & #970)	Potential Drinking Water *	0.32	0.053	2	10	15	BA	R2
DW-25	11/27/19	Water Fountain	3rd	Next to Boys Bathroom (opposite Lockers #969 & #970)	Drinking Water	0.21	0.053	2	10	15	BA	R1
DW-26	11/27/19	Water Fountain	3rd	Opposite Rm. # 303 & Lockers #715 & #717	Drinking Water	0.072	0.053	2	10	15	BA	R1
DW-27	11/27/19	Faucet	3rd	Girls Bathroom Near Stairs "A" & Opposite Locker #695	Potential Drinking Water *	0.31	0.053	2	10	15	BA	R2

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DRINKING WATER OUTLET SAMPLE ID	SAMPLING DATE	OUTLET TYPE	FLOOR	OUTLET DESCRIPTION	WATER-USE DESCRIPTION	LEAD RESULTS (ppb)	METHOD DETECTION LIMIT (ppb)	REPORTING LIMIT (ppb)	COP ACTION LEVEL (ppb)	USEPA ACTION LEVEL (ppb)	RESULTS / RECOMMENDATION	
DW-28	11/27/19	Faucet	3rd	Staff Bathroom Next to Rm. #301 (Code Accessible Room)	Potential Drinking Water *	0.066	0.053	2	10	15	BA	R2
DW-29	11/27/19	Faucet	4th	Staff Bathroom Opposite Rm. #400 (Code Accessible Room)	Potential Drinking Water *	0.061	0.053	2	10	15	BA	R2
DW-30	11/27/19	Faucet	4th	Girls Bathroom (opposite Lockers #1073-1089)	Potential Drinking Water *	0.075	0.053	2	10	15	BA	R2
DW-31	11/27/19	Water Fountain	4th	Opposite Rm. # 405	Drinking Water	0.11	0.053	2	10	15	BA	R1
DW-32	11/27/19	Faucet	4th	Room #416 / Science & Chemistry Classroom & Lab Sinks	Non-Drinking Water**	0.78	0.053	2	10	15	BA	R2
DW-33	11/27/19	Faucet	4th	Room #416 / Science & Chemistry Classroom & Lab Sinks	Non-Drinking Water**	22.6	0.053	2	10	15	AAL	R2
DW-33 FD	12/18/2019 ***					5.6	0.053	2	10	15	BA	R2
DW-33 F	12/18/2019 ***					1	0.053	2	10	15	BA	R2
DW-34	11/27/19	Faucet	4th	Room #416 / Science & Chemistry Classroom & Lab Sinks	Non-Drinking Water**	0.32	0.053	2	10	15	BA	R2
DW-35	11/27/19	Faucet	4th	Room #416 / Science & Chemistry Classroom & Lab Sinks	Non-Drinking Water**	0.99	0.053	2	10	15	BA	R2
DW-36	11/27/19	Faucet	4th	Room #416 / Science & Chemistry Classroom & Lab Sinks	Non-Drinking Water**	0.94	0.053	2	10	15	BA	R2
DW-37	11/27/19	Faucet	4th	Room #418 Sink	Drinking Water	0.14	0.053	2	10	15	BA	R1
DW-38	11/27/19	Water Fountain	4th	Opposite Rm. #419	Drinking Water	0.17	0.053	2	10	15	BA	R1
DW-39	11/27/19	Faucet	4th	Boys Bathroom Near Stairs "D"	Potential Drinking Water *	0.062	0.053	2	10	15	BA	R2

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DW-40	11/27/19	Faucet	4th	Room #422 Sink	Drinking Water	0.27	0.053	2	10	15	BA	R1
DW-41	11/27/19	Faucet	4th	Room #423 Sink	Drinking Water	2	0.053	2	10	15	BA	R1
DW-42	11/27/19	Faucet	4th	Room #424 / Social Studies Classroom with Lab Sinks	Non-Drinking Water**	0.94	0.053	2	10	15	BA	R2
DW-43	11/27/19	Faucet	4th	Room #424 / Social Studies Classroom with Lab Sinks	Non-Drinking Water**	5.2	0.053	2	10	15	BA	R2
DW-44	11/27/19	Faucet	4th	Room #424 / Social Studies Classroom with Lab Sinks	Non-Drinking Water**	13.9	0.053	2	10	15	AAL	R2
DW-44 FD	12/18/2019 ***					0.65	0.053	2	10	15	BA	R2
DW-44 F	12/18/2019 ***					0.6	0.053	2	10	15	BA	R2
DW-45	11/27/19	Faucet	4th	Room #424 / Social Studies Classroom with Lab Sinks	Non-Drinking Water**	1.2	0.053	2	10	15	BA	R2
DW-46	11/27/19	Faucet	4th	Room #424 / Social Studies Classroom with Lab Sinks	Non-Drinking Water**	11.3	0.053	2	10	15	AAL	R2
DW-46 FD	12/18/2019 ***					1.1	0.053	2	10	15	BA	R2
DW-46 F	12/18/2019 ***					0.55	0.053	2	10	15	BA	R2
DW-47	11/27/19	Faucet	4th	Room #424 / Social Studies Classroom with Lab Sinks	Non-Drinking Water**	2.6	0.053	2	10	15	BA	R2
DW-48	11/27/19	Faucet	4th	Room #424 / Social Studies Classroom with Lab Sink @ Teacher's Desk	Non-Drinking Water**	2.1	0.053	2	10	15	BA	R2

* - Classified for initial sampling as a potential drinking water source since accessible to students and faculty, but not currently labeled or use-restricted by written policy.

** - Considered a non-drinking water outlet since located in a science lab-based classroom where water is restricted for hand/eye washing & experiments only. However, since the outlets are not labeled they were included in the initial sampling.

*** - December 18, 2019 Verification Sampling Event that included follow-up sampling to collect First Draw & Flush water samples from the non-drinking water outlets that revealed lead concentration above the COP action level.

R1: Sampling required within 5 years from initial test.

R2: No Follow-up sampling required if outlet is to remain as a non-consumptive use outlet and subsequently labeled "not for drinking" and/or "hand washing only."

BA: Below Action Level set by COP of 10 parts per billion (ppb)

AAL: Above Action Level set by City of Philadelphia Ordinance A-703.1 of 10 parts per billion (ppb)

COP: City of Philadelphia

FD: First Draw Water Sample

F: Flush Water Sample

: Highlighted area denotes water outlet was sampled as part of the Initial and Verification Sampling Events.

ATTACHMENT 1 - ANALYTICAL RESULTS

INITIAL SAMPLING 11/27/2019

ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-197664-1
Client Project/Site: MB, Philadelphia

For:
Envirosearch Consultants Inc
PO BOX 940
Springhouse, Pennsylvania 19477

Attn: Tom Hippensteal



Authorized for release by:
12/10/2019 5:45:01 PM

Jill Miller, Senior Project Manager
(484)685-0871
jill.miller@testamericainc.com

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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.



Table of Contents

Cover Page	1
Table of Contents	2
Sample Summary	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Lab Chronicle	13
Certification Summary	21
Method Summary	22
Chain of Custody	23
Receipt Checklists	33

Sample Summary

Client: Envirosearch Consultants Inc
 Project/Site: MB, Philadelphia

Job ID: 460-197664-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-197664-1	DW 01	Water	11/27/19 06:20	11/27/19 12:35	
460-197664-2	DW 02	Water	11/27/19 06:22	11/27/19 12:35	
460-197664-3	DW 03	Water	11/27/19 06:25	11/27/19 12:35	
460-197664-4	DW 04	Water	11/27/19 06:30	11/27/19 12:35	
460-197664-5	DW 05	Water	11/27/19 06:33	11/27/19 12:35	
460-197664-6	DW 06	Water	11/27/19 06:40	11/27/19 12:35	
460-197664-7	DW 07	Water	11/27/19 06:41	11/27/19 12:35	
460-197664-8	DW 08	Water	11/27/19 06:52	11/27/19 12:35	
460-197664-9	DW 09	Water	11/27/19 06:54	11/27/19 12:35	
460-197664-10	DW 10	Water	11/27/19 06:57	11/27/19 12:35	
460-197664-11	DW 11	Water	11/27/19 07:00	11/27/19 12:35	
460-197664-12	DW 12	Water	11/27/19 07:01	11/27/19 12:35	
460-197664-13	DW 13	Water	11/27/19 07:05	11/27/19 12:35	
460-197664-14	DW 14	Water	11/27/19 07:06	11/27/19 12:35	
460-197664-15	DW 15	Water	11/27/19 07:09	11/27/19 12:35	
460-197664-16	DW 16	Water	11/27/19 07:11	11/27/19 12:35	
460-197664-17	DW 17	Water	11/27/19 07:15	11/27/19 12:35	
460-197664-18	DW 18	Water	11/27/19 07:16	11/27/19 12:35	
460-197664-19	DW 19	Water	11/27/19 07:20	11/27/19 12:35	
460-197664-20	DW 20	Water	11/27/19 07:21	11/27/19 12:35	
460-197664-21	DW 21	Water	11/27/19 07:32	11/27/19 12:35	
460-197664-22	DW 22	Water	11/27/19 07:33	11/27/19 12:35	
460-197664-23	DW 23	Water	11/27/19 07:36	11/27/19 12:35	
460-197664-24	DW 24	Water	11/27/19 07:37	11/27/19 12:35	
460-197664-25	DW 25	Water	11/27/19 07:40	11/27/19 12:35	
460-197664-26	DW 26	Water	11/27/19 07:41	11/27/19 12:35	
460-197664-27	DW 27	Water	11/27/19 07:42	11/27/19 12:35	
460-197664-28	DW 28	Water	11/27/19 07:43	11/27/19 12:35	
460-197664-29	DW 29	Water	11/27/19 07:45	11/27/19 12:35	
460-197664-30	DW 30	Water	11/27/19 07:45	11/27/19 12:35	
460-197664-31	DW 31	Water	11/27/19 07:45	11/27/19 12:35	
460-197664-32	DW 32	Water	11/27/19 07:46	11/27/19 12:35	
460-197664-33	DW 33	Water	11/27/19 07:47	11/27/19 12:35	
460-197664-34	DW 34	Water	11/27/19 07:48	11/27/19 12:35	
460-197664-35	DW 35	Water	11/27/19 07:48	11/27/19 12:35	
460-197664-36	DW 36	Water	11/27/19 07:49	11/27/19 12:35	
460-197664-37	DW 37	Water	11/27/19 07:50	11/27/19 12:35	
460-197664-38	DW 38	Water	11/27/19 07:50	11/27/19 12:35	
460-197664-39	DW 39	Water	11/27/19 07:51	11/27/19 12:35	
460-197664-40	DW 40	Water	11/27/19 07:51	11/27/19 12:35	
460-197664-41	DW 41	Water	11/27/19 08:01	11/27/19 12:35	
460-197664-42	DW 42	Water	11/27/19 08:01	11/27/19 12:35	
460-197664-43	DW 43	Water	11/27/19 08:01	11/27/19 12:35	
460-197664-44	DW 44	Water	11/27/19 08:02	11/27/19 12:35	
460-197664-45	DW 45	Water	11/27/19 08:02	11/27/19 12:35	
460-197664-46	DW 46	Water	11/27/19 08:02	11/27/19 12:35	
460-197664-47	DW 47	Water	11/27/19 08:04	11/27/19 12:35	
460-197664-48	DW 48	Water	11/27/19 08:04	11/27/19 12:35	



Definitions/Glossary

Client: Envirosearch Consultants Inc
Project/Site: MB, Philadelphia

Job ID: 460-197664-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Envirosearch Consultants Inc
Project/Site: MB, Philadelphia

Job ID: 460-197664-1

Job ID: 460-197664-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

Job Narrative
460-197664-1

Comments

No additional comments.

Receipt

The samples were received on 11/27/2019 12:35 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3° C.

Receipt Exceptions

Sample DW48 has 48 written on lid and DW51 on label.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



Client Sample Results

Client: Envirosearch Consultants Inc
Project/Site: MB, Philadelphia

Job ID: 460-197664-1

Client Sample ID: DW 01

Date Collected: 11/27/19 06:20

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-1

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.064	J	2.0	0.053	ug/L		12/02/19 16:14	12/02/19 16:41	1

Client Sample ID: DW 02

Date Collected: 11/27/19 06:22

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-2

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.098	J	2.0	0.053	ug/L		12/02/19 16:14	12/02/19 16:44	1

Client Sample ID: DW 03

Date Collected: 11/27/19 06:25

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-3

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.15	J	2.0	0.053	ug/L		12/02/19 16:14	12/02/19 16:47	1

Client Sample ID: DW 04

Date Collected: 11/27/19 06:30

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-4

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.094	J	2.0	0.053	ug/L		12/02/19 16:14	12/02/19 16:48	1

Client Sample ID: DW 05

Date Collected: 11/27/19 06:33

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-5

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.32	J	2.0	0.053	ug/L		12/02/19 16:14	12/02/19 16:52	1

Client Sample ID: DW 06

Date Collected: 11/27/19 06:40

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-6

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.16	J	2.0	0.053	ug/L		12/02/19 16:14	12/02/19 16:54	1

Client Sample ID: DW 07

Date Collected: 11/27/19 06:41

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-7

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.13	J	2.0	0.053	ug/L		12/02/19 16:14	12/02/19 16:55	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: Envirosearch Consultants Inc
Project/Site: MB, Philadelphia

Job ID: 460-197664-1

Client Sample ID: DW 08

Date Collected: 11/27/19 06:52

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-8

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.053	U	2.0	0.053	ug/L		12/02/19 16:14	12/02/19 16:58	1

Client Sample ID: DW 09

Date Collected: 11/27/19 06:54

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-9

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.053	U	2.0	0.053	ug/L		12/02/19 16:14	12/02/19 16:58	1

Client Sample ID: DW 10

Date Collected: 11/27/19 06:57

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-10

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.053	U	2.0	0.053	ug/L		12/02/19 16:14	12/02/19 16:59	1

Client Sample ID: DW 11

Date Collected: 11/27/19 07:00

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-11

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.81	J	2.0	0.053	ug/L		12/02/19 16:14	12/02/19 17:01	1

Client Sample ID: DW 12

Date Collected: 11/27/19 07:01

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-12

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.20	J	2.0	0.053	ug/L		12/02/19 16:14	12/02/19 17:02	1

Client Sample ID: DW 13

Date Collected: 11/27/19 07:05

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-13

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.46	J	2.0	0.053	ug/L		12/02/19 16:14	12/02/19 17:03	1

Client Sample ID: DW 14

Date Collected: 11/27/19 07:06

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-14

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.070	J	2.0	0.053	ug/L		12/02/19 16:14	12/02/19 17:05	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: Envirosearch Consultants Inc
Project/Site: MB, Philadelphia

Job ID: 460-197664-1

Client Sample ID: DW 15

Date Collected: 11/27/19 07:09
Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-15

Matrix: Water

Method: 200.8 - Metals (ICP/MS)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Lead	0.12	J	2.0	0.053	ug/L	-	12/02/19 16:14	12/02/19 17:09	1	

Client Sample ID: DW 16

Date Collected: 11/27/19 07:11
Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-16

Matrix: Water

Method: 200.8 - Metals (ICP/MS)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Lead	0.14	J	2.0	0.053	ug/L	-	12/02/19 16:14	12/02/19 17:10	1	

Client Sample ID: DW 17

Date Collected: 11/27/19 07:15
Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-17

Matrix: Water

Method: 200.8 - Metals (ICP/MS)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Lead	0.29	J	2.0	0.053	ug/L	-	12/02/19 16:14	12/02/19 17:12	1	

Client Sample ID: DW 18

Date Collected: 11/27/19 07:16
Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-18

Matrix: Water

Method: 200.8 - Metals (ICP/MS)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Lead	0.085	J	2.0	0.053	ug/L	-	12/02/19 16:14	12/02/19 17:13	1	

Client Sample ID: DW 19

Date Collected: 11/27/19 07:20
Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-19

Matrix: Water

Method: 200.8 - Metals (ICP/MS)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Lead	0.24	J	2.0	0.053	ug/L	-	12/02/19 16:14	12/02/19 17:14	1	

Client Sample ID: DW 20

Date Collected: 11/27/19 07:21
Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-20

Matrix: Water

Method: 200.8 - Metals (ICP/MS)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Lead	0.24	J	2.0	0.053	ug/L	-	12/02/19 16:14	12/02/19 17:16	1	

Client Sample ID: DW 21

Date Collected: 11/27/19 07:32
Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-21

Matrix: Water

Method: 200.8 - Metals (ICP/MS)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Lead	0.18	J	2.0	0.053	ug/L	-	12/02/19 16:49	12/02/19 17:25	1	

Client Sample Results

Client: Envirosearch Consultants Inc
Project/Site: MB, Philadelphia

Job ID: 460-197664-1

Client Sample ID: DW 22

Date Collected: 11/27/19 07:33

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-22

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.076	J	2.0	0.053	ug/L		12/02/19 16:49	12/02/19 17:28	1

Client Sample ID: DW 23

Date Collected: 11/27/19 07:36

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-23

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.091	J	2.0	0.053	ug/L		12/02/19 16:49	12/02/19 17:31	1

Client Sample ID: DW 24

Date Collected: 11/27/19 07:37

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-24

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.32	J	2.0	0.053	ug/L		12/02/19 16:49	12/02/19 17:32	1

Client Sample ID: DW 25

Date Collected: 11/27/19 07:40

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-25

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.21	J	2.0	0.053	ug/L		12/02/19 16:49	12/02/19 17:37	1

Client Sample ID: DW 26

Date Collected: 11/27/19 07:41

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-26

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.072	J	2.0	0.053	ug/L		12/02/19 16:49	12/02/19 17:38	1

Client Sample ID: DW 27

Date Collected: 11/27/19 07:42

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-27

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.31	J	2.0	0.053	ug/L		12/02/19 16:49	12/02/19 17:39	1

Client Sample ID: DW 28

Date Collected: 11/27/19 07:43

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-28

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.066	J	2.0	0.053	ug/L		12/02/19 16:49	12/02/19 17:41	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: Envirosearch Consultants Inc
Project/Site: MB, Philadelphia

Job ID: 460-197664-1

Client Sample ID: DW 29

Date Collected: 11/27/19 07:45

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-29

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.061	J	2.0	0.053	ug/L		12/02/19 16:49	12/02/19 17:42	1

Client Sample ID: DW 30

Date Collected: 11/27/19 07:45

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-30

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.075	J	2.0	0.053	ug/L		12/02/19 16:49	12/02/19 17:43	1

Client Sample ID: DW 31

Date Collected: 11/27/19 07:45

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-31

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.11	J	2.0	0.053	ug/L		12/02/19 16:49	12/02/19 17:45	1

Client Sample ID: DW 32

Date Collected: 11/27/19 07:46

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-32

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.78	J	2.0	0.053	ug/L		12/02/19 16:49	12/02/19 17:46	1

Client Sample ID: DW 33

Date Collected: 11/27/19 07:47

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-33

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	22.6		2.0	0.053	ug/L		12/05/19 09:50	12/10/19 16:52	1

Client Sample ID: DW 34

Date Collected: 11/27/19 07:48

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-34

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.32	J	2.0	0.053	ug/L		12/02/19 16:49	12/02/19 17:49	1

Client Sample ID: DW 35

Date Collected: 11/27/19 07:48

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-35

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.99	J	2.0	0.053	ug/L		12/02/19 16:49	12/02/19 17:53	1

Client Sample Results

Client: Envirosearch Consultants Inc
Project/Site: MB, Philadelphia

Job ID: 460-197664-1

Client Sample ID: DW 36

Date Collected: 11/27/19 07:49

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-36

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.94	J	2.0	0.053	ug/L		12/02/19 16:49	12/02/19 17:55	1

Client Sample ID: DW 37

Date Collected: 11/27/19 07:50

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-37

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.14	J	2.0	0.053	ug/L		12/02/19 16:49	12/02/19 17:56	1

Client Sample ID: DW 38

Date Collected: 11/27/19 07:50

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-38

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.17	J	2.0	0.053	ug/L		12/02/19 16:49	12/02/19 17:57	1

Client Sample ID: DW 39

Date Collected: 11/27/19 07:51

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-39

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.062	J	2.0	0.053	ug/L		12/02/19 16:49	12/02/19 17:59	1

Client Sample ID: DW 40

Date Collected: 11/27/19 07:51

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-40

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.27	J	2.0	0.053	ug/L		12/02/19 16:49	12/02/19 18:00	1

Client Sample ID: DW 41

Date Collected: 11/27/19 08:01

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-41

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.0	J	2.0	0.053	ug/L		12/02/19 13:55	12/02/19 18:04	1

Client Sample ID: DW 42

Date Collected: 11/27/19 08:01

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-42

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.94	J	2.0	0.053	ug/L		12/02/19 13:55	12/02/19 18:07	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: Envirosearch Consultants Inc
Project/Site: MB, Philadelphia

Job ID: 460-197664-1

Client Sample ID: DW 43

Date Collected: 11/27/19 08:01

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-43

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.2		2.0	0.053	ug/L		12/02/19 13:55	12/02/19 18:08	1

Client Sample ID: DW 44

Date Collected: 11/27/19 08:02

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-44

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	13.9		2.0	0.053	ug/L		12/02/19 13:55	12/02/19 18:10	1

Client Sample ID: DW 45

Date Collected: 11/27/19 08:02

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-45

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.2	J	2.0	0.053	ug/L		12/02/19 13:55	12/02/19 18:11	1

Client Sample ID: DW 46

Date Collected: 11/27/19 08:02

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-46

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11.3		2.0	0.053	ug/L		12/02/19 13:55	12/02/19 18:13	1

Client Sample ID: DW 47

Date Collected: 11/27/19 08:04

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-47

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.6		2.0	0.053	ug/L		12/02/19 13:55	12/02/19 18:14	1

Client Sample ID: DW 48

Date Collected: 11/27/19 08:04

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-48

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.1		2.0	0.053	ug/L		12/02/19 13:55	12/02/19 18:15	1

Lab Chronicle

Client: Envirosearch Consultants Inc
Project/Site: MB, Philadelphia

Job ID: 460-197664-1

Client Sample ID: DW 01

Date Collected: 11/27/19 06:20

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659547	12/02/19 16:14	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 16:41	DLE	TAL EDI

Client Sample ID: DW 02

Date Collected: 11/27/19 06:22

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659547	12/02/19 16:14	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 16:44	DLE	TAL EDI

Client Sample ID: DW 03

Date Collected: 11/27/19 06:25

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659547	12/02/19 16:14	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 16:47	DLE	TAL EDI

Client Sample ID: DW 04

Date Collected: 11/27/19 06:30

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659547	12/02/19 16:14	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 16:48	DLE	TAL EDI

Client Sample ID: DW 05

Date Collected: 11/27/19 06:33

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659547	12/02/19 16:14	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 16:52	DLE	TAL EDI

Client Sample ID: DW 06

Date Collected: 11/27/19 06:40

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659547	12/02/19 16:14	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 16:54	DLE	TAL EDI

Eurofins TestAmerica, Edison

Lab Chronicle

Client: Envirosearch Consultants Inc
Project/Site: MB, Philadelphia

Job ID: 460-197664-1

Client Sample ID: DW 07

Date Collected: 11/27/19 06:41

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659547	12/02/19 16:14	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 16:55	DLE	TAL EDI

Client Sample ID: DW 08

Date Collected: 11/27/19 06:52

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659547	12/02/19 16:14	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 16:56	DLE	TAL EDI

Client Sample ID: DW 09

Date Collected: 11/27/19 06:54

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659547	12/02/19 16:14	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 16:58	DLE	TAL EDI

Client Sample ID: DW 10

Date Collected: 11/27/19 06:57

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659547	12/02/19 16:14	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 16:59	DLE	TAL EDI

Client Sample ID: DW 11

Date Collected: 11/27/19 07:00

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659547	12/02/19 16:14	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 17:01	DLE	TAL EDI

Client Sample ID: DW 12

Date Collected: 11/27/19 07:01

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659547	12/02/19 16:14	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 17:02	DLE	TAL EDI

Lab Chronicle

Client: Envirosearch Consultants Inc
Project/Site: MB, Philadelphia

Job ID: 460-197664-1

Client Sample ID: DW 13

Date Collected: 11/27/19 07:05

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659547	12/02/19 16:14	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 17:03	DLE	TAL EDI

Client Sample ID: DW 14

Date Collected: 11/27/19 07:06

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659547	12/02/19 16:14	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 17:05	DLE	TAL EDI

Client Sample ID: DW 15

Date Collected: 11/27/19 07:09

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659547	12/02/19 16:14	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 17:09	DLE	TAL EDI

Client Sample ID: DW 16

Date Collected: 11/27/19 07:11

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659547	12/02/19 16:14	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 17:10	DLE	TAL EDI

Client Sample ID: DW 17

Date Collected: 11/27/19 07:15

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659547	12/02/19 16:14	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 17:12	DLE	TAL EDI

Client Sample ID: DW 18

Date Collected: 11/27/19 07:16

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659547	12/02/19 16:14	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 17:13	DLE	TAL EDI

Lab Chronicle

Client: Envirosearch Consultants Inc
Project/Site: MB, Philadelphia

Job ID: 460-197664-1

Client Sample ID: DW 19

Date Collected: 11/27/19 07:20

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659547	12/02/19 16:14	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 17:14	DLE	TAL EDI

Client Sample ID: DW 20

Date Collected: 11/27/19 07:21

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-20

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659547	12/02/19 16:14	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 17:16	DLE	TAL EDI

Client Sample ID: DW 21

Date Collected: 11/27/19 07:32

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-21

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659549	12/02/19 16:49	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 17:25	DLE	TAL EDI

Client Sample ID: DW 22

Date Collected: 11/27/19 07:33

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-22

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659549	12/02/19 16:49	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 17:28	DLE	TAL EDI

Client Sample ID: DW 23

Date Collected: 11/27/19 07:36

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-23

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659549	12/02/19 16:49	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 17:31	DLE	TAL EDI

Client Sample ID: DW 24

Date Collected: 11/27/19 07:37

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-24

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659549	12/02/19 16:49	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 17:32	DLE	TAL EDI

Lab Chronicle

Client: Envirosearch Consultants Inc
Project/Site: MB, Philadelphia

Job ID: 460-197664-1

Client Sample ID: DW 25

Date Collected: 11/27/19 07:40

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-25

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659549	12/02/19 16:49	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 17:37	DLE	TAL EDI

Client Sample ID: DW 26

Date Collected: 11/27/19 07:41

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-26

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659549	12/02/19 16:49	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 17:38	DLE	TAL EDI

Client Sample ID: DW 27

Date Collected: 11/27/19 07:42

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-27

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659549	12/02/19 16:49	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 17:39	DLE	TAL EDI

Client Sample ID: DW 28

Date Collected: 11/27/19 07:43

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-28

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659549	12/02/19 16:49	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 17:41	DLE	TAL EDI

Client Sample ID: DW 29

Date Collected: 11/27/19 07:45

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-29

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659549	12/02/19 16:49	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 17:42	DLE	TAL EDI

Client Sample ID: DW 30

Date Collected: 11/27/19 07:45

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659549	12/02/19 16:49	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 17:43	DLE	TAL EDI

Lab Chronicle

Client: Envirosearch Consultants Inc
Project/Site: MB, Philadelphia

Job ID: 460-197664-1

Client Sample ID: DW 31

Date Collected: 11/27/19 07:45

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-31

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659549	12/02/19 16:49	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 17:45	DLE	TAL EDI

Client Sample ID: DW 32

Date Collected: 11/27/19 07:46

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-32

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659549	12/02/19 16:49	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 17:46	DLE	TAL EDI

Client Sample ID: DW 33

Date Collected: 11/27/19 07:47

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-33

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			660144	12/05/19 09:50	QZY	TAL EDI
Total/NA	Analysis	200.8		1	661326	12/10/19 16:52	YZH	TAL EDI

Client Sample ID: DW 34

Date Collected: 11/27/19 07:48

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-34

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659549	12/02/19 16:49	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 17:49	DLE	TAL EDI

Client Sample ID: DW 35

Date Collected: 11/27/19 07:48

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-35

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659549	12/02/19 16:49	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 17:53	DLE	TAL EDI

Client Sample ID: DW 36

Date Collected: 11/27/19 07:49

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-36

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659549	12/02/19 16:49	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 17:55	DLE	TAL EDI

Lab Chronicle

Client: Envirosearch Consultants Inc
Project/Site: MB, Philadelphia

Job ID: 460-197664-1

Client Sample ID: DW 37

Date Collected: 11/27/19 07:50

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-37

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659549	12/02/19 16:49	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 17:56	DLE	TAL EDI

Client Sample ID: DW 38

Date Collected: 11/27/19 07:50

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-38

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659549	12/02/19 16:49	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 17:57	DLE	TAL EDI

Client Sample ID: DW 39

Date Collected: 11/27/19 07:51

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-39

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659549	12/02/19 16:49	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 17:59	DLE	TAL EDI

Client Sample ID: DW 40

Date Collected: 11/27/19 07:51

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-40

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659549	12/02/19 16:49	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 18:00	DLE	TAL EDI

Client Sample ID: DW 41

Date Collected: 11/27/19 08:01

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-41

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659530	12/02/19 13:55	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 18:04	DLE	TAL EDI

Client Sample ID: DW 42

Date Collected: 11/27/19 08:01

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-42

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659530	12/02/19 13:55	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 18:07	DLE	TAL EDI

Lab Chronicle

Client: Envirosearch Consultants Inc
Project/Site: MB, Philadelphia

Job ID: 460-197664-1

Client Sample ID: DW 43

Date Collected: 11/27/19 08:01

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-43

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659530	12/02/19 13:55	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 18:08	DLE	TAL EDI

Client Sample ID: DW 44

Date Collected: 11/27/19 08:02

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-44

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659530	12/02/19 13:55	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 18:10	DLE	TAL EDI

Client Sample ID: DW 45

Date Collected: 11/27/19 08:02

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-45

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659530	12/02/19 13:55	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 18:11	DLE	TAL EDI

Client Sample ID: DW 46

Date Collected: 11/27/19 08:02

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-46

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659530	12/02/19 13:55	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 18:13	DLE	TAL EDI

Client Sample ID: DW 47

Date Collected: 11/27/19 08:04

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-47

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659530	12/02/19 13:55	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 18:14	DLE	TAL EDI

Client Sample ID: DW 48

Date Collected: 11/27/19 08:04

Date Received: 11/27/19 12:35

Lab Sample ID: 460-197664-48

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			659530	12/02/19 13:55	DLE	TAL EDI
Total/NA	Analysis	200.8		1	659520	12/02/19 18:15	DLE	TAL EDI

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Eurofins TestAmerica, Edison

Accreditation/Certification Summary

Client: Envirosearch Consultants Inc
Project/Site: MB, Philadelphia

Job ID: 460-197664-1

Laboratory: Eurofins TestAmerica, Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0200	09-30-20
DE Haz. Subst. Cleanup Act (HSCA)	State	<cert No.>	12-31-21
Georgia	State	12028 (NJ)	06-30-20
Massachusetts	State	M-NJ312	06-30-20
Massachusetts	State Program	M-NJ312	06-30-20
New Jersey	NELAP	12028	06-30-20
New York	NELAP	11452	04-01-20
Pennsylvania	NELAP	68-00522	02-28-20
Rhode Island	State	LAO00132	12-30-19
USDA	US Federal Programs	P330-18-00135	05-03-21

Method Summary

Client: Envirosearch Consultants Inc
Project/Site: MB, Philadelphia

Job ID: 460-197664-1

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	TAL EDI
200	Preparation, Metals	EPA	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

1.3 - 1002

Page 1 of 5

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Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

Name for Report and Invoice JO VANHENSELDER		Samples Name, Priority J. VANHENSELDER		Site/Project Identification MB, PHILADELPHIA	
Company Envirosearch		Fax 215-850-8444		State (Location of site): NJ: <input type="checkbox"/> NY: <input type="checkbox"/> Other: PHILA, PA	
Address PO BOX 940		City Spring House PA		Regulatory Program: PADEP / USEPA	
Analysis Turnaround Time Standard <input checked="" type="checkbox"/> Rush Charges Authorized For: 2 Week <input type="checkbox"/> 1 Week <input type="checkbox"/> Other <input type="checkbox"/>		Job No: 197664		LAB USE ONLY Project No:	
Sample Identification		Date		Time	
Matrix		No. of Cont.		ANALYSIS REQUESTED (ENTER X BELOW TO INDICATE REQUEST)	
DW 01		11-27-19		6:20	
02		11-27-19		6:22	
03		11-27-19		6:25	
04		11-27-19		6:30	
05		11-27-19		6:33	
06		11-27-19		6:40	
07		11-27-19		6:41	
08		11-27-19		6:57	
09		11-27-19		6:54	
10		11-27-19		6:57	
Preservation Used: 1 = ICE, 2 = HCl, 3 = H ₂ SO ₄ , 4 = HNO ₃ , 5 = NaOH		Soil:		Water: 10	



Relinquished by	Company	Date / Time	Received by	Company	Water Metals Filtered (Yes/No)?
1) <i>[Signature]</i>	Envirosearch	11/27/19 11:00	1) <i>[Signature]</i>	Envirosearch	ND
2) <i>[Signature]</i>	Envirosearch	11/27/19 12:35	2) <i>[Signature]</i>	TA-100P	
3) <i>[Signature]</i>	Envirosearch	11/28/19 13:50	3) <i>[Signature]</i>	Envirosearch	
4) <i>[Signature]</i>	Envirosearch	11/28/19 17:20	4) <i>[Signature]</i>	Envirosearch	

Special Instructions *** DRINKING WATER ANALYSES - Lead ** Project #**

Relinquished by *[Signature]* Company **Envirosearch** Date / Time **11/27/19 11:00** Received by *[Signature]* Company **Envirosearch** Water Metals Filtered (Yes/No)? **ND**

Relinquished by *[Signature]* Company **Envirosearch** Date / Time **11/27/19 12:35** Received by *[Signature]* Company **TA-100P**

Relinquished by *[Signature]* Company **Envirosearch** Date / Time **11/28/19 13:50** Received by *[Signature]* Company **Envirosearch**

Relinquished by *[Signature]* Company **Envirosearch** Date / Time **11/28/19 17:20** Received by *[Signature]* Company **Envirosearch**

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-572), Connecticut (PH-0200), Rhode Island (132), Massachusetts (M-NJ312), North Carolina (No. 578)

*** DRINKING WATER ANALYSES, USEPA @ CALL W/QUEST 215 850 8444**



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

1.3 - 5 KOP-2 Page 2 of 5

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

Name (for report and invoice) JO Van Rensselaer		Samplers Name (Printed) JO Van Rensselaer		Site/Project Identification MB, PHILADEL PHH	
Company ENVIROSEARCH		Reg.# 41919		State (Location of site): NJ: <input type="checkbox"/> NY: <input type="checkbox"/> Other: PHILA, PRDEP, USCAP	
Address PO Box 940		Analysis Turnaround Time Standard <input checked="" type="checkbox"/> Rush Charges Authorized For: 1 Week <input type="checkbox"/> 2 Week <input type="checkbox"/> Other <input type="checkbox"/>		Regulatory Program: USEPA, PRDEP	
City Spring House PA 19477		No. of Cont.		LAB USE ONLY Job No: 197664 Project No:	
Phone 215 850 8444		Matrix		Sample Numbers	
Fax		No. of Cont.			
Sample Identification	Date	Time	Matrix	No. of Cont.	
DW 11	11/27/11	700	AQ	1	Lead *
12		701		1	X
13		705		1	X
14		706		1	X
15		709		1	X
16		711		1	X
17		715		1	X
18		710		1	X
19		720		1	X
20		721		1	X

Preservation Used: 1 = ICE, 2 = HCl, 3 = H₂SO₄, 4 = HNO₃, 5 = NaOH
Soil: **10**
Water: **10**
6 = Other _____, 7 = Other _____

Special Instructions: ***Drinking Water Analysis - 0 ** Project #**

Relinquished by Jo Van Rensselaer	Company ENVIROSEARCH	Date / Time 11/27/11 10:02	Received by JO	Company ENVIROSEARCH
Relinquished by ESC	Company ESC	Date / Time 11/27/11 11:35	Received by TH	Company TH-KOP
Relinquished by TR-KOP	Company TR-KOP	Date / Time	Received by	Company
Relinquished by	Company	Date / Time	Received by	Company

Relinquished by
TR-KOP

Company
TR-KOP

Date / Time

Received by

Company

Relinquished by

Company

Date / Time

Received by

Company

Relinquished by

Company

Date / Time

Received by

Company

Relinquished by

Company

Date / Time

Received by

Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-922), Connecticut (PH-0200), Rhode Island (132).
Massachusetts (M-NJ312), North Carolina (No. 578)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

1.300 KAP-Z

Page 3 of 5

12/10/2019

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

Name (for report and invoice) ENVIROSEARCH		Company JO VAN RENSSLAER		Samples Name (Printed) JO VAN RENSSLAER		Site/Project Identification NYB, PHILADELPHIA PA	
Address PO BOX 940		City Spring House PA 19477		No. # 41919		State (Location of site): NJ: <input type="checkbox"/> NY: <input type="checkbox"/> Other: PHILADELPHIA PA	
Phone 215 850 8444		Fax PH 19477		Analysis Turnaround Time Standard <input checked="" type="checkbox"/> Rush Charges Authorized For: 2 Week <input type="checkbox"/> 1 Week <input type="checkbox"/> Other <input type="checkbox"/>		Regulatory Program: PADEP/USEPA	
Sample Identification DW 21		Date 11/27/19		Time 732		Matrix AQ	
No. of Cont.		No. of Cont.		No. of Cont.		No. of Cont.	
22		733		1		X	
23		736		1		X	
24		737		1		X	
25		740		1		X	
26		741		1		X	
27		742		1		X	
28		743		1		X	
29		745		1		X	
30		746		1		X	
Preservation Used: 1 = ICE, 2 = HCl, 3 = H ₂ SO ₄ , 4 = HNO ₃ , 5 = NaOH		Soil: 10		Water: 10			
6 = Other		7 = Other					

Special Instructions: *** DRINKING WATER, ** PROJECT #**

Water Metals Filtered (Yes/No)? **NO**

Relinquished by: **ENVIROSEARCH** Date / Time: **11/27/19 12:35** Received by: **TR-KOP** Company: **TR-KOP**

Relinquished by: **ENVIROSEARCH** Date / Time: **11/27/19 12:35** Received by: **TR-KOP** Company: **TR-KOP**

Relinquished by: **ENVIROSEARCH** Date / Time: **11/27/19 12:35** Received by: **TR-KOP** Company: **TR-KOP**

Relinquished by: **ENVIROSEARCH** Date / Time: **11/27/19 12:35** Received by: **TR-KOP** Company: **TR-KOP**

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

1.3-2 KOP-2

Page 4 of 5

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

Name (for report and invoice) Enviro Search		Samplers Name (Printed) JO VAN RENSSLAER		Site/Project Identification WB, PHILADELPHIA PA	
Company NO van rensslaer		Regulatory Program: USEPA/MDR/PADEP		State (Location of site): NJ: <input type="checkbox"/> NY: <input type="checkbox"/> Other: <input checked="" type="checkbox"/> PADEP	
Address PO Box 940		Analysis Turnaround Time Standard <input checked="" type="checkbox"/> Rush Charges Authorized For: 2 Week <input type="checkbox"/> 1 Week <input type="checkbox"/> Other <input type="checkbox"/>		LAB USE ONLY Project No:	
City Spring House		State PA		Job No: 197664	
Phone 215 850 8444		Fax PA 14773		Sample Numbers	
Sample Identification		Date	Time	Matrix	No. of Cont.
DW 31			745		Lead #
32			746		X
33			747		X
34			748		X
35			748		X
36			748		X
37			744		X
38			750		X
39			750		X
40			751		X
40			751		X

Preservation Used: 1 = ICE, 2 = HCl, 3 = H₂SO₄, 4 = HNO₃, 5 = NaOH, 6 = Other, 7 = Other

Soil: **ID**
Water: **ID**

Special Instructions: * Drinking water analyses ** Project #

Relinquished by Norman Blum	Company Enviro Search	Date / Time 11/21/19 11:11	Received by JOB	Company Enviro Search
Relinquished by [Signature]	Company Enviro	Date / Time 11/21/19 12:30	Received by [Signature]	Company TA-KOP
Relinquished by [Signature]	Company PO KOP	Date / Time	Received by	Company
Relinquished by	Company	Date / Time	Received by	Company TA-KOP

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).
Massachusetts (M-NJ312), North Carolina (No. 578)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

1.3-6 KOP-2

Page 5 of 5

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

Name (for report and invoice) Envirosearch		Samplers Name (Printed) JO VAN PEN SSELER		Site/Project Identification MB, PHILADELPHIA	
Company JO VAN PEN SSELER		Regulatory Program: PHA, PHOP, PHDP		Other: <input type="checkbox"/> USEPA, <input type="checkbox"/> PHDP	
Address PO Box 94D		City/State Spring House, PA 19157		LAB USE ONLY Project No:	
Phone 215 850 8444		Analysis Turnaround Time Standard <input checked="" type="checkbox"/> Rush Changes Authorized For: 2 Week <input type="checkbox"/> 1 Week <input type="checkbox"/> Other <input type="checkbox"/>		ANALYSIS REQUESTED (ENTER 'X' BELOW TO INDICATE REQUEST) Lead X	
Sample Identification	Date	Time	Matrix	No. of Cont.	Sample Numbers
DW 41	8:01	11:31 AM	Air	1	
42	8:01			1	
43	8:01			1	
44	8:02			1	
45	8:02			1	
46	8:02			1	
47	8:04			1	
48	8:04			1	

Preservation Used: 1 = ICE, 2 = HCl, 3 = H₂SO₄, 4 = HNO₃, 5 = NaOH, 6 = Other, 7 = Other

Special Instructions *Drinking water analysis *Project #

Water Metals Filtered (Yes/No)? **NO**

Relinquished by Charmaine Miller	Company Envirosearch	Date / Time 11/27/19 1200	Received by [Signature]	Company Envirosearch
Relinquished by [Signature]	Company ESC	Date / Time 11/29/19 1235	Received by [Signature]	Company TA-KOP
Relinquished by [Signature]	Company KOZEL	Date / Time	Received by	Company
Relinquished by	Company	Date / Time	Received by	Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-622), Connecticut (PH-0200), Rhode Island (132), Massachusetts (M-NJ312), North Carolina (No. 578)

TestAmerica Edison
 Receipt Temperature and pH Log

Job Number: 197664

Number of Coolers		IR Gun #		Cooler Temperatures																													
RAW	CORRECTED	RAW	CORRECTED	Cooler #1			Cooler #2			Cooler #3			Cooler #4			Cooler #5			Cooler #6			Cooler #7			Cooler #8			Cooler #9					
°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C			

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or GAW (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other
1				<2											
2				<2											
3				<2											
4				<2											
5				<2											
6				<2											
7				<2											
8				<2											
9				<2											
10				<2											
11				<2											
12				<2											
13				<2											

If pH adjustments are required record the information below:

Sample No(s), adjusted: _____
 Preservative Name/Conc.: _____
 Lot # of Preservative(s): _____
 Volume of Preservative used (ml): _____

Expiration Date: _____
 The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.
 * Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

EDS-WI-038, Rev 4, 06/09/2014
 Initials: JR
 Date: 11/27/19

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 197664

Number of Coolers	IR Gun #	Cooler Temperatures								
		Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7	Cooler #8	Cooler #9
		°C	°C	°C	°C	°C	°C	°C	°C	°C
		12.0	13.0							

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate (pH<2)	Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or GAO (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other
14					<2											
15					<2											
16					<2											
17					<2											
18					<2											
19					<2											
20					<2											
21					<2											
22					<2											
23					<2											
24					<2											
25					<2											
26					<2											

If pH adjustments are required record the information below:

Sample No(s), adjusted: _____

Preservative Name/Conc: _____

Lot # of Preservative(s): _____

Volume of Preservative used (ml): _____

Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

* Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

Initials: JK

Date: 11/27/19

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 197669

Number of Coolers	Cooler Temperatures					
	COOLER #1	COOLER #2	COOLER #3	COOLER #4	COOLER #5	COOLER #6
	1.3 °C	1.3 °C	°C	°C	°C	°C
	°C	°C	°C	°C	°C	°C
	°C	°C	°C	°C	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or GMM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other
27				<2											
28				<2											
29				<2											
30				<2											
31				<2											
32				<2											
33				<2											
34				<2											
35				<2											
36				<2											
37				<2											
38				<2											
39				<2											

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____
 Preservative Name/Conc.: _____
 Lot # of Preservative(s): _____

Volume of Preservative used (ml): _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.
 *Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

EDS-WI-038, Rev 4, 06/09/2014

Initials: JK

Date: 11/27/19

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 197664

Number of Coolers	IR Gun #	Cooler Temperatures								
1	K68-2	Cooler #1: 17.5 °C	Cooler #2: 17.3 °C	Cooler #3: °C	Cooler #4: °C	Cooler #5: °C	Cooler #6: °C	Cooler #7: °C	Cooler #8: °C	Cooler #9: °C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or GMM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other
40				<2											
41				<2											
42				<2											
43				<2											
44				<2											
45				<2											
46				<2											
47				<2											
48				<2											

If pH adjustments are required record the information below:

Sample No(s), adjusted: _____
 Preservative Name/Conc.: _____

Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

* Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

Expiration Date: _____

Initials: SK

Date: 11/27/19

TestAmerica Edison Receipt Temperature and pH Log

Job Number: _____

Number of Coolers	IR Gun #	Cooler Temperatures								
UNRAW / UNCORRECTED	UNRAW / UNCORRECTED	UNRAW / UNCORRECTED	UNRAW / UNCORRECTED	UNRAW / UNCORRECTED	UNRAW / UNCORRECTED	UNRAW / UNCORRECTED	UNRAW / UNCORRECTED	UNRAW / UNCORRECTED	UNRAW / UNCORRECTED	UNRAW / UNCORRECTED
Cooler #1		Cooler #4	Cooler #7	Cooler #2	Cooler #5	Cooler #8	Cooler #3	Cooler #6	Cooler #9	
°C		°C	°C	°C	°C	°C	°C	°C	°C	

TALS Sample Number	Ammonia	COD	Nitrate Nitrite	Metals	Hardness	Pest	EPH or QAM	Phenols	Sulfide	TKN	TOC	Total Cyanide	Total Phos	Other	Other
	(pH<2)	(pH<2)	(pH<2)	(pH<2)	(pH<2)	(pH 5-9)	(pH<2)	(pH<2)	(pH>9)	(pH<2)	(pH<2)	(pH<2)	(pH>12)	(pH<2)	

If pH adjustments are required record the information below:

Sample No(s), adjusted: _____

Preservative Name/Conc.: _____

Lot # of Preservative(s): _____

Volume of Preservative used (ml): _____

Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

* Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

Initials: _____

Date: _____

Login Sample Receipt Checklist

Client: Envirosearch Consultants Inc

Job Number: 460-197664-1

Login Number: 197664
List Number: 1
Creator: Keehn, Jeffrey S

List Source: Eurofins TestAmerica, Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ATTACHMENT 2 - ANALYTICAL RESULTS

VERIFICATION SAMPLING 12/18/2019

ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-199170-1
Client Project/Site: MB Philadelphia

For:
Envirosearch Consultants Inc
PO BOX 940
Springhouse, Pennsylvania 19477

Attn: Tom Hippensteal



Authorized for release by:
12/20/2019 2:31:15 PM

Jill Miller, Senior Project Manager
(484)685-0871
jill.miller@testamericainc.com

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www.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.



Table of Contents

Cover Page	1
Table of Contents	2
Sample Summary	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Lab Chronicle	7
Certification Summary	8
Method Summary	9
Chain of Custody	10
Receipt Checklists	12

Sample Summary

Client: Envirosearch Consultants Inc
Project/Site: MB Philadelphia

Job ID: 460-199170-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-199170-1	DW-33 FD	Water	12/18/19 06:50	12/18/19 13:12	
460-199170-2	DW-33 F	Water	12/18/19 06:55	12/18/19 13:12	
460-199170-3	DW-44 FD	Water	12/18/19 06:59	12/18/19 13:12	
460-199170-4	DW-44 F	Water	12/18/19 07:05	12/18/19 13:12	
460-199170-5	DW-46 FD	Water	12/18/19 07:02	12/18/19 13:12	
460-199170-6	DW-46 F	Water	12/18/19 07:08	12/18/19 13:12	



Definitions/Glossary

Client: Envirosearch Consultants Inc
Project/Site: MB Philadelphia

Job ID: 460-199170-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Envirosearch Consultants Inc
Project/Site: MB Philadelphia

Job ID: 460-199170-1

Job ID: 460-199170-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

**Job Narrative
460-199170-1**

Comments

No additional comments.

Receipt

The samples were received on 12/18/2019 1:12 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.9° C.

Receipt Exceptions

Sample received for DW-46 FD has DW-44FD on label and DW-46 FD written on container. Sample received for DW-46 F has DW-44F on label and DW-46F written on container.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



Client Sample Results

Client: Envirosearch Consultants Inc
Project/Site: MB Philadelphia

Job ID: 460-199170-1

Client Sample ID: DW-33 FD

Lab Sample ID: 460-199170-1

Date Collected: 12/18/19 06:50

Matrix: Water

Date Received: 12/18/19 13:12

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.6		2.0	0.053	ug/L		12/19/19 22:10	12/20/19 13:17	1

Client Sample ID: DW-33 F

Lab Sample ID: 460-199170-2

Date Collected: 12/18/19 06:55

Matrix: Water

Date Received: 12/18/19 13:12

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.0	J	2.0	0.053	ug/L		12/19/19 22:10	12/20/19 13:20	1

Client Sample ID: DW-44 FD

Lab Sample ID: 460-199170-3

Date Collected: 12/18/19 06:59

Matrix: Water

Date Received: 12/18/19 13:12

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.65	J	2.0	0.053	ug/L		12/19/19 22:10	12/20/19 13:22	1

Client Sample ID: DW-44 F

Lab Sample ID: 460-199170-4

Date Collected: 12/18/19 07:05

Matrix: Water

Date Received: 12/18/19 13:12

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.60	J	2.0	0.053	ug/L		12/19/19 22:10	12/20/19 13:23	1

Client Sample ID: DW-46 FD

Lab Sample ID: 460-199170-5

Date Collected: 12/18/19 07:02

Matrix: Water

Date Received: 12/18/19 13:12

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.1	J	2.0	0.053	ug/L		12/19/19 22:10	12/20/19 13:24	1

Client Sample ID: DW-46 F

Lab Sample ID: 460-199170-6

Date Collected: 12/18/19 07:08

Matrix: Water

Date Received: 12/18/19 13:12

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.55	J	2.0	0.053	ug/L		12/19/19 22:10	12/20/19 13:28	1

Lab Chronicle

Client: Envirosearch Consultants Inc
Project/Site: MB Philadelphia

Job ID: 460-199170-1

Client Sample ID: DW-33 FD

Date Collected: 12/18/19 06:50

Date Received: 12/18/19 13:12

Lab Sample ID: 460-199170-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			663800	12/19/19 22:10	VAD	TAL EDI
Total/NA	Analysis	200.8		1	663988	12/20/19 13:17	DLE	TAL EDI

Client Sample ID: DW-33 F

Date Collected: 12/18/19 06:55

Date Received: 12/18/19 13:12

Lab Sample ID: 460-199170-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			663800	12/19/19 22:10	VAD	TAL EDI
Total/NA	Analysis	200.8		1	663988	12/20/19 13:20	DLE	TAL EDI

Client Sample ID: DW-44 FD

Date Collected: 12/18/19 06:59

Date Received: 12/18/19 13:12

Lab Sample ID: 460-199170-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			663800	12/19/19 22:10	VAD	TAL EDI
Total/NA	Analysis	200.8		1	663988	12/20/19 13:22	DLE	TAL EDI

Client Sample ID: DW-44 F

Date Collected: 12/18/19 07:05

Date Received: 12/18/19 13:12

Lab Sample ID: 460-199170-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			663800	12/19/19 22:10	VAD	TAL EDI
Total/NA	Analysis	200.8		1	663988	12/20/19 13:23	DLE	TAL EDI

Client Sample ID: DW-46 FD

Date Collected: 12/18/19 07:02

Date Received: 12/18/19 13:12

Lab Sample ID: 460-199170-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			663800	12/19/19 22:10	VAD	TAL EDI
Total/NA	Analysis	200.8		1	663988	12/20/19 13:24	DLE	TAL EDI

Client Sample ID: DW-46 F

Date Collected: 12/18/19 07:08

Date Received: 12/18/19 13:12

Lab Sample ID: 460-199170-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			663800	12/19/19 22:10	VAD	TAL EDI
Total/NA	Analysis	200.8		1	663988	12/20/19 13:28	DLE	TAL EDI

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Eurofins TestAmerica, Edison

Accreditation/Certification Summary

Client: Envirosearch Consultants Inc
Project/Site: MB Philadelphia

Job ID: 460-199170-1

Laboratory: Eurofins TestAmerica, Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0200	09-30-20
DE Haz. Subst. Cleanup Act (HSCA)	State	<cert No.>	12-31-21
Georgia	State	12028 (NJ)	06-30-20
Massachusetts	State	M-NJ312	06-30-20
Massachusetts	State Program	M-NJ312	06-30-20
New Jersey	NELAP	12028	06-30-20
New York	NELAP	11452	04-01-20
Pennsylvania	NELAP	68-00522	02-28-20
Rhode Island	State	LAO00132	12-30-19
USDA	US Federal Programs	P330-18-00135	05-03-21

Method Summary

Client: Envirosearch Consultants Inc
Project/Site: MB Philadelphia

Job ID: 460-199170-1

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	TAL EDI
200	Preparation, Metals	EPA	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900



TestAmerica

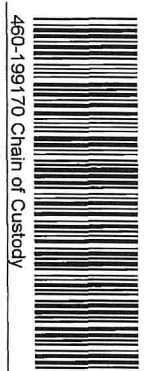
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

Name (for report and invoice) JO VAN RENSSELAER (3)		Samplers Name (Printed) JO VAN RENSSELAER		Site/Project Identification MB PHILADELPHIA	
Company ENVIROSEARCH		P.O. # 41919		State (Location of site): PA Other: PA USEPA	
Address PO BOX 940		Analysis Turnaround Time Standard <input type="checkbox"/> Rush Charges Authorized For: 1 Week <input type="checkbox"/> 2 Week <input type="checkbox"/> Other <input checked="" type="checkbox"/> 24 HR		Regulatory Program: DRINKING WATER	
City Spring House State PA 19477		Matrix AD		LAB USE ONLY Project No: Job No:	
Phone 215 850 8444 Fax		No. of Cont. 1		Sample Numbers	
Sample Identification	Date	Time	Matrix	No. of Cont.	ANALYSIS REQUESTED (ENTER 'X' BELOW TO INDICATE REQUEST)
DW-33 FD	12/16/19	6:50	AD	1	LEAD USEPA
DW-33 F		6:55		1	DRINKING WATER (3)
DW-44 FP		6:59		1	(1)
DW-44 F		7:05		1	
DW-46 FD		7:02		1	
DW-46 F		7:08		1	

Preservation Used: 1 = ICE, 2 = HCl, 3 = H₂SO₄, 4 = HNO₃, 5 = NaOH, 6 = Other **HNO₃**, 7 = Other **HNO₃**



Relinquished by	Company	Date / Time	Received by	Company	Date / Time	Relinquished by	Company	Date / Time	Received by	Company	Date / Time
Maureen Williams	ENVIROSEARCH	12/16/19 12:05	JR	ESL							
JMO	ESL	12/18/19 13:12	MSK	TA-KOP							
	ESL	12/18/19 13:50	JR	ETA							
	ETA	12/18/19 21:05	JR	ETA							

Special Instructions: **FD = First Draw; F = Flush; (1) CALLQUEST; (2) ENVIROSEARCH CONSULTANTS.COM; (3) Need HSAAP 24HR**

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-822), Connecticut (PH-0200), Rhode Island (132), Massachusetts (M-NJ312), North Carolina (No. 578)

Job Number: 199176

Number of Coolers	Cooler #1		Cooler #2		Cooler #3		Cooler #4		Cooler #5		Cooler #6		Cooler #7		Cooler #8		Cooler #9		
	RAW	CORRECTED	RAW	CORRECTED	RAW	CORRECTED	RAW	CORRECTED	RAW	CORRECTED	RAW	CORRECTED	RAW	CORRECTED	RAW	CORRECTED	RAW	CORRECTED	
1	5.9	5.9																	

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals * (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or GAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other
1				<2											
2				<2											
3				<2											
4				<2											
5				<2											
6				<2											

If pH adjustments are required record the information below:

Sample No(s), adjusted: _____
 Preservative Name/Conc: _____
 Lot # of Preservative(s): _____
 Volume of Preservative used (ml): _____

Expiration Date: _____
 The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.
 * Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

EDS-WI-038, Rev 4, 06/09/2014
 Initials: SK
 Date: 12/18/19

Login Sample Receipt Checklist

Client: Envirosearch Consultants Inc

Job Number: 460-199170-1

Login Number: 199170
List Number: 1
Creator: Keehn, Jeffrey S

List Source: Eurofins TestAmerica, Edison

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	