

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Eurofins QC Laboratories
702 Electric Avenue
Horsham PA 19044

Report Date: May 28, 2017

Project: L6810860

Submittal Date: 05/19/2017

Group Number: 1803722

PO Number: L6810860

State of Sample Origin: NJ

Client Sample Description

L6810860-1 Grab Drinking Water
L6810860-2 Grab Drinking Water
L6810860-3 Grab Water

Lancaster Labs

(LL) #

9003686

9003687

9003688

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

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

Electronic Copy To Eurofins QC Laboratories

Attn: Nicki Smith

Respectfully Submitted,



Wendy A. Kozma
Principal Specialist Group Leader

Project Name: L6810860
LL Group #: 1803722

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are not included in this data set

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

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

No additional comments are necessary.

Sample Description: L6810860-1 Grab Drinking Water
GARFIELD PARK ACADEMY, GPA-CRS-LEFT-23

LL Sample # NR 9003686
LL Group # 1803722
Account # 26104

Project Name: L6810860

Collected: 05/19/2017 07:35 by AH

Eurofins QC Laboratories
702 Electric Avenue
Horsham PA 19044

Submitted: 05/19/2017 19:15

Reported: 05/28/2017 22:10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	EPA 200.8 rev 5.4		ug/l	ug/l	ug/l	
06035	Lead	7439-92-1	4.85	0.0744	1.01	1

Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	EPA 200.8 rev 5.4	1	171440605108A	05/28/2017 15:26	Scott P Cuff	1
06051	ICP-MS Undigested Prep	EPA 200.8 rev 5.4	1	171440605108	05/26/2017 05:33	James L Mertz	1

*=This limit was used in the evaluation of the final result

Sample Description: L6810860-2 Grab Drinking Water
GPS-CRS-25

LL Sample # NR 9003687
LL Group # 1803722
Account # 26104

Project Name: L6810860

Collected: 05/19/2017 07:37 by AH

Eurofins QC Laboratories
702 Electric Avenue
Horsham PA 19044

Submitted: 05/19/2017 19:15

Reported: 05/28/2017 22:10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	EPA 200.8 rev 5.4		ug/l	ug/l	ug/l	
06035	Lead	7439-92-1	10.9	0.0744	1.01	1

Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	EPA 200.8 rev 5.4	1	171440605108A	05/28/2017 15:38	Scott P Cuff	1
06051	ICP-MS Undigested Prep	EPA 200.8 rev 5.4	1	171440605108	05/26/2017 05:33	James L Mertz	1

*=This limit was used in the evaluation of the final result

Sample Description: L6810860-3 Grab Water
GPA-BLANK

LL Sample # NR 9003688
LL Group # 1803722
Account # 26104

Project Name: L6810860

Collected: 05/19/2017 07:30 by AH

Eurofins QC Laboratories
702 Electric Avenue
Horsham PA 19044

Submitted: 05/19/2017 19:15

Reported: 05/28/2017 22:10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	EPA 200.8 rev 5.4		ug/l	ug/l	ug/l	
06035	Lead	7439-92-1	N.D.	0.0744	1.01	1

Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	EPA 200.8 rev 5.4	1	171440605108A	05/28/2017 15:40	Scott P Cuff	1
06051	ICP-MS Undigested Prep	EPA 200.8 rev 5.4	1	171440605108	05/26/2017 05:33	James L Mertz	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: Eurofins QC Laboratories
Reported: 05/28/2017 22:10

Group Number: 1803722

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

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

Method Blank

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
Batch number: 171440605108A	Sample number(s): 9003686-9003688		
Lead	N.D.	0.0744	1.01

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l					
Batch number: 171440605108A	Sample number(s): 9003686-9003688								
Lead	15	15.26			102		85-115		

MS/MSD

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

Analysis Name	Unspiked Conc	MS Spike Added	MS Conc	MSD Spike Added	MSD Conc	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l	ug/l					
Batch number: 171440605108A	Sample number(s): 9003686-9003688 UNSPK: 9003686									
Lead	4.85	15.3	20.63			103		70-130		

Laboratory Duplicate

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

Analysis Name	BKG Conc	DUP Conc	DUP RPD	DUP RPD Max
	ug/l	ug/l		
Batch number: 171440605108A	Sample number(s): 9003686-9003688 BKG: 9003686			
Lead	4.85	5.32	9 (1)	20

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

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

(2) The unspiked result was more than four times the spike added.

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



QC

702 Electronic Drive Phone: 215-355-3900
Horsham, PA 19044-0962 Fax: 215-355-7231

Client/Acct. No. WMUA W01530
Address 433 JFK Way

City/State/Zip W3000 NJ 08046
Phone/Fax 609-877-4583
Client Contact: Alex Hale

CHAIN OF CUSTODY
Page 1 of 1

Bill to/Report to (if different)

Same

Sampling Site Address (if different) Include State

Garfield Park Academy
24 Glensiden Lane
Willingboro NJ 08046

P.O. No. PWSID #:

Quote #

e-mail:

Lab LIMS No:

L6810860

LAB USE ONLY:

___ Ascorbic/HCL Vials # ___ HCl Vials

___ Na₂S₂O₃

___ Na OH/Zn acetate pH

___ HNO₃ pH

___ H₂SO₄ pH

___ NaOH pH

3 Unpreserved 250ml

___ HCl

___ NH₄Cl

___ MeOH

___ DI Water

ANALYSIS REQUESTED

LEAD

MATRIX CODES

DW: DRINKING WATER

GW: GROUND WATER

WW: WASTEWATER

SO: SOIL

SL: SLUDGE

OIL: OIL

SOL: NON SOIL SOLID

MI: MISCELLANEOUS

X: OTHER

Field pH, Temp (°C),
DO, Cl₂, Cond. etc.

PROJECT	Collection		GRAB	COMP	Matrix Code	Number of Containers															
	Date	Military Time				Total	H	H	V	H	N	Z	U	B							
							2	1	i	3	a	a	N	P	A						
<u>GPA-CR5L-4-23</u>	<u>5/19/17</u>	<u>0735</u>	X		DW	1															
<u>GPA-CR5-25</u>	<u>5/19/17</u>	<u>0737</u>	X		DW	1															
<u>GPA-BLANK</u>	<u>5/19/17</u>	<u>0730</u>	X		X	1															

SAMPLED BY: (Name/Company)

WMUA

TAT: STANDARD (10 DAY)

or DUE DATE / /

Report Format: Standard NJ-RDD SRP-RDD

Standard + QC Forms EDD

Field Parameters Analyzed By:

Initials

Date/Time:

Please call for pricing and availability for rush (<10 day) turnaround and for all but standard reporting format.

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME
1. <u>Alex Hale</u>	<u>5/19/17</u>	<u>710</u>	<u>[Signature]</u>	<u>5/19/17</u>	<u>710</u>
2. <u>[Signature]</u>	<u>5/19/17</u>	<u>1555</u>	2. <u>[Signature]</u>	<u>5/19/17</u>	<u>1555</u>
3. <u>[Signature]</u>			3. <u>[Signature]</u>		
4. <u>[Signature]</u>			4. <u>[Signature]</u>		
5. <u>[Signature]</u>			5. <u>[Signature]</u>	<u>5/19/17</u>	<u>1915</u>

DELIVERY: EQC COURIER CLIENT
 UPS FEDEX OTHER

Rec'd Temp.: _____ Initials: _____ Ice Y/N Location: _____

COMMENTS:

Hazardous: yes / no

Client: EQCLGroup Number(s): 1803722**Delivery and Receipt Information**

Delivery Method: EQCL Drop Off Arrival Timestamp: 05/19/2017 19:15
 Number of Packages: 1 Number of Projects: 2

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace \geq 6mm:	N/A
Samples Chilled:	No	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	No
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Melvin Sanchez (8943) at 21:27 on 05/19/2017

Explanation of Symbols and Abbreviations

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

BMQL	Below Minimum Quantitation Level	mg	milligram(s)
C	degrees Celsius	mL	milliliter(s)
cfu	colony forming units	MPN	Most Probable Number
CP Units	cobalt-chloroplatinate units	N.D.	none detected
F	degrees Fahrenheit	ng	nanogram(s)
g	gram(s)	NTU	nephelometric turbidity units
IU	International Units	pg/L	picogram/liter
kg	kilogram(s)	RL	Reporting Limit
L	liter(s)	TNTC	Too Numerous To Count
lb.	pound(s)	µg	microgram(s)
m3	cubic meter(s)	µL	microliter(s)
meq	milliequivalents	umhos/cm	micromhos/cm
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...
- W - The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.

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

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

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

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

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

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

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Additional Data Qualifiers

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