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Analytical Report

Serialized: 07/05/2018 09:30am QC21

RANDY WANOUSS
MANSFIELD TOWNSHIP ELEMENTARY SCHOOL
50 PORT MURRAY ROAD

PORT MURRAY,NJ 07865

Regarding:

MANSFIELD TOWNSHIP ELEMENTARY SCHOOL
50 PORT MURRAY ROAD
PORT MURRAY, NJ 07865

PROJECT ID:

M00384

LABORATORY REPORT NUMBER:

L7044049

Authorized by: Ronald T. Fazio, President

Eurofins QC, LLC

Analytical Report

Printed 07/05/18 09:30 QC21

MANSFIELD TOWNSHIP ELEMENTARY SCHOOL
M00384

P.O. No:
Inv. No: 1940896 PI
PWSID: 2116305

RANDY WANOUSS
MANSFIELD TOWNSHIP ELEMENTARY SCHOOL
50 PORT MURRAY ROAD
PORT MURRAY, NJ 07865

Regarding:
RANDY WANOUSS
MANSFIELD TOWNSHIP ELEMENTARY SCHOOL
50 PORT MURRAY ROAD
PORT MURRAY, NJ 07865

SAMPLE SUMMARY

Lab ID	Collected	Received	Matrix	Client ID
L7044049-1	06/20/18 06:55	06/22/18 11:15	WATER	ROOM 40 FAUCET
L7044049-2	06/20/18 07:06	06/22/18 11:15	WATER	GYM FOUNTAIN BOYS SIDE
L7044049-3	06/20/18 07:14	06/22/18 11:15	WATER	FOUNTAIN RIGHT SIDE
L7044049-4	06/20/18 06:58	06/22/18 11:15	WATER	3RD GRADE GIRLS FOUNTAIN
L7044049-5	06/20/18 07:00	06/22/18 11:15	WATER	NURSES ROOM FAUCET
L7044049-6	06/20/18 06:57	06/22/18 11:15	WATER	3RD GRADE BOYS ROOM
L7044049-7	06/20/18 07:11	06/22/18 11:15	WATER	LIBRARY SINK
L7044049-8	06/20/18 07:08	06/22/18 11:15	WATER	GYM FOUNTAIN GIRLS SINK
L7044049-9	06/20/18 07:04	06/22/18 11:15	WATER	2ND GRADE FOUNTAN
L7044049-10	06/20/18 07:01	06/22/18 11:15	WATER	ROOM 15 FOUNTAIN

REVISED

Sample Description: L7044049-2 Drinking Water

Project Name: L7044049

Eurofins QC Laboratories
ELLE Sample #: EW 9675409
ELLE Group #: 1958760
Matrix: Drinking Water

Submittal Date/Time: 06/23/2018 01:00
Collection Date/Time: 06/20/2018 07:06

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	MCL	Dilution Factor
Metals		**EPA 200.8 rev 5.4**	mg/l	mg/l	mg/l	mg/l	
06033	Copper	7440-50-8	0.177 Q3	0.00015	0.0020	1.3	1
06035	Lead	7439-92-1	0.00070 J	0.000075	0.0010	.015	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
06033	Copper	EPA 200.8 rev 5.4	1	181760605110A	06/28/2018 12:05	Patrick J Engle	1
06035	Lead	EPA 200.8 rev 5.4	1	181760605110A	06/28/2018 12:05	Patrick J Engle	1
06051	ICP-MS Undigested Prep	EPA 200.8 rev 5.4	1	181760605110	06/26/2018 18:50	Barbara A Kane	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided MCL.

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Analysis Report

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Sample Description: L7044049-3 Drinking Water

Project Name: L7044049

Eurofins QC Laboratories
ELLE Sample #: EW 9675410
ELLE Group #: 1958760
Matrix: Drinking Water

Submittal Date/Time: 06/23/2018 01:00
Collection Date/Time: 06/20/2018 07:14

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	MCL	Dilution Factor
Metals		**EPA 200.8 rev 5.4**	mg/l	mg/l	mg/l	mg/l	
06033	Copper	7440-50-8	0.170	0.00015	0.0020	1.3	1
06035	Lead	7439-92-1	0.0091	0.000075	0.0010	.015	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
06033	Copper	EPA 200.8 rev 5.4	1	181770605101A	06/28/2018 14:33	Patrick J Engle	1
06035	Lead	EPA 200.8 rev 5.4	1	181770605101A	06/28/2018 10:10	Patrick J Engle	1
06051	ICP-MS Undigested Prep	EPA 200.8 rev 5.4	1	181770605101	06/26/2018 23:20	Annamaria Kuhns	1

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Analysis Report

REVISED

Sample Description: L7044049-4 Drinking Water

Project Name: L7044049

Eurofins QC Laboratories
ELLE Sample #: EW 9675411
ELLE Group #: 1958760
Matrix: Drinking Water

Submittal Date/Time: 06/23/2018 01:00
Collection Date/Time: 06/20/2018 06:58

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	MCL	Dilution Factor
Metals		**EPA 200.8 rev 5.4**	mg/l	mg/l	mg/l	mg/l	
06033	Copper	7440-50-8	0.168	0.00015	0.0020	1.3	1
06035	Lead	7439-92-1	0.0018	0.000075	0.0010	.015	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
06033	Copper	EPA 200.8 rev 5.4	1	181770605101A	06/28/2018 14:35	Patrick J Engle	1
06035	Lead	EPA 200.8 rev 5.4	1	181770605101A	06/28/2018 10:12	Patrick J Engle	1
06051	ICP-MS Undigested Prep	EPA 200.8 rev 5.4	1	181770605101	06/26/2018 23:20	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result
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Sample Description: L7044049-5 Drinking Water

Project Name: L7044049

Eurofins QC Laboratories
ELLE Sample #: EW 9675412
ELLE Group #: 1958760
Matrix: Drinking Water

Submittal Date/Time: 06/23/2018 01:00
Collection Date/Time: 06/20/2018 07:00

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	MCL	Dilution Factor
Metals		**EPA 200.8 rev 5.4**	mg/l	mg/l	mg/l	mg/l	
06033	Copper	7440-50-8	0.135	0.00015	0.0020	1.3	1
06035	Lead	7439-92-1	0.0126	0.000075	0.0010	.015	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
06033	Copper	EPA 200.8 rev 5.4	1	181770605101A	06/28/2018 14:36	Patrick J Engle	1
06035	Lead	EPA 200.8 rev 5.4	1	181770605101A	06/28/2018 10:13	Patrick J Engle	1
06051	ICP-MS Undigested Prep	EPA 200.8 rev 5.4	1	181770605101	06/26/2018 23:20	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided MCL.

REVISED

Sample Description: L7044049-6 Drinking Water

Project Name: L7044049

Eurofins QC Laboratories
ELLE Sample #: EW 9675413
ELLE Group #: 1958760
Matrix: Drinking Water

Submittal Date/Time: 06/23/2018 01:00
Collection Date/Time: 06/20/2018 07:57

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	MCL	Dilution Factor
Metals		**EPA 200.8 rev 5.4**	mg/l	mg/l	mg/l	mg/l	
06033	Copper	7440-50-8	0.194 Q3	0.00015	0.0020	1.3	1
06035	Lead	7439-92-1	0.00061 J	0.000075	0.0010	.015	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
06033	Copper	EPA 200.8 rev 5.4	1	181770605102A	06/28/2018 13:35	Patrick J Engle	1
06035	Lead	EPA 200.8 rev 5.4	1	181770605102A	06/28/2018 13:35	Patrick J Engle	1
06051	ICP-MS Undigested Prep	EPA 200.8 rev 5.4	1	181770605102	06/26/2018 23:20	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided MCL.

REVISED

Sample Description: L7044049-7 Drinking Water

Project Name: L7044049

Eurofins QC Laboratories
ELLE Sample #: EW 9675414
ELLE Group #: 1958760
Matrix: Drinking Water

Submittal Date/Time: 06/23/2018 01:00
Collection Date/Time: 06/20/2018 07:11

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	MCL	Dilution Factor
Metals		**EPA 200.8 rev 5.4**	mg/l	mg/l	mg/l	mg/l	
06033	Copper	7440-50-8	0.135 Q3	0.00015	0.0020	1.3	1
06035	Lead	7439-92-1	0.0136	0.000075	0.0010	.015	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
06033	Copper	EPA 200.8 rev 5.4	1	181760605111A	06/28/2018 11:24	Patrick J Engle	1
06035	Lead	EPA 200.8 rev 5.4	1	181760605111A	06/28/2018 11:24	Patrick J Engle	1
06051	ICP-MS Undigested Prep	EPA 200.8 rev 5.4	1	181760605111	06/26/2018 19:30	Barbara A Kane	1

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

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Sample Description: L7044049-8 Drinking Water

Project Name: L7044049

Eurofins QC Laboratories
ELLE Sample #: EW 9675415
ELLE Group #: 1958760
Matrix: Drinking Water

Submittal Date/Time: 06/23/2018 01:00
Collection Date/Time: 06/20/2018 07:08

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	MCL	Dilution Factor
Metals		**EPA 200.8 rev 5.4**	mg/l	mg/l	mg/l	mg/l	
06033	Copper	7440-50-8	0.157	0.00015	0.0020	1.3	1
06035	Lead	7439-92-1	0.00038 J	0.000075	0.0010	.015	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
06033	Copper	EPA 200.8 rev 5.4	1	181770605102A	06/28/2018 13:41	Patrick J Engle	1
06035	Lead	EPA 200.8 rev 5.4	1	181770605102A	06/28/2018 13:41	Patrick J Engle	1
06051	ICP-MS Undigested Prep	EPA 200.8 rev 5.4	1	181770605102	06/26/2018 23:20	Annamaria Kuhns	1

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

Sample Description: L7044049-9 Drinking Water

Project Name: L7044049

Eurofins QC Laboratories
ELLE Sample #: EW 9675416
ELLE Group #: 1958760
Matrix: Drinking Water

Submittal Date/Time: 06/23/2018 01:00
Collection Date/Time: 06/20/2018 07:04

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	MCL	Dilution Factor
Metals		**EPA 200.8 rev 5.4**	mg/l	mg/l	mg/l	mg/l	
06033	Copper	7440-50-8	0.106	0.00015	0.0020	1.3	1
06035	Lead	7439-92-1	0.00057 J	0.000075	0.0010	.015	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
06033	Copper	EPA 200.8 rev 5.4	1	181770605102A	06/28/2018 13:42	Patrick J Engle	1
06035	Lead	EPA 200.8 rev 5.4	1	181770605102A	06/28/2018 13:42	Patrick J Engle	1
06051	ICP-MS Undigested Prep	EPA 200.8 rev 5.4	1	181770605102	06/26/2018 23:20	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided MCL.

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Sample Description: L7044049-10 Drinking Water

Project Name: L7044049

Eurofins QC Laboratories
ELLE Sample #: EW 9675417
ELLE Group #: 1958760
Matrix: Drinking Water

Submittal Date/Time: 06/23/2018 01:00
Collection Date/Time: 06/20/2018 07:01

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	MCL	Dilution Factor
Metals		**EPA 200.8 rev 5.4**	mg/l	mg/l	mg/l	mg/l	
06033	Copper	7440-50-8	0.152	0.00015	0.0020	1.3	1
06035	Lead	7439-92-1	0.0024	0.000075	0.0010	.015	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
06033	Copper	EPA 200.8 rev 5.4	1	181770605102A	06/28/2018 13:43	Patrick J Engle	1
06035	Lead	EPA 200.8 rev 5.4	1	181770605102A	06/28/2018 13:43	Patrick J Engle	1
06051	ICP-MS Undigested Prep	EPA 200.8 rev 5.4	1	181770605102	06/26/2018 23:20	Annamaria Kuhns	1

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

Client Name: Eurofins QC Laboratories
Reported: 07/03/2018 16:51

Group Number: 1958760

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

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

Method Blank

Analysis Name	Result	MDL**	LOQ
	mg/l	mg/l	mg/l
Batch number: 181760605110A	Sample number(s): 9675409		
Copper	N.D.	0.00015	0.0020
Lead	N.D.	0.000075	0.0010
Batch number: 181760605111A	Sample number(s): 9675414		
Copper	N.D.	0.00015	0.0020
Lead	N.D.	0.000075	0.0010
Batch number: 181760605112A	Sample number(s): 9675408		
Copper	N.D.	0.00015	0.0020
Lead	N.D.	0.000075	0.0010
Batch number: 181770605101A	Sample number(s): 9675410-9675412		
Copper	N.D.	0.00015	0.0020
Lead	N.D.	0.000075	0.0010
Batch number: 181770605102A	Sample number(s): 9675413,9675415-9675417		
Copper	N.D.	0.00015	0.0020
Lead	N.D.	0.000075	0.0010

LCS/LCSD

Analysis Name	LCS Spike Added mg/l	LCS Conc mg/l	LCSD Spike Added mg/l	LCSD Conc mg/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 181760605110A	Sample number(s): 9675409								
Copper	0.0500	0.0545			109		85-115		
Lead	0.0150	0.0147			98		85-115		
Batch number: 181760605111A	Sample number(s): 9675414								
Copper	0.0500	0.0521			104		85-115		
Lead	0.0150	0.0146			97		85-115		
Batch number: 181760605112A	Sample number(s): 9675408								
Copper	0.0500	0.0475			95		85-115		
Lead	0.0150	0.0140			93		85-115		
Batch number: 181770605101A	Sample number(s): 9675410-9675412								
Copper	0.0500	0.0491			98		85-115		
Lead	0.0150	0.0146			97		85-115		

*- 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.

REVISED

Quality Control Summary

Client Name: Eurofins QC Laboratories
Reported: 07/03/2018 16:51

Group Number: 1958760

LCS/LCSD (continued)

Analysis Name	LCS Spike Added mg/l	LCS Conc mg/l	LCSD Spike Added mg/l	LCSD Conc mg/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 181770605102A	Sample number(s): 9675413,9675415-9675417								
Copper	0.0500	0.0500			100		85-115		
Lead	0.0150	0.0140			93		85-115		

MS/MSD

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

Analysis Name	Unspiked Conc mg/l	MS Spike Added mg/l	MS Conc mg/l	MSD Spike Added mg/l	MSD Conc mg/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 181760605110A	Sample number(s): 9675409 UNSPK: 9675409									
Copper	0.177	0.0510	0.263			169*		70-130		
Lead	0.000697	0.0153	0.0155			97		70-130		
Batch number: 181760605111A	Sample number(s): 9675414 UNSPK: 9675414									
Copper	0.135	0.0510	0.230			186*		70-130		
Lead	0.0136	0.0153	0.0303			110		70-130		
Batch number: 181760605112A	Sample number(s): 9675408 UNSPK: 9675408									
Copper	0.358	0.0510	0.423			127 (2)		70-130		
Lead	0.00140	0.0153	0.0156			93		70-130		
Batch number: 181770605102A	Sample number(s): 9675413,9675415-9675417 UNSPK: 9675413									
Copper	0.194	0.0510	0.266			141*		70-130		
Lead	0.000608	0.0153	0.0148			93		70-130		

Laboratory Duplicate

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

Analysis Name	BKG Conc mg/l	DUP Conc mg/l	DUP RPD	DUP RPD Max
Batch number: 181760605110A	Sample number(s): 9675409 BKG: 9675409			
Copper	0.177	0.198	11	20
Lead	0.000697	0.000696	0 (1)	20
Batch number: 181760605111A	Sample number(s): 9675414 BKG: 9675414			
Copper	0.135	0.144	6	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.

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Quality Control Summary

Client Name: Eurofins QC Laboratories
Reported: 07/03/2018 16:51

Group Number: 1958760

Laboratory Duplicate (continued)

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

Analysis Name	BKG Conc mg/l	DUP Conc mg/l	DUP RPD	DUP RPD Max
Lead	0.0136	0.0140	3	20
Batch number: 181760605112A	Sample number(s): 9675408 BKG: 9675408			
Copper	0.358	0.360	1	20
Lead	0.00140	0.00131	6 (1)	20
Batch number: 181770605102A	Sample number(s): 9675413,9675415-9675417 BKG: 9675413			
Copper	0.194	0.204	5	20
Lead	0.000608	0.000628	3 (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.