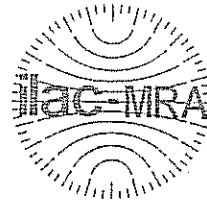


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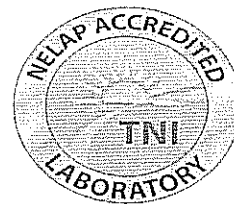
AT-1807

Laboratory Report

for

Middlesex Water Company
100 Fairview Ave
Edison, NJ 08817
Attention: Pamela Torgerson
Fax: 732-985-2248

Date of Issue
09/13/2016
Shea Greiner
EUROFINS EATON
ANALYTICAL



ORELAP 4034

Report: 609101
Project: 2016
Group: Lead/Copper
Compliance

TRG6: Shea Greiner
Project Manager

- * Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.
- * Laboratory certifies that the test results meet all TNI 2009 and ISO/IEC 17025:2005 requirements unless noted under the individual analysis.
- * Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.
- * Test results relate only to the sample(s) tested.
- * This report shall not be reproduced except in full, without the written approval of the laboratory.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Mississippi	Certified
-----	-----	Montana	Cert 0035
Arizona	AZ0778	Nebraska	Certified
Arkansas	Certified	Nevada	CA00006-2016
California-Monrovia- ELAP	2813	New Hampshire *	2959
California-Colton- ELAP	2812	New Jersey *	CA 008
California-Folsom- ELAP	2820	New Mexico	Certified
California-Fresno- ELAP	2966	New York *	11320
Colorado	Certified	North Carolina	06701
Connecticut	PH-0107	North Dakota	R-009
Delaware	CA 006	Oregon (Primary AB) *	ORELAP 4034
Florida *	E871024	Pennsylvania *	68-565
Georgia	947	Puerto Rico	Certified
Guam	16-003r	Rhode Island	LA000326
Hawaii	Certified	South Carolina	87016
Idaho	Certified	South Dakota	Certified
Illinois *	200033	Tennessee	TN02839
Indiana	C-CA-01	Texas *	T104704230-15-9
Kansas *	E-10268	Utah *	CA000062016-10
Kentucky	90107	Vermont	VT0114
Louisiana *	LA16003	Virginia *	460260
Maine	CA0006	Washington	C838
Maryland	224	-----	-----
Commonwealth of Northern Marianas Is.	MP0004	-----	-----
Massachusetts	M-CA006	EPA Region 5	Certified
Michigan	9906	Los Angeles County Sanitation Districts	10264

* NELAP/TNI Recognized Accreditation Bodies

ISO 17025 Accredited Method List

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ANAB.
Refer to Certificate and scope of accreditation (AT 1807) found at: <http://www.eatonanalytical.com>

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Environmental (Drinking Water)	Environmental (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
1,4-Dioxane	EPA 522	x		x
2,3,7,8-TCDD	Modified EPA 1613B	x		x
Acrylamide	In House Method (2440)	x		x
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1	x	x	x
Ammonia	SM 4500-NH3 H		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x		x
Asbestos	EPA 100.2	x	x	
Bicarbonate Alkalinity as HCO3	SM 2320B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method (2447)	x		x
Carbamates	EPA 531.2	x		x
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x		x
COD	EPA 410.4 / SM 5220D		x	
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x		x
Chlorinated Acids	EPA 555	x		x
Chlorine Dioxide	SM 4500-CLO2 D	x		x
Chlorine -Total/Free/ Combined Residual	SM 4500-Cl G	x	x	x
Conductivity	EPA 120.1		x	
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x		x
Cryptosporidium	EPA 1622, 1623	x		x
Cyanide, Amenable	SM 4500-CN G	x	x	
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method (2470)	x		x
Diquat and Paraquat	EPA 549.2	x		x
DBP/HAA	SM 6251B	x		x
Dissolved Oxygen	SM 4500-O G		x	x
DOC	SM 5310C	x		x
E. Coli	(MTF/EC+MUG)	x		x
E. Coli	CFR 141.21(f)(6)(i)	x		x
E. Coli	SM 9223		x	
E. Coli (Enumeration)	SM 9221B, I/ SM 9221F	x		x
E. Coli (Enumeration)	SM 9223B	x		x
EDB/DCBP	EPA 504.1	x		
EDB/DCBP and DBP	EPA 551.1	x		x
EDTA and NTA	In House Method (2454)	x		x
Endothall	EPA 548.1	x		x
Endothall	In-house Method (2445)	x		x
Enterococci	SM 9230B	x	x	
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221C, E (MTF/EC)		x	
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x		x
Fecal Coliform with Chlorine Present	SM 9221E		x	
Fecal Streptococci	SM 9230B	x	x	
Fluoride	SM 4500-F C	x	x	x
Giardia	EPA 1623	x		x
Glyphosate	EPA 547	x		x
Gross Alpha/Beta	EPA 900.0	x	x	x
Gross Alpha Coprecipitation	SM 7110 C	x	x	x
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method (2439)	x		x
Heterotrophic Bacteria	SM 9215 B	x		x
Hexavalent Chromium	EPA 218.6	x	x	x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Environmental (Drinking Water)	Environmental (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
Hexavalent Chromium	EPA 218.7	x		x
Hexavalent Chromium	SM 3500-Cr B		x	
Hormones	EPA 539	x		x
Hydroxide as OH Calc.	SM 2330B	x		x
Kjeldahl Nitrogen	EPA 351.2		x	
Legionella	CDC Legionella	x		x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA (2360)	x		x
NDMA	EPA 521	x		x
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x		x
Ortho Phosphate	EPA 365.1	x	x	x
Ortho Phosphate	SM 4500P E			x
Ortho Phosphorous	SM 4500P E	x		
Oxyhalides Disinfection Byproducts	EPA 317.0	x		x
Perchlorate	EPA 331.0	x		x
Perchlorate (low and high)	EPA 314.0	x		x
Perfluorinated Alkyl Acids	EPA 537	x		x
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method, based on EPA 532 (2448)	x		x
Pseudomonas	IDEXX Pseudalert (2461)	x		x
Radium-226	GA Institute of Tech	x		x
Radium-228	GA Institute of Tech	x		x
Radon-222	SM 7500RN	x		x
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D		x	
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4		x	
Semi-VOC	EPA 525.2	x		x
Semi-VOC	EPA 625		x	x
Silica	SM 4500-Si D	x	x	
Silica	SM 4500-SiO2 C	x	x	
Sulfide	SM 4500-S ²⁻ D		x	
Sulfite	SM 4500-SO ³⁻ B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x		x
Total Coliform (P/A)	SM 9221 A, B	x		x
Total Coliform (Enumeration)	SM 9221 A, B, C	x		x
Total Coliform / E. coli	Colisure (2346)	x		x
Total Coliform	SM 9221B		x	
Total Coliform with Chlorine Present	SM 9221B		x	
Total Coliform / E.coli (P/A and Enumeration)	SM 9223	x		x
TOC	SM 5310C	x	x	x
TOX	SM 5320B		x	
Total Phenols	EPA 420.1		x	
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P E		x	
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x	x	
Uranium by ICP/MS	EPA 200.8	x		x
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x		x
VOC	EPA 624		x	x
VOC	EPA SW 846 8260	x		x
VOC	In House Method (2411)	x		x
Yeast and Mold	SM 9610	x		x

750 Royal Oaks Dr., Ste 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 <http://www.EatonAnalytical.com>

Acknowledgement of Samples Received

Addr: **Middlesex Water Company**
100 Fairview Ave
Edison, NJ 08817

Attn: Pamela Torgerson
Phone: 732-638-7665

Client ID: MIDDLESEX
Folder #: 609101
Project: 2016
Sample Group: Lead/Copper Compliance

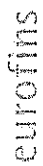
Project Manager: Shea Greiner
Phone: (720) 491-1749

The following samples were received from you on **September 02, 2016 at 1122**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date
<u>201609020286</u>	Colonia High School Field House Variable ID: 5167 @ICPMS	09/01/2016 0609
<u>201609020287</u>	JFK High School Field House Variable ID: 5168 @ICPMS	09/01/2016 0624

Test Description

@ICPMS -- ICPMS Metals



Eaton Analytical

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 Website: www.EatonAnalytical.com

CHAIN OF CUSTODY RECORD

EUROFINS EATON ANALYTICAL USE ONLY

LOGIN COMMENTS: _____

SAMPLES CHECKED AGAINST COC BY: IA

SAMPLES LOGGED IN BY: _____

SAMPLE TEMP RECEIVED AT: _____ (check for yes)

(Other) IR Gun ID = _____ (Observation = _____ °C) (Corr. Factor _____ °C) (Final = _____ °C)

Monrovia IR Gun ID = 518A (Observation = 0.8 °C) (Corr. Factor -3 °C) (Final = 0.5 °C)

Compliance Acceptance Criteria: (Chemistry: ± 2 °C) (Microbiology: ± 10 °C)

TYPE OF ICE: Real Synthetic No Ice CONDITION OF ICE: Frozen Partially Frozen Thawed N/A

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx DUPS / DHL / Area Fast / Top Line / Other: _____

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: Middlesex Water Company

PROJECT CODE: 2016 Better Orders

COMPLIANCE SAMPLES NON-COMPLIANCE SAMPLES

- Requires state forms REGULATION INVOLVED: _____ (eg. SDWA, NPDES, etc.)

Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION _____

SEE ATTACHED KIT ORDER FOR ANALYSES (check for yes) OR _____

List ALL ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX	FIELD DATA	FIELD DATA	SAMPLER COMMENTS
9/1/16	6:00 PM	Colonia High School Field House	# 5167	CFW			Barb Kirchoff
9/1/16	6:00 PM	JFK High School Field House	# 5168	CFW			Barb Kirchoff

EA-CLIENT CODE: Middlesex COC ID: _____

TAT requested: rush by adv notice only STD 1 day 2 day 3 day 1 day

Signature: Barb Kirchoff TRK # 6784 1930 0847

* MATRIX TYPES: RSW = Raw Surface Water SEAW = Sea Water SO = Soil O = Other - Please Identify

RGW = Raw Ground Water WW = Waste Water SW = Storm Water SL = Sludge

SAMPLED BY: Barb Kirchoff SIGNATURE PRINT NAME DATE TIME

REQUISITIONED BY: Pam Torgersen COMPANY/TITLE DATE TIME

RECEIVED BY: Pam Torgersen DATE TIME

REQUISITIONED BY: _____ DATE TIME

RECEIVED BY: _____ DATE TIME

PAGE 2 OF 2

Shea Greiner is your Eurofins Eaton Analytical Service Manager

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
(626) 386-1100 FAX (626) 386-1101

Note: Sampler Please return this paper with your samples

Kit #: 141300

Client ID: MIDDLESEX

Project Code: 2016 Bottle Orders

Group Name: Lead/Copper Compliance

PO#/JOB#:

Created By: Shea Greiner - [TRG5]

Deliver By: 06/29/2016

STG: Bottle Orders

Ice Type: W

Ship Sample Kits to
Middlesex Water Company
100 Fairview Ave
Edison, NJ 08817
Attn: Pamela Torgerson
Phone: 732-638-7665
Fax: 732-985-2248

Send Report to
Middlesex Water Company
100 Fairview Ave
Edison, NJ 08817
Attn: Pamela Torgerson
Phone: 732-638-7665
Fax: 732-985-2248

Billing Address
Middlesex Water Company
100 Fairview Ave
Edison, NJ 08817
Attn: Pamela Torgerson
Phone: 732-638-7665
Fax: 732-985-2248

of

Sample Tests

55 @ICPMS

Bottle Qty - Type [preservative information]

1 - 1 L Wide Mouth Plastic [no preservative]

UN DOT #

Comments:

SHIPPING:

- Include Wet Ice Packing and Shipping materials, bags.
- Provide Overnight Return Shipping Label

Please split bottles into Reasonable Size Coolers.



Eaton Analytical

Laboratory Comments
Report: 609101

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Middlesex Water Company
Pamela Torgerson
100 Fairview Ave
Edison, NJ 08817

The Comments Report may be blank if there are no comments for this report.



Eaton Analytical

Laboratory Hits
Report: 609101

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Middlesex Water Company
Pamela Torgerson
100 Fairview Ave
Edison, NJ 08817

Samples Received on: -
09/02/2016 1122

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
		201609020286				
		<u>Colonia High School Field House</u>				
09/08/2016 14:39	Copper Total ICAP/MS		81	1300	ug/L	2
09/08/2016 14:39	Lead Total ICAP/MS		9.6	15	ug/L	0.5
		201609020287				
		<u>JFK High School Field House</u>				
09/08/2016 14:45	Copper Total ICAP/MS		160	1300	ug/L	2
09/08/2016 14:45	Lead Total ICAP/MS		8.1	15	ug/L	0.5

SUMMARY OF POSITIVE DATA ONLY



ISO 17025 Accredited

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Laboratory Data
Report: 609101

Middlesex Water Company
Pamela Torgerson
100 Fairview Ave
Edison, NJ 08817

Samples Received on:
09/02/2016 1122

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
---------	----------	------------	------------------	--------	---------	--------	-------	-----	----------

Colonia High School Field House (201609020286)

Sampled on 09/01/2016 0609

Variable ID: 5167

EPA 200.8 - ICPMS Metals

09/08/16	09/08/16 14:39	934574	934852	(EPA 200.8)	Copper Total ICAP/MS	81	ug/L	2	1
09/08/16	09/08/16 14:39	934574	934852	(EPA 200.8)	Lead Total ICAP/MS	9.6	ug/L	0.5	1

JFK High School Field House (201609020287)

Sampled on 09/01/2016 0624

Variable ID: 5168

EPA 200.8 - ICPMS Metals

09/08/16	09/08/16 14:45	934574	934852	(EPA 200.8)	Copper Total ICAP/MS	160	ug/L	2	1
09/08/16	09/08/16 14:45	934574	934852	(EPA 200.8)	Lead Total ICAP/MS	8.1	ug/L	0.5	1

Rounding on totals after summation.
(c) - indicates calculated results

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Middlesex Water Company

ICPMS Metals

Prep Batch: 934574 Analytical Batch: 934852
201609020286 Colonia High School Field Hou:

Analysis Date: 09/08/2016
Analyzed by: DTN

ICPMS Metals

Prep Batch: 934574 Analytical Batch: 934852
201609020287 JFK High School Field House

Analysis Date: 09/08/2016
Analyzed by: DTN

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Middlesex Water Company

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
ICPMS Metals by EPA 200.8									
Analytical Batch: 934852					Analysis Date: 09/08/2016				
LCS1	Copper Total ICAP/MS		100	100	ug/L	100	(85-115)		
LCS2	Copper Total ICAP/MS		100	105	ug/L	105	(85-115)	20	4.9
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2	2.28	ug/L	114	(50-150)		
MS_201609030246	Copper Total ICAP/MS	ND	100	105	ug/L	105	(70-130)		
MS2_201609010135	Copper Total ICAP/MS	ND	100	100	ug/L	100	(70-130)		
MSD_201609030246	Copper Total ICAP/MS	ND	100	106	ug/L	105	(70-130)	20	0.95
MSD2_201609010135	Copper Total ICAP/MS	ND	100	105	ug/L	105	(70-130)	20	4.9
LCS1	Lead Total ICAP/MS		20	19.9	ug/L	99	(85-115)		
LCS2	Lead Total ICAP/MS		20	20.5	ug/L	103	(85-115)	20	3.0
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.538	ug/L	108	(50-150)		
MS_201609030246	Lead Total ICAP/MS	ND	20	20.1	ug/L	100	(70-130)		
MS2_201609010135	Lead Total ICAP/MS	ND	20	20.0	ug/L	99	(70-130)		
MSD_201609030246	Lead Total ICAP/MS	ND	20	20.3	ug/L	101	(70-130)	20	0.99
MSD2_201609010135	Lead Total ICAP/MS	ND	20	21.2	ug/L	105	(70-130)	20	5.8
ICPMS Metals by EPA 200.8									
Analytical Batch: 935077					Analysis Date: 09/08/2016				
LCS1	Copper Total ICAP/MS		100	111	ug/L	111	(85-115)		
LCS2	Copper Total ICAP/MS		100	112	ug/L	112	(85-115)	20	0.90
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2	2.23	ug/L	111	(50-150)		
MS_201609020285	Copper Total ICAP/MS	250	100	341	ug/L	91	(70-130)		
MS2_201609070708	Copper Total ICAP/MS	14	100	115	ug/L	101	(70-130)		
MSD_201609020285	Copper Total ICAP/MS	250	100	340	ug/L	90	(70-130)	20	0.29
MSD2_201609070708	Copper Total ICAP/MS	14	100	113	ug/L	99	(70-130)	20	1.8
LCS1	Lead Total ICAP/MS		20	22.0	ug/L	110	(85-115)		
LCS2	Lead Total ICAP/MS		20	22.3	ug/L	112	(85-115)	20	1.4
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.541	ug/L	108	(50-150)		
MS_201609020285	Lead Total ICAP/MS	1.3	20	22.6	ug/L	107	(70-130)		
MS2_201609070708	Lead Total ICAP/MS	1.6	20	21.6	ug/L	100	(70-130)		
MSD_201609020285	Lead Total ICAP/MS	1.3	20	23.3	ug/L	110	(70-130)	20	3.0
MSD2_201609070708	Lead Total ICAP/MS	1.6	20	23.5	ug/L	110	(70-130)	20	8.4

Spike recovery is already corrected for native results.
 Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
 Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
 RPD not calculated for LCS2 when different a concentration than LCS1 is used.
 RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
 (S) - Indicates surrogate compound.
 (I) - Indicates internal standard compound.