



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
1650 Arch Street
Philadelphia, Pennsylvania 19103-2029**

Issues to

Delaware (DE00017)

**Laboratory Safe Drinking Water Act (SDWA) Certificate
January 1, 2017 - December 31, 2017**

**BASED UPON CURRENT REQUIRED SDWA ANALYTICAL CAPABILITIES FOR PRIMACY,
LABORATORY PROFICIENCY TESTING (PT) SAMPLE PERFORMANCE,
LATEST ON-SITE REVIEW & ANY INTERIM APPROVALS**

Last On-site 3/29-30/2016

LEGEND

- C – Certified to Perform SDWA Compliance Analyses.**
- IC – Interim Certified to Perform SDWA Compliance Analyses
Based Upon Documentation Provided (On-Site Pending).**
- NC – Not Certified to Perform SDWA Compliance Analyses**

A handwritten signature in black ink, appearing to read "John R. Pomponio", written over a horizontal line.

**John R. Pomponio, Director
Environmental Assessment and Innovation Division
Water Supply Laboratory Certification Authority**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
1650 Arch Street
Philadelphia, Pennsylvania 19103-2029

Dr. Sergio Huerta, Director
Delaware Public Health Laboratory
30 Sunnyside Road
Smyrna, Delaware 19977

Dear Dr. Huerta:

The U.S. Environmental Protection Agency, Region III (EPA) has completed the certification status report for your facility as required by the Drinking Water Laboratory Certification Program. The procedure used to prepare the report is described in the Standard Operating Procedure (SOP) document, Region III Protocols for the Certification of Principal State Laboratories to Perform Drinking Water Analyses (R3-QA801.5).

Enclosed is the overall certification status report and certificate for your facility. Two elements constitute a laboratory's certification status: Proficiency Testing (PT) sample performance and an on-site laboratory evaluation. As cited in the EPA Drinking Water Laboratory Certification Manual, laboratories are certified parameter-by-parameter and method-by-method on an annual basis.

The current certification period is January 1, 2017 through December 31, 2017. The enclosed status report shows each parameter and its method(s) of analysis for which your laboratory requested certification. Only PT data for 2016 have been included in this report. Certification status reports are based on a laboratory completing its annual PT studies by September 30th which enables the certificate to be completed by December 31st as described in the SOP. Your staff should be encouraged to complete the 2017 PT sample studies during the first quarter of the calendar year and repeat any analyses that are unacceptable, in make-up studies, as soon as possible in the second quarter. The certification status for the last on-site assessment is also included in this report.

I thank you and your staff for your help, professionalism and commitment for continuous improvement. Should you have any questions regarding this information, please contact my office or have your staff contact Eric Graybill at (410) 305-2665.

Sincerely,


John R. Pomponio, Director
Environmental Assessment and Innovation Division
Water Supply Laboratory Certification Authority

DE00017 Delaware Health Lab Inorganic Contaminants

Analyte Name	PT Evaluation	PT Cert Status	PT Method Description	On-Site Cert Status 3_30_16	On-Site Method Description	Overall Certification 1_1_17 to 12_31_17	Certification Method
Antimony	Accept.	C	EPA 200.8	C	EPA 200.8	C	EPA 200.8
Arsenic	Accept.	C	EPA 200.8	C	EPA 200.8	C	EPA 200.8
Asbestos	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Barium	Accept.	C	EPA 200.8	C	EPA 200.8	C	EPA 200.8
Beryllium	Accept.	C	EPA 200.8	C	EPA 200.8	C	EPA 200.8
Cadmium	Accept.	C	EPA 200.8	C	EPA 200.8	C	EPA 200.8
Chromium	Accept.	C	EPA 200.8	C	EPA 200.8	C	EPA 200.8
Copper	Accept.	C	EPA 200.8	C	EPA 200.8	C	EPA 200.8
Cyanide (Free) ISE	Accept.	C	SM 4500 CN F	C	SM 4500 CN F	C	SM 4500 CN F
Cyanide (Total, Required if used for screening)	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	Total CN is only required if used for screening.
Fluoride	Accept.	C	EPA 300.0	C	EPA 300.0	C	EPA 300.0
Lead	Accept.	C	EPA 200.8	C	EPA 200.8	C	EPA 200.8
Mercury	Accept.	C	EPA 200.8	C	EPA 200.8	C	EPA 200.8
Mercury	Accept.	C	EPA 245.1	C	EPA 245.1	C	EPA 245.1
Nickel	Accept.	C	EPA 200.8	C	EPA 200.8	C	EPA 200.8
Nitrate	Accept.	C	EPA 300.0	C	EPA 300.0	C	EPA 300.0
Nitrate and Nitrite (Total)	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Nitrite	Accept.	C	EPA 300.0	C	EPA 300.0	C	EPA 300.0
Selenium	Accept.	C	EPA 200.8	C	EPA 200.8	C	EPA 200.8
Sodium	Accept.	C	SM 3111 B	C	SM 3111 B-99	C	SM3111 B*
Thallium	Accept.	C	EPA 200.8	C	EPA 200.8	C	EPA 200.8

*SM 3111B-99 (on-line) is identical to SM 3111B 21st edition

R3 certificates list free cyanide as required. Total cyanide is listed as required only if used for screening.

Region 3 certificates list all three (NO2-N, NO3-N and NO2+NO3) contaminants since they have MCLs.

DE00017 Delaware Health Lab Disinfection Byproduct Contaminants

Analyte Name	PT Evaluation	PT Cert Status	PT Method Description	On-Site Cert Status 3_30_16	On-Site Method Description	Overall Certification 1_1_17 to 12_31_17	Certification Method
Bromate	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Chlorite	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	

DE00017 Delaware Health Lab Haloacetic Acids

Dibromoacetic acid	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Dichloroacetic acid	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Monobromoacetic acid	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Monochloroacetic acid	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Trichloroacetic acid	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Total HAAs	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	

DC00017 Delaware Health Lab Trihalomethanes

Bromodichloromethane	Accept.	C	EPA 524.2	C	EPA 524.2	C	EPA 524.2
Bromoform	Accept.	C	EPA 524.2	C	EPA 524.2	C	EPA 524.2
Chloroform	Accept.	C	EPA 524.2	C	EPA 524.2	C	EPA 524.2
Dibromochloromethane	Accept.	C	EPA 524.2	C	EPA 524.2	C	EPA 524.2
Total Trihalomethanes (all acceptable)	Accept.	C	EPA 524.2	C	EPA 524.2	C	EPA 524.2

DE00017 Delaware Health Lab Volatile Organic Contaminants (VOCs)

Analyte Name	PT Evaluation	PT Cert Status	PT Method Description	On-Site Cert Status 3_30_16	On-Site Method Description	Overall Certification	Certification Method
						1_1_17 to 12_31_17	
1,1,1-Trichloroethane	Accept.	C	EPA 524.2	C	EPA 524.2	C	EPA 524.2
1,1,2-Trichloroethane	Accept.	C	EPA 524.2	C	EPA 524.2	C	EPA 524.2
1,1-Dichloroethylene	Accept.	C	EPA 524.2	C	EPA 524.2	C	EPA 524.2
1,2,4-Trichlorobenzene	Accept.	C	EPA 524.2	C	EPA 524.2	C	EPA 524.2
1,2-Dichlorobenzene (ortho)	Accept.	C	EPA 524.2	C	EPA 524.2	C	EPA 524.2
1,2-Dichloroethane	Accept.	C	EPA 524.2	C	EPA 524.2	C	EPA 524.2
1,2-Dichloropropane	Accept.	C	EPA 524.2	C	EPA 524.2	C	EPA 524.2
1,4-Dichlorobenzene (para)	Accept.	C	EPA 524.2	C	EPA 524.2	C	EPA 524.2
Benzene	Accept.	C	EPA 524.2	C	EPA 524.2	C	EPA 524.2
Carbon tetrachloride	Accept.	C	EPA 524.2	C	EPA 524.2	C	EPA 524.2
Chlorobenzene (mono)	Accept.	C	EPA 524.2	C	EPA 524.2	C	EPA 524.2
cis-1,2-Dichloroethylene	Accept.	C	EPA 524.2	C	EPA 524.2	C	EPA 524.2
Dichloromethane (Methylene Chloride)	Accept.	C	EPA 524.2	C	EPA 524.2	C	EPA 524.2
Ethylbenzene	Accept.	C	EPA 524.2	C	EPA 524.2	C	EPA 524.2
Styrene	Accept.	C	EPA 524.2	C	EPA 524.2	C	EPA 524.2
Tetrachloroethylene	Accept.	C	EPA 524.2	C	EPA 524.2	C	EPA 524.2
Toluene	Accept.	C	EPA 524.2	C	EPA 524.2	C	EPA 524.2
trans-1,2-Dichloroethylene	Accept.	C	EPA 524.2	C	EPA 524.2	C	EPA 524.2
Trichloroethylene	Accept.	C	EPA 524.2	C	EPA 524.2	C	EPA 524.2
Vinyl chloride	Accept.	C	EPA 524.2	C	EPA 524.2	C	EPA 524.2
Xylenes (total)	Accept.	C	EPA 524.2	C	EPA 524.2	C	EPA 524.2

DE00017 Delaware Health Lab Synthetic Organic Contaminants (SOCs)

Analyte Name	PT Evaluation	PT Cert Status	PT Method Description	On-Site Cert Status 3_30_16	On-Site Method Description	Overall Certification 1_1_17 to 12_31_17	Certification Method
1,2-Dibromo-3-chloropropane (DBCP)	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
2,4,5-TP (Silvex)	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
2,4-D (as acids, salts, and esters)	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Alachlor	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Atrazine	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Benzo(a)pyrene	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Carbofuran	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Chlordane	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Dalapon	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Di(2-ethylhexyl)adipate	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Di(2-ethylhexyl)phthalate	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Dinoseb	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Dioxin (2,3,7,8-TCDD)	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Diquat	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Endothall	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Endrin	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Ethylene dibromide (EDB), 1,2-							
Dibromoethane	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Glyphosate	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Heptachlor	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Heptachlor epoxide	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Hexachlorobenzene	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Hexachlorocyclopentadiene	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Lindane	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Methoxychlor	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Oxamyl (Vydate)	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
PCBs (as Decachlorobiphenyl)	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
PCBs (as Aroclors)	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Pentachlorophenol	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Picloram	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Simazine	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Toxaphene	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	

DE00017 Delaware Health Lab Radioactive Contaminants

Analyte Name	PT Evaluation	PT Cert Status	PT Method Description	On-Site Cert Status 3_30_16	On-Site Method Description	Overall Certification 1_1_17 to 12_31_17	Certification Method
Gross Alpha	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Gross Beta	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Radium 226	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Radium 228	Not Reported	NC	Not Reported	NC	Not Reviewed	NC	
Uranium	Accept.	C	EPA 200.8	C	EPA 200.8	C	EPA 200.8

DE00017 Delaware Health Lab Microbiological Contaminants

Analyte Name	PT Evaluation	PT Cert Status	PT Method Description	On-Site Cert Status 3_30_16	On-Site Method Description	Overall Certification 1_1_17 to 12_31_17	Certification Method
Coliforms, Total (presence/absence)	Accept.	C	SM9223 Colilert	C	SM9223 Colilert*	C	SM9223 Colilert*
Coliforms, Total (presence/absence)	Accept.	C	SM9223 COLISURE	C	SM9223 COLISURE	C	SM9223 COLISURE
Coliforms, E.coli (presence/absence)	Accept.	C	SM9223 Colilert	C	SM9223 Colilert*	C	SM9223 Colilert*
Coliforms, E.coli (presence/absence)	Accept.	C	SM9223 Colisure	C	SM9223 Colisure	C	SM9223 Colisure
Escherichia coli (E. coli) (enumeration)	Accept.	C	SM9223 Colilert QT	C	SM9223 Colilert QT	C	SM9223 Colilert QT
Heterotrophic Bacteria (HPC)	Accept.	C	SimPlate	C	SimPlate	C	SimPlate

*Includes Colilert-18