



2604 NE Industrial Drive, Suite 230  
North Kansas City, Missouri 64117  
Telephone: 816.231.5580  
Fax: 816.231.5641  
www.occutec.com

October 9, 2019

Diane Czarnecki  
Industrial Hygienist  
Facilities Management Division  
GSA Public Buildings Service - Heartland Region  
2300 Main Street, Kansas City, MO 64108

**RE: Goodfellow Federal Center – Bldg. # 103F Drinking Water Sampling  
Project # 919103**

Dear Ms. Czarnecki:

Thank you for the opportunity to provide the General Services Administration (GSA) with the above referenced environmental sampling activities. The following is our report.

**INTRODUCTION**

As requested, OCCU-TEC, Inc. (OCCU-TEC) conducted drinking water sampling for the presence of polychlorinated biphenyls (PCBs) and polycyclic aromatic hydrocarbons (PAHs) at Building #103F of the Goodfellow Federal Center (GFC) located at 4300 Goodfellow Federal Boulevard in St. Louis, Missouri. Sampling was completed in response to the ongoing environmental condition assessment at the GFC which is documented at the GFC Reading Room located at:  
<https://www.gsa.gov/portal/content/212361>.

Drinking water sampling was conducted to determine the current levels of PCBs and PAHs in representative sources throughout the complex. Drinking water sampling at Bldg. #103F was conducted on July 24, 2019 by Mr. Austin O’Byrne of OCCU-TEC.

**METHODOLOGY**

The samples were collected individually labeled dedicated laboratory provided one (1) liter (L) glass amber bottles and 44.7 milliliter (mL) volatile organic analysis (VOA) vials with Teflon septa lined screw caps. One (1) liter bottles were filled to the shoulder and capped. VOA vials were filled until a positive meniscus was achieved, and the cap was placed on the vial to prevent airspace. One (1) liter bottles and VOA vials were preserved with laboratory provided preservative and placed on ice for shipment. The samples were then

shipped overnight to Eurofins-Eaton Analytical in South Bend, Indiana for analysis. Eurofins-Eaton Analytical is certified by the State of Missouri Department of Natural Resources (MDNR) as an approved drinking water laboratory. Eurofins-Eaton Analytical's Missouri Certification number is 880.

Drinking water sampling for the presence of PCBs and PAHs was conducted at eight (8) distinct locations within Building #103F. A total of nine (9) samples were obtained including duplicate samples.

PCB samples were analyzed as per EPA Method 505 "Analysis of Organohalide Pesticides and Commercial Polychlorinated Biphenyl Products in water by Microextraction and Gas Chromatography." PAH samples were analyzed by EPA Method 525.2 "Determination of Organic Compounds in Drinking Water by Liquid-Solid Extraction and Capillary Column Gas Chromatography/Mass Spectrometry."

## **RESULTS AND DISCUSSION**

A summary table of all sampling locations is included in Appendix A. The complete laboratory report for the drinking water sampling from Eurofins-Eaton Analytical is attached in Appendix B.

### *PCBs*

All samples were below the maximum containment level (MCL) and the minimum reporting level (MRL) for the analytical method used.

### *PAHs*

All samples were below the maximum containment level (MCL) and the minimum reporting level (MRL) for the analytical method used.

## **LIMITATIONS**

The scope of this assessment was limited in nature. OCCU-TEC collected samples from a select number of drinking water sources in an effort to minimize cost while providing a general overview of the drinking water quality at the site. Sample locations do not encompass every drinking water source at the site. Samples were only analyzed for PCBs and PAHs in accordance with the scope of services requested by GSA. OCCU-TEC is not responsible for potential contaminants not identified in this report.

This report was prepared for the sole use of GSA. Reliance by any party other than GSA is expressly forbidden without OCCU-TEC's written permission. Any parties relying on

the report, with OCCU-TEC's written permission, are bound by the terms and conditions outlined in the original proposal as if said proposal was prepared for them.

OCCU-TEC appreciates the opportunity to work with the GSA on this project. Please contact us if you have any questions regarding this report or if we may be of any additional service.

Sincerely,

(b) (6)

Jeff T. Smith  
Senior Project Manager

(b) (6)

Kevin Heriford  
Environmental Operations Manager (QA/QC)

**ATTACHMENTS**

Appendix A, Sample Summary by Location  
Appendix B, Water Sample Laboratory Report



<b>Goodfellow Federal Center - Building 103F</b>			
<b>Sample Number</b>	<b>Location</b>	<b>Water Source</b>	<b>Analyte</b>
103F-W-01	Column E4 - Kitchen	Drinking Fountain	PCBs ----- PAHs
103F-W-02	Column C4 - Kitchen	Sink	PCBs ----- PAHs
103F-W-03	Column B4 - Kitchen	Sink	PCBs ----- PAHs
103F-W-04	Column B5 - Kitchen	Sink	PCBs ----- PAHs
103F-W-05	Column D4 - South Sink in Kitchen	Sink	PCBs ----- PAHs
103F-W-06	Column D4 - North Sink in Kitchen	Sink	PCBs ----- PAHs
103F-W-07	Column D3 - Kitchen Island Sink	Sink	PCBs ----- PAHs
103F-W-08	Column F11	Drinking Fountain	PCBs ----- PAHs
103F-W-09	Column F11 (Duplicate)	Drinking Fountain	PCBs ----- PAHs

## LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

*This report may not be reproduced, except in full, without written approval from EEA.*

## STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Missouri	880
Alaska	IN00035	Montana	CERT0026
Arizona	AZ0432	Nebraska	NE-OS-05-04
Arkansas	IN00035	Nevada	IN00035
California	2920	New Hampshire*	2124
Colorado	IN00035	New Jersey*	IN598
Colorado Radiochemistry	IN00035	New Mexico	IN00035
Connecticut	PH-0132	New York*	11398
Delaware	IN035	North Carolina	18700
Florida*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon (Primary AB)*	4074
Illinois*	200001	Pennsylvania*	68-00466
Illinois Microbiology	17767	Puerto Rico	IN00035
Illinois Radiochemistry	IN00035	Rhode Island	LAO00343
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
Iowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187-18-12
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA014	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	460275
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
EPA	IN00035		

\*NELAP/TNI Recognized Accreditation Bodies

110 South Hill Street  
 South Bend, IN 46617  
 Tel: (574) 233-4777  
 Fax: (574) 233-8207  
 1 800 332 4345

## Laboratory Report

Client: OCCU-TEC Inc.

Attn: Jeff Smith

2604 NE Industrial Drive

Suite 230

North Kansas City, MO 64117

Report:

464011

Priority:

Standard Written

Status:

Final

PWS ID:

Not Supplied

### Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4364962	103F-W-01	505	07/24/19 12:49	Client	07/26/19 08:45
4365151	103F-W-01	525.2	07/24/19 12:49	Client	07/26/19 08:45
4364963	103F-W-02	505	07/24/19 12:55	Client	07/26/19 08:45
4365152	103F-W-02	525.2	07/24/19 12:55	Client	07/26/19 08:45
4364964	103F-W-03	505	07/24/19 13:02	Client	07/26/19 08:45
4365153	103F-W-03	525.2	07/24/19 13:02	Client	07/26/19 08:45
4364965	103F-W-04	505	07/24/19 13:09	Client	07/26/19 08:45
4365154	103F-W-04	525.2	07/24/19 13:09	Client	07/26/19 08:45
4364966	103F-W-05	505	07/24/19 13:18	Client	07/26/19 08:45
4365155	103F-W-05	525.2	07/24/19 13:18	Client	07/26/19 08:45
4364967	103F-W-06	505	07/24/19 13:22	Client	07/26/19 08:45
4365156	103F-W-06	525.2	07/24/19 13:22	Client	07/26/19 08:45
4364968	103F-W-07	505	07/24/19 13:24	Client	07/26/19 08:45
4365157	103F-W-07	525.2	07/24/19 13:34	Client	07/26/19 08:45
4364969	103F-W-08	505	07/24/19 13:42	Client	07/26/19 08:45
4365158	103F-W-08	525.2	07/24/19 13:42	Client	07/26/19 08:45
4364970	103F-W-09	505	07/24/19 13:52	Client	07/26/19 08:45
4365159	103F-W-09	525.2	07/24/19 13:52	Client	07/26/19 08:45

### Report Summary

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Kelly Blackburn at (574) 233-4777.

*Note: This report may not be reproduced, except in full, without written approval from EEA.*

(b) (6)

ASM

09/27/2019

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Authorized Signature

Title

Date

Client Name: OCCU-TEC Inc.

Report #: 464011



Sampling Point: 103F-W-01

PWS ID: Not Supplied

Semi-volatile Organic Chemicals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
12674-11-2	Aroclor 1016	505	---	0.08	< 0.08	ug/L	08/05/19 16:15	08/06/19 03:04	4364962
11104-28-2	Aroclor 1221	505	---	0.19	< 0.19	ug/L	08/05/19 16:15	08/06/19 03:04	4364962
11141-16-5	Aroclor 1232	505	---	0.23	< 0.23	ug/L	08/05/19 16:15	08/06/19 03:04	4364962
53469-21-9	Aroclor 1242	505	---	0.26	< 0.26	ug/L	08/05/19 16:15	08/06/19 03:04	4364962
12672-29-6	Aroclor 1248	505	---	0.1	< 0.1	ug/L	08/05/19 16:15	08/06/19 03:04	4364962
11097-69-1	Aroclor 1254	505	---	0.1	< 0.1	ug/L	08/05/19 16:15	08/06/19 03:04	4364962
11096-82-5	Aroclor 1260	505	---	0.2	< 0.2	ug/L	08/05/19 16:15	08/06/19 03:04	4364962
57-74-9	Chlordane	505	2 *	0.1	< 0.1	ug/L	08/05/19 16:15	08/06/19 03:04	4364962
8001-35-2	Toxaphene	505	3 *	1.0	< 1.0	ug/L	08/05/19 16:15	08/06/19 03:04	4364962
83-32-9	Acenaphthene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 07:57	08/07/19 04:05	4365151
208-96-8	Acenaphthylene	525.2	---	0.1	< 0.1	ug/L	07/31/19 07:57	08/07/19 04:05	4365151
120-12-7	Anthracene	525.2	---	0.1	< 0.1	ug/L	07/31/19 07:57	08/07/19 04:05	4365151
56-55-3	Benzo(a)anthracene	525.2	---	0.1	< 0.1	ug/L	07/31/19 07:57	08/07/19 04:05	4365151
205-99-2	Benzo(b)fluoranthene	525.2	---	0.1	< 0.1	ug/L	07/31/19 07:57	08/07/19 04:05	4365151
207-08-9	Benzo(k)fluoranthene	525.2	---	0.1	< 0.1	ug/L	07/31/19 07:57	08/07/19 04:05	4365151
191-24-2	Benzo(g,h,i)perylene	525.2	---	0.1	< 0.1	ug/L	07/31/19 07:57	08/07/19 04:05	4365151
50-32-8	Benzo(a)pyrene	525.2	0.2 *	0.02	< 0.02	ug/L	07/31/19 07:57	08/07/19 04:05	4365151
218-01-9	Chrysene	525.2	---	0.1	< 0.1	ug/L	07/31/19 07:57	08/07/19 04:05	4365151
53-70-3	Dibenzo(a,h)anthracene	525.2	---	0.1	< 0.1	ug/L	07/31/19 07:57	08/07/19 04:05	4365151
206-44-0	Fluoranthene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 07:57	08/07/19 04:05	4365151
86-73-7	Fluorene	525.2	---	0.1	< 0.1	ug/L	07/31/19 07:57	08/07/19 04:05	4365151
193-39-5	Indeno(1,2,3-cd)pyrene	525.2	---	0.1	< 0.1	ug/L	07/31/19 07:57	08/07/19 04:05	4365151
90-12-0	1-Methylnaphthalene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 07:57	08/07/19 04:05	4365151
91-57-6	2-Methylnaphthalene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 07:57	08/07/19 04:05	4365151
91-20-3	Naphthalene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 07:57	08/07/19 04:05	4365151
85-01-8	Phenanthrene	525.2	---	0.1	< 0.1	ug/L	07/31/19 07:57	08/07/19 04:05	4365151
129-00-0	Pyrene	525.2	---	0.1	< 0.1	ug/L	07/31/19 07:57	08/07/19 04:05	4365151

Any positive Aroclor result would require analysis for total PCB as decachlorobiphenyl by method 508A (MCL = 0.5 ug/L)

§ The state of origin does not offer certification for this parameter.

Sampling Point: 103F-W-02

PWS ID: Not Supplied

Semi-volatile Organic Chemicals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
12674-11-2	Aroclor 1016	505	---	0.08	< 0.08	ug/L	08/05/19 16:15	08/06/19 03:52	4364963
11104-28-2	Aroclor 1221	505	---	0.19	< 0.19	ug/L	08/05/19 16:15	08/06/19 03:52	4364963
11141-16-5	Aroclor 1232	505	---	0.23	< 0.23	ug/L	08/05/19 16:15	08/06/19 03:52	4364963
53469-21-9	Aroclor 1242	505	---	0.26	< 0.26	ug/L	08/05/19 16:15	08/06/19 03:52	4364963
12672-29-6	Aroclor 1248	505	---	0.1	< 0.1	ug/L	08/05/19 16:15	08/06/19 03:52	4364963
11097-69-1	Aroclor 1254	505	---	0.1	< 0.1	ug/L	08/05/19 16:15	08/06/19 03:52	4364963
11096-82-5	Aroclor 1260	505	---	0.2	< 0.2	ug/L	08/05/19 16:15	08/06/19 03:52	4364963
57-74-9	Chlordane	505	2 *	0.1	< 0.1	ug/L	08/05/19 16:15	08/06/19 03:52	4364963
8001-35-2	Toxaphene	505	3 *	1.0	< 1.0	ug/L	08/05/19 16:15	08/06/19 03:52	4364963
83-32-9	Acenaphthene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 07:57	08/07/19 04:46	4365152
208-96-8	Acenaphthylene	525.2	---	0.1	< 0.1	ug/L	07/31/19 07:57	08/07/19 04:46	4365152
120-12-7	Anthracene	525.2	---	0.1	< 0.1	ug/L	07/31/19 07:57	08/07/19 04:46	4365152
56-55-3	Benzo(a)anthracene	525.2	---	0.1	< 0.1	ug/L	07/31/19 07:57	08/07/19 04:46	4365152
205-99-2	Benzo(b)fluoranthene	525.2	---	0.1	< 0.1	ug/L	07/31/19 07:57	08/07/19 04:46	4365152
207-08-9	Benzo(k)fluoranthene	525.2	---	0.1	< 0.1	ug/L	07/31/19 07:57	08/07/19 04:46	4365152
191-24-2	Benzo(g,h,i)perylene	525.2	---	0.1	< 0.1	ug/L	07/31/19 07:57	08/07/19 04:46	4365152
50-32-8	Benzo(a)pyrene	525.2	0.2 *	0.02	< 0.02	ug/L	07/31/19 07:57	08/07/19 04:46	4365152
218-01-9	Chrysene	525.2	---	0.1	< 0.1	ug/L	07/31/19 07:57	08/07/19 04:46	4365152
53-70-3	Dibenzo(a,h)anthracene	525.2	---	0.1	< 0.1	ug/L	07/31/19 07:57	08/07/19 04:46	4365152
206-44-0	Fluoranthene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 07:57	08/07/19 04:46	4365152
86-73-7	Fluorene	525.2	---	0.1	< 0.1	ug/L	07/31/19 07:57	08/07/19 04:46	4365152
193-39-5	Indeno(1,2,3-cd)pyrene	525.2	---	0.1	< 0.1	ug/L	07/31/19 07:57	08/07/19 04:46	4365152
90-12-0	1-Methylnaphthalene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 07:57	08/07/19 04:46	4365152
91-57-6	2-Methylnaphthalene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 07:57	08/07/19 04:46	4365152
91-20-3	Naphthalene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 07:57	08/07/19 04:46	4365152
85-01-8	Phenanthrene	525.2	---	0.1	< 0.1	ug/L	07/31/19 07:57	08/07/19 04:46	4365152
129-00-0	Pyrene	525.2	---	0.1	< 0.1	ug/L	07/31/19 07:57	08/07/19 04:46	4365152

Any positive Aroclor result would require analysis for total PCB as decachlorobiphenyl by method 508A (MCL = 0.5 ug/L)

§ The state of origin does not offer certification for this parameter.

Sampling Point: 103F-W-03

PWS ID: Not Supplied

Semi-volatile Organic Chemicals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
12674-11-2	Aroclor 1016	505	---	0.08	< 0.08	ug/L	08/05/19 16:15	08/06/19 04:16	4364964
11104-28-2	Aroclor 1221	505	---	0.19	< 0.19	ug/L	08/05/19 16:15	08/06/19 04:16	4364964
11141-16-5	Aroclor 1232	505	---	0.23	< 0.23	ug/L	08/05/19 16:15	08/06/19 04:16	4364964
53469-21-9	Aroclor 1242	505	---	0.26	< 0.26	ug/L	08/05/19 16:15	08/06/19 04:16	4364964
12672-29-6	Aroclor 1248	505	---	0.1	< 0.1	ug/L	08/05/19 16:15	08/06/19 04:16	4364964
11097-69-1	Aroclor 1254	505	---	0.1	< 0.1	ug/L	08/05/19 16:15	08/06/19 04:16	4364964
11096-82-5	Aroclor 1260	505	---	0.2	< 0.2	ug/L	08/05/19 16:15	08/06/19 04:16	4364964
57-74-9	Chlordane	505	2 *	0.1	< 0.1	ug/L	08/05/19 16:15	08/06/19 04:16	4364964
8001-35-2	Toxaphene	505	3 *	1.0	< 1.0	ug/L	08/05/19 16:15	08/06/19 04:16	4364964
83-32-9	Acenaphthene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 00:01	4365153
208-96-8	Acenaphthylene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 00:01	4365153
120-12-7	Anthracene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 00:01	4365153
56-55-3	Benzo(a)anthracene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 00:01	4365153
205-99-2	Benzo(b)fluoranthene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 00:01	4365153
207-08-9	Benzo(k)fluoranthene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 00:01	4365153
191-24-2	Benzo(g,h,i)perylene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 00:01	4365153
50-32-8	Benzo(a)pyrene	525.2	0.2 *	0.02	< 0.02	ug/L	07/31/19 08:18	08/07/19 00:01	4365153
218-01-9	Chrysene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 00:01	4365153
53-70-3	Dibenzo(a,h)anthracene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 00:01	4365153
206-44-0	Fluoranthene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 00:01	4365153
86-73-7	Fluorene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 00:01	4365153
193-39-5	Indeno(1,2,3-cd)pyrene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 00:01	4365153
90-12-0	1-Methylnaphthalene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 00:01	4365153
91-57-6	2-Methylnaphthalene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 00:01	4365153
91-20-3	Naphthalene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 00:01	4365153
85-01-8	Phenanthrene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 00:01	4365153
129-00-0	Pyrene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 00:01	4365153

Any positive Aroclor result would require analysis for total PCB as decachlorobiphenyl by method 508A (MCL = 0.5 ug/L)

§ The state of origin does not offer certification for this parameter.

Sampling Point: 103F-W-04

PWS ID: Not Supplied

Semi-volatile Organic Chemicals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
12674-11-2	Aroclor 1016	505	---	0.08	< 0.08	ug/L	08/05/19 16:15	08/06/19 04:41	4364965
11104-28-2	Aroclor 1221	505	---	0.19	< 0.19	ug/L	08/05/19 16:15	08/06/19 04:41	4364965
11141-16-5	Aroclor 1232	505	---	0.23	< 0.23	ug/L	08/05/19 16:15	08/06/19 04:41	4364965
53469-21-9	Aroclor 1242	505	---	0.26	< 0.26	ug/L	08/05/19 16:15	08/06/19 04:41	4364965
12672-29-6	Aroclor 1248	505	---	0.1	< 0.1	ug/L	08/05/19 16:15	08/06/19 04:41	4364965
11097-69-1	Aroclor 1254	505	---	0.1	< 0.1	ug/L	08/05/19 16:15	08/06/19 04:41	4364965
11096-82-5	Aroclor 1260	505	---	0.2	< 0.2	ug/L	08/05/19 16:15	08/06/19 04:41	4364965
57-74-9	Chlordane	505	2 *	0.1	< 0.1	ug/L	08/05/19 16:15	08/06/19 04:41	4364965
8001-35-2	Toxaphene	505	3 *	1.0	< 1.0	ug/L	08/05/19 16:15	08/06/19 04:41	4364965
83-32-9	Acenaphthene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 00:42	4365154
208-96-8	Acenaphthylene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 00:42	4365154
120-12-7	Anthracene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 00:42	4365154
56-55-3	Benzo(a)anthracene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 00:42	4365154
205-99-2	Benzo(b)fluoranthene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 00:42	4365154
207-08-9	Benzo(k)fluoranthene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 00:42	4365154
191-24-2	Benzo(g,h,i)perylene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 00:42	4365154
50-32-8	Benzo(a)pyrene	525.2	0.2 *	0.02	< 0.02	ug/L	07/31/19 08:18	08/07/19 00:42	4365154
218-01-9	Chrysene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 00:42	4365154
53-70-3	Dibenzo(a,h)anthracene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 00:42	4365154
206-44-0	Fluoranthene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 00:42	4365154
86-73-7	Fluorene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 00:42	4365154
193-39-5	Indeno(1,2,3-cd)pyrene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 00:42	4365154
90-12-0	1-Methylnaphthalene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 00:42	4365154
91-57-6	2-Methylnaphthalene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 00:42	4365154
91-20-3	Naphthalene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 00:42	4365154
85-01-8	Phenanthrene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 00:42	4365154
129-00-0	Pyrene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 00:42	4365154

Any positive Aroclor result would require analysis for total PCB as decachlorobiphenyl by method 508A (MCL = 0.5 ug/L)

§ The state of origin does not offer certification for this parameter.

Sampling Point: 103F-W-05

PWS ID: Not Supplied

Semi-volatile Organic Chemicals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
12674-11-2	Aroclor 1016	505	---	0.08	< 0.08	ug/L	08/05/19 16:15	08/06/19 05:05	4364966
11104-28-2	Aroclor 1221	505	---	0.19	< 0.19	ug/L	08/05/19 16:15	08/06/19 05:05	4364966
11141-16-5	Aroclor 1232	505	---	0.23	< 0.23	ug/L	08/05/19 16:15	08/06/19 05:05	4364966
53469-21-9	Aroclor 1242	505	---	0.26	< 0.26	ug/L	08/05/19 16:15	08/06/19 05:05	4364966
12672-29-6	Aroclor 1248	505	---	0.1	< 0.1	ug/L	08/05/19 16:15	08/06/19 05:05	4364966
11097-69-1	Aroclor 1254	505	---	0.1	< 0.1	ug/L	08/05/19 16:15	08/06/19 05:05	4364966
11096-82-5	Aroclor 1260	505	---	0.2	< 0.2	ug/L	08/05/19 16:15	08/06/19 05:05	4364966
57-74-9	Chlordane	505	2 *	0.1	< 0.1	ug/L	08/05/19 16:15	08/06/19 05:05	4364966
8001-35-2	Toxaphene	505	3 *	1.0	< 1.0	ug/L	08/05/19 16:15	08/06/19 05:05	4364966
83-32-9	Acenaphthene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 01:23	4365155
208-96-8	Acenaphthylene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 01:23	4365155
120-12-7	Anthracene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 01:23	4365155
56-55-3	Benzo(a)anthracene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 01:23	4365155
205-99-2	Benzo(b)fluoranthene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 01:23	4365155
207-08-9	Benzo(k)fluoranthene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 01:23	4365155
191-24-2	Benzo(g,h,i)perylene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 01:23	4365155
50-32-8	Benzo(a)pyrene	525.2	0.2 *	0.02	< 0.02	ug/L	07/31/19 08:18	08/07/19 01:23	4365155
218-01-9	Chrysene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 01:23	4365155
53-70-3	Dibenzo(a,h)anthracene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 01:23	4365155
206-44-0	Fluoranthene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 01:23	4365155
86-73-7	Fluorene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 01:23	4365155
193-39-5	Indeno(1,2,3-cd)pyrene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 01:23	4365155
90-12-0	1-Methylnaphthalene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 01:23	4365155
91-57-6	2-Methylnaphthalene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 01:23	4365155
91-20-3	Naphthalene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 01:23	4365155
85-01-8	Phenanthrene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 01:23	4365155
129-00-0	Pyrene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 01:23	4365155

Any positive Aroclor result would require analysis for total PCB as decachlorobiphenyl by method 508A (MCL = 0.5 ug/L)

§ The state of origin does not offer certification for this parameter.

Sampling Point: 103F-W-06

PWS ID: Not Supplied

Semi-volatile Organic Chemicals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
12674-11-2	Aroclor 1016	505	---	0.08	< 0.08	ug/L	08/05/19 16:15	08/06/19 05:29	4364967
11104-28-2	Aroclor 1221	505	---	0.19	< 0.19	ug/L	08/05/19 16:15	08/06/19 05:29	4364967
11141-16-5	Aroclor 1232	505	---	0.23	< 0.23	ug/L	08/05/19 16:15	08/06/19 05:29	4364967
53469-21-9	Aroclor 1242	505	---	0.26	< 0.26	ug/L	08/05/19 16:15	08/06/19 05:29	4364967
12672-29-6	Aroclor 1248	505	---	0.1	< 0.1	ug/L	08/05/19 16:15	08/06/19 05:29	4364967
11097-69-1	Aroclor 1254	505	---	0.1	< 0.1	ug/L	08/05/19 16:15	08/06/19 05:29	4364967
11096-82-5	Aroclor 1260	505	---	0.2	< 0.2	ug/L	08/05/19 16:15	08/06/19 05:29	4364967
57-74-9	Chlordane	505	2 *	0.1	< 0.1	ug/L	08/05/19 16:15	08/06/19 05:29	4364967
8001-35-2	Toxaphene	505	3 *	1.0	< 1.0	ug/L	08/05/19 16:15	08/06/19 05:29	4364967
83-32-9	Acenaphthene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 02:04	4365156
208-96-8	Acenaphthylene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 02:04	4365156
120-12-7	Anthracene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 02:04	4365156
56-55-3	Benzo(a)anthracene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 02:04	4365156
205-99-2	Benzo(b)fluoranthene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 02:04	4365156
207-08-9	Benzo(k)fluoranthene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 02:04	4365156
191-24-2	Benzo(g,h,i)perylene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 02:04	4365156
50-32-8	Benzo(a)pyrene	525.2	0.2 *	0.02	< 0.02	ug/L	07/31/19 08:18	08/07/19 02:04	4365156
218-01-9	Chrysene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 02:04	4365156
53-70-3	Dibenzo(a,h)anthracene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 02:04	4365156
206-44-0	Fluoranthene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 02:04	4365156
86-73-7	Fluorene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 02:04	4365156
193-39-5	Indeno(1,2,3-cd)pyrene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 02:04	4365156
90-12-0	1-Methylnaphthalene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 02:04	4365156
91-57-6	2-Methylnaphthalene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 02:04	4365156
91-20-3	Naphthalene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 02:04	4365156
85-01-8	Phenanthrene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 02:04	4365156
129-00-0	Pyrene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 02:04	4365156

Any positive Aroclor result would require analysis for total PCB as decachlorobiphenyl by method 508A (MCL = 0.5 ug/L)

§ The state of origin does not offer certification for this parameter.

Sampling Point: 103F-W-07

PWS ID: Not Supplied

Semi-volatile Organic Chemicals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
12674-11-2	Aroclor 1016	505	---	0.08	< 0.08	ug/L	08/05/19 16:15	08/06/19 06:17	4364968
11104-28-2	Aroclor 1221	505	---	0.19	< 0.19	ug/L	08/05/19 16:15	08/06/19 06:17	4364968
11141-16-5	Aroclor 1232	505	---	0.23	< 0.23	ug/L	08/05/19 16:15	08/06/19 06:17	4364968
53469-21-9	Aroclor 1242	505	---	0.26	< 0.26	ug/L	08/05/19 16:15	08/06/19 06:17	4364968
12672-29-6	Aroclor 1248	505	---	0.1	< 0.1	ug/L	08/05/19 16:15	08/06/19 06:17	4364968
11097-69-1	Aroclor 1254	505	---	0.1	< 0.1	ug/L	08/05/19 16:15	08/06/19 06:17	4364968
11096-82-5	Aroclor 1260	505	---	0.2	< 0.2	ug/L	08/05/19 16:15	08/06/19 06:17	4364968
57-74-9	Chlordane	505	2 *	0.1	< 0.1	ug/L	08/05/19 16:15	08/06/19 06:17	4364968
8001-35-2	Toxaphene	505	3 *	1.0	< 1.0	ug/L	08/05/19 16:15	08/06/19 06:17	4364968
83-32-9	Acenaphthene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 02:45	4365157
208-96-8	Acenaphthylene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 02:45	4365157
120-12-7	Anthracene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 02:45	4365157
56-55-3	Benzo(a)anthracene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 02:45	4365157
205-99-2	Benzo(b)fluoranthene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 02:45	4365157
207-08-9	Benzo(k)fluoranthene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 02:45	4365157
191-24-2	Benzo(g,h,i)perylene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 02:45	4365157
50-32-8	Benzo(a)pyrene	525.2	0.2 *	0.02	< 0.02	ug/L	07/31/19 08:18	08/07/19 02:45	4365157
218-01-9	Chrysene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 02:45	4365157
53-70-3	Dibenzo(a,h)anthracene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 02:45	4365157
206-44-0	Fluoranthene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 02:45	4365157
86-73-7	Fluorene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 02:45	4365157
193-39-5	Indeno(1,2,3-cd)pyrene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 02:45	4365157
90-12-0	1-Methylnaphthalene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 02:45	4365157
91-57-6	2-Methylnaphthalene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 02:45	4365157
91-20-3	Naphthalene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 02:45	4365157
85-01-8	Phenanthrene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 02:45	4365157
129-00-0	Pyrene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 02:45	4365157

Any positive Aroclor result would require analysis for total PCB as decachlorobiphenyl by method 508A (MCL = 0.5 ug/L)

§ The state of origin does not offer certification for this parameter.

Sampling Point: 103F-W-08

PWS ID: Not Supplied

Semi-volatile Organic Chemicals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
12674-11-2	Aroclor 1016	505	---	0.08	< 0.08	ug/L	08/05/19 16:15	08/06/19 06:41	4364969
11104-28-2	Aroclor 1221	505	---	0.19	< 0.19	ug/L	08/05/19 16:15	08/06/19 06:41	4364969
11141-16-5	Aroclor 1232	505	---	0.23	< 0.23	ug/L	08/05/19 16:15	08/06/19 06:41	4364969
53469-21-9	Aroclor 1242	505	---	0.26	< 0.26	ug/L	08/05/19 16:15	08/06/19 06:41	4364969
12672-29-6	Aroclor 1248	505	---	0.1	< 0.1	ug/L	08/05/19 16:15	08/06/19 06:41	4364969
11097-69-1	Aroclor 1254	505	---	0.1	< 0.1	ug/L	08/05/19 16:15	08/06/19 06:41	4364969
11096-82-5	Aroclor 1260	505	---	0.2	< 0.2	ug/L	08/05/19 16:15	08/06/19 06:41	4364969
57-74-9	Chlordane	505	2 *	0.1	< 0.1	ug/L	08/05/19 16:15	08/06/19 06:41	4364969
8001-35-2	Toxaphene	505	3 *	1.0	< 1.0	ug/L	08/05/19 16:15	08/06/19 06:41	4364969
83-32-9	Acenaphthene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 23:28	4365158
208-96-8	Acenaphthylene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 23:28	4365158
120-12-7	Anthracene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 23:28	4365158
56-55-3	Benzo(a)anthracene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 23:28	4365158
205-99-2	Benzo(b)fluoranthene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 23:28	4365158
207-08-9	Benzo(k)fluoranthene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 23:28	4365158
191-24-2	Benzo(g,h,i)perylene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 23:28	4365158
50-32-8	Benzo(a)pyrene	525.2	0.2 *	0.02	< 0.02	ug/L	07/31/19 08:18	08/07/19 23:28	4365158
218-01-9	Chrysene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 23:28	4365158
53-70-3	Dibenzo(a,h)anthracene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 23:28	4365158
206-44-0	Fluoranthene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 23:28	4365158
86-73-7	Fluorene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 23:28	4365158
193-39-5	Indeno(1,2,3-cd)pyrene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 23:28	4365158
90-12-0	1-Methylnaphthalene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 23:28	4365158
91-57-6	2-Methylnaphthalene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 23:28	4365158
91-20-3	Naphthalene §	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 23:28	4365158
85-01-8	Phenanthrene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 23:28	4365158
129-00-0	Pyrene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/07/19 23:28	4365158

Any positive Aroclor result would require analysis for total PCB as decachlorobiphenyl by method 508A (MCL = 0.5 ug/L)

§ The state of origin does not offer certification for this parameter.



Sampling Point: 103F-W-09

PWS ID: Not Supplied

Semi-volatile Organic Chemicals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
12674-11-2	Aroclor 1016	505	---	0.08	< 0.08	ug/L	08/05/19 16:15	08/06/19 07:05	4364970
11104-28-2	Aroclor 1221	505	---	0.19	< 0.19	ug/L	08/05/19 16:15	08/06/19 07:05	4364970
11141-16-5	Aroclor 1232	505	---	0.23	< 0.23	ug/L	08/05/19 16:15	08/06/19 07:05	4364970
53469-21-9	Aroclor 1242	505	---	0.26	< 0.26	ug/L	08/05/19 16:15	08/06/19 07:05	4364970
12672-29-6	Aroclor 1248	505	---	0.1	< 0.1	ug/L	08/05/19 16:15	08/06/19 07:05	4364970
11097-69-1	Aroclor 1254	505	---	0.1	< 0.1	ug/L	08/05/19 16:15	08/06/19 07:05	4364970
11096-82-5	Aroclor 1260	505	---	0.2	< 0.2	ug/L	08/05/19 16:15	08/06/19 07:05	4364970
57-74-9	Chlordane	505	2 *	0.1	< 0.1	ug/L	08/05/19 16:15	08/06/19 07:05	4364970
8001-35-2	Toxaphene	505	3 *	1.0	< 1.0	ug/L	08/05/19 16:15	08/06/19 07:05	4364970
83-32-9	Acenaphthene \$	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/08/19 00:09	4365159
208-96-8	Acenaphthylene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/08/19 00:09	4365159
120-12-7	Anthracene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/08/19 00:09	4365159
56-55-3	Benzo(a)anthracene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/08/19 00:09	4365159
205-99-2	Benzo(b)fluoranthene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/08/19 00:09	4365159
207-08-9	Benzo(k)fluoranthene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/08/19 00:09	4365159
191-24-2	Benzo(g,h,i)perylene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/08/19 00:09	4365159
50-32-8	Benzo(a)pyrene	525.2	0.2 *	0.02	< 0.02	ug/L	07/31/19 08:18	08/08/19 00:09	4365159
218-01-9	Chrysene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/08/19 00:09	4365159
53-70-3	Dibenzo(a,h)anthracene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/08/19 00:09	4365159
206-44-0	Fluoranthene \$	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/08/19 00:09	4365159
86-73-7	Fluorene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/08/19 00:09	4365159
193-39-5	Indeno(1,2,3-cd)pyrene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/08/19 00:09	4365159
90-12-0	1-Methylnaphthalene \$	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/08/19 00:09	4365159
91-57-6	2-Methylnaphthalene \$	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/08/19 00:09	4365159
91-20-3	Naphthalene \$	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/08/19 00:09	4365159
85-01-8	Phenanthrene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/08/19 00:09	4365159
129-00-0	Pyrene	525.2	---	0.1	< 0.1	ug/L	07/31/19 08:18	08/08/19 00:09	4365159

Any positive Aroclor result would require analysis for total PCB as decachlorobiphenyl by method 508A (MCL = 0.5 ug/L)

\$ The state of origin does not offer certification for this parameter.

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

<b>Reg Limit Type:</b>	MCL	SMCL	AL
<b>Symbol:</b>	*	^	!

## Lab Definitions

**Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC)** - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

**Internal Standards (IS)** - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

**Laboratory Duplicate (LD)** - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

**Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS)** - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

**Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB)** - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

**Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB)** - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

**Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD)** - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

**Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM)** - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

**Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV)** - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

**Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS)** - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

**Surrogate Standard (SS) / Surrogate Analyte (SUR)** - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

