



TOWN OF SALEM, NEW HAMPSHIRE

33 GEREMONTY DRIVE, SALEM, NH 03079
(603) 890-2120 · FAX: (603) 890-2220

OFFICE OF THE TOWN MANAGER
Joseph R. Devine, Town Manager

March 31, 2025

Amaya Stanley, Matthew Sichiari



VIA EMAIL:



Dear Ms. Stanley and Mr. Sichiari:

The Town of Salem is in receipt of your request for documents under NH RSA 91-A, which we received on February 26, 2025.

As you know, in accordance with NH RSA 91-A:4, IV(b-1-3), the Town of Salem shall, within five business days, “make such record available, deny the request (to include a brief explanation of how the exemption applies to the record withheld), or provide a written statement of the time reasonably necessary to determine whether the request shall be granted or denied and the reason for the delay.” Please consider this letter as fulfillment of your request.

In your request, you specifically requested the following:

- 1. The name of any and all Water Companies or Departments that service the following address(es) from 06/01/1994 to 06/01/1995: 20 Tiffany Road, Salem, New Hampshire 03079;*
 - 2. Any and all investigative reports, investigative files, testing on groundwater or water systems, or information obtained or created as it relates to Per-and-Polyfluoroalkyl Substances, Perfluorooctanesulfonic Acid, Perfluorooctanoic Acid, GenX, or other “Forever Chemicals” within the boundaries of your jurisdiction from the beginning of time through present;*
 - 3. Any and all counsel meetings, department notices, electronic communications, or available information exchanged within the town departments as it relates to Per-and-Polyfluoroalkyl Substances, Perfluorooctanesulfonic Acid, Perfluorooctanoic Acid, GenX, or other “Forever Chemicals” within the boundaries of your*
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*jurisdiction from the beginning
of time through present;*

*4. Any and all notices, warnings, or awareness information sent
to individuals within your
jurisdiction about the dangers or harmful effects of Per-and-
Polyfluoroalkyl Substances,
Perfluorooctanesulfonic Acid, Perfluorooctanoic Acid, GenX, or
other “Forever
Chemicals” within the boundaries of your jurisdiction from the
beginning of time through
present;*

*5. Any and all information, tests, investigative reports, and the
results thereof as it relates to
the following water sources within the boundaries of the
municipalities’ jurisdiction:*

*agricultural runoff; construction site runoff; cooling tower
discharge; desalination effluent;
drainage water; fracking or oil and gas extraction water;
groundwater; industrial water;
irrigation return flow; landfill leachate; mining discharge;
municipal water; private well
water; reclaimed or recycled water; reservoir water; saltwater
intrusion areas; sediment
water samples; snowmelt water; stormwater runoff; surface
water; water system pipelines;
and wastewater;*

*6. Any and all results upon the aforementioned water sources in
request No. 5 from the
following types of tests within the boundaries of the
municipalities: physical; chemical;
biological; radiological; specialized contaminant, soil, and
sediment; and toxicity;*

*7. Any and all results upon the aforementioned water sources in
request No. 5 from the
following specific analytic Environmental Protection Agency
(“EPA”) methods within the
boundaries of the municipalities: 537, 537.1, 533, 8327, and
1633; and*

*8. Any and all results from any and all targeted and non-
targeted analyses of water, sediment,
and soil within the boundaries of the municipalities.*



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Joseph R. Devine, Town Manager

Enclosed are all records from the both the Town's Water and Engineering Department relating to your request. This should satisfy your request with the Town of Salem. If you have any questions, please don't hesitate to contact me at 603-685-6421.

Sincerely,

Madeleine Baptiste

Madeleine Baptiste
Right To Know Specialist

CAPTAINS POND
Salem, NH

- (1) This study was initiated due to concern of aquatic invasive species present within Captains Pond
- (2) The purpose of this study is to document presence and distribution of invasive and native species, primarily macrophytes, through implementation of a point-intercept survey methodology
- (3) Worksheet 'SurveyData_Abundance' summarizes all macrophytes and their respective abundance documented during the survey
- (4) Worksheet series 'WQ_' summarize chemistry data collected from predetermined locations in the pond
- (5) Worksheet 'Sediment' summarizes sediment composite data collected on 7/29/2022
- (6) Worksheet series 'Algae_' summarizes the algae species identified from the 2022 samples

CAPTAINS POND
2022 VEGETATION SURVEY AND WATER QUALITY ANALYSIS
SURVEY DATA

Red denotes invasive species

Point Number	Overall Abundance	Myriophyllum heterophyllum	Najas minor	Najas guadalupensis	Potamogeton richardsonii	Vallisneria sp.	Utricularia vulgaris	Utricularia radiata	Utricularia purpurea	Potamogeton sp. (thinleaf)	Najas flexilis	Utricularia gibba	Potamogeton spirillus	Macroalgae (Chara/Nitella)	Potamogeton epihydrus	Myriophyllum verticillata	Potamogeton robbinsii	Nymphaea odorata	Nuphar variegata	Nymphoides cordata	Brasenia schreberi
1	4	3	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	3	3	-	-
2	4	1	2	-	2	3	1	-	2	-	2	1	-	-	-	-	-	-	1	-	-
3	4	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	4	1	-	-
4	4	-	-	1	-	3	1	-	2	-	2	1	-	-	-	-	-	4	1	-	-
5	4	-	-	3	-	3	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-
6	4	-	-	3	2	3	-	-	1	-	-	-	-	-	-	-	-	3	-	-	-
7	4	-	1	3	1	2	-	-	1	-	-	-	-	-	-	-	-	4	-	-	-
8	4	-	-	-	-	2	-	-	2	-	-	-	-	-	-	-	-	3	-	1	1
9	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	4	-	-	3	-	2	-	-	-	-	-	-	-	-	-	-	-	4	1	-	-
11	3	-	-	3	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
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74	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CAPTAINS POND
2022 VEGETATION SURVEY AND WATER QUALITY ANALYSIS
SURVEY DATA

Red denotes invasive species

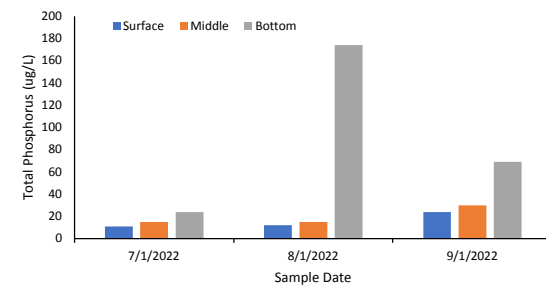
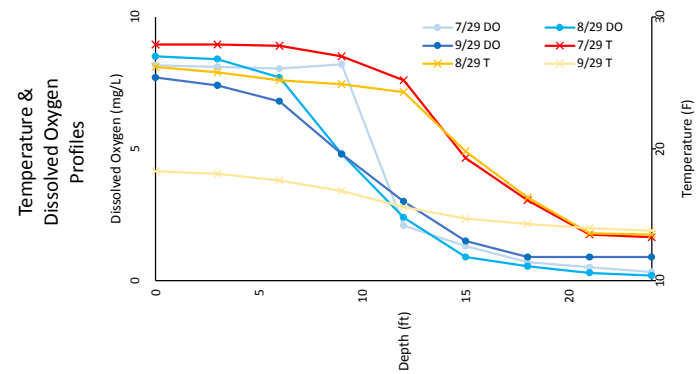
Point Number	Overall Abundance	Myriophyllum heterophyllum	Najas minor	Najas guadalupensis	Potamogeton richardsonii	Vallisneria sp.	Utricularia vulgaris	Utricularia radiata	Utricularia purpurea	Potamogeton sp. (thinleaf)	Najas flexilis	Utricularia gibba	Potamogeton spirillus	Macroalgae (Chara/Nitella)	Potamogeton epihydrus	Myriophyllum verticillata	Potamogeton robbinsii	Nymphaea odorata	Nuphar variegata	Nymphoides cordata	Brasenia schreberi
75	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
76	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
77	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
78	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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91	4	-	-	2	3	2	-	1	1	-	1	1	-	-	-	-	-	1	1	1	-
Occurrence	59	2	10	44	16	37	7	3	18	3	4	6	1	3	0	2	1	15	11	8	5
%Presence	64.8%	3.4%	16.9%	74.6%	27.1%	62.7%	11.9%	5.1%	30.5%	5.1%	6.8%	10.2%	1.7%	5.1%	0.0%	3.4%	1.7%	25.4%	18.6%	13.6%	8.5%
Avg Abundance	3	2	2	2	2	2	1	1	1	1	2	1	1	1	0	1	1	3	1	1	1

CAPTAINS POND
2022 VEGETATION SURVEY AND WATER QUALITY ANALYSIS
WATER QUALITY SAMPLING SUMMARY - DEEP SPOT

Value 1/2 the lowest detection limit

	Date	Surface	Middle	Bottom
Clarity	7/29/2022	7.333333		
	8/29/2022	5.166667		
	9/29/2022	6.416667		
	Average 6.305556			
pH	7/29/2022	7.6	7.2	7.1
	8/29/2022	-	-	-
	9/29/2022	7.4	7.1	7.1
Turbidity	7/29/2022	0.91	1.1	2
	8/29/2022	5.5	4.8	11
	9/29/2022	1.2	1.4	1.8
SpC	7/29/2022	250	260	260
	8/29/2022	270	270	240
	9/29/2022	230	240	230
NH3-N	7/29/2022	0.097	0.0375	0.0375
	8/29/2022	0.125	0.0375	0.0375
	9/29/2022	0.0375	0.0375	0.372
TKN	7/29/2022	0.526	0.499	0.564
	8/29/2022	0.679	0.774	0.834
	9/29/2022	0.866	0.577	1.21
TP	7/29/2022	11	15	24
	8/29/2022	12	15	174
	9/29/2022	24	30	69
SRP	7/29/2022	5	5	5
	8/29/2022	5	5	5
	9/29/2022	11	11	5

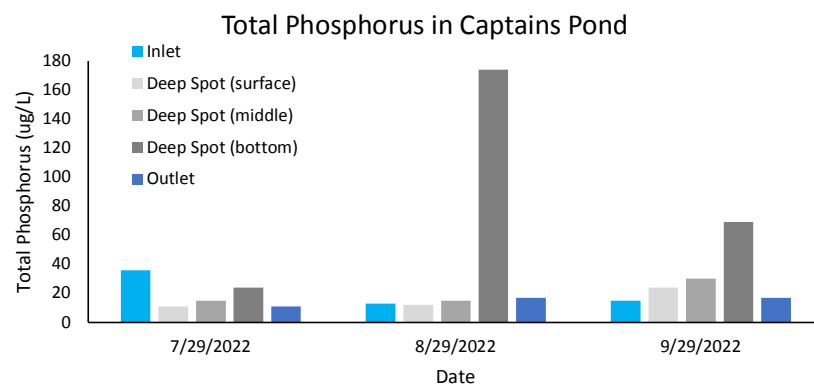
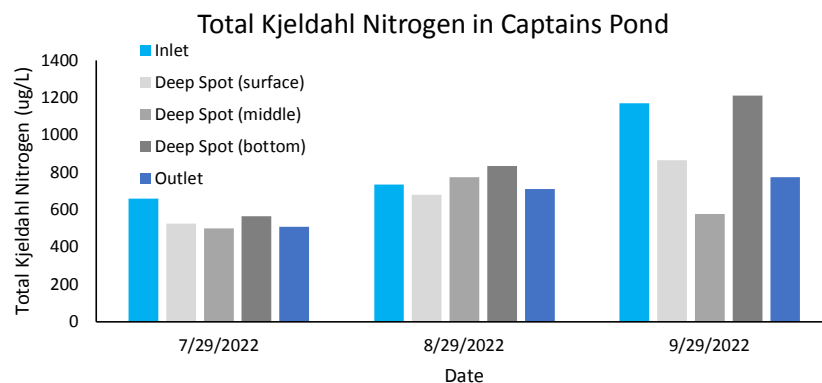
DO/Temp Profile		7/29/2022		8/29/2022		9/29/2022	
Depth (m)		7/29 T	7/29 DO	8/29 T	8/29 DO	9/29 T	9/29 DO
0		27.9	8.17	26.2	8.5	18.3	7.7
3		27.9	8.11	25.8	8.4	18.1	7.4
6		27.8	8.04	25.2	7.7	17.6	6.8
9		27	8.2	24.9	4.8	16.8	4.8
12		25.2	2.09	24.3	2.4	15.6	3
15		19.3	1.31	19.8	0.9	14.7	1.5
18		16.1	0.71	16.3	0.55	14.3	0.9
21		13.5	0.51	13.6	0.3	14	0.9
24		13.3	0.33	13.5	0.2	13.8	0.9



CAPTAINS POND
2022 VEGETATION SURVEY AND WATER QUALITY ANALYSIS
WATER QUALITY SAMPLING SUMMARY

	Date	Inlet	Deep Spot (surface)	Deep Spot (middle)	Deep Spot (bottom)	Outlet
pH	7/29/2022	7.4	7.6	7.2	7.1	6.9
	8/29/2022	7.5	7.6	7.2	7.1	6.9
	9/29/2022	7.5	7.4	7.1	7.1	6.9
Turbidity NTU	7/29/2022	1.6	0.91	1.1	2	0.98
	8/29/2022	4.8	5.5	4.8	11	2.4
	9/29/2022	0.79	1.2	1.4	1.8	0.96
SpC (µS/cm)	7/29/2022	260	250	260	260	250
	8/29/2022	280	270	270	240	280
	9/29/2022	220	230	240	230	220
NH3-N mg/L	7/29/2022	0.099	0.097	0.0375	0.0375	0.0375
	8/29/2022	0.0375	0.125	0.0375	0.0375	0.0375
	9/29/2022	0.119	0.0375	0.0375	0.372	0.0375
TKN (µg/L)	7/29/2022	659	526	499	564	509
	8/29/2022	734	679	774	834	710
	9/29/2022	1170	866	577	1210	774
TP (µg/L)	7/29/2022	36	11	15	24	11
	8/29/2022	13	12	15	174	17
	9/29/2022	15	24	30	69	17
SRP (µg/L)	7/29/2022	12	5	5	5	5
	8/29/2022	5	5	5	5	5
	9/29/2022	5	11	11	5	5

Value 1/2 the lowest detection limit



CAPTAINS POND
2022 VEGETATION SURVEY AND WATER QUALITY ANALYSIS
SEDIMENT RESULTS 7/29/2022

Composite	Apatite & Residual (mg P/kg)	Mobile P Fraction (mg P/kg)	TP (mg P/kg)	%Solids (% Dry Wt.)	% Available
1	126	1135	1261	10	90
2	491	670	1161	8	58
3	173	685	858	11	80
Average	263	830	1093	10	76

CAPTAINS POND

2022 VEGETATION SURVEY AND WATER QUALITY ANALYSIS

ALGAE RESULTS

 Density above NHDES standard 70,000 cells/mL

Date	Site	Classification	Identification	Density/Biomass (cells/mL)
7/29/2022	Surface	Bacillariophyta	Synedra	450
7/29/2022	Surface	Chlorophyta	Oocystis	<40
7/29/2022	Surface	Cyanophyta	Aphanocapsa	<40
7/29/2022	Surface	Cyanophyta	Dolichospermum	<40
7/29/2022	Surface	Dinophyta	Ceratium	<40
7/29/2022	Surface	Euglenophyta	Trachelomonas	<40
7/29/2022	Photic	Synurophyceae	Synura	<40
7/29/2022	Photic	Euglenophyta	Trachelomonas	<40
7/29/2022	Photic	Chlorophyta	Elakatothrix	<40
7/29/2022	Photic	Chlorophyta	Tetraselmis	<40
7/29/2022	Photic	Cyanophyta	Dolichospermum	<40
7/29/2022	Photic	Streptophyta	Staurastrum	<40
8/29/2022	Surface	Cyanophyta	Dolichospermum	20500
8/29/2022	Surface	Bacillariophyta	Cyclotella	<40
8/29/2022	Surface	Bacillariophyta	Fragilaria	<40
8/29/2022	Surface	Chlorophyta	Tetraselmis	<40
8/29/2022	Surface	Cyanophyta	Aphanocapsa	<40
8/29/2022	Surface	Dinophyta	Ceratium	<40
8/29/2022	Photic	Cyanophyta	Dolichospermum	11100
8/29/2022	Photic	Bacillariophyta	Cyclotella	<40
8/29/2022	Photic	Chlorophyta	Tetraedron	<40
8/29/2022	Photic	Streptophyta	Cosmarium	<40
8/29/2022	Photic	Cryptophyta	Cryptomonas	<40
9/29/2022	Surface	Cryptophyta	Cryptomonas	140
9/29/2022	Surface	Bacillariophyta	Cyclotella	<40
9/29/2022	Surface	Chlorophyta	Gonium	<40
9/29/2022	Surface	Dinophyta	Gymnodinium	<40
9/29/2022	Surface	Euglenophyta	Euglena	<40
9/29/2022	Surface	Euglenophyta	Trachelomonas	<40
9/29/2022	Surface	Streptophyta	Staurastrum	<40
9/29/2022	Surface	Chrysophyceae	Uroglena	<40
9/29/2022	Photic	Chrysophyceae	Uroglena	990
9/29/2022	Photic	Cryptophyta	Cryptomonas	210
9/29/2022	Photic	Bacillariophyta	Cyclotella	<40
9/29/2022	Photic	Cyanophyta	Aphanocapsa	<40
9/29/2022	Photic	Euglenophyta	Euglena	<40
9/29/2022	Photic	Euglenophyta	Trachelomonas	<40

CAPTAINS POND
2022 VEGETATION SURVEY AND WATER QUALITY ANALYSIS
ALGAE PRESENCE & DOMINANCE

Dominant algae for that sampling date
- Not identified in sample

Group/Phyla	Species	7/29/2022	8/29/2022	9/29/2022
Diatoms	Synedra	Dominant	-	-
	Cyclotella	-	Present	Present
	Fragilaria	-	Present	-
Synurids	Synura	Present	-	-
Euglenoids	Trachelomonas	Present	-	Present
	Elakatothrix	Present	-	-
	Euglena	-	-	Present
Cyanobacteria	Aphanocapsa	Present	Present	Present
	Dolichospermum	Present	Dominant	-
Green Algae	Gonium	-	-	Present
	Oocystis	Present	-	-
	Tetraedron	-	Present	-
	Tetraselmis	Present	Present	-
Streptophytes	Staurastrum	Present	-	Present
	Cosmarium	-	Present	-
Dinophytes	Ceratium	Present	Present	-
	Gymnodinium	-	-	Present
Golden Brown Algae	Uroglena	-	-	Dominant
Cryptids	Cryptomonas	-	Present	Dominant

Salem, NH - Stormwater Outfall and Stormwater System Sampling Results (FY2015 - FY2025)

General Information										Field Testing Results										Lab Results												
Structure ID Where Sample Was Taken	Catchment ID	Location	Receiving Water	Sample Date and Time	Sampling Collected By	Inspection Type	Pipe Size/ Material	Flow Rate	Temp. (°F)	Salinity (ppt)	Conductivity (µs/cm)	Ammonia (mg/L)	Surfactants (mg/L)	Chlorine (mg/L)	E. Coli (mpn/100 mL)	Ammonia (mg/L)	Surfactants (mg/L)	Arsenic (mg/L)	Iron (mg/L)	Chloride (mg/L)	pH	BOD ₅ (mg/L)	Dissolved Oxygen (mg/L)	Total Phosphate (mg/L)	Total Phosphorus (mg/L)	Free Chlorine (mg/L)	Chlorophyll-a (ppb)	TSS (ppm)	Turbidity (NTU)	Manganese (ppm)	Aluminum (ppm)	Alkalinity (ppm)
CAP-0230-OF	CAP-0230-OF	130 Hooker Farm Rd	Captain Pond	5/21/2015	FB Environmental	Dry Weather Outfall Inspection	-	-	57.0	0	-	-	-	-	1	-	-	10.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAP-0517-OF	CAP-0517-OF	9 Captains Dr	Captain Pond	5/21/2015	FB Environmental	Dry Weather Outfall Inspection	-	-	55.0	1	-	-	-	-	127	-	-	10.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAP-0993-OF	CAP-0993-OF	Olde Village Rd	Captain Pond	5/21/2015	FB Environmental	Dry Weather Outfall Inspection	-	-	55.8	3	-	-	-	-	2	-	-	10.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MIL-0258-OF	MIL-0258-OF	185 Millville St	Millville Pond	5/21/2015	FB Environmental	Dry Weather Outfall Inspection	-	-	58.8	0	-	-	-	-	52	-	-	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MIL-0281-OF	MIL-0281-OF	149 Millville St	Millville Pond	5/21/2015	FB Environmental	Dry Weather Outfall Inspection	-	-	55.2	1	-	-	-	-	<1	-	-	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MIL-0621-OF	MIL-0621-OF	1 Grove Ave	Millville Pond	5/21/2015	FB Environmental	Dry Weather Outfall Inspection	-	-	53.1	2	-	-	-	-	<1	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MIL-0701-OF	MIL-0701-OF	149 Millville St	Millville Pond	5/21/2015	FB Environmental	Dry Weather Outfall Inspection	-	-	55.0	0	-	-	-	-	8	-	-	9.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MIL-0258-OF	MIL-0258-OF	185 Millville St	Millville Pond	6/1/2015	FB Environmental	Wet Weather Outfall Sampling	-	-	59.5	0	327	0.30	0.25	0.1	816	-	-	-	-	-	-	-	8.1	-	-	-	-	-	-	-	-	-
MIL-0281-OF	MIL-0281-OF	149 Millville St	Millville Pond	6/1/2015	FB Environmental	Wet Weather Outfall Sampling	-	-	56.5	2	358	1.00	0.25	0.08	613	-	-	-	-	-	-	-	8.7	-	-	-	-	-	-	-	-	-
MIL-0621-OF	MIL-0621-OF	1 Grove Ave	Millville Pond	6/1/2015	FB Environmental	Wet Weather Outfall Sampling	-	-	56.3	1	766	0.30	0.25	0	>2,420	-	-	-	-	-	-	-	9.7	-	-	-	-	-	-	-	-	-
MIL-0701-OF	MIL-0701-OF	149 Millville St	Millville Pond	6/1/2015	FB Environmental	Wet Weather Outfall Sampling	-	-	55.6	1	627	0.80	0.25	0.01	>2,420	-	-	-	-	-	-	-	8.5	-	-	-	-	-	-	-	-	-
CAP-0230-OF	CAP-0230-OF	130 Hooker Farm Rd	Captain Pond	6/2/2015	FB Environmental	Wet Weather Outfall Sampling	-	-	54.9	0	213	0.20	0.25	0.03	980	-	-	-	-	-	-	-	10.4	-	-	-	-	-	-	-	-	-
CAP-0517-OF	CAP-0517-OF	9 Captains Dr	Captain Pond	6/2/2015	FB Environmental	Wet Weather Outfall Sampling	-	-	53.4	0	127	0.20	0.25	0.03	613	-	-	-	-	-	-	-	9.7	-	-	-	-	-	-	-	-	-
CAP-0611-OF	CAP-0611-OF	110 Hooker Farm Rd	Captain Pond	6/2/2015	FB Environmental	Wet Weather Outfall Sampling	-	-	55.4	2	410	0.40	0.50	0.06	>2,420	-	-	-	-	-	-	-	9.7	-	-	-	-	-	-	-	-	-
CAP-0801-OF	CAP-0801-OF	110 Hooker Farm Rd	Captain Pond	6/2/2015	FB Environmental	Wet Weather Outfall Sampling	-	-	55.0	1	207	0.40	0.25	0.04	>2,420	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-
CAP-0993-OF	CAP-0993-OF	Olde Village Rd	Captain Pond	6/2/2015	FB Environmental	Wet Weather Outfall Sampling	-	-	54.9	1	440	0.20	0.25	0.09	1553	-	-	-	-	-	-	-	10.4	-	-	-	-	-	-	-	-	-
CAP-0517-OF	CAP-0517-OF	9 Captains Dr	Captain Pond	6/12/2015	FB Environmental	Dry Weather Outfall Inspection	-	-	60.3	1	-	-	-	-	1414	-	-	9.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAP-0611-OF	CAP-0611-OF	110 Hooker Farm Rd	Captain Pond	6/12/2015	FB Environmental	Dry Weather Outfall Inspection	-	-	64.4	3	-	-	-	-	225	-	-	7.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAP-0801-OF	CAP-0801-OF	110 Hooker Farm Rd	Captain Pond	6/12/2015	FB Environmental	Dry Weather Outfall Inspection	-	-	65.5	2	-	-	-	-	16	-	-	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAP-0993-OF	CAP-0993-OF	Olde Village Rd	Captain Pond	6/12/2015	FB Environmental	Dry Weather Outfall Inspection	-	-	61.9	1	-	-	-	-	26	-	-	7.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MIL-0258-OF	MIL-0258-OF	185 Millville St	Millville Pond	6/12/2015	FB Environmental	Dry Weather Outfall Inspection	-	-	70.2	0	-	-	-	-	88	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MIL-0281-OF	MIL-0281-OF	149 Millville St	Millville Pond	6/12/2015	FB Environmental	Dry Weather Outfall Inspection	-	-	58.1	3	-	-	-	-	2	-	-	7.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MIL-0621-OF	MIL-0621-OF	1 Grove Ave	Millville Pond	6/12/2015	FB Environmental	Dry Weather Outfall Inspection	-	-	56.1	3	-	-	-	-	1	-	-	9.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MIL-0701-OF	MIL-0701-OF	149 Millville St	Millville Pond	6/12/2015	FB Environmental	Dry Weather Outfall Inspection	-	-	59.0	2	-	-	-	-	187	-	-	9.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAP-0230-OF	CAP-0230-OF	130 Hooker Farm Rd	Captain Pond	7/7/2015	FB Environmental	Dry Weather Outfall Inspection	-	-	65.1	1	-	-	-	-	4	-	-	9.37	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAP-0517-OF	CAP-0517-OF	9 Captains Dr	Captain Pond	7/7/2015	FB Environmental	Dry Weather Outfall Inspection	-	-	63.7	2	-	-	-	-	>2,420	-	-	9.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAP-0611-OF	CAP-0611-OF	110 Hooker Farm Rd	Captain Pond	7/7/2015	FB Environmental	Dry Weather Outfall Inspection	-	-	68.9	1	-	-	-	-	73	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAP-0801-OF	CAP-0801-OF	110 Hooker Farm Rd	Captain Pond	7/7/2015	FB Environmental	Dry Weather Outfall Inspection	-	-	68.4	2	-	-	-	-	0.5	-	-	8.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAP-0993-OF	CAP-0993-OF	Olde Village Rd	Captain Pond	7/7/2015	FB Environmental	Dry Weather Outfall Inspection	-	-	68.0	2	-	-	-	-	78	-	-	8.98	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MIL-0258-OF	MIL-0258-OF	185 Millville St	Millville Pond	7/7/2015	FB Environmental	Dry Weather Outfall Inspection	-	-	72.1	0	-	-	-	-	64	-	-	6.71	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MIL-0281-OF	MIL-0281-OF	149 Millville St	Millville Pond	7/7/2015	FB Environmental	Dry Weather Outfall Inspection	-	-	61.2	1	-	-	-	-	13	-	-	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MIL-0621-OF	MIL-0621-OF	1 Grove																														

Salem, NH - Stormwater Outfall and Stormwater System Sampling Results (FY2015 - FY2025)

General Information										Field Testing Results										Lab Results												
Structure ID Where Sample Was Taken	Catchment ID	Location	Receiving Water	Sample Date and Time	Sampling Collected By	Inspection Type	Pipe Size/ Material	Flow Rate	Temp. (°F)	Salinity (ppt)	Conductivity (µs/cm)	Ammonia (mg/L)	Surfactants (mg/L)	Chlorine (mg/L)	E. Coli (mpn/100 mL)	Ammonia (mg/L)	Surfactants (mg/L)	Arsenic (mg/L)	Iron (mg/L)	Chloride (mg/L)	pH	BOD ₅ (mg/L)	Dissolved Oxygen (mg/L)	Total Phosphate (mg/L)	Total Phosphorus (mg/L)	Free Chlorine (mg/L)	Chlorophyll-a (ppb)	TSS (ppm)	Turbidity (NTU)	Manganese (ppm)	Aluminum (ppm)	Alkalinity (ppm)
CAP-0227-OF	CAP-0227-OF	16 Olde Woode Rd	Captain Pond	5/3/2018	FB Environmental	Dry Weather Outfall Inspection	-	-	54.9	0.4	574	0.25	<0.10	0.15	<1	-	-	9.19	-	-	7.1	<5	-	-	0.02	-	<1.7	-	-	-	-	-
CAP-0229-OF	CAP-0229-OF	-	Captain Pond	5/3/2018	FB Environmental	Dry Weather Outfall Inspection	-	-	57.4	0.1	113	0.25	<0.10	0.13	17	-	-	9.77	-	-	7.3	<5	-	-	0.02	-	<1.5	-	-	-	-	-
CAP-0242-OF	CAP-0242-OF	3 Olde Woode Rd	Captain Pond	5/3/2018	FB Environmental	Dry Weather Outfall Inspection	-	-	50.7	0.5	937	0.25	<0.10	0.07	20	-	-	8.99	-	-	7	<5	-	-	0.07	-	<1.5	-	-	-	-	-
ARL-0878-OF	ARL-0878-OF	285 Shore Dr	Arlington Pond	5/24/2018	FB Environmental	Dry Weather Outfall Inspection	-	-	55.4	0.8	1196	0.25	0.20	0	22	-	-	2.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARL-0879-OF	ARL-0879-OF	319 Shore Dr	Arlington Pond	5/24/2018	FB Environmental	Dry Weather Outfall Inspection	-	-	54.5	1.7	1694	0.00	0.10	0.17	548	-	-	1.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARL-0971-OF	ARL-0971-OF	37 Mary Ann Ave	Arlington Pond	5/24/2018	FB Environmental	Dry Weather Outfall Inspection	-	-	59.5	0.1	235	0.00	-	0.05	-	-	-	1.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAN-0272-OF	CAN-0272-OF	161 N Policy St	Canobie Lake	5/24/2018	FB Environmental	Dry Weather Outfall Inspection	-	-	55.8	0.5	745	0.25	0.10	0.13	<1	-	-	1.85	<0.05	139	6.9	<5	-	-	0.02	-	<1.5	<2.8	<1.0	0.08	<0.05	-
CAP-0228-OF	CAP-0228-OF	-	Captain Pond	5/24/2018	FB Environmental	Dry Weather Outfall Inspection	-	-	57.4	0.2	320	0.25	0.20	0.11	26	-	-	2.64	-	-	-	<5	-	-	0.01	-	<1.5	-	-	-	-	-
CAP-0802-OF	CAP-0802-OF	73 Hooker Farm Rd	Captain Pond	5/24/2018	FB Environmental	Dry Weather Outfall Inspection	-	-	53.8	0.4	591	0.25	0.10	0.06	<1	-	-	5.97	-	-	6.9	<5	-	-	0.02	-	<1.5	-	-	-	-	-
CAP-0243-OF	CAP-0243-OF	49 Hooker Farm Rd	Captain Pond	6/21/2018	FB Environmental	Dry Weather Outfall Inspection	-	-	57.9	0.4	763	0.25	0.10	0.08	461	-	-	0.12	-	-	6.6	<5	-	-	0.05	-	<3.6	-	-	-	-	-
CAN-0272-OF	CAN-0272-OF	161 N Policy St	Canobie Lake	6/25/2018	FB Environmental	Wet Weather Outfall Sampling	-	-	61.9	0.4	807	0.50	0.20	0.15	613	-	-	-	0.2	126	6.8	<5	0.74	-	0.07	-	<2.2	<2.5	-	0.88	<0.050	140
CAP-0243-OF	CAP-0243-OF	49 Hooker Farm Rd	Captain Pond	6/25/2018	FB Environmental	Wet Weather Outfall Sampling	-	-	61.9	0.1	107	0.00	<0.1	0.05	980	-	-	-	-	-	6.9	6	2.88	-	0.09	-	<3.6	-	-	-	-	-
CAP-0802-OF	CAP-0802-OF	73 Hooker Farm Rd	Captain Pond	6/25/2018	FB Environmental	Wet Weather Outfall Sampling	-	-	63.0	0.5	939	0.00	0.10	0.1	19	-	-	-	-	-	7	<5	5.93	-	0.03	-	<3.1	-	-	-	-	-
ARL-0425-OF	ARL-0425-OF	21 Alfred Dr	Arlington Pond	6/28/2018	FB Environmental	Wet Weather Outfall Sampling	-	-	66.0	0.2	477	0.25	<0.1	0	>2,420	-	-	-	-	-	-	-	5.5	-	-	-	-	-	-	-	-	-
CAN-0318-OF	CAN-0318-OF	9 Lake Shore Rd	Canobie Lake	6/28/2018	FB Environmental	Wet Weather Outfall Sampling	-	-	69.3	0	34	0.25	0.20	0.01	>2,420	-	-	-	0.4	<32	7.3	10	8.3	-	0.13	-	<3.6	13	-	0.02	0.5	10
CAN-0584-OF	CAN-0584-OF	85 Lake Shore Rd	Canobie Lake	6/28/2018	FB Environmental	Wet Weather Outfall Sampling	-	-	70.7	0	14	0.00	0.40	0.43	613	-	-	-	0.1	<32	6.9	<5	8	-	0.05	-	<1.8	<5	-	<0.01	0.1	<5
MIL-0285-OF	MIL-0285-OF	6 Scotland Ave	Millville Pond	6/28/2018	FB Environmental	Wet Weather Outfall Sampling	-	-	68.4	0.1	249	0.25	0.20	0.48	1733	-	-	-	-	-	-	-	7.5	-	-	-	-	-	-	-	-	-
MIL-0712-OF	MIL-0712-OF	-	Millville Pond	6/28/2018	FB Environmental	Wet Weather Outfall Sampling	-	-	68.0	0.1	219	0.00	0.10	0.25	326	-	-	-	-	-	-	-	4.4	-	-	-	-	-	-	-	-	-
WEB-0820-OF	WEB-0820-OF	438 S Broadway	World End Brook	7/20/2020 15:35	Weston & Sampson	Dry Weather Outfall Inspection	48" RCP	-	83.2	215	394	0.70	0.25	0.19	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSR-0395-OF	LSR-0395-OF	294 S Broadway	Lower Spicket River	7/21/2020 16:35	Weston & Sampson	Dry Weather Outfall Inspection	48" RCP	-	66.0	750	1360	0.10	0.38	0.04	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSR-0036-OF	LSR-0036-OF	306 S Broadway	Lower Spicket River	7/21/2020 17:05	Weston & Sampson	Dry Weather Outfall Inspection	48" RCP	-	68.0	525	960	0.05	0.68	0.06	68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSR-0150-OF	LSR-0150-OF	45 Ackerman Street	Lower Spicket River	7/22/2020 18:22	Weston & Sampson	Dry Weather Outfall Inspection	15" RCP	-	67.1	483	878	0.15	0.25	0.00	119	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSR-0193-OF	LSR-0193-OF	16 Diana Road	Unnamed Wetland Area	7/22/2020 19:15	Weston & Sampson	Dry Weather Outfall Inspection	24" RCP	-	66.9	201	374	0.10	0.13	0.02	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSR-0511-OF	LSR-0511-OF	12 Brook Hollow Drive	Wilson's Pond	7/28/2020 14:44	Weston & Sampson	Dry Weather Outfall Inspection	15" RCP	-	72.5	243	449	0.10	0.13	0.13	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSR-0313-OF	LSR-0313-OF	377 Main Street	Unnamed Wetland Area	7/28/2020 16:42	Weston & Sampson	Dry Weather Outfall Inspection	24" RCP	-	73.4	753	1326	0.15	0.5	0.00	>2420	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSR-0665-OF	LSR-0665-OF	Ganley Drive	Detention Basin to Spicket River	7/29/2020 14:01	Weston & Sampson	Dry Weather Outfall Inspection	18" HDPE	-	62.7	74.4	140	0.10	0.25	0.02	52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSR-0350-OF	LSR-0350-OF	12 Brown Street	Lower Spicket River	7/29/2020 14:36	Weston & Sampson	Dry Weather Outfall Inspection	15" HDPE	-	65.8	310	572	0.80	0.25	0.04	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HIT-0602-OF	HIT-0602-OF	Shadow Lake Road	Hittytty Brook	7/31/2020 12:42	Weston & Sampson	Dry Weather Outfall Inspection	18" RCP	-	71.3	652	1176	0.60	0.38	0.06	173	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Salem, NH - Stormwater Outfall and Stormwater System Sampling Results (FY2015 - FY2025)

General Information										Field Testing Results										Lab Results												
Structure ID Where Sample Was Taken	Catchment ID	Location	Receiving Water	Sample Date and Time	Sampling Collected By	Inspection Type	Pipe Size/ Material	Flow Rate	Temp. (°F)	Salinity (ppt)	Conductivity (µs/cm)	Ammonia (mg/L)	Surfactants (mg/L)	Chlorine (mg/L)	E. Coli (mpn/100 mL)	Ammonia (mg/L)	Surfactants (mg/L)	Arsenic (mg/L)	Iron (mg/L)	Chloride (mg/L)	pH	BOD ₅ (mg/L)	Dissolved Oxygen (mg/L)	Total Phosphate (mg/L)	Total Phosphorus (mg/L)	Free Chlorine (mg/L)	Chlorophyll-a (ppb)	TSS (ppm)	Turbidity (NTU)	Manganese (ppm)	Aluminum (ppm)	Alkalinity (ppm)
ARL-5899-D	ARL-0223-OF	Shore Dr	Arlington Pond	10/7/2021 12:32	Weston & Sampson	Catchment Investigation	12" Cast Iron	-	61	0.268	490	0	0.25	0	326	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARL-5810-D	ARL-0877-OF	Shore Dr	Wetland draining to Arlington Pond	10/7/2021 13:40	Weston & Sampson	Catchment Investigation	12" HDPE	-	61	0.222	404	0	0.25	0.03	365	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAN-2056-D	CAN-0317-OF	S Shore Rd	Canobie Lake	10/7/2021 14:31	Weston & Sampson	Catchment Investigation	12" HDPE	-	60.5	0.288	510	0.3	0.25	0	276	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MIL-4168-D	MIL-0621-OF	Grove Ave	-	10/7/2021 15:24	Weston & Sampson	Catchment Investigation	15" CMP	-	65.3	0.346	622	0.8	0.25	0.01	261	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MIL-5580-D	MIL-0701-OF	Millville St	-	10/8/2021 12:49	Weston & Sampson	Catchment Investigation	15" CMP	-	58.7	0.347	628	0.8	0.25	0.21	1120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARL-1057-D	ARL-0164-OF	N Main St	Connecting stream from Arlington Pond to Taylor Reservoir	10/8/2021 13:29	Weston & Sampson	Catchment Investigation	12" CMP	-	65.5	0.539	954	0	0.25	0.09	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARL-1058-D	ARL-0164-OF	N Main St	Connecting stream from Arlington Pond to Taylor Reservoir	10/8/2021 13:48	Weston & Sampson	Catchment Investigation	12" CMP	-	66	0.547	951	0	0.25	0	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARL-1055-D	ARL-0164-OF	N Main St	Connecting stream from Arlington Pond to Taylor Reservoir	10/8/2021 14:03	Weston & Sampson	Catchment Investigation	12" CMP	-	63.8	0.402	722	0	0.25	0	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARL-1053-D	ARL-0164-OF	N Main St	Connecting stream from Arlington Pond to Taylor Reservoir	10/8/2021 14:18	Weston & Sampson	Catchment Investigation	30" RCP	-	66	0.363	653	0	0.25	0.1	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARL-1553-D	ARL-0217-OF	Independence Dr	Arlington Pond	10/8/2021 15:10	Weston & Sampson	Catchment Investigation	15" RCP	-	65.4	0.3	543	0	0.25	0	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARL-3485-D	ARL-0217-OF	Independence Dr	Arlington Pond	10/8/2021 15:30	Weston & Sampson	Catchment Investigation	12" RCP	-	65.2	0.371	666	0	0.25	0.06	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARL-2884-D	ARL-0426-OF	Sandy Beach Rd	Arlington Pond	10/12/2021 11:49	Weston & Sampson	Catchment Investigation	15" HDPE	-	58	0.367	662	0.1	0.25	0.09	59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARL-2885-D	ARL-0426-OF	Sandy Beach Rd	Arlington Pond	10/12/2021 12:03	Weston & Sampson	Catchment Investigation	15" HDPE	-	58	0.447	631	0.1	0.25	0.1	86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARL-3477-D	ARL-0426-OF	Sandy Beach Rd	Arlington Pond	10/12/2021 12:17	Weston & Sampson	Catchment Investigation	15" HDPE	-	56.7	0.358	651	0.1	0.25	0.09	86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARL-3476-D	ARL-0427-OF	Blake Rd	Arlington Pond	10/12/2021 12:50	Weston & Sampson	Catchment Investigation	12" HDPE	-	59.1	0.308	559	0	0.5	0	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARL-2888-D	ARL-0427-OF	Blake Rd	Arlington Pond	10/12/2021 13:18	Weston & Sampson	Catchment Investigation	12" HDPE	-	60.8	0.445	796	0.4	0.5	0	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAP-1641-D	CAP-0239-OF	Shannon Rd	Captain Pond Brook	10/12/2021 14:13	Weston & Sampson	Catchment Investigation	12" CMP	-	63.2	0.441	738	0	0.25	0.07	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAP-1640-D	CAP-0239-OF	Shannon Rd	Captain Pond Brook	10/12/2021 14:33	Weston & Sampson	Catchment Investigation	12" HDPE	-	63.8	0.412	738	0	0.25	0.03	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAP-3437-D	CAP-0516-OF	Olde Woode Rd	Wetland near Olde Woode Rd	10/12/2021 14:59	Weston & Sampson	Catchment Investigation	15" RCP	-	63.5	0.04	67	0	0.25	0.01	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAP-3439-D	CAP-0516-OF	Olde Woode Rd	Wetland near Olde Woode Rd	10/12/2021 15:14	Weston & Sampson	Catchment Investigation	15" RCP	-	65.1	0.038	64	0	0.25	0.11	82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAP-3442-D	CAP-0516-OF	Olde Woode Rd	Wetland near Olde Woode Rd	10/12/2021 15:31	Weston & Sampson	Catchment Investigation	15" RCP	-	68.3	0.042	70	0.1	0.25	0.41	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAP-3443-D	CAP-0516-OF	Olde Woode Rd	Wetland near Olde Woode Rd	10/13/2021 11:21	Weston & Sampson	Catchment Investigation	12" CI	-	60.7	0.048	84	0.2	0.25	0	91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAP-3462-D	CAP-0520-OF	Erin Ln	Wetland near Erin Ln	10/13/2021 13:38	Weston & Sampson	Catchment Investigation	12" HDPE	-	65.1	0.5	882	0	1	0.53	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAP-5567-D	CAP-0662-OF	Liberty St	Wetland by Liberty St	10/13/2021 14:26	Weston & Sampson	Catchment Investigation	12" HDPE	-	69	0.166	301	0	0.25	0	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAP-3445-D	CAP-0517-OF	Captains Dr	Wetland Extending Captain's Pond	10/13/2021 16:06	Weston & Sampson	Catchment Investigation	12" HDPE	-	71.2	0.147	264	0	0.25	0	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAP-3444-D	CAP-0517-OF	Captains Dr	Wetland Extending Captain's Pond	10/13/2021 16:17	Weston & Sampson	Catchment Investigation	12" HDPE	-	67.2	0.153	279	0	0.25	0.13	517	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAP-5523-D	CAP-0982-OF	Shannon Rd	Captain Pond Brook	10/13/2021 16:44	Weston & Sampson	Catchment Investigation	15" HDPE	-	69	0.486	852	0.2	0.375	0.06	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAP-6221-D	CAP-0719-OF	Colleen Dr	Small Wetland near Captain Pond Brook	10/13/2021 17:24	Weston & Sampson	Catchment Investigation	15" HDPE	-	68.8	0.239	429	0.6	0.25	0	214	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAP-10001-D	CAP-0719-OF	Colleen Dr	Small Wetland near Captain Pond Brook	10/13/2021 17:28	Weston & Sampson	Catchment Investigation	4" PVC	-	69.9	0.183	333	0	0.5	0.02	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Salem, NH - Stormwater Outfall and Stormwater System Sampling Results (FY2015 - FY2025)

General Information										Field Testing Results										Lab Results													
Structure ID Where Sample Was Taken	Catchment ID	Location	Receiving Water	Sample Date and Time	Sampling Collected By	Inspection Type	Pipe Size/ Material	Flow Rate	Temp. (°F)	Salinity (ppt)	Conductivity (µs/cm)	Ammonia (mg/L)	Surfactants (mg/L)	Chlorine (mg/L)	E. Coli (mpn/100 mL)	Ammonia (mg/L)	Surfactants (mg/L)	Arsenic (mg/L)	Iron (mg/L)	Chloride (mg/L)	pH	BOD ₅ (mg/L)	Dissolved Oxygen (mg/L)	Total Phosphate (mg/L)	Total Phosphorus (mg/L)	Free Chlorine (mg/L)	Chlorophyll-a (ppb)	TSS (ppm)	Turbidity (NTU)	Manganese (ppm)	Aluminum (ppm)	Alkalinity (ppm)	
POL-1873-D	POL-0294-OF	Joseph Rd	Policy Brook	5/19/2023 7:41	Weston & Sampson	Catchment Investigation	12" CMP	-	53.78	0.38	761	-	0.25	0.03	<1	0.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POL-1868-D	POL-0294-OF	Joseph Rd	Policy Brook	5/19/2023 8:09	Weston & Sampson	Catchment Investigation	12" CMP	-	53.96	0.63	1,254	-	0.25	0.16	<1	0.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POL-1858-D	POL-0294-OF	Joseph Rd	Policy Brook	5/19/2023 8:31	Weston & Sampson	Catchment Investigation	15" RC	-	57.38	0.18	353	-	0	0.09	<1	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POL-1898-D	POL-0298-OF	Joseph Rd	Wetland Paralleling Ped/Bike Corridor	5/19/2023 9:22	Weston & Sampson	Catchment Investigation	12" RC	-	61.16	0.36	713	-	0.25	0	2	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POL-3837-D	POL-0585-OF	Northeastern Blvd	Policy Brook	5/19/2023 10:00	Weston & Sampson	Catchment Investigation	15" RC	-	64.94	0.37	740	-	0.25	0.22	<1	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POL-2351-D	POL-0343-OF	Alta Ave	Small Wetland near Alta Ave	5/19/2023 11:58	Weston & Sampson	Catchment Investigation	15" RCP	-	68.36	0.16	316	-	0.25	0.06	14	0.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARL-0217-OF	ARL-0217-OF	12 Independence Dr	Arlington Pond	7/10/2023 9:11	Weston & Sampson	Wet Weather Outfall Sampling	15" RCP	10	21.4	-	318	-	-	0.18	727	0.58	0.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARL-0525-OF	ARL-0525-OF	30 Norwood Rd	Arlington Pond	7/10/2023 9:41	Weston & Sampson	Wet Weather Outfall Sampling	15" RCP	15	20.9	-	1503	-	-	0	1553	0.13	<0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARL-0935-OF	ARL-0935-OF	288 N Main St	Arlington Pond	7/10/2023 10:06	Weston & Sampson	Wet Weather Outfall Sampling	12" RCP	5	21.7	-	302	-	-	0.02	>2420	<0.05	0.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARL-0424-OF	ARL-0424-OF	4 Lou Al Ln	Arlington Pond	7/10/2023 10:38	Weston & Sampson	Wet Weather Outfall Sampling	6" PVC	2	23.8	-	44	-	-	0.07	>2420	0.19	0.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARL-0698-OF	ARL-0698-OF	24 Arlington Pond Ct	Arlington Pond	7/10/2023 11:00	Weston & Sampson	Wet Weather Outfall Sampling	8" RCP	5	22.5	-	176	-	-	0.06	>2420	0.09	0.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARL-0426-OF	ARL-0426-OF	31 Sandy Beach Rd	Arlington Pond	7/10/2023 11:21	Weston & Sampson	Wet Weather Outfall Sampling	12" HDPE	15	21.7	-	493	-	-	0	>2420	0.15	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARL-0862-OF	ARL-0862-OF	6 Duston Rd	Small Wetland near Main St	7/10/2023 11:41	Weston & Sampson	Wet Weather Outfall Sampling	12" HDPE	10	21.8	-	319	-	-	0	>2420	0.16	0.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARL-1152-OF	ARL-1152-OF	390 N Main St	Connecting stream from Arlington Pond to Taylor Reservoir	7/10/2023 12:43	Weston & Sampson	Wet Weather Outfall Sampling	12" RCP	3	22.3	-	597	-	-	0	1986	0.12	<0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARL-0874-OF	ARL-0874-OF	55 Shore Dr	Arlington Pond	7/10/2023 13:08	Weston & Sampson	Wet Weather Outfall Sampling	12" HDPE	1	22.7	-	324	-	-	0.04	>2420	0.17	0.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARL-0726-OF	ARL-0726-OF	139 Shore Dr	Arlington Pond	7/10/2023 13:31	Weston & Sampson	Wet Weather Outfall Sampling	12" PVC	10	23.3	-	266	-	-	0.04	>2420	0.07	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARL-0877-OF	ARL-0877-OF	157 Shore Dr	Wetland draining to Arlington Pond	7/10/2023 13:57	Weston & Sampson	Wet Weather Outfall Sampling	12" HDPE	15	23.1	-	317	-	-	0.03	>2420	0.16	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARL-0799-OF	ARL-0799-OF	183 Shore Dr	Arlington Pond	7/10/2023 14:20	Weston & Sampson	Wet Weather Outfall Sampling	15" HDPE	10	22.6	-	60	-	-	0	>2420	0.17	0.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POL-2292-D	POL-0342-OF	Royal Cir	Policy Brook	8/2/2023 8:06	Weston & Sampson	Catchment Investigation	30" RC	-	68.36	0.18	371	-	-	0	1733	0.47	<0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POL-3220-D	POL-0470-OF	Silver Brook Rd	Wetland near Siver Brook Rd	8/2/2023 10:13	Weston & Sampson	Catchment Investigation	12" HDPE	-	72.14	0.11	221	-	-	0.5	20	0.09	0.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POL-3223-D	POL-0470-OF	Silver Brook Rd	Wetland near Siver Brook Rd	8/2/2023 10:30	Weston & Sampson	Catchment Investigation	15" HDPE	-	82.76	0.16	319	-	-	0.1	60	<0.05	0.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POL-3105-CB	POL-0472-OF	Silver Brook Rd	Detention basin that drains to Wetland near Siver Brook Rd	8/2/2023 11:30	Weston & Sampson	Catchment Investigation	4" HDPE	-	82.94	0.12	247	-	-	0.01	74	<0.05	0.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POL-3235-D	POL-0472-OF	Silver Brook Rd	Detention basin that drains to Wetland near Siver Brook Rd	8/2/2023 12:16	Weston & Sampson	Catchment Investigation	15" HDPE	-	82.76	0.18	369	-	-	0.14	133	<0.05	0.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POL-4313-D	POL-0478-OF	Lampighter Ln	Small Wetland near Lampighter Lane	8/2/2023 12:42	Weston & Sampson	Catchment Investigation	12" HDPE	-	81.14	0.16	311	-	-	0.02	47	0.08	0.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POL-5934-D	POL-0478-OF	Lampighter Ln	Small Wetland near Lampighter Lane	8/2/2023 13:04	Weston & Sampson	Catchment Investigation	12" HDPE	-	79.52	0.16	324	-	-	0.1	6	<0.05	<0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POL-5944-D	POL-0478-OF	Lampighter Ln	Small Wetland near Lampighter Lane	8/2/2023 13:06	Weston & Sampson	Catchment Investigation	12" HDPE	-	79.70	0.15	304	-	-	0.01	9	<0.05	0.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POL-3144-D	POL-0467-OF	Silver Brook Rd	Wetland near Silver Brook Rd	8/2/2023 13:36	Weston & Sampson	Catchment Investigation	12" HDPE	-	86.36	0.09	182	-	-	0.05	47	<0.05	0.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POL-3211-D	POL-0469-OF	Ticklefancy Ln	Waterbody near Ticklefancy Ln	8/2/2023 14:39	Weston & Sampson	Catchment Investigation	12" RC	-	81.50	0.16	330	-	-	0	16	0.21	<0.10																

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General Information										Field Testing Results										Lab Results															
Structure ID Where Sample Was Taken	Catchment ID	Location	Receiving Water	Sample Date and Time	Sampling Collected By	Inspection Type	Pipe Size/ Material	Flow Rate	Temp. (°F)	Salinity (ppt)	Conductivity (µs/cm)	Ammonia (mg/L)	Surfactants (mg/L)	Chlorine (mg/L)	E. Coli (mpn/100 mL)	Ammonia (mg/L)	Surfactants (mg/L)	Arsenic (mg/L)	Iron (mg/L)	Chloride (mg/L)	pH	BOD ₅ (mg/L)	Dissolved Oxygen (mg/L)	Total Phosphate (mg/L)	Total Phosphorus (mg/L)	Free Chlorine (mg/L)	Chlorophyll-a (ppb)	TSS (ppm)	Turbidity (NTU)	Manganese (ppm)	Aluminum (ppm)	Alkalinity (ppm)			
POL-0014-OF	POL-0014-OF	92 Cliff Crossing	Policy Brook	9/18/2023 11:00	Weston & Sampson	Wet Weather Outfall Sampling	24" RCP	5	20.4	1.52	3090	-	-	0	272	0.08	<0.05	0.0013	0.342	670	7.45	-	-	-	-	-	-	-	-	-	-	-	-	-	
POL-0121-OF	POL-0121-OF	92 Cliff Crossing	Policy Brook	9/18/2023 11:27	Weston & Sampson	Wet Weather Outfall Sampling	42" RCP	10	20.5	0.37	749	-	-	0.17	40	0.20	<0.05	0.0019	0.407	142	7.24	-	-	-	-	-	-	-	-	-	-	-	-	-	
POL-0978-OF	POL-0978-OF	92 Cliff Crossing	Policy Brook	9/18/2023 12:22	Weston & Sampson	Wet Weather Outfall Sampling	12" RCP	5	20.5	0.03	56	-	-	0.27	1120	0.38	0.15	<0.0010	0.769	24	6.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POL-0643-OF	POL-0643-OF	92 Cliff Crossing	Policy Brook	9/18/2023 12:38	Weston & Sampson	Wet Weather Outfall Sampling	8" PVC	10	20.4	0.01	10.8	-	-	0	150	0.16	<0.05	<0.0010	0.582	10	6.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POL-0780-OF	POL-0780-OF	92 Cliff Crossing	Policy Brook	9/18/2023 13:01	Weston & Sampson	Wet Weather Outfall Sampling	8" PVC	1	21	0.01	86	-	-	0.02	727	0.24	<0.05	<0.0010	0.326	18	6.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POL-0344-OF	POL-0344-OF	20 Briar Ave	Policy Brook	9/18/2023 13:33	Weston & Sampson	Wet Weather Outfall Sampling	12" RCP	1	20.8	0	6.9	-	-	0.09	26	0.07	<0.05	<0.0010	0.099	8	6.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POL-0341-OF	POL-0341-OF	17 Royal Ave	Policy Brook Wetlands	9/18/2023 13:56	Weston & Sampson	Wet Weather Outfall Sampling	12" RCP	10	20.7	0	385	-	-	0	1730	<0.05	<0.05	<0.0010	0.047	12	5.55	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POL-0336-OF	POL-0336-OF	113 N Broadway	Wetland Paralleling Ped/Bike Corridor	9/18/2023 14:25	Weston & Sampson	Wet Weather Outfall Sampling	12" RCP	15	20.6	0.01	21	-	-	0.34	>2420	0.07	<0.05	<0.0010	0.891	6	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POL-0112-OF	POL-0112-OF	83 N Broadway	Wetland Paralleling Ped/Bike Corridor	9/18/2023 14:35	Weston & Sampson	Wet Weather Outfall Sampling	18" RCP	25	20.5	0.02	148	-	-	0.02	1730	0.05	<0.05	<0.0010	0.363	24	6.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAP-3429-D	CAP-1147-OF	Don Roulston Dr	Captian Pond Brook	10/25/2023 11:54	Weston & Sampson	Catchment Investigation	12" HDPE	-	54.86	0.22	440	-	-	0.19	1733	0.06	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POR-5121-D	POR-0809-OF	Brady Ave	Stanley Brook	10/25/2023 13:43	Weston & Sampson	Catchment Investigation	15" RCP	-	57.20	0.11	227	-	-	0	4	<0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POR-0255-D	POR-0200-OF	Northwestern Dr	Porcupine Brook	10/25/2023 15:31	Weston & Sampson	Catchment Investigation	15" RC	-	66.92	1.02	2.04	-	-	0	29	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POR-0289-D	POR-0041-OF	Commercial Dr	Porcupine Brook Wetlands	10/25/2023 16:55	Weston & Sampson	Catchment Investigation	24" RC	-	71.60	0.76	1511	-	-	0	1	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POR-0282-D	POR-0041-OF	Commercial Dr	Porcupine Brook Wetlands	10/26/2023 12:24	Weston & Sampson	Catchment Investigation	12" RC	-	60.98	0.89	1774	-	-	0.46	3	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POR-5093-D	POR-0800-OF	Pelham Rd	Open channel drainage to Porcupine Brook	10/26/2023 17:25	Weston & Sampson	Catchment Investigation	24" RC	-	78.80	0.1	203	-	-	0	52	<0.05	<0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POR-5024-D	POR-0888-OF	Brookdale Rd	Porcupine Brook	10/26/2023 18:16	Weston & Sampson	Catchment Investigation	12" RC	-	69.80	0.31	618	-	-	0.01	<1	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POR-5021-D	POR-0887-OF	Brookdale Rd	Porcupine Brook	10/27/2023 12:10	Weston & Sampson	Catchment Investigation	12" RC	-	58.46	0.33	658	-	0.25	0.01	<1	0.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POR-0543-D	POR-0068-OF	Northwestern Dr	Wetland near Northwestern Dr	10/27/2023 13:01	Weston & Sampson	Catchment Investigation	12" RC	-	61.16	0.49	974	-	0.25	1.57	1	0.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POR-0541-D	POR-0068-OF	Northwestern Dr	Wetland near Northwestern Dr	10/27/2023 13:08	Weston & Sampson	Catchment Investigation	24" RC	-	62.24	0.56	1124	-	0.25	0	1	0.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POR-3292-D	POR-0068-OF	Northwestern Dr	Wetland near Northwestern Dr	10/27/2023 14:09	Weston & Sampson	Catchment Investigation	12" RC	-	64.22	0.42	846	-	0.25	0.2	228	0.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POR-6357-D	POR-0748-OF	Northwestern Dr	Wetland near Northwestern Dr	10/27/2023 14:45	Weston & Sampson	Catchment Investigation	24" HDPE	-	71.96	1.8	0.03	-	0.4	0	1	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POR-6331-D	POR-0669,-0670,-0671,-0672,-0673,-0674-OF	Northwestern Dr	Small wetland near Northwestern Dr	10/27/2023 15:49	Weston & Sampson	Catchment Investigation	18" HDPE	-	72.14	0.47	953	-	0.25	0.03	8	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHB-1164-OF	PHB-1164-OF	35 Haverhill Rd	Providence Hill Brook	10/30/2023 7:39	Weston & Sampson	Wet Weather Outfall Sampling	12" RCP	1	16	0.03	56	-	-	0.05	197	0.08	0.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHB-1165-OF	PHB-1165-OF	41 Haverhill Rd	Providence Hill Brook	10/30/2023 7:43	Weston & Sampson	Wet Weather Outfall Sampling	12" RCP	1	15.9	0.08	162	-	-	0	55	0.08	<0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHB-1163-OF	PHB-1163-OF	17 Haverhill Rd	Small Wetland near 17 Haverhill	10/30/2023 8:15	Weston & Sampson	Wet Weather Outfall Sampling	12" RCP	1	16	0.03	56	-	-	0.09	71	0.07	0.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHB-0997-OF	PHB-0997-OF	7 Wildflower Ln	Wetland near Wildflower Ln	10/30/2023 8:34	Weston & Sampson	Wet Weather Outfall Sampling	15" HDPE	1	18.2	0.2	399	-	-	0	201	0.19	<0.1																		

Salem, NH - Stormwater Outfall and Stormwater System Sampling Results (FY2015 - FY2025)

General Information										Field Testing Results										Lab Results													
Structure ID Where Sample Was Taken	Catchment ID	Location	Receiving Water	Sample Date and Time	Sampling Collected By	Inspection Type	Pipe Size/ Material	Flow Rate	Temp. (°F)	Salinity (ppt)	Conductivity (µs/cm)	Ammonia (mg/L)	Surfactants (mg/L)	Chlorine (mg/L)	E. Coli (mpn/100 mL)	Ammonia (mg/L)	Surfactants (mg/L)	Arsenic (mg/L)	Iron (mg/L)	Chloride (mg/L)	pH	BOD ₅ (mg/L)	Dissolved Oxygen (mg/L)	Total Phosphate (mg/L)	Total Phosphorus (mg/L)	Free Chlorine (mg/L)	Chlorophyll-a (ppb)	TSS (ppm)	Turbidity (NTU)	Manganese (ppm)	Aluminum (ppm)	Alkalinity (ppm)	
USP-0542-OF	USP-0542-OF	6 Deerfield St	Unknown stream connecting to Arlington Pond	12/11/2023 11:42	Weston & Sampson	Wet Weather Outfall Sampling	12" HDPE	1	10.9	0.23	461	-	-	0	18	0.36	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USP-0733-OF	USP-0733-OF	50 Lazarus Wy	Wetland near Arlington Lake	12/11/2023 11:42	Weston & Sampson	Wet Weather Outfall Sampling	24" HDPE	14	52	159	291	-	-	0.1	308	0.07	0.43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USP-0543-OF	USP-0543-OF	4 Deerfield St	Unknown stream connecting to Arlington Pond	12/11/2023 11:55	Weston & Sampson	Wet Weather Outfall Sampling	12" Unknown	1	9.9	0.07	144	-	-	0	4	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USP-0206-OF	USP-0206-OF	N Main and Elmer Rd	Wetland near Elmer Rd	12/11/2023 12:14	Weston & Sampson	Wet Weather Outfall Sampling	24" RCP	25	9.6	0.08	152	-	-	0	161	0.05	<0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USP-0209-OF	USP-0209-OF	Teague and Pawtucket	Upper Spicket River	12/11/2023 12:32	Weston & Sampson	Wet Weather Outfall Sampling	12" RCP	1	9.5	0.04	84	-	-	0	22	<0.05	0.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USP-0210-OF	USP-0210-OF	1 Pawtucket Ln	Wetland to Upper Spicket River	12/11/2023 12:43	Weston & Sampson	Wet Weather Outfall Sampling	12" CMP	10	9.2	0.01	26	-	-	0	172	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USP-0867-OF	USP-0867-OF	401 N Main St	Taylor Reservoir	12/11/2023 12:58	Weston & Sampson	Wet Weather Outfall Sampling	12" RCP	-	52	50	106	-	-	0	980	0.07	<0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USP-0868-OF	USP-0868-OF	422 N Main St	Taylor Reservoir	12/11/2023 13:06	Weston & Sampson	Wet Weather Outfall Sampling	18" RCP	4	50	68	127	-	-	0.03	28	0.05	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARL-5655-GM	ARL-0432-OF	Shore Dr	Arlington Pond	8/21/2024 8:45	Weston & Sampson	Catchment Investigation	12" HDPE	1.0	68.2	0.21	416	-	-	0.35	>2420	2.32	0.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSR-2335-GM	LSR-0350-OF	Brown St	Spicket River	8/21/2024 11:07	Weston & Sampson	Catchment Investigation	18" HDPE	2.0	73.3	0.22	435	-	-	0.00	88	0.53	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSR-3863-GM	LSR-0137-OF	Becky St	Small wetland near Becky Dr	8/21/2024 11:45	Weston & Sampson	Catchment Investigation	18" HDPE	3.0	73.8	0.4	815	-	-	0.03	110	0.13	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSR-3248-GM	LSR-0589-OF	Kayla Ave	Spicket River Wetlands	8/22/2024 8:55	Weston & Sampson	Catchment Investigation	15" HDPE	1.0	65.1	0.16	316	-	-	0.03	649	0.06	<0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSR-1336-GM	LSR-0035-OF	Tammy St	Spicket River	8/22/2024 10:50	Weston & Sampson	Catchment Investigation	12" RCP	2.0	69.8	0.32	663	-	-	0.00	727	0.27	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSR-0998-CB	LSR-0035-OF	Sherwood Ave	Spicket River	8/22/2024 11:34	Weston & Sampson	Catchment Investigation	8" HDPE	1.0	71.6	0.13	270	-	-	0.06	201	0.06	<0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSR-0208-GM	LSR-0035-OF	Sherwood Cor	Spicket River	8/22/2024 11:54	Weston & Sampson	Catchment Investigation	12" RCP	1.0	71.8	0.25	501	-	-	0.12	185	0.12	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSR-1351-GM	LSR-0192-OF	Douglas drive	Spicket River Wetlands	8/22/2024 13:33	Weston & Sampson	Catchment Investigation	12" RCP	0.5	73.0	0.33	654	-	-	0.09	173	0.09	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSR-0523-CB	LSR-0192-OF	Douglas drive	Spicket River Wetlands	8/22/2024 13:49	Weston & Sampson	Catchment Investigation	6" PVC	1.0	69.0	0.22	432	-	-	0.03	1300	1.54	0.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSR-0210-GM	LSR-0197-OF	Sherwood Cir	Spicket River	8/23/2024 7:44	Weston & Sampson	Catchment Investigation	18" CMP	2.0	63.0	0.24	489	-	0.1	0.20	308	0.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSR-1352-GM	LSR-0192-OF	Douglas drive	Spicket River Wetlands	8/23/2024 8:52	Weston & Sampson	Catchment Investigation	12" RCP	-	66.0	0.25	504	-	0.1	0.00	>2420	0.34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSR-0979-GM	LSR-0976-OF	Wheeler Ave	Unnamed Stream	8/23/2024 9:30	Weston & Sampson	Catchment Investigation	12" RCP	1.0	71.6	0.16	329	-	0.1	0.10	65	0.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSR-1151-GM	LSR-0178-OF	Floral Ave	Wetland behind Floral Ave	8/23/2024 11:12	Weston & Sampson	Catchment Investigation	18" RCP	1.0	74.7	0.21	415	-	0.1	0.00	12	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSR-1148-GM	LSR-0177-OF	Iris Ave	Wetland behind Iris Ave	8/23/2024 12:04	Weston & Sampson	Catchment Investigation	15" RCP	1.0	78.6	0.15	308	-	0.1	0.06	50	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSR-1293-GM	LSR-0190-OF	Woodbury Street	Open channel drainage to Spicket River	8/23/2024 13:54	Weston & Sampson	Catchment Investigation	12" RCP	1.0	89.6	0.26	528	-	0.1	0.25	326	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSR-1294-GM	LSR-0190-OF	Woodbury street	Open channel drainage to Spicket River	8/23/2024 14:11	Weston & Sampson	Catchment Investigation	15" RCP	1.0	73.0	0.15	303	-	0	0.04	16	0.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARL-0432-OF	ARL-0432-OF	18 S Shore Rd	Arlington Pond	9/9/2024 7:40	Weston & Sampson	Dry Weather Outfall Inspection	12" HDPE	1.0	59.2	0.21	425	-	-	0.28	115	1.83	<0.10	-	-	-	-	-	-	-	-	0.052	-	-	-	-	-	-	-
ARL-0726-OF	ARL-0726-OF	137 Shore Dr	Arlington Pond	9/9/2024 9:34	Weston & Sampson	Dry Weather Outfall Inspection	12" PVC	0.5	67.5	0.17	336	-	-	0	13	0.66	<0.10	-	-	-	-	-	-	-	-	0.069	-	-	-	-	-	-	-
ARL-0876-OF	ARL-0876-OF	107 Shore Dr	Swamp extending Arlington Pond	9/9/2024 9:53	Weston & Sampson	Dry Weather Outfall Inspection	12" HDPE	0.5	69.8	0.27	535	-	-	0	4	0.06	<0.05	-	-	-	-	-	-	-	-	0.015	-	-	-	-	-	-	-
ARL-0434-OF	ARL-0434-OF	95 Shore Dr	Arlington Pond	9/9/2024 9:59	Weston & Sampson	Dry Weather Outfall Inspection	12" HDPE	0.5	69.4	0.39	776	-	-	0	48	<0.05	<0.05	-	-	-	-	-	-	-	-	0.024	-	-	-	-	-	-	-
ARL-0162-OF	ARL-0162-OF	88 E Broadway	Arlington Pond	9/9/2024 10:33	Weston & Sampson	Dry Weather Outfall Inspection	12" HDPE	0.5	73.4	0.4	792	-	-	0.02	59	<0.05	<0.05	-	-	-	-	-	-	-	-	0.018	-	-	-	-	-	-	-
ARL-0164-OF	ARL-0164-OF	382 N Main St	Connecting stream from Arlington Pond to Taylor Reservoir	9/9/2024 11:16	Weston & Sampson	Dry Weather Outfall Inspection	24" RCP	0.5	67.3	0.5	402	-	-	0.02	1200	<0.10	<0.10	-	-	-	-	-	-	-	-	0.02	-	-	-	-	-	-	-
HIT-1640-GM	HIT-0602-OF	Lake St	Hittytitty Brook Wetlands	9/11/2024 8:02	Weston & Sampson	Catchment Investigation	12" RCP	2.0	60.4	0.6	1221	-	-	0	23	<0.05	<0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HIT-1641-GM	HIT-0602-OF	Lake St	Hittytitty Brook Wetlands	9/11/2024 11:08	Weston & Sampson	Catchment Investigation	12" RCP	2.0	76.3	0.33	668	-	-	0.42	115	0.43	0.28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POL-1132-OF	POL-1132-OF	S Broadway	Policy Brook	9/12/2024 13:29	Weston & Sampson	Catchment Investigation	24" RCP	1.0	21.5	1.85	365	-	-	-	4	0.16	<0.10	-	-	-	-	-	-	-	-	-	<0.20	-	-	-	-	-	-
USP-3492-GM	USP-0542-OF	Deerfield Street	Unknown stream connecting to Arlington Pond	11/8/2024 12:10	Weston & Sampson	Catchment Investigation	15" HDPE	1.0	59.5	0.31	616	-	0.6	0.17	<1	0.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSR-0942-GM	LSR-0145-OF	Ivan Gile Road	Small Wetland near Ivan Gile Rd	11/8/2024 13:39	Weston & Sampson	Catchment Investigation	15" HDPE	<0.5	61.3	0.18	355	-	0.25	0	10	0.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSR-1270-GM	LSR-0145-OF	Ivan Gile Road	Small Wetland near Ivan Gile Rd	11/8/2024 13:51	Weston & Sampson	Catchment Investigation	12" HDPE	<0.5	66.7	0.17	335	-	0.25	0	2	0.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



GRANITE STATE

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DRINKING WATER COMPLIANCE REPORT

DATE PRINTED: 01/07/2020 CHEMICAL RESULTS FOR THE 4TH QUARTER 2019

SAMPLE ID#: 1911-02635-001

LAB ID#: 2062

SAMPLED BY: Poor, Maria

SAMPLE CATEGORY: Other

SYSTEM NAME: Salem Water Dept

EPA ID #: 2051010

SYSTEM TOWN: Salem

DATE & TIME COLLECTED: 11/25/2019 9:45AM

SAMPLE AGENT #: 603-890-2171

DATE & TIME RECEIVED: 11/25/2019 10:27AM

SAMPLE LOCATION: 510 Sampling Tap After Chlorinator/Arlington

WATER SYS TYPE: Community

RECEIPT TEMP: ON ICE 7.5° CELSIUS

BAR CODE:

CLIENT JOB #

Legend	
Passes	✓
Fails EPA Primary	✗
Fails EPA Secondary	⚠
Fails State Guideline	✗
Attention	⚠

Test Description	Results	Test Units	Pass /Fail	DQ Flag	RL	Limit	Method	Analyst	Date & Time Analyzed
Date Extracted	-					No Limit	EPA 537.1	2062	12/09/19 9:30AM
Perfluorohexanesulfonic Acid (PFHxS)	<2.00	ng/L	✓		Sub Report	18 ng/L	EPA 537.1	2062	01/04/20 4:14PM
Perfluorononanoic Acid (PFNA)	<2.00	ng/L	✓		Sub Report	11 ng/L	EPA 537.1	2062	01/04/20 4:14PM
Perfluorooctanesulfonic Acid (PFOS)	2.20	ng/L	✓		Sub Report	15 ng/L	EPA 537.1	2062	01/04/20 4:14PM
Perfluorooctanoic Acid (PFOA)	4.97	ng/L	✓		Sub Report	12 ng/L	EPA 537.1	2062	01/04/20 4:14PM

The results presented in this report relate to the samples listed above in the condition in which they were received.

RL: "Reporting limit" means the lowest level of an analyte that can be accurately recovered from the matrix of interest.

Data Qualifier (DQ) Flags: None

Note: Analyst 2062 = Alpha Analytical (Mansfield).

* NELAP Accredited Analysis



Donald A. D'Anjou

Donald A. D'Anjou, Ph. D.
Laboratory Director



ANALYTICAL REPORT

Lab Number:	L1956905
Client:	Granite State Analytical Services 22 Manchester Rd Unit 2 Derry, NH 03038
ATTN:	Erin Shaw
Phone:	[REDACTED]
Project Name:	Not Specified
Project Number:	1911-02635
Report Date:	01/06/20

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Six Park Row, Mansfield, MA 02048
508-261-7467 (Fax) -- -- - emccarter@mansfieldma.com



Project Name: Not Specified
Project Number: 1911-02635

Lab Number: L1956905
Report Date: 01/06/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1956905-01	1911-02635-001	DW	NH	11/25/19 09:45	11/26/19
L1956905-02	1911-02635-001 FB	DW	NH	11/25/19 00:00	11/26/19

Project Name: Not Specified
Project Number: 1911-02635

Lab Number: L1956905
Report Date: 01/06/20

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: Not Specified
Project Number: 1911-02635

Lab Number: L1956905
Report Date: 01/06/20

Case Narrative (continued)

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Elizabeth Porta

Title: Technical Director/Representative

Date: 01/06/20

ORGANICS

SEMIVOLATILES

Project Name: Not Specified

Lab Number: L1956905

Project Number: 1911-02635

Report Date: 01/06/20

SAMPLE RESULTS

Lab ID: L1956905-01
 Client ID: 1911-02635-001
 Sample Location: NH

Date Collected: 11/25/19 09:45
 Date Received: 11/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Dw
 Analytical Method: 133,537.1
 Analytical Date: 01/04/20 16:14
 Analyst: RS

Extraction Method: EPA 537
 Extraction Date: 12/09/19 09:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab						
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	--	1
Perfluorooctanoic Acid (PFOA)	4.97		ng/l	2.00	--	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	--	1
Perfluorooctanesulfonic Acid (PFOS)	2.20		ng/l	2.00	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	96		70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	95		70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	79		70-130

Project Name: Not Specified**Lab Number:** L1956905**Project Number:** 1911-02635**Report Date:** 01/06/20**SAMPLE RESULTS**

Lab ID: L1956905-02
 Client ID: 1911-02635-001 FB
 Sample Location: NH

Date Collected: 11/25/19 00:00
 Date Received: 11/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Dw
 Analytical Method: 133,537.1
 Analytical Date: 01/04/20 16:31
 Analyst: RS

Extraction Method: EPA 537
 Extraction Date: 12/09/19 09:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab						
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	--	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	--	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	--	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	102		70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	95		70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	102		70-130

Project Name: Not Specified
Project Number: 1911-02635

Lab Number: L1956905
Report Date: 01/06/20

Method Blank Analysis Batch Quality Control

Analytical Method: 133,537.1
Analytical Date: 01/04/20 13:59
Analyst: RS

Extraction Method: EPA 537
Extraction Date: 12/09/19 09:30

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab for sample(s): 01-02 Batch: WG1318287-1					
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	--
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	--
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	--
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	101		70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	88		70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	91		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: Not Specified

Lab Number: L1956905

Project Number: 1911-02635

Report Date: 01/06/20

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab Associated sample(s): 01-02 Batch: WG1318287-2 WG1318287-3								
Perfluorohexanesulfonic Acid (PFHxS)	96		100		70-130	4		30
Perfluorooctanoic Acid (PFOA)	103		102		70-130	1		30
Perfluorononanoic Acid (PFNA)	99		100		70-130	1		30
Perfluorooctanesulfonic Acid (PFOS)	94		98		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCS %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	103		100		70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	92		87		70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	91		93		70-130

Matrix Spike Analysis**Batch Quality Control****Project Name:** Not Specified**Lab Number:** L1956905**Project Number:** 1911-02635**Report Date:** 01/06/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1318287-4 QC Sample: L1956905-01 Client ID: 1911-02635-001												
Perfluorohexanesulfonic Acid (PFHxS)	ND	265	250	94		-	-		70-130	-		30
Perfluorooctanoic Acid (PFOA)	4.97	291	310	105		-	-		70-130	-		30
Perfluorononanoic Acid (PFNA)	ND	291	305	105		-	-		70-130	-		30
Perfluorooctanesulfonic Acid (PFOS)	2.20	269	269	99		-	-		70-130	-		30

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	85				70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	97				70-130
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	101				70-130

Project Name: Not Specified**Lab Number:** L1956905**Project Number:** 1911-02635**Report Date:** 01/06/20**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information**Cooler** **Custody Seal**

A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1956905-01A	2 Plastic Trizma/1 Plastic/1 H2O+Trizma	A	NA		4.9	Y	Absent		A2-NH-537.1-4(14)
L1956905-01B	2 Plastic Trizma/1 Plastic/1 H2O+Trizma	A	NA		4.9	Y	Absent		A2-NH-537.1-4(14)
L1956905-02A	2 Plastic Trizma/1 Plastic/1 H2O+Trizma	A	NA		4.9	Y	Absent		A2-NH-537.1-4(14)
L1956905-02B	Plastic 250ml Trizma preserved	NA	NA			Y	Absent		-

Project Name: Not Specified
Project Number: 1911-02635

Serial_No:01062019:05
Lab Number: L1956905
Report Date: 01/06/20

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1

Project Name: Not Specified**Lab Number:** L1956905**Project Number:** 1911-02635**Report Date:** 01/06/20

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
	Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: Data Usability Report

Project Name: Not Specified
Project Number: 1911-02635

Lab Number: L1956905
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- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less

Report Format: Data Usability Report



Project Name: Not Specified
Project Number: 1911-02635

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Report Date: 01/06/20

Data Qualifiers

than 5x the RL. (Metals only.)

- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Report Format: Data Usability Report



Project Name: Not Specified
Project Number: 1911-02635

Lab Number: L1956905
Report Date: 01/06/20

REFERENCES

- 133 Determination of Selected Per- and Polyfluorinated Alkyl Substances in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS). EPA Method 537.1, EPA/600/R-18/352. Version 1.0, November 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 15

Published Date: 8/15/2019 9:53:42 AM

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Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility**EPA 624/624.1:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:**Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,****SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.**EPA 522.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1** Hg.**SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

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2019 Salem Water Quality Test Results

Radiochemistry						
Contaminant/ Units of Measure	Level Detected	MCL	MCLG	Typical Source of Substance	Health Effect of Contaminant	Meets Standards
Uranium (pCi/L)	0.05	30	0	Erosion of natural deposits	Some people who drink water containing uranium in excess of the MCL over many years may have an increased risk of getting cancer and kidney toxicity.	YES
Gross Alpha (pCi/L)	0.50 +/- 1.30	15	0	Erosion of natural deposits	Certain minerals are radioactive and may emit a form of radiation know as alpha radiation. Some people who drink water containing alpha emitters in excess of the MCL over many years may have an increase risk of getting cancer.	YES
Radium 226 (pCi/L)	0.12 +/- 0.26	5	0	Erosion of natural deposits	Some people who drink water containing radium 226 in excess of the MCL over many years may have an increased risk of getting cancer.	YES
Radium 228 (pCi/L)	0.42 +/- 0.46	5	0	Erosion of natural deposits	Some people who drink water containing radium 228 in excess of the MCL over many years may have an increased risk of getting cancer.	YES
Combined Radium (pCi/L)	0.54 +/- 0.53	5	0	Erosion of natural deposits	Some people who drink water containing radium 226 or 228 in excess of the MCL over many years may have an increased risk of getting cancer.	YES
Inorganic						
Hardness (mg/L)	36.18	N/A	N/A	Naturally present in the environment	There does not appear to be any convincing evidence that water hardness causes adverse health effects in humans. The hardness of water is measured in milligrams per liter (mg/L) typically, the water produced by Salem Water is considered “slightly hard.”	YES
Sodium (mg/L)	46.05	N/A	N/A	Runoff from road salt	At present there are no health based standards for Sodium in EPA’s Safe Drinking Water Act.	YES
Barium (mg/L)	0.01855	2.0	2.0	Corrosion of household plumbing systems; erosion of natural deposits	Some people who drink water containing barium in excess of the MCL over many years could experience an increase in their blood pressure	YES
Lead (mg/L)	0.000839	AI = 0.015	0	Corrosion of household plumbing systems; erosion of natural depos-its	Lead in drinking water can also cause a variety of adverse health effects. In babies and chil-dren, exposure to lead in drinking water above the action level can result in delays in physi-cal and mental development, along with slight deficits in attention span and learning abili-ties. In adults, it can cause increases in blood pressure. Adults who drink this water over many years could develop kidney problems or high blood pressure.	YES
Copper (mg/L)	0.0919	AL =1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits	Copper is an essential nutrient, but some people who drink water containing copper in ex-cess of the action level over a relatively short amount of time could experience gastrointesti-nal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilsons’ Disease should consult their personal doctor.	YES
Nitrate (mg/L)	0.11	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits	(5 ppm – 10 ppm) Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than 6 months of age. High nitrate levels in drinking water can cause blue baby syn-drome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricul-tural activity. If you are caring for an infant, you should ask for advice from your health care provider. (Above 10 ppm) Infants below the age of 6 months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue baby syndrome.	YES
Nitrite (mg/L)	0	1	1	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits	Infants below the age of 6 months who drink water containing nitrite in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue baby syndrome.	YES
Chlorine (mg/L)	2.243	4 (MRDL)	4.0 (MRDLG)	Water additive used to control microbes	Drinking of chlorinated water for 15 years or longer, has been officially linked to an increase in incidence of colon cancer	YES
pH	8.035	N/A	N/A	Acidity or low pH of drinking water is usually a result of natural geo-logical conditions at the site, possi-bly compounded by acid rain.	The pH of drinking water is not a health concern	YES
Organic						
Total Trihalomethane [TTHM] (ppb)	33.06 annual avg	80	N/A	By-product of drinking water disin-fection	Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system, and may have an increase of getting cancer	YES
Halo Acetic Acids [HAA5] (ppb)	18.11 annual avg	60	N/A	By-product of drinking water disin-fection	Some people who drink water containing halo acetic acids in excess of the MCL over many years may have an increase of getting cancer.	YES
Semi - Volatiles						
Bis – (2-ethylhexyl) phthalate (ppb)	0	400	400	Discharge from rubber and chemi-cal factories	Low systemic toxicity, but ingestions of large doses cause gastrointestinal irritation, central nervous system depression, coma and hypotension.	YES
Microbiological						
Turbidity (NTU)	0.1180	TT	N/A	Soil runoff	Turbidity has no health effects. However, turbidity can interfere with disinfection and pro-vide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symp-toms such as nausea, cramps, diarrhea, associated headaches	YES
Total Organic Carbon [TOC](mg/L)	2.68	TT	N/A	Naturally present in water	Total organic carbons (TOC) has no health effects. However, total organic carbon provides a medium for the formation of disinfection byproducts. These byproducts include trihalome-thanes (THMs) and halo acetic acids (HAAs). Drinking water containing these byproducts in excess of the MCL may lead to adverse health effects, liver, or kidney problems, or nervous system effects, and may lead to an increase risk of getting cancer.	YES
Total Coliform Bacteria	0	<40 sample >1 is positive	0	Naturally present in water	Coliforms are bacteria that are naturally present and are used as an indicator that other; potentially-harmful, bacteria may be present.	YES
Additional Testing						
Additional Tests	Results	Date	Treatment technique (if any)	AGQS (Ambient groundwater quality standard)	Specific contaminant criteria and reason for monitoring	Meets Standards
Perfluorooctanoic acid (PFOA) (ppt)	8.37 Canobie Lake	10/09/19	N/A	70	Some people who drink water containing perfluorooctanoic acid (PFOA) in excess of the AGQS over many years could experience problems with their liver, endocrine system, or immune system, may experience increased cholesterol levels, and may have an increased risk of getting certain types of cancer. It may also lower a women’s chance of getting preg-nant.	YES
	4.94 Arlington Pnd	11/25/19	N/A	70		
Perfluorooctane sulfonic acid (PFOS) (ppt)	2.56 Canobie Lake	10/09/19	N/A	70	Some people who drink water containing perfluorooctane sulfonic acid (PFOS) in excess of the AGQS over many years could experience problems with their liver, endocrine system, or immune system, may experience increased cholesterol levels, and may have an increased risk of getting certain types of cancer. It may also lower a women’s chance of getting preg-nant.	YES
	2.20 Arlington Pnd	11/25/19	N/A	70		
PFOA & PFOS Combined (ppt)	10.9 Canobie Lake	10/09/19	N/A	70	Some people who drink water containing PFOA & PFOS combined in excess of the AGQS over many years could experience problems with their liver, endocrine system, or immune sys-tem, may experience increased cholesterol levels, and may have an increased risk of getting certain types of cancer. It may also lower a women’s chance of getting pregnant.	YES
	7.17 Arlington Pnd	11/28/19	N/A	70		
Perfluorohexane sulfonic acid (PFHxS) (ppt)	<2 Canobie <2 Arlington	10/09/19 11/25/19	N/A N/A	N/A N/A	Discharge from industrial processes, wastewater treatment, residuals from firefighting foam, runoff/leachate from landfills and septic systems.	YES
Perfluorononanoic acid (PFNA) (ppt)	<2 Canobie <2 Arlington	10/09/19 11/25/19	N/A N/A	N/A N/A	Discharge from industrial processes, wastewater treatment, residuals from firefighting foam, runoff/leachate from landfills and septic systems.	YES

EPA requires monitoring of over 80 drinking water contaminants. Those contaminants listed in the table above are the only contaminants detected in your drinking water.

Glossary of Technical Terms

PPm - Parts per million or milligrams per liter (mg/L)
PPb - Parts per billion or micrograms per liter (ug/L)
Action Level (AL) - The concentration of a contaminant which, if exceeded, triggers treatment and/or other requirements which a water system must follow.
Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLGs as feasible using the best available treatment technology and taking cost into consideration. MCL's are enforceable standards.
Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety and are non-enforceable health goals.
Maximum Residual Disinfection Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
Maximum Residual Disinfectant Goal (MRDLG) - The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
N/A, N/R - N/A indicates Not Applicable, N/R indicates there is no current regulation covering the contaminant.
Nepthelometric Turbidity Units (NTU) - Turbidity is measured with an instrument called a nepthelometer. It measures turbidity in nepthelometric turbidity units.
Treatment Technique (TT) - A required process intended to reduce the level of a contaminant in drinking water.
Turbidity - Water clarity. As turbidity increases, water becomes cloudy or milky as light is reflected off increasing numbers of suspended and colloidal particles.



Fred Wallace
Utilities Director

Fred Wallace

Sincerely,

Safe Drinking water at the tap is imperative and a mission of the Utilities Division.

The Water Treatment Plant produced 762 million gallons of safe drinking water in 2019. We have made considerable improvements in our distribution and collection system that makes our goal of providing you with a safe dependable supply of high quality drinking water and a reliable collection system at a reasonable price achievable. On behalf of myself and the twelve dedicated members of the Utilities Division, I wish to thank you the rate payers of the town in supporting two of our most precious resources.

period. through the most recent monitoring compliance required by State and Federal regulations covers the results of Laboratory testing re- Canobie Lake and Arlington Pond. The report of water used in this report includes both year's annual water quality report. The source Division is pleased to provide you with this The Municipal Services Department — Utilities

Dear Customer,

- ◆ Repair all leaky faucets: One leaky faucet can waste up to 15 to 20 gallons a day.
- ◆ Run full-load dishwashers to save 15 gallons per load and hot water costs, too. Use the "light-wash" setting if available.
- ◆ Water lawn and garden early in the morning when evaporation is the lowest.
- ◆ 1 inch of water per week during the summer months is adequate for outdoor landscapes
- ◆ With an irrigation system, use sensors so that water- ing occurs only when it's needed.

Here are some tips on different ways to save water at home. While these tips may seem pretty obvious, they really can conserve a lot of water.

safe water/lead. the Safe Drinking Water Hotline or at <http://www.epa.gov/> and steps you can take to minimize exposure is available from tested. Information on lead in drinking water, test methods, about lead in your water, you may wish to have your water use hot water for drinking and cooking. If you are concerned 30 seconds before using water for drinking or cooking. Do not lead exposure by flushing cold water; run your tap for at least sitting for several hours, you can minimize the potential for in your plumbing components. When your water has been drinking water, but cannot control the variety of material used plumbing. This water system is responsible for high quality trials and components associated with service lines and home young children. Lead in drinking water is primarily from mate- Lead: If present, elevated levels of lead can cause seri- ous health problems, especially for pregnant women and occurring or be the result of oil and gas production and mining activities.

Radioactive Contaminants, which can be naturally- occurring or be the result of oil and gas production and mining systems. come from gas stations, urban storm water runoffs and septic industrial processes and petroleum production, and can, also, and volatile organic chemicals, which are the by-products of **Organic Chemical Contaminants**, including synthetic and residential uses. ety of sources such as agriculture, urban storm water runoffs, **Pesticides and herbicides**, which may come from a vari- and gas production, mining or farming.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams pond, reservoirs, springs and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and in some cases, radioactive material, and can pick up sub- stance resulting from the presence of animals or from human activity. Contaminants that may be present in source water include: **Microbial Contaminants**, such as viruses and bacteria, which may come from sewage treatment plants, septic sys- tems, agricultural livestock operations, and wildlife. **Inorganic Contaminants**, such as salts and metals, which can be naturally occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

Drinking Water Contaminants:

- ◆ First source Canobie Lake EPAID 2051010-001 3 susceptibility factors were rated high, 3 were rated medium and 7 were rated low
- ◆ Second source Arlington Pond Reservoir EPAID 2051010-010 2 susceptibility factors were rated high, 6 were rated medium and 5 were rated low

1, 2002 are noted below.

DPS prepared drinking water source assessment report for all public water systems between 2000 and 2003 in an effort to assess the vulnerability of each of the state's public water supply sources. Included in the report is a map of each source water protection area, a list of potential and known contamination sources, and a summary of the available protection options. The results of the assessment, prepared on November 1, 2002 are noted below.

Drinking Water Contaminants and Vulnerable Customers

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. All drinking water, including bottled water, may reasonably be expected to contain small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. However, some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have recently undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly people, pregnant women and infants are examples of people who are at higher risk from drinking water contaminants. People in these groups should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium. More information about contaminants and potential health effects including means to reduce the risk from microbial contaminants can be obtained by calling the USEPA safe drinking water hotline at 1-800-426-4791 or by visiting the web site of the USEPA's Office of Groundwater & Drinking Water at <http://www.epa.gov/safewater>.

Contact Information and Opportunities for Public Input

The Town of Salem welcomes public input on the programs and activities of all Town Departments. We encourage residents to call or write the members of the Board of Selectmen, Town Manager, or the Municipal Services Department to express their concerns or interest in the operation of the Town's water utility. Please feel free to contact us with any concerns or questions.

- ◆ Municipal Services Department (603) 890-2150
- ◆ Utilities Division (603) 890-2171
- ◆ Residential accounts & billing questions: (603) 890-2047
- ◆ Commercial accounts & billing questions: (603) 890-2042
- ◆ Water quality questions: (603) 890-2171

Salem Municipal Services
Utilities Division
161 North Policy Street
Salem, NH 03079



Fred Wallace, Luis Armas and Maria Poor.
This report was generated and formatted by

The completed Assessment Report is available for review at Canobie Lake Water Treatment Facility. For more information, call the Utilities Division (603) 890-2171, or visit the DES Drinking Water Source Assessment website at <http://des.mh.gov/organization/divisions/water/dwgbp/dwssp/dwsap.htm>

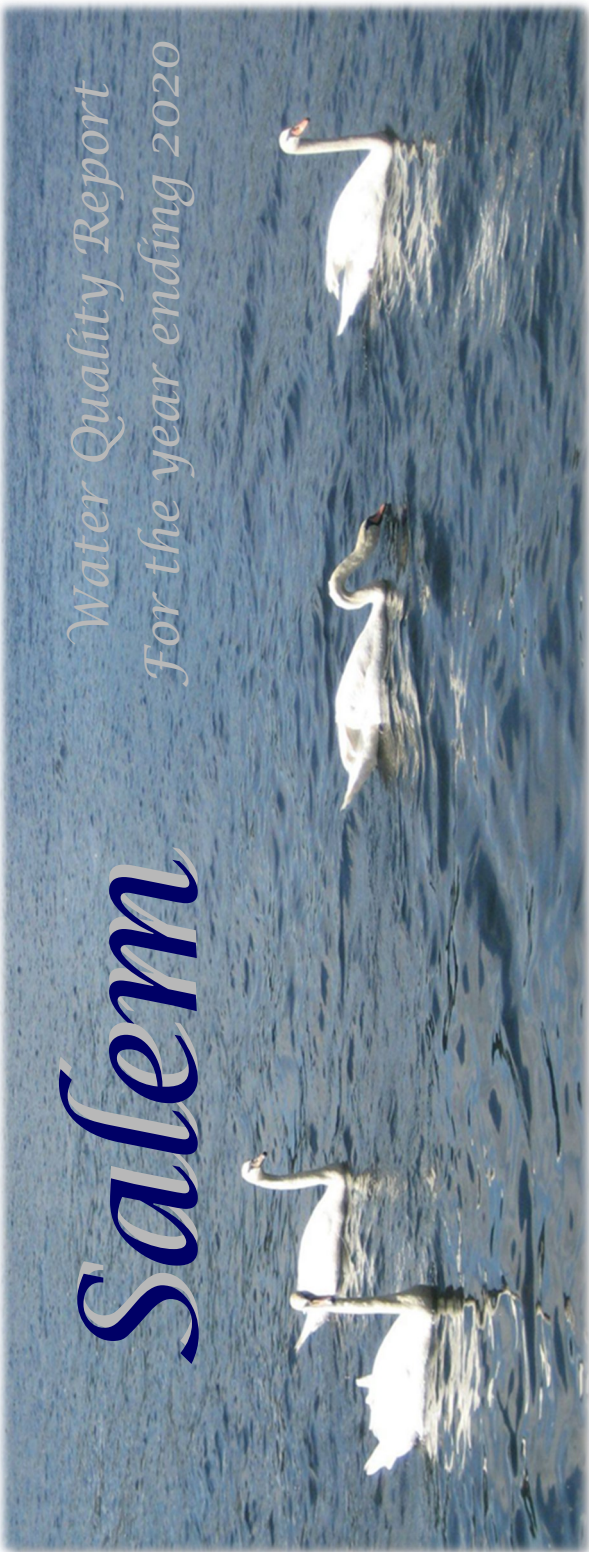
2020 Salem Water Quality Test Results

Radiochemistry						
Contaminant/ Units of Measure	Level Detected	MCL	MCLG	Typical Source of Substance	Health Effect of Contaminant	Meets Standards
Uranium (pCi/L)	0.05	30	0	Erosion of natural deposits	Some people who drink water containing uranium in excess of the MCL over many years may have an increased risk of getting cancer and kidney toxicity.	YES
Gross Alpha (pCi/L)	0.50 +/- 1.30	15	0	Erosion of natural deposits	Certain minerals are radioactive and may emit a form of radiation know as alpha radiation. Some people who drink water containing alpha emitters in excess of the MCL over many years may have an increase risk of getting cancer.	YES
Radium 226 (pCi/L)	<1.0	5	0	Erosion of natural deposits	Some people who drink water containing radium 226 in excess of the MCL over many years may have an increased risk of getting cancer.	YES
Radium 228 (pCi/L)	.5	5	0	Erosion of natural deposits	Some people who drink water containing radium 228 in excess of the MCL over many years may have an increased risk of getting cancer.	YES
Combined Radium (pCi/L)	.5	5	0	Erosion of natural deposits	Some people who drink water containing radium 226 or 228 in excess of the MCL over many years may have an increased risk of getting cancer.	YES
Inorganic						
Hardness (mg/L)	3.055	N/A	N/A	Naturally present in the environment	There does not appear to be any convincing evidence that water hardness causes adverse health effects in humans. The hardness of water is measured in milligrams per liter (mg/L) typically, the water produced by Salem Water is considered “slightly hard.”	YES
Sodium (mg/L)	45.35	N/A	N/A	Runoff from road salt	At present there are no health based standards for Sodium in EPA’s Safe Drinking Water Act.	YES
Barium (mg/L)	0.0181	2.0	2.0	Corrosion of household plumbing systems; erosion of natural deposits	Some people who drink water containing barium in excess of the MCL over many years could experience an increase in their blood pressure	YES
Lead (mg/L)	0.000839	AI = 0.015	0	Corrosion of household plumbing systems; erosion of natural depos-its	Lead in drinking water can also cause a variety of adverse health effects. In babies and chil-dren, exposure to lead in drinking water above the action level can result in delays in physi-cal and mental development, along with slight deficits in attention span and learning abili-ties. In adults, it can cause increases in blood pressure. Adults who drink this water over many years could develop kidney problems or high blood pressure.	YES
Copper (mg/L)	0	AL =1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits	Copper is an essential nutrient, but some people who drink water containing copper in ex-cess of the action level over a relatively short amount of time could experience gastrointesti-nal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilsons’ Disease should consult their personal doctor.	YES
Nitrate (mg/L)	0	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits	(5 ppm – 10 ppm) Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than 6 months of age. High nitrate levels in drinking water can cause blue baby syn-drome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricul-tural activity. If you are caring for an infant, you should ask for advice from your health care provider. (Above 10 ppm) Infants below the age of 6 months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue baby syndrome.	YES
Nitrite (mg/L)	0	1	1	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits	Infants below the age of 6 months who drink water containing nitrite in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue baby syndrome.	YES
Chlorine (mg/L)	1.215	4 (MRDL)	4.0 (MRDLG)	Water additive used to control microbes	Drinking of chlorinated water for 15 years or longer, has been officially linked to an increase in incidence of colon cancer	YES
pH	7.85	N/A	N/A	Acidity or low pH of drinking water is usually a result of natural geo-logical conditions at the site, possi-bly compounded by acid rain.	The pH of drinking water is not a health concern	YES
Organic						
Total Trihalomethane [TTHM] (ppb)	29.56 annual avg	80	N/A	By-product of drinking water disin-fection	Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system, and may have an increase of getting cancer	YES
Halo Acetic Acids [HAA5] (ppb)	20 annual avg	60	N/A	By-product of drinking water disin-fection	Some people who drink water containing halo acetic acids in excess of the MCL over many years may have an increase of getting cancer.	YES
Semi - Volatiles						
Bis – (2-ethylhexyl) phthalate (ppb)	0	400	400	Discharge from rubber and chemi-cal factories	Low systemic toxicity, but ingestions of large doses cause gastrointestinal irritation, central nervous system depression, coma and hypotension.	YES
Microbiological						
Turbidity (NTU)	0.005	TT	N/A	Soil runoff	Turbidity has no health effects. However, turbidity can interfere with disinfection and pro-vide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symp-toms such as nausea, cramps, diarrhea, associated headaches	YES
Total Organic Carbon [TOC](mg/L)	2525	TT	N/A	Naturally present in water	Total organic carbons (TOC) has no health effects. However, total organic carbon provides a medium for the formation of disinfection byproducts. These byproducts include trihalome-thanes (THMs) and halo acetic acids (HAAs). Drinking water containing these byproducts in excess of the MCL may lead to adverse health effects, liver, or kidney problems, or nervous system effects, and may lead to an increase risk of getting cancer.	YES
Total Coliform Bacteria	0	<40 sample >1 is positive	0	Naturally present in water	Coliforms are bacteria that are naturally present and are used as an indicator that other; potentially-harmful, bacteria may be present.	YES
Additional Testing						
Additional Tests	Results	Date	Treatment technique (if any)	AGQS (Ambient groundwater quality standard)	Specific contaminant criteria and reason for monitoring	Meets Standards
Perfluorooctanoic acid (PFOA) (ppt)	7.28 Canobie Lake	7/9/20	N/A	70	Some people who drink water containing perfluorooctanoic acid (PFOA) in excess of the AGQS over many years could experience problems with their liver, endocrine system, or immune system, may experience increased cholesterol levels, and may have an increased risk of getting certain types of cancer. It may also lower a women’s chance of getting preg-nant.	YES
	3.47 Arlington Pnd	4/13/20	N/A	70		
Perfluorooctane sulfonic acid (PFOS) (ppt)	3.01 Canobie Lake	7/9/20	N/A	70	Some people who drink water containing perfluorooctane sulfonic acid (PFOS) in excess of the AGQS over many years could experience problems with their liver, endocrine system, or immune system, may experience increased cholesterol levels, and may have an increased risk of getting certain types of cancer. It may also lower a women’s chance of getting preg-nant.	YES
	<2 Arlington Pnd	4/13/20	N/A	70		
PFOA & PFOS Combined (ppt)	10.3 Canobie Lake	7/9/20	N/A	70	Some people who drink water containing PFOA & PFOS combined in excess of the AGQS over many years could experience problems with their liver, endocrine system, or immune sys-tem, may experience increased cholesterol levels, and may have an increased risk of getting certain types of cancer. It may also lower a women’s chance of getting pregnant.	YES
	3.47 Arlington Pnd	4/13/20	N/A	70		
Perfluorohexane sulfonic acid (PFHxS) (ppt)	<2 Canobie <2 Arlington	7/9/20 4/13/20	N/A N/A	N/A N/A	Discharge from industrial processes, wastewater treatment, residuals from firefighting foam, runoff/leachate from landfills and septic systems.	YES
Perfluorononanoic acid (PFNA) (ppt)	<2 Canobie <2 Arlington	7/9/20 4/13/20	N/A N/A	N/A N/A	Discharge from industrial processes, wastewater treatment, residuals from firefighting foam, runoff/leachate from landfills and septic systems.	YES

EPA requires monitoring of over 80 drinking water contaminants. Those contaminants listed in the table above are the only contaminants detected in your drinking water.

Glossary of Technical Terms

PPm - Parts per million or milligrams per liter (mg/L)
PPb - Parts per billion or micrograms per liter (ug/L)
Action Level (AL) - The concentration of a contaminant which, if exceeded, triggers treatment and/or other requirements which a water system must follow.
Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLGs as feasible using the best available treatment technology and taking cost into consideration. MCL's are enforceable standards.
Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety and are non-enforceable health goals.
Maximum Residual Disinfection Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
Maximum Residual Disinfectant Goal (MRDLG) - The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
N/A, N/R - N/A indicates Not Applicable, N/R indicates there is no current regulation covering the contaminant.
Nepthelometric Turbidity Units (NTU) - Turbidity is measured with an instrument called a nepthelometer. It measures turbidity in nepthelometric turbidity units.
Treatment Technique (TT) - A required process intended to reduce the level of a contaminant in drinking water.
Turbidity - Water clarity. As turbidity increases, water becomes cloudy or milky as light is reflected off increasing numbers of suspended and colloidal particles.



Fred Wallace
Utilities Director

Fred Wallace

Sincerely,

On behalf of our dedicated staff I wish to thank you for your much appreciated support as we continue to deliver safe drinking water and maintain a reliable collection system at a reasonable cost

The Water Treatment Plant produced 880 million gallons of safe drinking water in 2020. In June Salem began receiving water from Manchester Water Works through the new Southern NH Regional Water Line. Salem will receive on average .5 MGD of which .250 MGD will be wheeled through the Salem water system to Hampstead Area Water Company in Atkinson. The additional water received through the SNHRW will give Salem a reliable source for future growth and sustainability.

The Municipal Services Department — Utilities Division is pleased to provide you with this year's annual water quality report. The source of water used in this report includes both covers the results of Laboratory testing required by State and Federal regulations through the most recent monitoring compliance period.

Dear Customer,

Drinking Water Contaminants and Vulnerable Customers

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. All drinking water, including bottled water, may reasonably be expected to contain small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. However, some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with cancer undergoing chemotherapy, persons who have recently undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly people, pregnant women and infants are examples of people who are at higher risk from drinking water contaminants. People in these groups should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium. More information about contaminants and potential health effects including means to reduce the risk from microbial contaminants can be obtained by calling the USEPA safe drinking water hotline at 1-800-426-4791 or by visiting the web site of the USEPA's Office of Groundwater & Drinking Water at <http://www.epa.gov/safewater>.

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- ◆ Water quality questions: (603) 890-2171

Salem Municipal Services
Utilities Division
161 North Policy Street
Salem, NH 03079



Here are some tips on different ways to save water at home. While these tips may seem pretty obvious, they really can conserve a lot of water.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include:

Microbial Contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

Inorganic Contaminants, such as salts and metals, which can be naturally occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.

Organic Chemical Contaminants, including synthetic and volatile organic chemicals, which are the by-products of industrial processes and petroleum production, and can, also, come from gas stations, urban storm water runoff and septic systems.

Radioactive Contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

Lead: If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. This water system is responsible for high quality drinking water, but cannot control the variety of material used in your plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing cold water, run your tap for at least 30 seconds before using water for drinking or cooking. Do not use hot water for drinking and cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, test methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

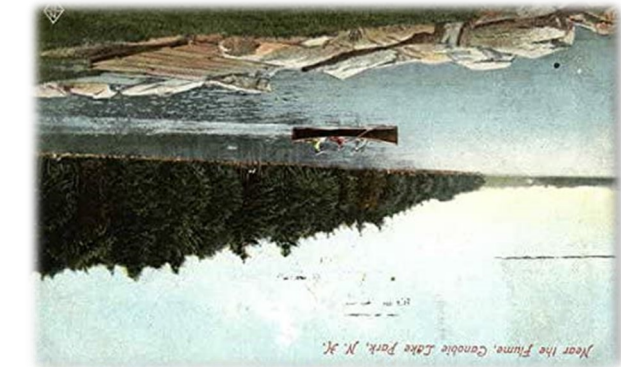
- ◆ Repair all leaky faucets: One leaky faucet can waste up to 15 to 20 gallons a day.
- ◆ Run full-load dishwashers to save 15 gallons per load and hot water costs, too. Use the "light-wash" setting if available.
- ◆ Water lawn and garden early in the morning when evaporation is the lowest.
- ◆ 1 inch of water per week during the summer months is adequate for outdoor landscapes
- ◆ With an irrigation system, use sensors so that watering occurs only when it's needed.

Note: This information is over 10 years old and includes information that was current at the time the report was completed. Therefore, some of the ratings might be different if updated to reflect current information. At the present time, DES has no plans to update this data.

- ◆ First source Canobie Lake EPAID 2051010-001 3 susceptibility factors were rated high, 3 were rated medium and 7 were rated low
- ◆ Second source Arlington Pond Reservoir EPAID 2051010-010 2 susceptibility factors were rated high, 6 were rated medium and 5 were rated low

DES prepared drinking water source assessment report for all public water systems between 2000 and 2003 in an effort to assess the vulnerability of each of the state's public water supply sources. Included in the report is a map of each source water protection area, a list of potential and known contamination sources, and a summary of the available protection options. The results of the assessment, prepared on November 1, 2002 are noted below.

Source Water Assessment Summary



2021 Salem Water Quality Test Results

Radiochemistry						
Contaminant/ Units of Measure	Level Detected	MCL	MCLG	Typical Source of Substance	Health Effect of Contaminant	Meets Standards
Uranium (pCi/L)	0.05	30	0	Erosion of natural deposits	Some people who drink water containing uranium in excess of the MCL over many years may have an increased risk of getting cancer and kidney toxicity.	YES
Gross Alpha (pCi/L)	0.50 +/- 1.30	15	0	Erosion of natural deposits	Certain minerals are radioactive and may emit a form of radiation know as alpha radiation. Some people who drink water containing alpha emitters in excess of the MCL over many years may have an increase risk of getting cancer.	YES
Radium 226 (pCi/L)	<1.0	5	0	Erosion of natural deposits	Some people who drink water containing radium 226 in excess of the MCL over many years may have an increased risk of getting cancer.	YES
Radium 228 (pCi/L)	.5	5	0	Erosion of natural deposits	Some people who drink water containing radium 228 in excess of the MCL over many years may have an increased risk of getting cancer.	YES
Combined Radium (pCi/L)	.5	5	0	Erosion of natural deposits	Some people who drink water containing radium 226 or 228 in excess of the MCL over many years may have an increased risk of getting cancer.	YES
Inorganic						
Hardness (mg/L)	36	N/A	N/A	Naturally present in the environment	There does not appear to be any convincing evidence that water hardness causes adverse health effects in humans. The hardness of water is measured in milligrams per liter (mg/L) typically, the water produced by Salem Water is considered "slightly hard."	YES
Sodium (mg/L)	46.65	N/A	N/A	Runoff from road salt	At present there are no health based standards for Sodium in EPA's Safe Drinking Water Act.	YES
Barium (mg/L)	.0194	2.0	2.0	Corrosion of household plumbing systems; erosion of natural deposits	Some people who drink water containing barium in excess of the MCL over many years could experience an increase in their blood pressure	YES
Lead (ppb)	90th Percentile 3ppb	15 ppb	0	Corrosion of household plumbing systems; erosion of natural deposits	Lead in drinking water can also cause a variety of adverse health effects. In babies and children, exposure to lead in drinking water above the action level can result in delays in physical and mental development, along with slight deficits in attention span and learning abilities. In adults, it can cause increases in blood pressure. Adults who drink this water over many years could develop kidney problems or high blood pressure.	YES
Copper (mg/L)	1/1 7/1 .157mg/l .184mg/l	1.3 mg/l	1.3mg/l	Corrosion of household plumbing systems; erosion of natural deposits	Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilsons' Disease should consult their personal doctor.	YES
Nitrate (mg/L)	0	10	10	Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits	(5 ppm – 10 ppm) Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than 6 months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, you should ask for advice from your health care provider. (Above 10 ppm) Infants below the age of 6 months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue baby syndrome.	YES
Nitrite (mg/L)	0	1	1	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits	Infants below the age of 6 months who drink water containing nitrite in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue baby syndrome.	YES
Chlorine (mg/L)	1.3	4 (MRDL)	4.0 (MRDLG)	Water additive used to control microbes	Drinking of chlorinated water for 15 years or longer, has been officially linked to an increase in incidence of colon cancer	YES
pH	7.805	N/A	N/A	Acidity or low pH of drinking water is usually a result of natural geological conditions at the site, possibly compounded by acid rain.	The pH of drinking water is not a health concern	YES
Manganese	.0329 mg/l	.05 mg/l	N/A	Naturally occurring in minerals, found in rock, soil and surface water	Many years of exposure to high levels can cause harm to the nervous system	YES
Sulfate	19.5 mg/l	250 mg/l	N/A	Sulfate can come from naturally dissolved minerals of fertilizer	May have a laxative effect that could cause dehydration and is a special concern in infants	YES
Chloride	73.5 mg/l	250 mg/l	N/A	Naturally occurring in rocks and soil	Not harmful to health	YES
Organic						
Total Trihalomethane [TTHM] (ppb)	31.5 annual avg	80	Range 13-40	By-product of drinking water disinfection	Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system, and may have an increase of getting cancer	YES
Halo Acetic Acids [HAA5] (ppb)	22.25 annual avg	60	Range 8.5-28	By-product of drinking water disinfection	Some people who drink water containing halo acetic acids in excess of the MCL over many years may have an increase of getting cancer.	YES
Semi-Volatiles						
Bis – (2-ethylhexyl) phthalate (ppb)	0	400	400	Discharge from rubber and chemical factories	Low systemic toxicity, but ingestions of large doses cause gastrointestinal irritation, central nervous system depression, coma and hypotension.	YES
Microbiological						
Turbidity (NTU)	.130	TT	N/A	Soil runoff	Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, associated headaches	YES
Total Organic Carbon [TOC](mg/L)	2.6	TT	N/A	Naturally present in water	Total organic carbons (TOC) has no health effects. However, total organic carbon provides a medium for the formation of disinfection byproducts. These byproducts include trihalomethanes (THMs) and halo acetic acids (HAAs). Drinking water containing these byproducts in excess of the MCL may lead to adverse health effects, liver, or kidney problems, or nervous system effects, and may lead to an increase risk of getting cancer.	YES
Total Coliform Bacteria	0	<40 sample >1 is positive	0	Naturally present in water	Coliforms are bacteria that are naturally present and are used as an indicator that other; potentially-harmful, bacteria may be present.	YES
Additional Testing						
Additional Tests	Results	Date	Treatment technique (if any)	MCL	Specific contaminant criteria and reason for monitoring	Meets Standards
Perfluorooctanoic acid (PFOA) (ppt)	7.43 Canobie Lake	5/6/21	N/A	12	Some people who drink water containing perfluorooctanoic acid (PFOA) in excess of the AGQS over many years could experience problems with their liver, endocrine system, or immune system, may experience increased cholesterol levels, and may have an increased risk of getting certain types of cancer. It may also lower a women's chance of getting pregnant.	YES
Perfluorooctane sulfonic acid (PFOS) (ppt)	2.16 Canobie Lake	5/6/21	N/A	15	Some people who drink water containing perfluorooctane sulfonic acid (PFOS) in excess of the AGQS over many years could experience problems with their liver, endocrine system, or immune system, may experience increased cholesterol levels, and may have an increased risk of getting certain types of cancer. It may also lower a women's chance of getting pregnant.	YES
Perfluorohexane sulfonic acid (PFHxS) (ppt)	0 Canobie	5/6/21	N/A	11	Discharge from industrial processes, wastewater treatment, residuals from firefighting foam, runoff/leachate from landfills and septic systems.	YES
Perfluorononanoic acid (PFNA) (ppt)	0 Canobie	5/6/21	N/A	18	Discharge from industrial processes, wastewater treatment, residuals from firefighting foam, runoff/leachate from landfills and septic systems.	YES

EPA requires monitoring of over 80 drinking water contaminants. Those contaminants listed in the table above are the only contaminants detected in your drinking water.

Glossary of Technical Terms

Ppm - Parts per million or milligrams per liter (mg/L)
Ppb - Parts per billion or micrograms per liter (ug/L)
Action Level (AL) - The concentration of a contaminant which, if exceeded, triggers treatment and/or other requirements which a water system must follow.
Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLGs as feasible using the best available treatment technology and taking cost into consideration. MCL's are enforceable standards.
Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety and are non-enforceable health goals.
Maximum Residual Disinfection Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
Maximum Residual Disinfectant Goal (MRDLG) - The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
N/A, N/R - N/A indicates Not Applicable, N/R indicates there is no current regulation covering the contaminant.
Nephelometric Turbidity Units (NTU) - Turbidity is measured with an instrument called a nephelometer. It measures turbidity in nephelometric turbidity units.
Treatment Technique (TT) - A required process intended to reduce the level of a contaminant in drinking water.
Turbidity - Water clarity. As turbidity increases, water becomes cloudy or milky as light is reflected off increasing numbers of suspended and colloidal particles.

SALEM WATER SOURCES

Canobie Lake and Arlington Pond are the Town's two public drinking water reservoirs. The Canobie Lake Water Treatment Facility treats the water supply of Canobie Lake and Arlington Pond to produce high quality drinking water. The facility has a capacity to provide up to 6.0 million gallons per day. The treatment facility was designed and built to comply with EPA's Safe Drinking Water Act and Surface Water Treatment Rule.

Canobie Lake is the primary source from the months of May through October and then the Town switches to Arlington Pond as the primary source during the colder winter months allowing Canobie Lake to regenerate. In June 2020, the Town began receiving an additional source of water from the Southern New Hampshire Regional Water Project which comes from Lake Massabesic. The water we receive is already treated by Manchester Water Works (MWW) and flows into our system blending with our water. For more information on this project please see the insert on the right. The water from MWW is also fluoridated however the water from Salem is not therefore the level of concentration is significantly lower than its entry point. Information regarding the MWW source is available at: <https://www.townofsalemnh.org/utilities/pages/manchester-water-works-water-quality-report>.

Fluoride: Your water system is fluoridated. According to the Centers for Disease Control and Prevention, if your child under the age of 6 months is exclusively consuming infant formula reconstituted with fluoridated water, there may be an increased chance of dental fluorosis. Consult your child's health care provider for more information.



Pictures courtesy of Grace Sorenson, Historical Society, Canobie Lake Protective Association, Arlington Pond Protective Association, and MWW

Southern New Hampshire Regional Water Project

The SNHRW project was originally conceived as a response to MtBE contamination that was discovered in both public and private wells within the southern tier of New Hampshire, as well as intensive drought conditions which were experienced during Summer 2016. To alleviate these growing concerns, a water main routing study on behalf of DES was commissioned to examine six potential water main routes to connect the existing public water systems in the southern tier. These options were presented at a meeting with regional stakeholders to discuss the feasibility, concerns, and next steps associated with this regional approach. The final project included extension of the existing Manchester Water Works (MWW) supply with connections through the towns of Derry, Windham, Salem, Atkinson, Hampstead, and Plaistow.

Two project phases have been identified, with Phase I of the SNHRW constructing infrastructure capable of providing 1.0 million gallons per day (MGD) of flow from Manchester to the other regional partners. Phase II of the project would use the same infrastructure constructed during the initial phase and increase the total daily flow to 3.13 MGD.

A regional project approach was chosen as it offered more benefits then a community-based approach. Through regionalization the project was able to gain assistance from utilizing existing public water system infrastructure to maximize the project beneficiaries. DES has estimated that Phase I will provide water supply directly to approximately 10,000 additional users, while Phase II will increase the supply for upwards of 31,000 new water users. These additional users will have the ability to connect to a clean, reliable, water system which will eliminate further contamination and supply concerns in the southern tier of New Hampshire. The SNHRW project will also indirectly be beneficial to the upwards of 200,000 existing water customers/residents within the partner communities. The additional SNHRW infrastructure also provides an effective starting point for each of the towns to expand upon in the future.



Regional Water Line PRV Station at the Rail Trail Parking by Windham town line. It was designed to replicate the Canobie Lake Railroad Station that once stood near this location.



Canobie Lake Train Station: The first railroad station constructed near this location was named Policy Pond after the adjacent pond, now known as Canobie Lake. In 1885 the station was reconstructed to meet the growing popularity of the area by offering passenger service along with freight. The new station was named Canobie Lake by the Railroad Commissioners in honor of Canonbie, a small village in Scotland, in recognition of local heritage at the time. The distinguished name was chosen to promote the area as a destination for vacationers and tourists, subsequently Policy Pond itself was renamed Canobie Lake.



SALEM MUNICIPAL SERVICES

ENGINEERING ♦ PUBLIC WORKS ♦ UTILITIES
Roy E Sorenson - Director
21 Cross Street
Salem, NH 03079
TEL: 603-890-2150 FAX: 603-890-3882



Utilities Director

Fred Wallace

Fred Wallace

Sincerely,

mission of the Utilities Division.

Safe Drinking water at the tap is imperative and a reliable collection system at a reasonable cost

On behalf of our dedicated staff I wish to thank you for your much appreciated support as we continue to deliver safe drinking water and maintain a reliable collection system at a reasonable cost

growth and sustainability.

Plastow a reliable source of water for future give Salem and communities from Atkinson to additional water received through the SNHRW will Area Water Company (HAWC) in Atkinson. The 661 million gallons of safe drinking water. The Canobie Lake Water Treatment Plant produced drinking water to its valued customers in 2021. The Utilities Division supplied 826 million gallons of drinking water to its valued customers in 2021. The Canobie Lake Water Treatment Plant produced 661 million gallons of safe drinking water. Salem received 165 million gallons of water from Manchester Water Works through the new Southern NH Regional Water Line. Salem supplied 84 million gallons of safe drinking water to the Hamstead Area Water Company (HAWC) in Atkinson. The additional water received through the SNHRW will give Salem and communities from Atkinson to Plastow a reliable source of water for future growth and sustainability.

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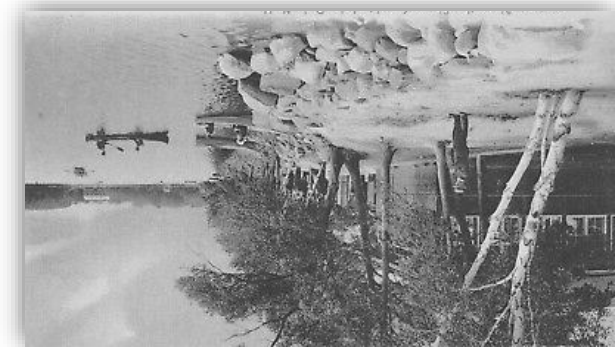
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Drinking Water Contaminants:



This report was generated and formatted by Roy E Sorenson, Fred Wallace, and Maria Poor.

The completed Assessment Report is available for review at Canobie Lake Water Treatment Facility, <https://www.townofsalemnh.org/utilities/pages/source-water-assessment-summary>, www.nhdes.gov. For more information please call the Utilities Division (603) 890-2171.

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EPAID 2051010-001
3 susceptibility factors were rated high, 3 were rated medium, and 7 were rated low
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EPAID 1471010-001
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7/1	.184mg/l					
Nitrate (mg/L)	0.1	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits	(5 ppm – 10 ppm) Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than 6 months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, you should ask for advice from your health care provider. (Above 10 ppm) Infants below the age of 6 months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue baby syndrome.	YES
Nitrite (mg/L)	0	1	1	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits	Infants below the age of 6 months who drink water containing nitrite in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue baby syndrome.	YES
Chlorine (mg/L)	1.29	4 (MRDL)	4.0 (MRDLG)	Water additive used to control microbes	Drinking of chlorinated water for 15 years or longer, has been officially linked to an increase in incidence of colon cancer	YES
pH	7.95	N/A	N/A	Acidity or low pH of drinking water is usually a result of natural geological conditions at the site, possibly compounded by acid rain.	The pH of drinking water is not a health concern	YES
Manganese	.0315 mg/l	.05 mg/l	N/A	Naturally occurring in minerals, found in rock, soil and surface water	Many years of exposure to high levels can cause harm to the nervous system	YES
Sulfate	17 mg/l	250 mg/l	N/A	Sulfate can come from naturally dissolved minerals of fertilizer	May have a laxative effect that could cause dehydration and is a special concern in infants	YES
Chloride	71 mg/l	250 mg/l	N/A	Naturally occurring in rocks and soil	Not harmful to health	YES
Organic						
Total Trihalomethane (TTHM) (ppb)	33 annual avg	80	Range 27.25-33	By-product of drinking water disinfection	Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system, and may have an increase of getting cancer	YES
Halo Acetic Acids (HAAS) (ppb)	20 annual avg	60	Range 9.2-20	By-product of drinking water disinfection	Some people who drink water containing halo acetic acids in excess of the MCL over many years may have an increase of getting cancer.	YES
Semi - Volatiles						
Bis – (2-ethylhexyl) phthalate (ppb)	0	400	400	Discharge from rubber and chemical factories	Low systemic toxicity, but ingestions of large doses cause gastrointestinal irritation, central nervous system depression, coma and hypotension.	YES
Microbiological						
Turbidity (NTU)	.120	TT	N/A	Soil runoff	Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, associated headaches	YES
Total Organic Carbon (TOC)(mg/L)	2.48	TT	N/A	Naturally present in water	Total organic carbons (TOC) has no health effects. However, total organic carbon provides a medium for the formation of disinfection byproducts. These byproducts include trihalomethanes (THMs) and halo acetic acids (HAAs). Drinking water containing these byproducts in excess of the MCL may lead to adverse health effects, liver, or kidney problems, or nervous system effects, and may lead to an increase risk of getting cancer.	YES
Total Coliform Bacteria	0	<40 sample >1 is positive	0	Naturally present in water	Coliforms are bacteria that are naturally present and are used as an indicator that other; potentially-harmful, bacteria may be present.	YES
Additional Testing						
Additional Tests	Results	Date	Treatment technique (if any)	MCL	Specific contaminant criteria and reason for monitoring	Meets Standards
Perfluorooctanoic acid (PFOA) (ppt)	8.02 Canobie Lake	5/24/22	N/A	12	Some people who drink water containing perfluorooctanoic acid (PFOA) in excess of the AGQS over many years could experience problems with their liver, endocrine system, or immune system, may experience increased cholesterol levels, and may have an increased risk of getting certain types of cancer. It may also lower a women's chance of getting pregnant.	YES
Perfluorooctane sulfonic acid (PFOS) (ppt)	2.30 Canobie Lake	5/24/22	N/A	15	Some people who drink water containing perfluorooctane sulfonic acid (PFOS) in excess of the AGQS over many years could experience problems with their liver, endocrine system, or immune system, may experience increased cholesterol levels, and may have an increased risk of getting certain types of cancer. It may also lower a women's chance of getting pregnant.	YES
Perfluorohexane sulfonic acid (PFHxS) (ppt)	0 Canobie	5/24/22	N/A	11	Discharge from industrial processes, wastewater treatment, residuals from firefighting foam, runoff/leachate from landfills and septic systems.	YES
Perfluorononanoic acid (PFNA) (ppt)	0 Canobie	5/24/22	N/A	18	Discharge from industrial processes, wastewater treatment, residuals from firefighting foam, runoff/leachate from landfills and septic systems.	YES

EPA requires monitoring of over 80 drinking water contaminants. Those contaminants listed in the table above are the only contaminants detected in your drinking water.

Glossary of Technical Terms

PPm - Parts per million or milligrams per liter (mg/L)
PPb - Parts per billion or micrograms per liter (ug/L)
Action Level (AL) - The concentration of a contaminant which, if exceeded, triggers treatment and/or other requirements which a water system must follow.
Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLGs as feasible using the best available treatment technology and taking cost into consideration. MCL's are enforceable standards.
Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety and are non-enforceable health goals.
Maximum Residual Disinfection Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
Maximum Residual Disinfectant Goal (MRDLG) - The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
N/A, N/R - N/A indicates Not Applicable, N/R indicates there is no current regulation covering the contaminant.
Nephelometric Turbidity Units (NTU) - Turbidity is measured with an instrument called a nephelometer. It measures turbidity in nephelometric turbidity units.
Treatment Technique (TT) - A required process intended to reduce the level of a contaminant in drinking water.
Turbidity - Water clarity. As turbidity increases, water becomes cloudy or milky as light is reflected off increasing numbers of suspended and colloidal particles.

SALEM WATER SOURCES

Canobie Lake and Arlington Pond are the Town's two public drinking water reservoirs. The Canobie Lake Water Treatment Facility treats the water supply of Canobie Lake and Arlington Pond to produce high quality drinking water. The facility has a capacity to provide up to 6.0 million gallons per day. The treatment facility was designed and built to comply with EPA's Safe Drinking Water Act and Surface Water Treatment Rule.

Canobie Lake is the primary source from the months of May through October and then the Town switches to Arlington Pond as the primary source during the colder winter months allowing Canobie Lake to regenerate. In June 2020, the Town began receiving an additional source of water from the Southern New Hampshire Regional Water Project which comes from Lake Massabesic. The water we receive is already treated by Manchester Water Works (MWW) and flows into our system blending with our water. For more information on this project please see the insert on the right. The water from MWW is also fluoridated however the water from Salem is not therefore the level of concentration is significantly lower than its entry point. Information regarding the MWW source is available at: <https://www.townofsalemnh.org/utilities/pages/manchester-water-works-water-quality-report>.

Fluoride: Your water system is fluoridated. According to the Centers for Disease Control and Prevention, if your child under the age of 6 months is exclusively consuming infant formula reconstituted with fluoridated water, there may be an increased chance of dental fluorosis. Consult your child's health care provider for more information.



SALEM MUNICIPAL SERVICES

ENGINEERING ♦ PUBLIC WORKS ♦ UTILITIES
Roy E Sorenson - Director
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Salem, NH 03079
TEL: 603-890-2150 FAX: 603-890-3882



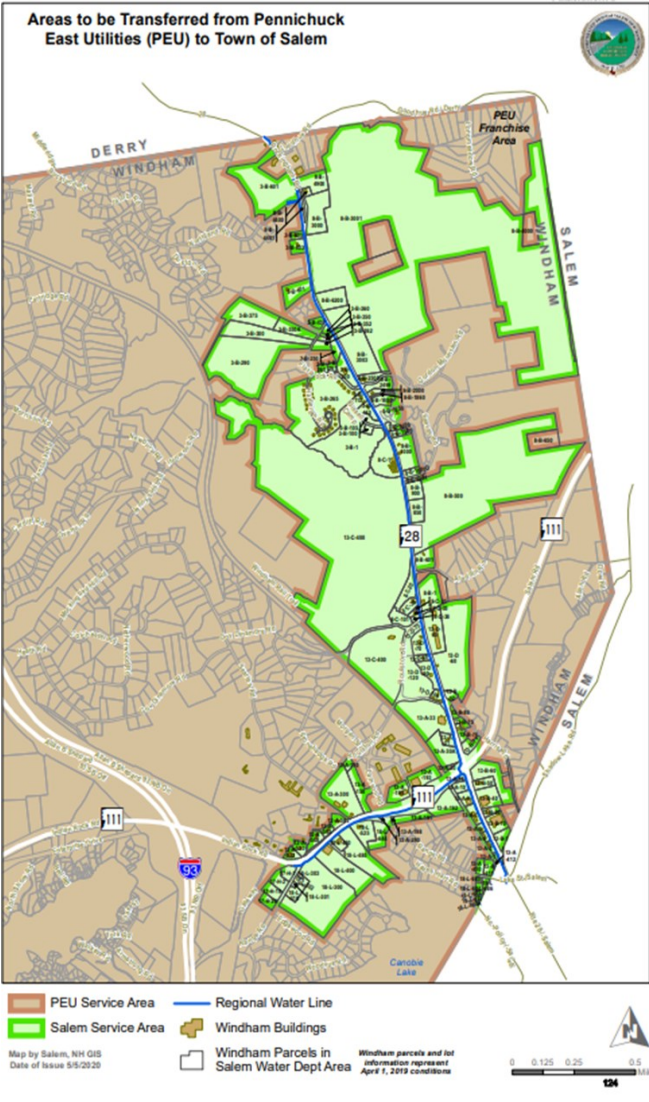
Pictures courtesy of Historical Society, Canobie Lake Protective Association, Arlington Pond Protective Association, and MWW

Southern New Hampshire Regional Water Project

The SNHRW project was originally conceived as a response to MtBE contamination that was discovered in both public and private wells within the southern tier of New Hampshire, as well as intensive drought conditions which were experienced during Summer 2016. To alleviate these growing concerns, a water main routing study on behalf of DES was commissioned to examine six potential water main routes to connect the existing public water systems in the southern tier. These options were presented at a meeting with regional stakeholders to discuss the feasibility, concerns, and next steps associated with this regional approach. The final project included extension of the existing Manchester Water Works (MWW) supply with connections through the towns of Derry, Windham, Salem, Atkinson, Hampstead, and Plaistow.

Two project phases have been identified, with Phase I of the SNHRW constructing infrastructure capable of providing 1.0 million gallons per day (MGD) of flow from Manchester to the other regional partners. Phase II of the project would use the same infrastructure constructed during the initial phase and increase the total daily flow to 3.13 MGD.

A regional project approach was chosen as it offered more benefits than a community-based approach. Through regionalization the project was able to gain assistance from utilizing existing public water system infrastructure to maximize the project beneficiaries. DES has estimated that Phase I will provide water supply directly to approximately 10,000 additional users, while Phase II will increase the supply for upwards of 31,000 new water users. These additional users will have the ability to connect to a clean, reliable, water system which will eliminate further contamination and supply concerns in the southern tier of New Hampshire. The SNHRW project will also indirectly be beneficial to the upwards of 200,000 existing water customers/residents within the partner communities. The additional SNHRW infrastructure also provides an effective starting point for each of the towns to expand upon in the future.



Salem was the project representative for the 20" water main that was designed and constructed from the Derry/Windham town line to the Windham/ Salem town line (entire stretch of RT 28 in Windham) and a 12" water main from the intersection of RT 28 and RT 111 west to the Range Road/ Edgewood Road intersection. Engineering and construction costs borne by this project were paid in full by the State of New Hampshire through the Department of Environmental Services MtBE Remediation Fund and Drinking Water and Groundwater Trust Fund. Once completed Salem became the owner of the project and subsequently established a franchise area through a petition to the Public Utilities Commission. Water provided to the Windham Franchise area is exclusive to that of the Regional Water Source from Manchester Water Works.



Dear Customer,

The Municipal Services Department — Utilities Division is pleased to provide you with this year's annual water quality report. The source of water used in this report includes Canobie Lake, Arlington Pond and Southern New Hampshire Regional Water. The report covers the results of Laboratory testing required by State and Federal regulations through the most recent monitoring compliance period.

The Utilities Division supplied 913 million gallons of drinking water to its valued customers in 2023. The Canobie Lake Water Treatment Plant produced 726 million gallons of safe drinking water. Salem received 187 million gallons of water from Manchester Water Works through the new Southern NH Regional Water Line. Salem supplied 104 million gallons of safe drinking water to the Hampstead Area Water Company (HAWC) in Atkinson. The additional water received through the SNHRW will give Salem and communities from Atkinson to Plaistow a reliable source of water for future growth and sustainability.

On behalf of our dedicated staff I wish to thank you for your much appreciated support as we continue to deliver safe drinking water and maintain a reliable collection system at a reasonable cost

Safe Drinking water at the tap is imperative and a mission of the Utilities Division.

Sincerely,

Fred Wallace
Utilities Director



- ◆ Repair all leaky faucets: One leaky faucet can waste up to 15 to 20 gallons a day.
- ◆ Run full-load dishwashers to save 15 gallons per load and hot water costs, too. Use the "light-wash" setting if available.
- ◆ Water lawn and garden early in the morning when evaporation is the lowest.
- ◆ 1 inch of water per week during the summer months is adequate for outdoor landscapes
- ◆ With an irrigation system, use sensors so that watering occurs only when it's needed.

Here are some tips on different ways to save water at home. While these tips may seem pretty obvious, they really can conserve a lot of water.

Lead: If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. This water system is responsible for high quality drinking water, but cannot control the variety of material used in your plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing cold water; run your tap for at least 30 seconds before using water for drinking or cooking. Do not use hot water for drinking and cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, test methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

Radioactive Contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

Organic Chemical Contaminants, including synthetic and volatile organic chemicals, which are the by-products of industrial processes and petroleum production, and can, come from gas stations, urban storm water runoffs and septic systems.

Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoffs, and gas production, mining or farming.

Inorganic Contaminants, such as salts and metals, which can be naturally occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

Microbial Contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

Inorganic Contaminants, such as salts and metals, which can be naturally occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoffs, and residential uses.

Organic Chemical Contaminants, including synthetic and volatile organic chemicals, which are the by-products of industrial processes and petroleum production, and can, come from gas stations, urban storm water runoffs and septic systems.

Radioactive Contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

Drinking Water Contaminants:



Note: This information is over 10 years old and includes information that was current at the time the report was completed. Therefore, some of the ratings might be different if updated to reflect current information. At the present time, DES has no plans to update this data.

The completed Assessment Report is available for review at Canobie Lake Water Treatment Facility, <https://www.townofsaalemnh.org/utilities/pages/source-water-assessment-summary>, www.nhdes.gov. For more information please call the Utilities Division (603) 890-2171.

- ◆ **First Source** - Canobie Lake
EPAID 2051010-001
3 susceptibility factors were rated high, 3 were rated medium, and 7 were rated low
- ◆ **Second Source** - Arlington Pond Reservoir
EPAID 2051010-010
2 susceptibility factors were rated high, 6 were rated medium, and 5 were rated low
- ◆ **Third Source** - Lake Massabesic
EPAID 1471010-001
4 susceptibility factors were rated high, 4 were rated medium, and 5 were rated low

DES prepared drinking water source assessment report for all public water systems between 2000 and 2003 in an effort to assess the vulnerability of each of the state's public water supply sources. Included in the report is a map of each source water protection area, a list of potential and known contamination sources, and a summary of the available protection options. The results of the assessment, prepared on November 1, 2002 are noted below.

Source Water Assessment Summary

Drinking Water Contaminants and Vulnerable Customers

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. All drinking water, including bottled water, may reasonably be expected to contain small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. However, some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have recently undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly people, pregnant women and infants are examples of people who are at higher risk from drinking water contaminants. People in these groups should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium. More information about contaminants and potential health effects including means to reduce the risk from microbial contaminants can be obtained by calling the USEPA safe drinking water hotline at 1-800-426-4791 or by visiting the web site of the USEPA's Office of Groundwater & Drinking Water at <http://www.epa.gov/safewater>.

Contact Information and Opportunities for Public Input

The Town of Salem welcomes public input on the programs and activities of all Town Departments. We encourage residents to call or write the members of the Board of Selectmen, Town Manager, or the Municipal Services Department to express their concerns or interest in the operation of the Town's water utility. Please feel free to contact us with any concerns or questions.

- ◆ Municipal Services Department
(603) 890-2150
- ◆ Utilities Division
(603) 890-2171
- ◆ Residential accounts & billing questions:
(603) 890-2047
- ◆ Commercial accounts & billing questions:
(603) 890-2042
- ◆ Water quality questions:
(603) 890-2171

Salem Municipal Services
Utilities Division
161 North Policy Street
Salem, NH 03079



2023 Salem Water Quality Test Results

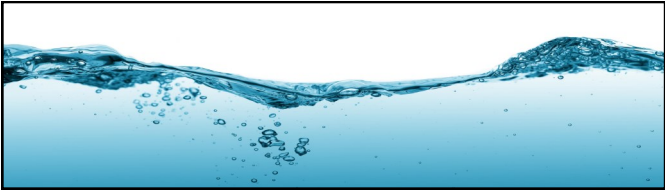
Radiochemistry						
Contaminant/ Units of Measure	Level Detected	MCL	MCLG	Typical Source of Substance	Health Effect of Contaminant	Meets Standards
Uranium (pCi/L)	0	30	0	Erosion of natural deposits	Some people who drink water containing uranium in excess of the MCL over many years may have an increased risk of getting cancer and kidney toxicity.	YES
Gross Alpha (pCi/L)	0	15	0	Erosion of natural deposits	Certain minerals are radioactive and may emit a form of radiation know as alpha radiation. Some people who drink water containing alpha emitters in excess of the MCL over many years may have an increase risk of getting cancer.	YES
Radium 226 (pCi/L)	<1.0	5	0	Erosion of natural deposits	Some people who drink water containing radium 226 in excess of the MCL over many years may have an increased risk of getting cancer.	YES
Radium 228 (pCi/L)	.5	5	0	Erosion of natural deposits	Some people who drink water containing radium 228 in excess of the MCL over many years may have an increased risk of getting cancer.	YES
Combined Radium (pCi/L)	.5	5	0	Erosion of natural deposits	Some people who drink water containing radium 226 or 228 in excess of the MCL over many years may have an increased risk of getting cancer.	YES
Inorganic						
Hardness (mg/L)	66.1	N/A	N/A	Naturally present in the environment	There does not appear to be any convincing evidence that water hardness causes adverse health effects in humans. The hardness of water is measured in milligrams per liter (mg/L) typically, the water produced by Salem Water is considered "slightly hard."	YES
Sodium (mg/L)	49.1	N/A	N/A	Runoff from road salt	At present there are no health based standards for Sodium in EPA's Safe Drinking Water Act.	YES
Barium (mg/L)	.0231	2.0	2.0	Corrosion of household plumbing systems; erosion of natural	Some people who drink water containing barium in excess of the MCL over many years could experience an increase in their blood pressure	YES
Lead (ppb) 1/1	90th Percentile 3ppb	15 ppb	0	Corrosion of household plumbing systems; erosion of natural deposits	Lead in drinking water can also cause a variety of adverse health effects. In babies and children, exposure to lead in drinking water above the action level can result in delays in physical and mental development, along with slight deficits in attention span and learning abilities. In adults, it can cause increases in blood pressure. Adults who drink this water over many years could develop kidney problems or high blood pressure.	YES
Copper (mg/L) 1/1	.136mg/l	1.3 mg/l	1.3mg/l	Corrosion of household plumbing systems; erosion of natural deposits	Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilsons' Disease should consult their personal doctor.	YES
Nitrate (mg/L)	0.1	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits	(5 ppm – 10 ppm) Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than 6 months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, you should ask for advice from your health care provider. (Above 10 ppm) Infants below the age of 6 months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue baby syndrome.	YES
Nitrite (mg/L)	0	1	1	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits	Infants below the age of 6 months who drink water containing nitrite in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue baby syndrome.	YES
Chlorine (mg/L)	1.125	4 (MRDL)	4.0 (MRDLG)	Water additive used to control microbes	Drinking of chlorinated water for 15 years or longer, has been officially linked to an increase in incidence of colon cancer	YES
pH	7.78	N/A	N/A	Acidity or low pH of drinking water is usually a result of natural geological conditions at the site, possibly compounded by acid rain.	The pH of drinking water is not a health concern	YES
Manganese	.1392mg/l	.05 mg/l	N/A	Naturally occurring in minerals, found in rock, soil and surface water	Many years of exposure to high levels can cause harm to the nervous system	YES
Sulfate	18.5 mg/l	250 mg/l	N/A	Sulfate can come from naturally dissolved minerals of fertilizer	May have a laxative effect that could cause dehydration and is a special concern in infants	YES
Chloride	75.5 mg/l	250 mg/l	N/A	Naturally occurring in rocks and soil	Not harmful to health	YES
Organic						
Total Trihalomethane [TTHM] (ppb)	55 annual avg	80	Range 27.25-33	By-product of drinking water disinfection	Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system, and may have an increase of getting cancer	YES
Halo Acetic Acids [HAA5] (ppb)	33 annual avg	60	Range 9.2-20	By-product of drinking water disinfection	Some people who drink water containing halo acetic acids in excess of the MCL over many years may have an increase of getting cancer.	YES
Semi - Volatiles						
Bis – (2-ethylhexyl) phthalate (ppb)	0	400	400	Discharge from rubber and chemical factories	Low systemic toxicity, but ingestions of large doses cause gastrointestinal irritation, central nervous system depression, coma and hypotension.	YES
Microbiological						
Turbidity (NTU)	.1062	TT	N/A	Soil runoff	Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, associated headaches.	YES
Total Organic Carbon [TOC](mg/L)	2.55	TT	N/A	Naturally present in water	Total organic carbons (TOC) has no health effects. However, total organic carbon provides a medium for the formation of disinfection byproducts. These byproducts include trihalomethanes (THMs) and halo acetic acids (HAAs). Drinking water containing these byproducts in excess of the MCL may lead to adverse health effects, liver, or kidney problems, or nervous system effects, and may lead to an	YES
Total Coliform Bacteria	0	<40 sample >1 is positive	0	Naturally present in water	Coliforms are bacteria that are naturally present and are used as an indicator that other; potentially-harmful, bacteria may be present.	YES
Additional Testing						
Additional Tests	Results	Date	Treatment technique (if any)	MCL	Specific contaminant criteria and reason for monitoring	Meets Standards
Perfluorooctanoic acid (PFOA) (ppt)	7.52 <i>Canobie Lake</i> 5.95 <i>Arlington</i>	5/22/23 12/11/23	N/A N/A	12	Some people who drink water containing perfluorooctanoic acid (PFOA) in excess of the AGQS over many years could experience problems with their liver, endocrine system, or immune system, may experience increased cholesterol levels, and may have an increased risk of getting certain types of cancer. It may also lower a women's chance of getting pregnant.	YES
Perfluorooctane sulfonic acid (PFOS) (ppt)	2.63 <i>Canobie Lake</i> 1.52 <i>Arlington</i>	5/22/23 12/11/23	N/A N/A	15	Some people who drink water containing perfluorooctane sulfonic acid (PFOS) in excess of the AGQS over many years could experience problems with their liver, endocrine system, or immune system, may experience increased cholesterol levels, and may have an increased risk of getting certain types of cancer. It may also lower a women's chance of getting pregnant.	YES
Perfluorohexane sulfonic acid (PFHxS) (ppt)	<2 <i>Canobie</i> .744 <i>Arlington</i>	5/22/23 12/11/23	N/A N/A	11	Discharge from industrial processes, wastewater treatment, residuals from firefighting foam, runoff/leachate from landfills and septic systems.	YES
Perfluorononanoic acid (PFNA) (ppt)	<2 <i>Canobie</i> .804 <i>Arlington</i>	5/22/23 12/11/23	N/A N/A	18	Discharge from industrial processes, wastewater treatment, residuals from firefighting foam, runoff/leachate from landfills and septic systems.	YES

Glossary of Technical Terms
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PPb - Parts per billion or micrograms per liter (ug/L)
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N/A, N/R - N/A indicates Not Applicable, N/R indicates there is no current regulation covering the contaminant.
Nephelometric Turbidity Units (NTU) - Turbidity is measured with an instrument called a nephelometer. It measures turbidity in nephelometric turbidity units.
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Fluoride: Your water system is fluoridated. According to the Centers for Disease Control and Prevention, if your child under the age of 6 months is exclusively consuming infant formula reconstituted with fluoridated water, there may be an increased chance of dental fluorosis. Consult your child's health care provider for more information.



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TEL: 603-890-2150 FAX: 603-890-3882

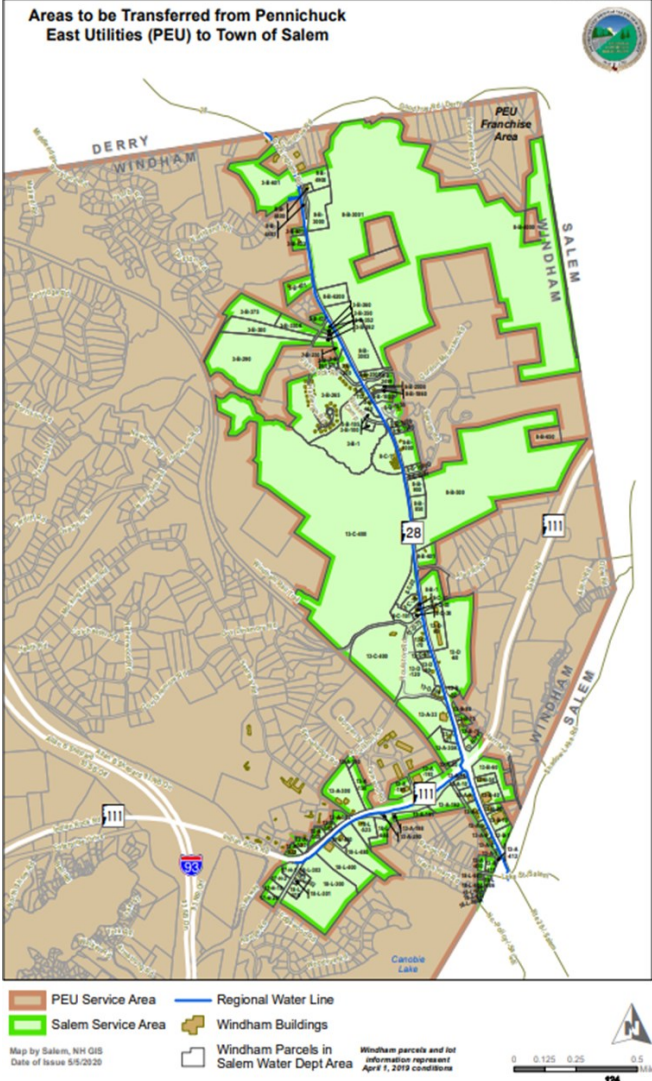


Southern New Hampshire Regional Water Project

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Two project phases have been identified, with Phase I of the SNHRW constructing infrastructure capable of providing 1.0 million gallons per day (MGD) of flow from Manchester to the other regional partners. Phase II of the project would use the same infrastructure constructed during the initial phase and increase the total daily flow to 3.13 MGD.

A regional project approach was chosen as it offered more benefits then a community-based approach. Through regionalization the project was able to gain assistance from utilizing existing public water system infrastructure to maximize the project beneficiaries. DES has estimated that Phase I will provide water supply directly to approximately 10,000 additional users, while Phase II will increase the supply for upwards of 31,000 new water users. These additional users will have the ability to connect to a clean, reliable, water system which will eliminate further contamination and supply concerns in the southern tier of New Hampshire. The SNHRW project will also indirectly be beneficial to the upwards of 200,000 existing water customers/residents within the partner communities. The additional SNHRW infrastructure also provides an effective starting point for each of the towns to expand upon in the future.



Salem was the project representative for the 20" water main that was designed and constructed from the Derry/Windham town line to the Windham/Salem town line (entire stretch of RT 28 in Windham) and a 12" water main from the intersection of RT 28 and RT 111 west to the Range Road/Edgewood Road intersection. Engineering and construction costs borne by this project were paid in full by the State of New Hampshire through the Department of Environmental Services MtBE Remediation Fund and Drinking Water and Groundwater Trust Fund. Once completed Salem became the owner of the project and subsequently established a franchise area through a petition to the Public Utilities Commission. Water provided to the Windham Franchise area is exclusive to that of the Regional Water Source from Manchester Water Works.

Pictures courtesy of Steven Liffmann, Canobie Lake Protective Association, Arlington Pond Protective Association, and MWW



Salem NH Water Quality Report for the year ending 2023

Dear Customer,

The Municipal Services Department — Utilities Division is pleased to provide you with this year's annual water quality report. The source of water used in this report includes Canobie Lake, Arlington Pond and Southern New Hampshire Regional Water. The report covers the results of Laboratory testing required by State and Federal regulations through the most recent monitoring compliance period.

The Utilities Division supplied 913 million gallons of drinking water to its valued customers in 2023. The Canobie Lake Water Treatment Plant produced 726 million gallons of drinking water. Salem received 187 million gallons of water from Manchester Water Works through the new Southern NH Regional Water Line. Salem supplied 104 million gallons of drinking water to the Hampstead Area Water Company (HAWC) in Atkinson. The additional water received through the SNHRW will give Salem and communities from Atkinson to Plaistow a reliable source of water for future growth and sustainability.

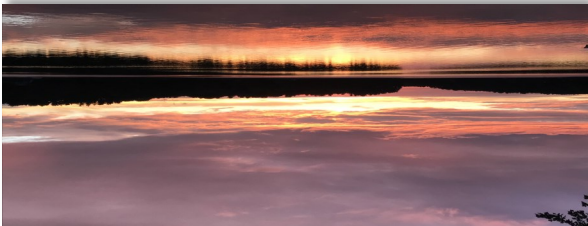
On behalf of our dedicated staff I wish to thank you for your much appreciated support as we continue to deliver safe drinking water and maintain a reliable collection system at a reasonable cost

Safe Drinking water at the tap is imperative and a mission of the Utilities Division.

Sincerely,

Fred Wallace

Fred Wallace
Utilities Director



Here are some tips on different ways to save water at home. While these tips may seem pretty obvious, they really can conserve a lot of water.

◆ Repair all leaky faucets: One leaky faucet can waste up to 15 to 20 gallons a day.
◆ Run full-load dishwashers to save 15 gallons per load and hot water costs, too. Use the "light-wash" setting if available.
◆ Water lawn and garden early in the morning when evaporation is the lowest.
◆ 1 inch of water per week during the summer months is adequate for outdoor landscapes
◆ With an irrigation system, use sensors so that watering occurs only when it's needed.

◆ Drinking Water Contaminants:
The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include:
Microbial Contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
Inorganic Contaminants, such as salts and metals, which can be naturally occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
Organic Chemical Contaminants, including synthetic and volatile organic chemicals, which are the by-products of industrial processes and petroleum production, and can, also, come from gas stations, urban storm water runoff and septic systems.
Radioactive Contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.
Lead: If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. This water system is responsible for high quality drinking water, but cannot control the variety of material used in your plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing cold water; run your tap for at least 30 seconds before using water for drinking or cooking. Do not use hot water for drinking and cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, test methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

Drinking Water Contaminants:

Source Water Assessment Summary

DES prepared drinking water source assessment report for all public water systems between 2000 and 2003 in an effort to assess the vulnerability of each of the state's public water supply sources. Included in the report is a map of each source water protection area, a list of potential and known contamination sources, and a summary of the available protection options. The results of the assessment, prepared on November 1, 2002 are noted below.

- ◆ First source Canobie Lake EPAID 2051010-001 3 susceptibility factors were rated high, 3 were rated medium and 7 were rated low
- ◆ Second source Arlington Pond Reservoir EPAID 2051010-010 2 susceptibility factors were rated high, 6 were rated medium and 5 were rated low

Note: This information is over 10 years old and includes information that was current at the time the report was completed. Therefore, some of the ratings might be different if updated to reflect current information. At the present time, DES has no plans to update this data.

The completed Assessment Report is available for review at Canobie Lake Water Treatment Facility. For more information, call the Utilities Division (603) 890-2171, or visit the DES Drinking Water Source Assessment website at <http://des.mh.gov/organization/divisions/water/dwqb/dwspp/dwsap.htm>

Drinking Water Contaminants and Vulnerable Customers

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. All drinking water, including bottled water, may reasonably be expected to contain small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. However, some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have recently undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly people, pregnant women and infants are examples of people who are at higher risk from drinking water contaminants. People in these groups should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium. More information about contaminants and potential health effects including means to reduce the risk from microbial contaminants can be obtained by calling the USEPA safe drinking water hotline at 1-800-426-4791 or by visiting the web site of the USEPA's Office of Groundwater & Drinking Water at <http://www.epa.gov/safewater>.

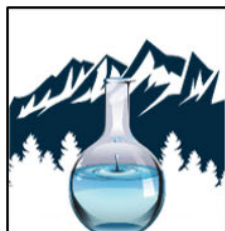
Contact Information and Opportunities for Public Input

The Town of Salem welcomes public input on the programs and activities of all Town Departments. We encourage residents to call or write the members of the Town Council, Town Manager, or the Municipal Services Department to express their concerns or interest in the operation of the Town's water utility. Please feel free to contact us with any concerns or questions.

- ◆ Municipal Services Department (603) 890-2150
- ◆ Utilities Division (603) 890-2171
- ◆ Residential accounts & billing questions: (603) 890-2047
- ◆ Commercial accounts & billing questions: (603) 890-2042
- ◆ Water quality questions: (603) 890-2171

Salem Municipal Services
Utilities Division
161 North Policy Street
Salem, NH 03079





GRANITE STATE ANALYTICAL SERVICES, LLC.

22 Manchester Road, Unit 2, Derry, NH 03038
Phone (800) 699-9920 | (603) 432-3044 website www.granitestateanalytical.com

Laboratory Report

Town of Salem/Finance Dept.
33 Geremonty Dr., Attn: Susan
Galvin
Salem, NH 03079

Date Printed: 06/14/2023
Work Order #: 2305-04387
Client Job #:
Date Received: 05/22/2023
Sample collected in: New Hampshire

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of the analyzing laboratory's Quality Assurance Plan, Standard Operating Procedures and State Accreditation. This certificate shall not be reproduced, except in full, without the written approval of the analyzing laboratory. The results presented in this report relate to the samples listed on the following pages in the condition in which they were received. Accreditation for each analyte is identified by the * symbol following the analyte name. Location of our analyzing laboratory is identified by the code in the Analyst Column.

A & L Laboratory:
Identified by ME in Analyst Column
155 Center Street, Auburn, Maine 04210
www.allaboratory.com

Granite State Analytical Services LLC:
Identified by NH in Analyst Column
22 Manchester Road, Derry, NH 03038
www.granitestateanalytical.com

Nashoba Analytical:
Identified by MA in the Analyst Column
31A Willow Road, Ayer, MA 01432
www.nashobaanalytical.com

ANALYSIS RELATED NOTES:

- RL: "Reporting limit" means the lowest level of an analyte that can be accurately recovered from the matrix of interest.
- DF: "Dilution factor" means the ratio of the volume of the sample to the volume of the final (dilute) solution.
- MDL: "Minimum Detection Limit" means the minimum result which can be reliably discriminated from a blank with a predetermined confidence level.
- A & L Laboratory / Granite State Analytical Services LLC / Nashoba Analytical. accreditation lists can be found on our websites listed above.
- Subcontracted samples will be identified by the Accreditation number of the subcontract laboratory in the analyst field for each analyte and the appropriate laboratory will be listed here. **This report contains data that were produced by a subcontracted laboratory accredited for the fields of testing performed, if available. Accreditation for each analyte is identified by the * symbol following the analyte name.**
Alpha Analytical-Mansfield, 320 Forbes Boulevard, Mansfield, MA 02048 Accreditation # 2062
- Data Qualifiers (DQ) Flags provide additional information in regards to the receipt, analysis or quality control of a sample. These are indicated under the DQ Flags Column on your report and listed here if necessary: **Data Qualifier (DQ) Flags: None**

SAMPLE STATE SPECIFIC NOTES:

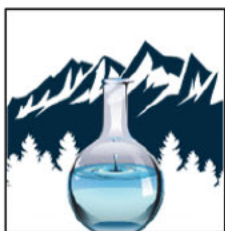
Additional Narrative or Comments: **None**

We appreciate the opportunity to provide you with laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be happy to assist you.



Donald A. D'Anjou, Ph. D.
Laboratory Director

A & L Laboratory: Accreditations: Maine ME00021, New Hampshire 2501, Maine Radon Registration ID # SPC20
Granite State Analytical Services, LLC: Accreditations: New Hampshire 1015; Maine NH00003;
Massachusetts M-NH0003; Rhode Island 101513; Vermont VT-101507
Nashoba Analytical: Accreditations: Massachusetts M-MA1118



GRANITE STATE ANALYTICAL SERVICES, LLC.

22 Manchester Road, Unit 2, Derry, NH 03038
Phone (800) 699-9920 | (603) 432-3044 website www.granitestateanalytical.com

DRINKING WATER COMPLIANCE REPORT

DATE PRINTED: 06/14/2023
SAMPLE ID #: 2305-04387-001
SAMPLED BY: Poor, Maria

CHEMICAL RESULTS FOR THE 2nd QUARTER 2023
LAB ID#: 2062

Legend	
Passes	✓
Fails EPA Primary	⊗
Fails EPA Secondary	⚠
Fails State Guideline	✗
Attention	⚠

SAMPLE CATEGORY: Routine Sample
SYSTEM NAME: Salem Water Dept
EPA ID#: 2051010
SYSTEM TOWN: Salem
SAMPLE AGENT #: 603-890-2171
SAMPLE LOCATION: 009 Sampling Tap After
Chlorinator/CanobieLake

DATE & TIME COLLECTED: 05/22/2023 08:45AM
DATE & TIME RECEIVED: 05/22/2023 02:09PM
WATER SYS TYPE: Community
RECEIPT TEMP: ON ICE 12.1° CELSIUS
CLIENT JOB #:

BAR CODE:

Test Description	Results	Test Units	Pass /Fail	DQ Flag	RL	Limit	Method	Analyst	Date & Time Analyzed
Date Extracted	-					No Limit	EPA 537.1	2062	06/01/2023 04:29PM
Perfluorohexanesulfonic Acid (PFHxS)*	<2.00	ng/L	✓		2.00	18 ng/L	EPA 537.1	2062	06/03/2023 01:28AM
Perfluorononanoic Acid (PFNA)*	<2.00	ng/L	✓		2.00	11 ng/L	EPA 537.1	2062	06/03/2023 01:28AM
Perfluorooctanesulfonic Acid (PFOS)*	2.63	ng/L	✓		2.00	15 ng/L	EPA 537.1	2062	06/03/2023 01:28AM
Perfluorooctanoic Acid (PFOA)*	7.52	ng/L	✓		2.00	12 ng/L	EPA 537.1	2062	06/03/2023 01:28AM




Donald A. D'Anjou, Ph. D.
Laboratory Director



ANALYTICAL REPORT

Lab Number:	L2328866
Client:	Granite State Analytical Services 22 Manchester Rd Unit 2 Derry, NH 03038
ATTN:	Erin Shaw
Phone:	(603) 432-3044
Project Name:	PWS
Project Number:	2305-04387
Report Date:	06/06/23

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (99110), NJ (MA015), NY (11627), NC (685), OH (CL106), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: PWS
Project Number: 2305-04387

Lab Number: L2328866
Report Date: 06/06/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2328866-01	2305-04387-001	DW	NH	05/22/23 08:45	05/23/23

Project Name: PWS
Project Number: 2305-04387

Lab Number: L2328866
Report Date: 06/06/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Ashley Boucher

Title: Technical Director/Representative

Date: 06/06/23

ORGANICS

SEMIVOLATILES

Project Name: PWS
Project Number: 2305-04387

Lab Number: L2328866
Report Date: 06/06/23

SAMPLE RESULTS

Lab ID: L2328866-01
Client ID: 2305-04387-001
Sample Location: NH

Date Collected: 05/22/23 08:45
Date Received: 05/23/23
Field Prep: Not Specified

Sample Depth:

Matrix: Dw
Analytical Method: 133,537.1
Analytical Date: 06/03/23 01:28
Analyst: TBR

Extraction Method: EPA 537.1
Extraction Date: 06/01/23 16:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab						
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	--	1
Perfluorooctanoic Acid (PFOA)	7.52		ng/l	2.00	--	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	--	1
Perfluorooctanesulfonic Acid (PFOS)	2.63		ng/l	2.00	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	77		70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	103		70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	83		70-130

Project Name: PWS
Project Number: 2305-04387

Lab Number: L2328866
Report Date: 06/06/23

Method Blank Analysis Batch Quality Control

Analytical Method: 133,537.1
Analytical Date: 06/02/23 23:00
Analyst: TBR

Extraction Method: EPA 537.1
Extraction Date: 06/01/23 16:29

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab for sample(s): 01 Batch: WG1786084-1					
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	--
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	--
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	--
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	87		70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	115		70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	105		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PWS
Project Number: 2305-04387

Lab Number: L2328866
Report Date: 06/06/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab Associated sample(s): 01 Batch: WG1786084-2								
Perfluorohexanesulfonic Acid (PFHxS)	115		-		70-130	-		30
Perfluorooctanoic Acid (PFOA)	120		-		70-130	-		30
Perfluorononanoic Acid (PFNA)	116		-		70-130	-		30
Perfluorooctanesulfonic Acid (PFOS)	112		-		70-130	-		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	96				70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	123				70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	111				70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: PWS
Project Number: 2305-04387

Lab Number: L2328866
Report Date: 06/06/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1786084-3 QC Sample: L2328866-01 Client ID: 2305-04387-001												
Perfluorohexanesulfonic Acid (PFHxS)	ND	130	134	103		-	-		70-130	-		30
Perfluorooctanoic Acid (PFOA)	7.52	143	164	110		-	-		70-130	-		30
Perfluorononanoic Acid (PFNA)	ND	143	153	107		-	-		70-130	-		30
Perfluorooctanesulfonic Acid (PFOS)	2.63	132	135	100		-	-		70-130	-		30

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	89				70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	114				70-130
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	80				70-130

Lab Duplicate Analysis Batch Quality Control

Project Name: PWS
Project Number: 2305-04387

Lab Number: L2328866
Report Date: 06/06/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1786084-4 QC Sample: L2328724-01 Client ID: DUP Sample						
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/l	NC		30
Perfluorohexanoic Acid (PFHxA)	ND	ND	ng/l	NC		30
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND	ND	ng/l	NC		30
Perfluoroheptanoic Acid (PFHpA)	ND	ND	ng/l	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/l	NC		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	ND	ng/l	NC		30
Perfluorooctanoic Acid (PFOA)	ND	ND	ng/l	NC		30
Perfluorononanoic Acid (PFNA)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonic Acid (PFOS)	ND	ND	ng/l	NC		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/l	NC		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	ND	ng/l	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/l	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/l	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/l	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/l	NC		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	ND	ng/l	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/l	NC		30
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/l	NC		30

Lab Duplicate Analysis Batch Quality Control

Project Name: PWS
Project Number: 2305-04387

Lab Number: L2328866
Report Date: 06/06/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1786084-4 QC Sample: L2328724-01 Client ID: DUP Sample						

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	86		86		70-130
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	83		82		70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	101		103		70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	92		92		70-130

Project Name: PWS
Project Number: 2305-04387

Serial_No:06062309:46
Lab Number: L2328866
Report Date: 06/06/23

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2328866-01A	Plastic 250ml Trizma preserved	A	NA		4.2	Y	Absent		A2-NH-537.1-4(14)
L2328866-01B	Plastic 250ml Trizma preserved	A	NA		4.2	Y	Absent		A2-NH-537.1-4(14)

Project Name: PWS
Project Number: 2305-04387

Serial_No:06062309:46
Lab Number: L2328866
Report Date: 06/06/23

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA/PFTeDA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSA's)		
Perfluorododecanesulfonic Acid	PFDoDS/PFDoS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
Perfluoropropanesulfonic Acid	PFPrS	423-41-6
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA/PFOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name: PWS
Project Number: 2305-04387

Serial_No:06062309:46
Lab Number: L2328866
Report Date: 06/06/23

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
FLUOROTELOMER CARBOXYLIC ACIDS (FTCAs)		
3-Perfluoroheptyl Propanoic Acid	7:3FTCA	812-70-4
2H,2H,3H,3H-Perfluorooctanoic Acid	5:3FTCA	914637-49-3
3-Perfluoropropyl Propanoic Acid	3:3FTCA	356-02-5

Project Name: PWS
Project Number: 2305-04387

Lab Number: L2328866
Report Date: 06/06/23

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



Project Name: PWS
Project Number: 2305-04387

Lab Number: L2328866
Report Date: 06/06/23

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name: PWS
Project Number: 2305-04387

Lab Number: L2328866
Report Date: 06/06/23

Data Qualifiers

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: Data Usability Report



Project Name: PWS
Project Number: 2305-04387

Lab Number: L2328866
Report Date: 06/06/23

REFERENCES

- 133 Determination of Selected Per- and Polyfluorinated Alkyl Substances in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS). EPA Method 537.1, EPA/600/R-18/352. Version 1.0, November 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



CHAIN OF CUSTODY

PAGE 1 OF 1

Project Information

Westborough, MA	Mansfield, MA
TEL: 508-898-9220	TEL: 508-822-9300
FAX: 508-898-9193	FAX: 508-822-3288

Project Name: Circle: Residential PWS

Client Information

Client: Granite State Analytical

Project Location: Circle: MA ME (NH)

Project #: 2305-04387

Address: 22 Manchester Rd

Project Manager:

Derry, NH 03038

ALPHA Quote #:

Turn-Around Time

Fax: _____ ☒ Standard ☐ Rush (ONLY IF PRE-APPROVED)

☐ These samples have been Previously analyzed by Alpha

Due Date: Time:

Other Project Specific Requirements/Comments/Detection Limits:
Field Blank analysis and reporting included if requested on CoC at 50% charge.

Date Rec'd in Lab:

ALPHA Job #: 12348866

Report Information	Data Deliverables	Billing Information

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

☒ Same as Client info	PO #:

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

ANALYSIS

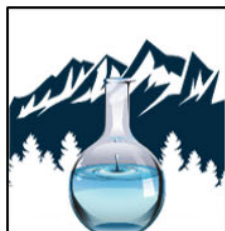
SAMPLE HANDLING

Filtration
☐ Done
☐ Not Needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	PFC 537	PFC 537	PFC 537	PFC 537	PFC 537	PFC 533	PFC 533	PFC 533					Sample Specific Comments
		Date	Time															
8866-01	2305-04387-001	5/22/23	8:45	DW	Client	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
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						P	P	P	P	P	P	P	-	-	-	-	-	Please print clearly, legibly
						O	O	O	O	O	O	O	-	-	-	-	-	

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.



GRANITE STATE ANALYTICAL SERVICES, LLC.

22 Manchester Road, Unit 2, Derry, NH 03038
Phone (800) 699-9920 | (603) 432-3044 website www.granitestateanalytical.com

Laboratory Report

Town of Salem/Finance Dept.
33 Geremonty Dr., Attn: Susan
Galvin
Salem, NH 03079

Date Printed: 01/11/2024
Work Order #: 2312-01759
Client Job #:
Date Received: 12/12/2023
Sample collected in: New Hampshire

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of the analyzing laboratory's Quality Assurance Plan, Standard Operating Procedures and State Accreditation. This certificate shall not be reproduced, except in full, without the written approval of the analyzing laboratory. The results presented in this report relate to the samples listed on the following pages in the condition in which they were received. Accreditation for each analyte is identified by the * symbol following the analyte name. Location of our analyzing laboratory is identified by the code in the Analyst Column.

A & L Laboratory:
Identified by ME in Analyst Column
155 Center Street, Auburn, Maine 04210
www.allaboratory.com

Granite State Analytical Services LLC:
Identified by NH in Analyst Column
22 Manchester Road, Derry, NH 03038
www.granitestateanalytical.com

Nashoba Analytical:
Identified by MA in the Analyst Column
31A Willow Road, Ayer, MA 01432
www.nashobaanalytical.com

ANALYSIS RELATED NOTES:

- RL: "Reporting limit" means the lowest level of an analyte that can be accurately recovered from the matrix of interest.
- DF: "Dilution factor" means the ratio of the volume of the sample to the volume of the final (dilute) solution.
- MDL: "Minimum Detection Limit" means the minimum result which can be reliably discriminated from a blank with a predetermined confidence level.
- A & L Laboratory / Granite State Analytical Services LLC / Nashoba Analytical. accreditation lists can be found on our websites listed above.
- Subcontracted samples will be identified by the Accreditation number of the subcontract laboratory in the analyst field for each analyte and the appropriate laboratory will be listed here. **This report contains data that were produced by a subcontracted laboratory accredited for the fields of testing performed, if available. Accreditation for each analyte is identified by the * symbol following the analyte name.**
Alpha Analytical-Mansfield, 320 Forbes Boulevard, Mansfield, MA 02048 Accreditation # 2062
- Data Qualifiers (DQ) Flags provide additional information in regards to the receipt, analysis or quality control of a sample. These are indicated under the DQ Flags Column on your report and listed here if necessary: **Data Qualifier (DQ) Flags: J = Estimated concentration.**

SAMPLE STATE SPECIFIC NOTES:

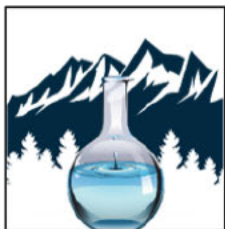
Additional Narrative or Comments: **None**

We appreciate the opportunity to provide you with laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be happy to assist you.



Donald A. D'Anjou, Ph. D.
Laboratory Director

A & L Laboratory: Accreditations: Maine ME00021, New Hampshire 2501, Maine Radon Registration ID # SPC20
Granite State Analytical Services, LLC: Accreditations: New Hampshire 1015; Maine NH00003;
Massachusetts M-NH0003; Rhode Island 101513; Vermont VT-101507
Nashoba Analytical: Accreditations: Massachusetts M-MA1118



GRANITE STATE ANALYTICAL SERVICES, LLC.

22 Manchester Road, Unit 2, Derry, NH 03038
Phone (800) 699-9920 | (603) 432-3044 website www.granitestateanalytical.com

DRINKING WATER COMPLIANCE REPORT

DATE PRINTED: 01/11/2024
SAMPLE ID #: 2312-01759-001
SAMPLED BY: Poor, Maria

CHEMICAL RESULTS FOR THE 4th QUARTER 2023
LAB ID#: 2062

Legend	
Passes	✓
Fails EPA Primary	⊗
Fails EPA Secondary	⚠
Fails State Guideline	✗
Attention	⚠

SAMPLE CATEGORY: Routine Sample
SYSTEM NAME: Salem Water Dept
EPA ID#: 2051010
SYSTEM TOWN: Salem
SAMPLE AGENT #: 603-890-2171
SAMPLE LOCATION: 510 Sampling Tap After Chlorinator/Arlington

DATE & TIME COLLECTED: 12/11/2023 08:05AM
DATE & TIME RECEIVED: 12/12/2023 09:19AM
WATER SYS TYPE: Community
RECEIPT TEMP: ON ICE 8.9° CELSIUS
CLIENT JOB #:

BAR CODE:

Test Description	Results	Test Units	Pass /Fail	DQ Flag	RL	Limit	Method	Analyst	Date & Time Analyzed
Date Extracted	-					No Limit	EPA 537.1	2062	12/17/2023 11:15AM
Perfluorohexanesulfonic Acid (PFHxS)*	0.744	ng/L	✓	J	2.00	18 ng/L	EPA 537.1	2062	12/20/2023 01:52PM
Perfluorononanoic Acid (PFNA)*	0.804	ng/L	✓	J	2.00	11 ng/L	EPA 537.1	2062	12/20/2023 01:52PM
Perfluorooctanesulfonic Acid (PFOS)*	1.52	ng/L	✓	J	2.00	15 ng/L	EPA 537.1	2062	12/20/2023 01:52PM
Perfluorooctanoic Acid (PFOA)*	5.95	ng/L	✓		2.00	12 ng/L	EPA 537.1	2062	12/20/2023 01:52PM




Donald A. D'Anjou, Ph. D.
Laboratory Director



Drinking Water and Groundwater Bureau Analysis Request Form

April 28, 2023

Page 2 of 2

CHEMICAL

Compliance Sample Site(s) per Master Sampling Schedule

PWS ID: 2051010

System Name: SALEM WATER DEPT

PWS Town: SALEM

Date/Time Sample Collected: 12/11/23 8:05 AM

Collected By: Maria For

Signature: Maria For

I certify that all samples taken are from the site(s) listed below and all information provided on this form to the lab is valid.

Phone Number: 1-603-890-2172

Locator ID#: 510

Sample Site Location: SAMPLING TAP AFTER CHLORINATOR/ARLINGTON

Sample Period: Q1 ☐ Q2 ☐ Q3 ☐ Q4 ☒ Year: 2023

Sample Type: Routine ☒ Confirmation ☐ Make-up ☐

Check Test(s) Requested	# of Containers	Lab Sample ID	Check Test(s) Requested	# of Containers	Lab Sample ID
NITRITE * (see note)			Compliance Gross Alpha (see note)***		
NITRATE * (see note)			Combined Radium		
VOC			Uranium mass		
SOC			PFAS	X 2	2312-1759
IOC			Cyanide ** (see note)		
Manganese			OTHER:		

* NOTE: Samples collected for NITRATE/NITRITE analysis NEED to be collected prior to chlorination. Check with Lab.

** CYANIDE samples NEED to be collected prior to chlorination. Check with Lab.

*** In order to calculate Compliance Gross Alpha, a sample for Uranium must be taken on the same day.

FOR LAB USE: Temp C (upon receipt): 8.9 On Ice? ☒ N Batch ID (if different than sample ID prefix): _____

List QUALIFIERS (if any): _____

Relinquished by: Maria For Received by: John Beney Date/Time: 12/12/23 9:05 AM

Relinquished by: John Beney Received at Lab by: MM Date/Time: _____

Lab Conducting Analysis: _____ Signature: _____ Lab Accred. ID: _____ Phone: _____

Reporting Lab (if different): _____ Signature: _____ Lab Accred. ID: _____ Phone: 23DEC 12 9:19 AM

NOTE: THIS IS NOT A REPORTING FORM. Results to be reported must include all information specified in Env-Dw 719, Reporting Monitoring Data.

Results must be reported to DES within 2 business days of analysis completion unless acute contaminants are exceeded which must be reported within 24 hours.



ANALYTICAL REPORT

Lab Number:	L2373544
Client:	Granite State Analytical Services 22 Manchester Rd Unit 2 Derry, NH 03038
ATTN:	Erin Shaw
Phone:	(603) 432-3044
Project Name:	PWS
Project Number:	2312-01759
Report Date:	12/21/23

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (99110), NJ (MA015), NY (11627), NC (685), OH (CL106), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: PWS
Project Number: 2312-01759

Lab Number: L2373544
Report Date: 12/21/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2373544-01	2312-01759-001	DW	NH	12/11/23 08:05	12/13/23

Project Name: PWS
Project Number: 2312-01759

Lab Number: L2373544
Report Date: 12/21/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: PWS
Project Number: 2312-01759

Lab Number: L2373544
Report Date: 12/21/23

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Perfluorinated Alkyl Acids by EPA 537.1

WG1864955-1R: The sample was re-analyzed due to QC failures in the original analysis. The results of the re-analysis are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Ashley Boucher

Title: Technical Director/Representative

Date: 12/21/23

ORGANICS

SEMIVOLATILES

Project Name: PWS
Project Number: 2312-01759

Lab Number: L2373544
Report Date: 12/21/23

SAMPLE RESULTS

Lab ID: L2373544-01
Client ID: 2312-01759-001
Sample Location: NH

Date Collected: 12/11/23 08:05
Date Received: 12/13/23
Field Prep: Not Specified

Sample Depth:

Matrix: Dw
Analytical Method: 133,537.1
Analytical Date: 12/20/23 13:52
Analyst: RDB

Extraction Method: EPA 537.1
Extraction Date: 12/17/23 11:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab						
Perfluorohexanesulfonic Acid (PFHxS)	0.744	J	ng/l	2.00	0.630	1
Perfluorooctanoic Acid (PFOA)	5.95		ng/l	2.00	0.630	1
Perfluorononanoic Acid (PFNA)	0.804	J	ng/l	2.00	0.630	1
Perfluorooctanesulfonic Acid (PFOS)	1.52	J	ng/l	2.00	0.630	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	95		70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	95		70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	86		70-130

Project Name: PWS
Project Number: 2312-01759

Lab Number: L2373544
Report Date: 12/21/23

Method Blank Analysis Batch Quality Control

Analytical Method: 133,537.1
Analytical Date: 12/21/23 10:30
Analyst: CAP

Extraction Method: EPA 537.1
Extraction Date: 12/17/23 11:15

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab for sample(s): 01 Batch: WG1864955-1 R					
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.668
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.668
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.668
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.668

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	106		70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	89		70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	82		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PWS
Project Number: 2312-01759

Lab Number: L2373544
Report Date: 12/21/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab Associated sample(s): 01 Batch: WG1864955-2								
Perfluorohexanesulfonic Acid (PFHxS)	114		-		70-130	-		30
Perfluorooctanoic Acid (PFOA)	118		-		70-130	-		30
Perfluorononanoic Acid (PFNA)	120		-		70-130	-		30
Perfluorooctanesulfonic Acid (PFOS)	113		-		70-130	-		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	92				70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	107				70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	96				70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: PWS
Project Number: 2312-01759

Lab Number: L2373544
Report Date: 12/21/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab		Associated sample(s): 01			QC Batch ID: WG1864955-3		QC Sample: L2373123-01		Client ID: MS Sample			
Perfluorobutanesulfonic Acid (PFBS)	ND	134	148	111	-	-	-	-	70-130	-	-	30
Perfluorohexanoic Acid (PFHxA)	0.781J	150	128	85	-	-	-	-	70-130	-	-	30
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND	150	185	123	-	-	-	-	70-130	-	-	30
Perfluoroheptanoic Acid (PFHpA)	0.615J	150	151	100	-	-	-	-	70-130	-	-	30
Perfluorohexanesulfonic Acid (PFHxS)	ND	137	147	107	-	-	-	-	70-130	-	-	30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	142	149	105	-	-	-	-	70-130	-	-	30
Perfluorooctanoic Acid (PFOA)	ND	150	167	111	-	-	-	-	70-130	-	-	30
Perfluorononanoic Acid (PFNA)	ND	150	167	111	-	-	-	-	70-130	-	-	30
Perfluorooctanesulfonic Acid (PFOS)	ND	140	140	100	-	-	-	-	70-130	-	-	30
Perfluorodecanoic Acid (PFDA)	ND	150	171	114	-	-	-	-	70-130	-	-	30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	140	135	96	-	-	-	-	70-130	-	-	30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	150	130	86	-	-	-	-	70-130	-	-	30
Perfluoroundecanoic Acid (PFUnA)	ND	150	138	92	-	-	-	-	70-130	-	-	30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	150	131	87	-	-	-	-	70-130	-	-	30
Perfluorododecanoic Acid (PFDoA)	ND	150	141	94	-	-	-	-	70-130	-	-	30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	142	128	90	-	-	-	-	70-130	-	-	30
Perfluorotridecanoic Acid (PFTrDA)	ND	150	163	108	-	-	-	-	70-130	-	-	30
Perfluorotetradecanoic Acid (PFTA)	ND	150	159	106	-	-	-	-	70-130	-	-	30

Matrix Spike Analysis

Batch Quality Control

Project Name: PWS
Project Number: 2312-01759

Lab Number: L2373544
Report Date: 12/21/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits

Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1864955-3 QC Sample: L2373123-01 Client ID: MS Sample

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	116				70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	71				70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	98				70-130
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	94				70-130

Lab Duplicate Analysis Batch Quality Control

Project Name: PWS
Project Number: 2312-01759

Lab Number: L2373544
Report Date: 12/21/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1864955-4 QC Sample: L2373123-03 Client ID: DUP Sample						
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/l	NC		30
Perfluorohexanoic Acid (PFHxA)	0.708J	0.744J	ng/l	NC		30
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND	ND	ng/l	NC		30
Perfluoroheptanoic Acid (PFHpA)	ND	0.630J	ng/l	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/l	NC		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	ND	ng/l	NC		30
Perfluorooctanoic Acid (PFOA)	ND	ND	ng/l	NC		30
Perfluorononanoic Acid (PFNA)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonic Acid (PFOS)	ND	ND	ng/l	NC		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/l	NC		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	ND	ng/l	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/l	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/l	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/l	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/l	NC		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	ND	ng/l	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/l	NC		30
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/l	NC		30

Lab Duplicate Analysis Batch Quality Control

Project Name: PWS
Project Number: 2312-01759

Lab Number: L2373544
Report Date: 12/21/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1864955-4 QC Sample: L2373123-03 Client ID: DUP Sample						

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	92		108		70-130
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	101		122		70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	82		97		70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	72		86		70-130

Project Name: PWS
Project Number: 2312-01759

Serial_No:12212316:46
Lab Number: L2373544
Report Date: 12/21/23

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2373544-01A	Plastic 250ml Trizma preserved	A	NA		3.3	Y	Absent		A2-NH-537.1-4(14)
L2373544-01B	Plastic 250ml Trizma preserved	A	NA		3.3	Y	Absent		A2-NH-537.1-4(14)

Project Name: PWS
Project Number: 2312-01759

Serial_No:12212316:46
Lab Number: L2373544
Report Date: 12/21/23

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA/PFTeDA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS/PFDoS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
Perfluoropropanesulfonic Acid	PFPrS	423-41-6
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA/PFOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name: PWS
Project Number: 2312-01759

Serial_No:12212316:46
Lab Number: L2373544
Report Date: 12/21/23

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
FLUOROTELOMER CARBOXYLIC ACIDS (FTCAs)		
3-Perfluoroheptyl Propanoic Acid	7:3FTCA	812-70-4
2H,2H,3H,3H-Perfluorooctanoic Acid	5:3FTCA	914637-49-3
3-Perfluoropropyl Propanoic Acid	3:3FTCA	356-02-5

Project Name: PWS
Project Number: 2312-01759

Lab Number: L2373544
Report Date: 12/21/23

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



Project Name: PWS
Project Number: 2312-01759

Lab Number: L2373544
Report Date: 12/21/23

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers



Project Name: PWS
Project Number: 2312-01759

Lab Number: L2373544
Report Date: 12/21/23

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers



Project Name: PWS
Project Number: 2312-01759

Lab Number: L2373544
Report Date: 12/21/23

REFERENCES

- 133 Determination of Selected Per- and Polyfluorinated Alkyl Substances in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS). EPA Method 537.1, EPA/600/R-18/352. Version 1.0, November 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Alpha Analytical, Inc.

ID No.:17873

Facility: **Company-wide**

Revision 20

Department: **Quality Assurance**

Published Date: 6/16/2023 4:52:28 PM

Title: **Certificate/Approval Program Summary**

Page 1 of 1

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility**EPA 624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625.1:** alpha-Terpineol**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:**Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,****SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables).**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.**EPA 522, EPA 537.1.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1** Hg.**SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



CHAIN OF CUSTODY

PAGE 1 OF 1

Project Information

Westborough, MA	Mansfield, MA
TEL: 508-898-9220	TEL: 508-822-9300
FAX: 508-898-9193	FAX: 508-822-3286

Project Name: Circle: Residential PWS

Client Information

Client: Granite State Analytical
Address: 22 Manchester Rd
Derry, NH 03038

Project Location: Circle: MA ME / NH

Project #: 2312-01759

Project Manager:

ALPHA Quote #:

Turn-Around Time

Fax: _____ ☒ Standard ☐ Rush (ONLY IF PRE-APPROVED)☐ These samples have been Previously analyzed by Alpha

Due Date: Time:

Other Project Specific Requirements/Comments/Detection Limits:

Field Blank analysis and reporting included if requested on CoC at 50% charge.

Date Rec'd in Lab:

ALPHA Job #:

Report Information Data Deliverables

☐ FAX ☒ EMAIL

☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

ANALYSIS

SAMPLE HANDLING

Filtration

☐ Done

☐ Not Needed

☐ Lab to do

Preservation

☐ Lab to do

(Please specify below)

TOTAL # BOTTLES

Sample Specific Comments

[illegible]

Container Type	P	P	P	P	P	P	P	-	-	-	-	-
Preservative	O	O	O	O	O	O	O	-	-	-	-	-

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

Relinquished By:

Date/Time

Received By:

Date/Time



GRANITE STATE ANALYTICAL SERVICES, LLC.

22 Manchester Road, Unit 2, Derry, NH 03038
Phone (800) 699-9920 | (603) 432-3044 website www.granitestateanalytical.com

Laboratory Report

Town of Salem/Finance Dept.
33 Geremonty Dr., Attn: Susan
Galvin
Salem, NH 03079

Date Printed: 06/10/2024
Work Order #: 2406-00856
Client Job #:
Date Received: 06/05/2024
Sample collected in: New Hampshire

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of the analyzing laboratory's Quality Assurance Plan, Standard Operating Procedures and State Accreditation. This certificate shall not be reproduced, except in full, without the written approval of the analyzing laboratory. The results presented in this report relate to the samples listed on the following pages in the condition in which they were received. Accreditation for each analyte is identified by the * symbol following the analyte name. Location of our analyzing laboratory is identified by the code in the Analyst Column.

A & L Laboratory:
Identified by ME in Analyst Column
155 Center Street, Auburn, Maine 04210
www.allaboratory.com

Granite State Analytical Services LLC:
Identified by NH in Analyst Column
22 Manchester Road, Derry, NH 03038
www.granitestateanalytical.com

Nashoba Analytical:
Identified by MA in the Analyst Column
31A Willow Road, Ayer, MA 01432
www.nashobaanalytical.com

ANALYSIS RELATED NOTES:

- RL: "Reporting limit" means the lowest level of an analyte that can be accurately recovered from the matrix of interest.
- DF: "Dilution factor" means the ratio of the volume of the sample to the volume of the final (dilute) solution.
- MDL: "Minimum Detection Limit" means the minimum result which can be reliably discriminated from a blank with a predetermined confidence level.
- A & L Laboratory / Granite State Analytical Services LLC / Nashoba Analytical. accreditation lists can be found on our websites listed above.
- Subcontracted samples will be identified by the Accreditation number of the subcontract laboratory in the analyst field for each analyte and the appropriate laboratory will be listed here. **None**
- Data Qualifiers (DQ) Flags provide additional information in regards to the receipt, analysis or quality control of a sample. These are indicated under the DQ Flags Column on your report and listed here if necessary: **Data Qualifier (DQ) Flags: J = Estimated concentration.**

SAMPLE STATE SPECIFIC NOTES:

Additional Narrative or Comments: **None**

We appreciate the opportunity to provide you with laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be happy to assist you.



Donald A. D'Anjou, Ph. D.
Laboratory Director

A & L Laboratory: Accreditations: Maine ME00021, New Hampshire 2501, Maine Radon Registration ID # SPC20
Granite State Analytical Services, LLC: Accreditations: New Hampshire 1015; Maine NH00003;
Massachusetts M-NH0003; Rhode Island 101513; Vermont VT-101507
Nashoba Analytical: Accreditations: Massachusetts M-MA1118



GRANITE STATE ANALYTICAL SERVICES, LLC.

22 Manchester Road, Unit 2, Derry, NH 03038
Phone (800) 699-9920 | (603) 432-3044 website www.granitestateanalytical.com

DRINKING WATER COMPLIANCE REPORT

DATE PRINTED: 06/10/2024
SAMPLE ID #: 2406-00856-001
SAMPLED BY: Poor, Maria

CHEMICAL RESULTS FOR THE 2nd QUARTER 2024
LAB ID#: 1015

Legend	
Passes	✓
Fails EPA Primary	⊗
Fails EPA Secondary	⚠
Fails State Guideline	✗
Attention	⚠

SAMPLE CATEGORY: Routine Sample
SYSTEM NAME: Salem Water Dept
EPA ID#: 2051010
SYSTEM TOWN: Salem
SAMPLE AGENT #: 603-890-2171
SAMPLE LOCATION: 009 Sampling Tap After Chlorinator/Canobie Lake

DATE & TIME COLLECTED: 06/04/2024 09:30AM
DATE & TIME RECEIVED: 06/05/2024 10:04AM
WATER SYS TYPE: Community
RECEIPT TEMP: ON ICE 4.1° CELSIUS
CLIENT JOB #:

BAR CODE:

Test Description	Results	Test Units	Pass /Fail	DQ Flag	RL	Limit	Method	Analyst	Date & Time Analyzed
Date Extracted	-					No Limit	EPA 537.1	JLR-NH	06/06/2024 10:15AM
Perfluorohexanesulfonic Acid (PFHxS)*	1.53	ng/L	✓	J	2.00	18 ng/L	EPA 537.1	JLR-NH	06/07/2024 11:01AM
Perfluorononanoic Acid (PFNA)*	0.884	ng/L	✓	J	2.00	11 ng/L	EPA 537.1	JLR-NH	06/07/2024 11:01AM
Perfluorooctanesulfonic Acid (PFOS)*	2.86	ng/L	✓		2.00	15 ng/L	EPA 537.1	JLR-NH	06/07/2024 11:01AM
Perfluorooctanoic Acid (PFOA)*	7.64	ng/L	✓		2.00	12 ng/L	EPA 537.1	JLR-NH	06/07/2024 11:01AM
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	88	%	✓			70-130%	EPA 537.1 - SS	JLR-NH	06/07/2024 11:01AM
Perfluoro-n-[1,2-13C2]decanoic Acid (13C2-PFDA)	98	%	✓			70-130%	EPA 537.1 - SS	JLR-NH	06/07/2024 11:01AM
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C2-PFHxA)	75	%	✓			70-130%	EPA 537.1 - SS	JLR-NH	06/07/2024 11:01AM
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic Acid (13C3-HFPO-DA)	72	%	✓			70-130%	EPA 537.1 - SS	JLR-NH	06/07/2024 11:01AM




Donald A. D'Anjou, Ph. D.
Laboratory Director



Drinking Water and Groundwater Bureau
Analysis Request Form

May 23, 2024

Page 1 of 2

CHEMICAL

Compliance Sample Site(s) per Master Sampling Schedule

PWS ID: 2051010

System Name: SALEM WATER DEPT

PWS Town: SALEM

Date/Time Sample Collected: 6/4/24 9:30 AM

Collected By: Mahan

Signature: [Signature]

I certify that all samples taken are from the site(s) listed below and all information provided on this form to the lab is valid.

Phone Number: 1-603-890-2172

Locator ID#: 009

Sample Site Location: SAMPLING TAP AFTER CHLORINATOR/CANOBIELAKE

Sample Period: Q1 ☐ Q2 ☒ Q3 ☐ Q4 ☐ Year: 2024

Sample Type: Routine ☒ Confirmation ☐ Make-up ☐

Check Test(s) Requested	# of Containers	Lab Sample ID	Check Test(s) Requested	# of Containers	Lab Sample ID
NITRITE * (see note)			Compliance Gross Alpha (see note)***		
NITRATE * (see note)			Combined Radium		
VOC			Uranium mass		
SOC			PFAS	2	2406-856
IOC			Cyanide ** (see note)	6/5/24 930	
Manganese			OTHER:		

* NOTE: Samples collected for NITRATE/NITRITE analysis NEED to be collected prior to chlorination. Check with Lab.

** CYANIDE samples NEED to be collected prior to chlorination. Check with Lab.

*** In order to calculate Compliance Gross Alpha, a sample for Uranium must be taken on the same day.

FOR LAB USE: Temp C (upon receipt): 41 On Ice? ☒ N Batch ID (if different than sample ID prefix):

List QUALIFIERS (if any):

Relinquished by: [Signature] Received by: [Signature]

Date/Time: 6/5/24 930

Relinquished by: [Signature] Received at Lab by: [Signature]

Date/Time: 24JUN 510:04AM

Lab Conducting Analysis: [Signature] Signature: [Signature]

Lab Accred. ID: [Signature] Phone: [Signature]

Reporting Lab (if different): [Signature] Signature: [Signature]

Lab Accred. ID: [Signature] Phone: [Signature]

NOTE: THIS IS NOT A REPORTING FORM. Results to be reported must include all information specified in Env-Dw 719, Reporting Monitoring Data.

Results must be reported to DES within 2 business days of analysis completion unless a contaminant is exceeded which must be reported within 24 hours.



January 20, 2025

Maria Poor
Town of Salem
161 N Policy St
Salem, NH 03079

RE: Project: UCMR5_SE1_Dec2024
Pace Project No.: 35924722

Dear Maria Poor:

Enclosed are the analytical results for sample(s) received by the laboratory on December 13, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Ormond Beach

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "DJ Kapadia".

DJ Kapadia
dj.kapadia@pacelabs.com
(386)672-5668
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: UCMR5_SE1_Dec2024

Pace Project No.: 35924722

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

California Certification# 3096

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

DoD-ANAB #:ADE-3199

Florida Certification #: E83079

Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity

Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity

Louisiana Environmental Certificate #: 05007

Maine Certification #: FL01264

Maryland Certification: #346

Massachusetts Certification #: M-FL1264

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236

Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14

Nevada Certification: FL NELAC Reciprocity

New Hampshire Certification #: 2958

New Jersey Certification #: FL022

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710

North Dakota Certification #: R-216

Ohio DEP 87780

Oklahoma Certification #: D9947

Pennsylvania Certification #: 68-00547

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Utah

Utah FL NELAC Reciprocity

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: UCMR5_SE1_Dec2024

Pace Project No.: 35924722

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35924722001	00009 Canobie Lake Water TP	Drinking Water	12/12/24 10:15	12/13/24 08:45
35924722002	FRB-00009 Canobie Lake Water T	Drinking Water	12/12/24 10:15	12/13/24 08:45
35924722003	00010 Northland Rd Booster	Drinking Water	12/12/24 10:00	12/13/24 08:45
35924722004	FRB-00010 Northland Rd Booster	Drinking Water	12/12/24 10:00	12/13/24 08:45

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SAMPLE ANALYTE COUNT

Project: UCMR5_SE1_Dec2024

Pace Project No.: 35924722

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35924722001	00009 Canobie Lake Water TP	EPA 200.7	ASB	1	PASI-O
		EPA 533	SWR	41	PASI-O
		EPA 537.1	HL	8	PASI-O
35924722002	FRB-00009 T Canobie Lake Water	EPA 533	TMM1	41	PASI-O
35924722003	00010 Northland Rd Booster	EPA 200.7	ASB	1	PASI-O
		EPA 533	SWR	41	PASI-O
		EPA 537.1	HL	8	PASI-O
35924722004	FRB-00010 Booster Northland Rd	EPA 533	TMM1	41	PASI-O

PASI-O = Pace Analytical Services - Ormond Beach

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ANALYTICAL RESULTS

Project: UCMR5_SE1_Dec2024

Pace Project No.: 35924722

Sample: 00009 Canobie Lake Water TP Lab ID: 35924722001 Collected: 12/12/24 10:15 Received: 12/13/24 08:45 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP, UCMR									
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Ormond Beach									
Lithium	7.5 U	ug/L	22.5	7.5	2.5	12/18/24 04:23	01/09/25 18:47	7439-93-2	N2
533 PFAS Compounds, UCMR									
Analytical Method: EPA 533 Preparation Method: EPA 533									
Initial Volume/Weight: 265.77 mL Final Volume/Weight: 1 mL									
Pace Analytical Services - Ormond Beach									
11CI-PF3OUdS	0.0016 U	ug/L	0.0047	0.0016	1	12/13/24 16:52	12/15/24 16:52	763051-92-9	
4:2 FTS	0.0009 U	ug/L	0.0028	0.0009	1	12/13/24 16:52	12/15/24 16:52	757124-72-4	
6:2 FTS	0.0016 U	ug/L	0.0047	0.0016	1	12/13/24 16:52	12/15/24 16:52	27619-97-2	
8:2 FTS	0.0016 U	ug/L	0.0047	0.0016	1	12/13/24 16:52	12/15/24 16:52	39108-34-4	
9CI-PF3ONS	0.0006 U	ug/L	0.0019	0.0006	1	12/13/24 16:52	12/15/24 16:52	756426-58-1	
ADONA	0.0009 U	ug/L	0.0028	0.0009	1	12/13/24 16:52	12/15/24 16:52	919005-14-4	
HFPO-DA	0.0016 U	ug/L	0.0047	0.0016	1	12/13/24 16:52	12/15/24 16:52	13252-13-6	
NFDHA	0.0063 U	ug/L	0.019	0.0063	1	12/13/24 16:52	12/15/24 16:52	151772-58-6	
PFBS	0.0020 I	ug/L	0.0028	0.0009	1	12/13/24 16:52	12/15/24 16:52	375-73-5	
PFDA	0.0009 U	ug/L	0.0028	0.0009	1	12/13/24 16:52	12/15/24 16:52	335-76-2	
PFHxA	0.0022 I	ug/L	0.0028	0.0009	1	12/13/24 16:52	12/15/24 16:52	307-24-4	
PFBA	0.0023 I	ug/L	0.0047	0.0016	1	12/13/24 16:52	12/15/24 16:52	375-22-4	
PFEESA	0.0009 U	ug/L	0.0028	0.0009	1	12/13/24 16:52	12/15/24 16:52	113507-82-7	
PFHpS	0.0009 U	ug/L	0.0028	0.0009	1	12/13/24 16:52	12/15/24 16:52	375-92-8	
PFMBA	0.0009 U	ug/L	0.0028	0.0009	1	12/13/24 16:52	12/15/24 16:52	863090-89-5	
PFMPA	0.0013 U	ug/L	0.0038	0.0013	1	12/13/24 16:52	12/15/24 16:52	377-73-1	
PFPeA	0.0023 I	ug/L	0.0028	0.0009	1	12/13/24 16:52	12/15/24 16:52	2706-90-3	
PFPeS	0.0013 U	ug/L	0.0038	0.0013	1	12/13/24 16:52	12/15/24 16:52	2706-91-4	
PFDoA	0.0009 U	ug/L	0.0028	0.0009	1	12/13/24 16:52	12/15/24 16:52	307-55-1	
PFHpA	0.0013 I	ug/L	0.0028	0.0009	1	12/13/24 16:52	12/15/24 16:52	375-85-9	
PFHxS	0.0013 I	ug/L	0.0028	0.0009	1	12/13/24 16:52	12/15/24 16:52	355-46-4	
PFNA	0.0013 U	ug/L	0.0038	0.0013	1	12/13/24 16:52	12/15/24 16:52	375-95-1	
PFOS	0.0020 I	ug/L	0.0038	0.0013	1	12/13/24 16:52	12/15/24 16:52	1763-23-1	
PFOA	0.0056	ug/L	0.0038	0.0013	1	12/13/24 16:52	12/15/24 16:52	335-67-1	
PFUnA	0.0006 U	ug/L	0.0019	0.0006	1	12/13/24 16:52	12/15/24 16:52	2058-94-8	
Surrogates									
13C24:2FTS (S)	198	%	50-200		1	12/13/24 16:52	12/15/24 16:52		
13C26:2FTS (S)	140	%	50-200		1	12/13/24 16:52	12/15/24 16:52		
13C28:2FTS (S)	107	%	50-200		1	12/13/24 16:52	12/15/24 16:52		
13C2-PFDoA (S)	80	%	50-200		1	12/13/24 16:52	12/15/24 16:52		
13C3HFPO-DA(S)	75	%	50-200		1	12/13/24 16:52	12/15/24 16:52		
13C3-PFBS (S)	82	%	50-200		1	12/13/24 16:52	12/15/24 16:52		
13C3-PFHxS (S)	95	%	50-200		1	12/13/24 16:52	12/15/24 16:52		
13C4-PFBA (S)	92	%	50-200		1	12/13/24 16:52	12/15/24 16:52		
13C4-PFHpA (S)	83	%	50-200		1	12/13/24 16:52	12/15/24 16:52		
13C5-PFHxA (S)	81	%	50-200		1	12/13/24 16:52	12/15/24 16:52		
13C5-PFPeA (S)	66	%	50-200		1	12/13/24 16:52	12/15/24 16:52		
13C6-PFDA (S)	80	%	50-200		1	12/13/24 16:52	12/15/24 16:52		

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ANALYTICAL RESULTS

Project: UCMR5_SE1_Dec2024

Pace Project No.: 35924722

Sample: 00009 Canobie Lake Water TP **Lab ID:** 35924722001 **Collected:** 12/12/24 10:15 **Received:** 12/13/24 08:45 **Matrix:** Drinking Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual

533 PFAS Compounds, UCMRAnalytical Method: EPA 533 Preparation Method: EPA 533
Initial Volume/Weight: 265.77 mL Final Volume/Weight: 1 mL
Pace Analytical Services - Ormond Beach**Surrogates**

13C7-PFUDA (S)	83	%	50-200		1	12/13/24 16:52	12/15/24 16:52		
13C8-PFOA (S)	87	%	50-200		1	12/13/24 16:52	12/15/24 16:52		
13C8-PFOS (S)	95	%	50-200		1	12/13/24 16:52	12/15/24 16:52		
13C9-PFNA (S)	84	%	50-200		1	12/13/24 16:52	12/15/24 16:52		

537.1 PFAS Compounds, UCMRAnalytical Method: EPA 537.1 Preparation Method: EPA 537.1
Initial Volume/Weight: 264.97 mL Final Volume/Weight: 1 mL
Pace Analytical Services - Ormond Beach

NEtFOSAA	0.0016 U	ug/L	0.0057	0.0016	1	12/14/24 16:19	12/16/24 06:05	2991-50-6	
NMeFOSAA	0.0019 U	ug/L	0.0057	0.0019	1	12/14/24 16:19	12/16/24 06:05	2355-31-9	
PFTeDA	0.0025 U	ug/L	0.0075	0.0025	1	12/14/24 16:19	12/16/24 06:05	376-06-7	
PFTrDA	0.0022 U	ug/L	0.0066	0.0022	1	12/14/24 16:19	12/16/24 06:05	72629-94-8	

Surrogates

13C2-PFDA (S)	94	%	70-130		1	12/14/24 16:19	12/16/24 06:05		
13C2-PFHxA (S)	90	%	70-130		1	12/14/24 16:19	12/16/24 06:05		
NEtFOSAA-d5 (S)	90	%	70-130		1	12/14/24 16:19	12/16/24 06:05		
HFPO-DAS (S)	83	%	70-130		1	12/14/24 16:19	12/16/24 06:05		

Sample: FRB-00009 Canobie Lake Water T **Lab ID:** 35924722002 **Collected:** 12/12/24 10:15 **Received:** 12/13/24 08:45 **Matrix:** Drinking Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual

533 PFAS Compounds, UCMRAnalytical Method: EPA 533 Preparation Method: EPA 533
Initial Volume/Weight: 257.52 mL Final Volume/Weight: 1 mL
Pace Analytical Services - Ormond Beach

11CI-PF3OUdS	0.0016 U	ug/L	0.0049	0.0016	1	01/05/25 17:05	01/07/25 21:51	763051-92-9	
4:2 FTS	0.001 U	ug/L	0.0029	0.001	1	01/05/25 17:05	01/07/25 21:51	757124-72-4	
6:2 FTS	0.0016 U	ug/L	0.0049	0.0016	1	01/05/25 17:05	01/07/25 21:51	27619-97-2	
8:2 FTS	0.0016 U	ug/L	0.0049	0.0016	1	01/05/25 17:05	01/07/25 21:51	39108-34-4	
9CI-PF3ONS	0.0007 U	ug/L	0.0019	0.0007	1	01/05/25 17:05	01/07/25 21:51	756426-58-1	
ADONA	0.001 U	ug/L	0.0029	0.001	1	01/05/25 17:05	01/07/25 21:51	919005-14-4	
HFPO-DA	0.0016 U	ug/L	0.0049	0.0016	1	01/05/25 17:05	01/07/25 21:51	13252-13-6	
NFDHA	0.0065 U	ug/L	0.019	0.0065	1	01/05/25 17:05	01/07/25 21:51	151772-58-6	
PFBS	0.001 U	ug/L	0.0029	0.001	1	01/05/25 17:05	01/07/25 21:51	375-73-5	
PFDA	0.001 U	ug/L	0.0029	0.001	1	01/05/25 17:05	01/07/25 21:51	335-76-2	
PFHxA	0.001 U	ug/L	0.0029	0.001	1	01/05/25 17:05	01/07/25 21:51	307-24-4	
PFBA	0.0016 U	ug/L	0.0049	0.0016	1	01/05/25 17:05	01/07/25 21:51	375-22-4	
PFEESA	0.001 U	ug/L	0.0029	0.001	1	01/05/25 17:05	01/07/25 21:51	113507-82-7	
PFHpS	0.001 U	ug/L	0.0029	0.001	1	01/05/25 17:05	01/07/25 21:51	375-92-8	
PFMBA	0.001 U	ug/L	0.0029	0.001	1	01/05/25 17:05	01/07/25 21:51	863090-89-5	

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ANALYTICAL RESULTS

Project: UCMR5_SE1_Dec2024

Pace Project No.: 35924722

Sample: FRB-00009 Canobie Lab ID: 35924722002 Collected: 12/12/24 10:15 Received: 12/13/24 08:45 Matrix: Drinking Water
Lake Water T

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
533 PFAS Compounds, UCMR									
Analytical Method: EPA 533 Preparation Method: EPA 533									
Initial Volume/Weight: 257.52 mL Final Volume/Weight: 1 mL									
Pace Analytical Services - Ormond Beach									
PFMPA	0.0013 U	ug/L	0.0039	0.0013	1	01/05/25 17:05	01/07/25 21:51	377-73-1	
PFPeA	0.001 U	ug/L	0.0029	0.001	1	01/05/25 17:05	01/07/25 21:51	2706-90-3	
PFPeS	0.0013 U	ug/L	0.0039	0.0013	1	01/05/25 17:05	01/07/25 21:51	2706-91-4	
PFDoA	0.001 U	ug/L	0.0029	0.001	1	01/05/25 17:05	01/07/25 21:51	307-55-1	
PFHpA	0.001 U	ug/L	0.0029	0.001	1	01/05/25 17:05	01/07/25 21:51	375-85-9	
PFHxS	0.001 U	ug/L	0.0029	0.001	1	01/05/25 17:05	01/07/25 21:51	355-46-4	
PFNA	0.0013 U	ug/L	0.0039	0.0013	1	01/05/25 17:05	01/07/25 21:51	375-95-1	
PFOS	0.0013 U	ug/L	0.0039	0.0013	1	01/05/25 17:05	01/07/25 21:51	1763-23-1	
PFOA	0.0013 U	ug/L	0.0039	0.0013	1	01/05/25 17:05	01/07/25 21:51	335-67-1	
PFUnA	0.0007 U	ug/L	0.0019	0.0007	1	01/05/25 17:05	01/07/25 21:51	2058-94-8	
Surrogates									
13C24:2FTS (S)	102	%	50-200		1	01/05/25 17:05	01/07/25 21:51		
13C26:2FTS (S)	97	%	50-200		1	01/05/25 17:05	01/07/25 21:51		
13C28:2FTS (S)	94	%	50-200		1	01/05/25 17:05	01/07/25 21:51		
13C2-PFDaA (S)	88	%	50-200		1	01/05/25 17:05	01/07/25 21:51		
13C3HFPO-DA(S)	81	%	50-200		1	01/05/25 17:05	01/07/25 21:51		
13C3-PFBS (S)	101	%	50-200		1	01/05/25 17:05	01/07/25 21:51		
13C3-PFHxS (S)	99	%	50-200		1	01/05/25 17:05	01/07/25 21:51		
13C4-PFBA (S)	81	%	50-200		1	01/05/25 17:05	01/07/25 21:51		
13C4-PFHpA (S)	79	%	50-200		1	01/05/25 17:05	01/07/25 21:51		
13C5-PFHxA (S)	79	%	50-200		1	01/05/25 17:05	01/07/25 21:51		
13C5-PFPeA (S)	79	%	50-200		1	01/05/25 17:05	01/07/25 21:51		
13C6-PFDA (S)	87	%	50-200		1	01/05/25 17:05	01/07/25 21:51		
13C7-PFudA (S)	88	%	50-200		1	01/05/25 17:05	01/07/25 21:51		
13C8-PFOA (S)	82	%	50-200		1	01/05/25 17:05	01/07/25 21:51		
13C8-PFOS (S)	96	%	50-200		1	01/05/25 17:05	01/07/25 21:51		
13C9-PFNA (S)	85	%	50-200		1	01/05/25 17:05	01/07/25 21:51		

Sample: 00010 Northland Rd Lab ID: 35924722003 Collected: 12/12/24 10:00 Received: 12/13/24 08:45 Matrix: Drinking Water
Booster

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP, UCMR									
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Ormond Beach									
Lithium	7.5 U	ug/L	22.5	7.5	2.5	12/18/24 04:23	01/09/25 18:49	7439-93-2	N2

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ANALYTICAL RESULTS

Project: UCMR5_SE1_Dec2024

Pace Project No.: 35924722

Sample: 00010 Northland Rd Lab ID: 35924722003 Collected: 12/12/24 10:00 Received: 12/13/24 08:45 Matrix: Drinking Water
Booster

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
533 PFAS Compounds, UCMR									
Analytical Method: EPA 533 Preparation Method: EPA 533									
Initial Volume/Weight: 285.86 mL Final Volume/Weight: 1 mL									
Pace Analytical Services - Ormond Beach									
11CI-PF3OUdS	0.0015 U	ug/L	0.0044	0.0015	1	12/13/24 16:52	12/15/24 17:08	763051-92-9	
4:2 FTS	0.0009 U	ug/L	0.0026	0.0009	1	12/13/24 16:52	12/15/24 17:08	757124-72-4	
6:2 FTS	0.0015 U	ug/L	0.0044	0.0015	1	12/13/24 16:52	12/15/24 17:08	27619-97-2	
8:2 FTS	0.0015 U	ug/L	0.0044	0.0015	1	12/13/24 16:52	12/15/24 17:08	39108-34-4	
9CI-PF3ONS	0.0006 U	ug/L	0.0017	0.0006	1	12/13/24 16:52	12/15/24 17:08	756426-58-1	
ADONA	0.0009 U	ug/L	0.0026	0.0009	1	12/13/24 16:52	12/15/24 17:08	919005-14-4	
HFPO-DA	0.0015 U	ug/L	0.0044	0.0015	1	12/13/24 16:52	12/15/24 17:08	13252-13-6	
NFDHA	0.0058 U	ug/L	0.017	0.0058	1	12/13/24 16:52	12/15/24 17:08	151772-58-6	
PFBS	0.0009 U	ug/L	0.0026	0.0009	1	12/13/24 16:52	12/15/24 17:08	375-73-5	
PFDA	0.0009 U	ug/L	0.0026	0.0009	1	12/13/24 16:52	12/15/24 17:08	335-76-2	
PFHxA	0.0013 I	ug/L	0.0026	0.0009	1	12/13/24 16:52	12/15/24 17:08	307-24-4	
PFBA	0.0021 I	ug/L	0.0044	0.0015	1	12/13/24 16:52	12/15/24 17:08	375-22-4	
PFEESA	0.0009 U	ug/L	0.0026	0.0009	1	12/13/24 16:52	12/15/24 17:08	113507-82-7	
PFHpS	0.0009 U	ug/L	0.0026	0.0009	1	12/13/24 16:52	12/15/24 17:08	375-92-8	
PFMBA	0.0009 U	ug/L	0.0026	0.0009	1	12/13/24 16:52	12/15/24 17:08	863090-89-5	
PFMPA	0.0012 U	ug/L	0.0035	0.0012	1	12/13/24 16:52	12/15/24 17:08	377-73-1	
PFPeA	0.0012 I	ug/L	0.0026	0.0009	1	12/13/24 16:52	12/15/24 17:08	2706-90-3	
PFPeS	0.0012 U	ug/L	0.0035	0.0012	1	12/13/24 16:52	12/15/24 17:08	2706-91-4	
PFDoA	0.0009 U	ug/L	0.0026	0.0009	1	12/13/24 16:52	12/15/24 17:08	307-55-1	
PFHpA	0.0011 I	ug/L	0.0026	0.0009	1	12/13/24 16:52	12/15/24 17:08	375-85-9	
PFHxS	0.0009 U	ug/L	0.0026	0.0009	1	12/13/24 16:52	12/15/24 17:08	355-46-4	
PFNA	0.0012 U	ug/L	0.0035	0.0012	1	12/13/24 16:52	12/15/24 17:08	375-95-1	
PFOS	0.0018 I	ug/L	0.0035	0.0012	1	12/13/24 16:52	12/15/24 17:08	1763-23-1	
PFOA	0.0057	ug/L	0.0035	0.0012	1	12/13/24 16:52	12/15/24 17:08	335-67-1	
PFUnA	0.0006 U	ug/L	0.0017	0.0006	1	12/13/24 16:52	12/15/24 17:08	2058-94-8	
Surrogates									
13C24:2FTS (S)	157	%	50-200		1	12/13/24 16:52	12/15/24 17:08		
13C26:2FTS (S)	122	%	50-200		1	12/13/24 16:52	12/15/24 17:08		
13C28:2FTS (S)	101	%	50-200		1	12/13/24 16:52	12/15/24 17:08		
13C2-PFDoA (S)	79	%	50-200		1	12/13/24 16:52	12/15/24 17:08		
13C3HFPO-DA(S)	81	%	50-200		1	12/13/24 16:52	12/15/24 17:08		
13C3-PFBS (S)	87	%	50-200		1	12/13/24 16:52	12/15/24 17:08		
13C3-PFHxS (S)	99	%	50-200		1	12/13/24 16:52	12/15/24 17:08		
13C4-PFBA (S)	92	%	50-200		1	12/13/24 16:52	12/15/24 17:08		
13C4-PFHpA (S)	85	%	50-200		1	12/13/24 16:52	12/15/24 17:08		
13C5-PFHxA (S)	86	%	50-200		1	12/13/24 16:52	12/15/24 17:08		
13C5-PFPeA (S)	75	%	50-200		1	12/13/24 16:52	12/15/24 17:08		
13C6-PFDA (S)	80	%	50-200		1	12/13/24 16:52	12/15/24 17:08		
13C7-PFUDa (S)	79	%	50-200		1	12/13/24 16:52	12/15/24 17:08		
13C8-PFOA (S)	84	%	50-200		1	12/13/24 16:52	12/15/24 17:08		
13C8-PFOS (S)	94	%	50-200		1	12/13/24 16:52	12/15/24 17:08		
13C9-PFNA (S)	82	%	50-200		1	12/13/24 16:52	12/15/24 17:08		

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ANALYTICAL RESULTS

Project: UCMR5_SE1_Dec2024

Pace Project No.: 35924722

Sample: 00010 Northland Rd Lab ID: 35924722003 Collected: 12/12/24 10:00 Received: 12/13/24 08:45 Matrix: Drinking Water
Booster

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, UCMR									
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1									
Initial Volume/Weight: 264.53 mL Final Volume/Weight: 1 mL									
Pace Analytical Services - Ormond Beach									
NEtFOSAA	0.0016 U	ug/L	0.0057	0.0016	1	12/14/24 16:19	12/16/24 06:21	2991-50-6	
NMeFOSAA	0.0019 U	ug/L	0.0057	0.0019	1	12/14/24 16:19	12/16/24 06:21	2355-31-9	
PFTeDA	0.0025 U	ug/L	0.0076	0.0025	1	12/14/24 16:19	12/16/24 06:21	376-06-7	
PFTrDA	0.0022 U	ug/L	0.0066	0.0022	1	12/14/24 16:19	12/16/24 06:21	72629-94-8	
Surrogates									
13C2-PFDA (S)	95	%	70-130		1	12/14/24 16:19	12/16/24 06:21		
13C2-PFHxA (S)	95	%	70-130		1	12/14/24 16:19	12/16/24 06:21		
NEtFOSAA-d5 (S)	97	%	70-130		1	12/14/24 16:19	12/16/24 06:21		
HFPO-DAS (S)	91	%	70-130		1	12/14/24 16:19	12/16/24 06:21		

Sample: FRB-00010 Northland Rd Lab ID: 35924722004 Collected: 12/12/24 10:00 Received: 12/13/24 08:45 Matrix: Drinking Water
Booster

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
533 PFAS Compounds, UCMR									
Analytical Method: EPA 533 Preparation Method: EPA 533									
Initial Volume/Weight: 258.88 mL Final Volume/Weight: 1 mL									
Pace Analytical Services - Ormond Beach									
11CI-PF3OUdS	0.0016 U	ug/L	0.0048	0.0016	1	01/05/25 17:05	01/07/25 22:08	763051-92-9	
4:2 FTS	0.001 U	ug/L	0.0029	0.001	1	01/05/25 17:05	01/07/25 22:08	757124-72-4	
6:2 FTS	0.0016 U	ug/L	0.0048	0.0016	1	01/05/25 17:05	01/07/25 22:08	27619-97-2	
8:2 FTS	0.0016 U	ug/L	0.0048	0.0016	1	01/05/25 17:05	01/07/25 22:08	39108-34-4	
9CI-PF3ONS	0.0006 U	ug/L	0.0019	0.0006	1	01/05/25 17:05	01/07/25 22:08	756426-58-1	
ADONA	0.001 U	ug/L	0.0029	0.001	1	01/05/25 17:05	01/07/25 22:08	919005-14-4	
HFPO-DA	0.0016 U	ug/L	0.0048	0.0016	1	01/05/25 17:05	01/07/25 22:08	13252-13-6	
NFDHA	0.0064 U	ug/L	0.019	0.0064	1	01/05/25 17:05	01/07/25 22:08	151772-58-6	
PFBS	0.001 U	ug/L	0.0029	0.001	1	01/05/25 17:05	01/07/25 22:08	375-73-5	
PFDA	0.001 U	ug/L	0.0029	0.001	1	01/05/25 17:05	01/07/25 22:08	335-76-2	
PFHxA	0.001 U	ug/L	0.0029	0.001	1	01/05/25 17:05	01/07/25 22:08	307-24-4	
PFBA	0.0016 U	ug/L	0.0048	0.0016	1	01/05/25 17:05	01/07/25 22:08	375-22-4	
PFEESA	0.001 U	ug/L	0.0029	0.001	1	01/05/25 17:05	01/07/25 22:08	113507-82-7	
PFHpS	0.001 U	ug/L	0.0029	0.001	1	01/05/25 17:05	01/07/25 22:08	375-92-8	
PFMBA	0.001 U	ug/L	0.0029	0.001	1	01/05/25 17:05	01/07/25 22:08	863090-89-5	
PFMPA	0.0013 U	ug/L	0.0039	0.0013	1	01/05/25 17:05	01/07/25 22:08	377-73-1	
PFPeA	0.001 U	ug/L	0.0029	0.001	1	01/05/25 17:05	01/07/25 22:08	2706-90-3	
PFPeS	0.0013 U	ug/L	0.0039	0.0013	1	01/05/25 17:05	01/07/25 22:08	2706-91-4	
PFDoA	0.001 U	ug/L	0.0029	0.001	1	01/05/25 17:05	01/07/25 22:08	307-55-1	
PFHpA	0.001 U	ug/L	0.0029	0.001	1	01/05/25 17:05	01/07/25 22:08	375-85-9	
PFHxS	0.001 U	ug/L	0.0029	0.001	1	01/05/25 17:05	01/07/25 22:08	355-46-4	
PFNA	0.0013 U	ug/L	0.0039	0.0013	1	01/05/25 17:05	01/07/25 22:08	375-95-1	
PFOS	0.0013 U	ug/L	0.0039	0.0013	1	01/05/25 17:05	01/07/25 22:08	1763-23-1	

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ANALYTICAL RESULTS

Project: UCMR5_SE1_Dec2024

Pace Project No.: 35924722

Sample: **FRB-00010** Lab ID: **35924722004** Collected: 12/12/24 10:00 Received: 12/13/24 08:45 Matrix: Drinking Water
Northland Rd
Booster

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
533 PFAS Compounds, UCMR									
Analytical Method: EPA 533 Preparation Method: EPA 533									
Initial Volume/Weight: 258.88 mL Final Volume/Weight: 1 mL									
Pace Analytical Services - Ormond Beach									
PFOA	0.0013 U	ug/L	0.0039	0.0013	1	01/05/25 17:05	01/07/25 22:08	335-67-1	
PFUnA	0.0006 U	ug/L	0.0019	0.0006	1	01/05/25 17:05	01/07/25 22:08	2058-94-8	
Surrogates									
13C24:2FTS (S)	106	%	50-200		1	01/05/25 17:05	01/07/25 22:08		
13C26:2FTS (S)	100	%	50-200		1	01/05/25 17:05	01/07/25 22:08		
13C28:2FTS (S)	96	%	50-200		1	01/05/25 17:05	01/07/25 22:08		
13C2-PFDoA (S)	89	%	50-200		1	01/05/25 17:05	01/07/25 22:08		
13C3HFPO-DA(S)	86	%	50-200		1	01/05/25 17:05	01/07/25 22:08		
13C3-PFBS (S)	103	%	50-200		1	01/05/25 17:05	01/07/25 22:08		
13C3-PFHxS (S)	102	%	50-200		1	01/05/25 17:05	01/07/25 22:08		
13C4-PFBA (S)	93	%	50-200		1	01/05/25 17:05	01/07/25 22:08		
13C4-PFHpA (S)	90	%	50-200		1	01/05/25 17:05	01/07/25 22:08		
13C5-PFHxA (S)	89	%	50-200		1	01/05/25 17:05	01/07/25 22:08		
13C5-PFPeA (S)	90	%	50-200		1	01/05/25 17:05	01/07/25 22:08		
13C6-PFDA (S)	91	%	50-200		1	01/05/25 17:05	01/07/25 22:08		
13C7-PFUDa (S)	92	%	50-200		1	01/05/25 17:05	01/07/25 22:08		
13C8-PFOA (S)	94	%	50-200		1	01/05/25 17:05	01/07/25 22:08		
13C8-PFOS (S)	98	%	50-200		1	01/05/25 17:05	01/07/25 22:08		
13C9-PFNA (S)	92	%	50-200		1	01/05/25 17:05	01/07/25 22:08		

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QUALITY CONTROL DATA

Project: UCMR5_SE1_Dec2024

Pace Project No.: 35924722

QC Batch:	1063963	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 MET Drinking Water
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35924722001, 35924722003

METHOD BLANK: 5845353 Matrix: Drinking Water

Associated Lab Samples: 35924722001, 35924722003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	ug/L	7.5 U	22.5	7.5	01/09/25 17:56	N2

LABORATORY CONTROL SAMPLE: 5845354

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	ug/L	9	7.5 U	51	50-150	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5845355 5845356

Parameter	Units	35924810001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	ug/L	ND	9	9	7.5 U	7.5 U	44	46	0-200		30	N2

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QUALITY CONTROL DATA

Project: UCMR5_SE1_Dec2024

Pace Project No.: 35924722

QC Batch: 1063196

Analysis Method: EPA 533

QC Batch Method: EPA 533

Analysis Description: 533 PFAS Compounds, UCMR

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35924722001, 35924722003

METHOD BLANK: 5841391

Matrix: Drinking Water

Associated Lab Samples: 35924722001, 35924722003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
11CI-PF3OUdS	ug/L	0.0017 U	0.0050	0.0017	12/15/24 10:10	
4:2 FTS	ug/L	0.0010 U	0.0030	0.0010	12/15/24 10:10	
6:2 FTS	ug/L	0.0017 U	0.0050	0.0017	12/15/24 10:10	
8:2 FTS	ug/L	0.0017 U	0.0050	0.0017	12/15/24 10:10	
9CI-PF3ONS	ug/L	0.0007 U	0.0020	0.0007	12/15/24 10:10	
ADONA	ug/L	0.0010 U	0.0030	0.0010	12/15/24 10:10	
HFPO-DA	ug/L	0.0017 U	0.0050	0.0017	12/15/24 10:10	
NFDHA	ug/L	0.0067 U	0.020	0.0067	12/15/24 10:10	
PFBA	ug/L	0.0017 U	0.0050	0.0017	12/15/24 10:10	
PFBS	ug/L	0.0010 U	0.0030	0.0010	12/15/24 10:10	
PFDA	ug/L	0.0010 U	0.0030	0.0010	12/15/24 10:10	
PFDaA	ug/L	0.0010 U	0.0030	0.0010	12/15/24 10:10	
PFEESA	ug/L	0.0010 U	0.0030	0.0010	12/15/24 10:10	
PFHpA	ug/L	0.0010 U	0.0030	0.0010	12/15/24 10:10	
PFHpS	ug/L	0.0010 U	0.0030	0.0010	12/15/24 10:10	
PFHxA	ug/L	0.0010 U	0.0030	0.0010	12/15/24 10:10	
PFHxS	ug/L	0.0010 U	0.0030	0.0010	12/15/24 10:10	
PFMBA	ug/L	0.0010 U	0.0030	0.0010	12/15/24 10:10	
PFMPA	ug/L	0.0013 U	0.0040	0.0013	12/15/24 10:10	
PFNA	ug/L	0.0013 U	0.0040	0.0013	12/15/24 10:10	
PFOA	ug/L	0.0013 U	0.0040	0.0013	12/15/24 10:10	
PFOS	ug/L	0.0013 U	0.0040	0.0013	12/15/24 10:10	
PFPeA	ug/L	0.0010 U	0.0030	0.0010	12/15/24 10:10	
PFPeS	ug/L	0.0013 U	0.0040	0.0013	12/15/24 10:10	
PFUnA	ug/L	0.0007 U	0.0020	0.0007	12/15/24 10:10	
13C2-PFDaA (S)	%	82	50-200		12/15/24 10:10	
13C24:2FTS (S)	%	110	50-200		12/15/24 10:10	
13C26:2FTS (S)	%	110	50-200		12/15/24 10:10	
13C28:2FTS (S)	%	104	50-200		12/15/24 10:10	
13C3-PFBS (S)	%	98	50-200		12/15/24 10:10	
13C3-PFHxS (S)	%	98	50-200		12/15/24 10:10	
13C3HFPO-DA(S)	%	86	50-200		12/15/24 10:10	
13C4-PFBA (S)	%	92	50-200		12/15/24 10:10	
13C4-PFHpA (S)	%	87	50-200		12/15/24 10:10	
13C5-PFHxA (S)	%	92	50-200		12/15/24 10:10	
13C5-PFPeA (S)	%	92	50-200		12/15/24 10:10	
13C6-PFDA (S)	%	87	50-200		12/15/24 10:10	
13C7-PFUDa (S)	%	86	50-200		12/15/24 10:10	
13C8-PFOA (S)	%	88	50-200		12/15/24 10:10	
13C8-PFOS (S)	%	96	50-200		12/15/24 10:10	

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QUALITY CONTROL DATA

Project: UCMR5_SE1_Dec2024

Pace Project No.: 35924722

METHOD BLANK: 5841391

Matrix: Drinking Water

Associated Lab Samples: 35924722001, 35924722003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
13C9-PFNA (S)	%	91	50-200		12/15/24 10:10	

LABORATORY CONTROL SAMPLE: 5841392

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ug/L	0.0019	0.0018 I	94	50-150	
4:2 FTS	ug/L	0.0019	0.0019 I	102	50-150	
6:2 FTS	ug/L	0.0019	0.0020 I	107	50-150	
8:2 FTS	ug/L	0.0019	0.0022 I	116	50-150	
9CI-PF3ONS	ug/L	0.0019	0.0018 I	95	50-150	
ADONA	ug/L	0.0019	0.0021 I	109	50-150	
HFPO-DA	ug/L	0.002	0.0023 I	115	50-150	
NFDHA	ug/L	0.02	0.020	101	50-150	
PFBA	ug/L	0.002	0.0020 I	101	50-150	
PFBS	ug/L	0.0018	0.0017 I	96	50-150	
PFDA	ug/L	0.002	0.0020 I	100	50-150	
PFDaA	ug/L	0.002	0.0021 I	104	50-150	
PFEESA	ug/L	0.0018	0.0019 I	106	50-150	
PFHpA	ug/L	0.002	0.0021 I	104	50-150	
PFHpS	ug/L	0.0019	0.0021 I	109	50-150	
PFHxA	ug/L	0.002	0.0020 I	101	50-150	
PFHxS	ug/L	0.0018	0.0021 I	116	50-150	
PFMBA	ug/L	0.002	0.0021 I	104	50-150	
PFMPA	ug/L	0.002	0.0019 I	95	50-150	
PFNA	ug/L	0.002	0.0020 I	102	50-150	
PFOA	ug/L	0.002	0.0021 I	106	50-150	
PFOS	ug/L	0.0019	0.0019 I	101	50-150	
PFPeA	ug/L	0.002	0.0022 I	112	50-150	
PFPeS	ug/L	0.0019	0.0021 I	111	50-150	
PFUnA	ug/L	0.002	0.0020 I	99	50-150	
13C2-PFDaA (S)	%			78	50-200	
13C24:2FTS (S)	%			114	50-200	
13C26:2FTS (S)	%			115	50-200	
13C28:2FTS (S)	%			104	50-200	
13C3-PFBS (S)	%			102	50-200	
13C3-PFHxS (S)	%			99	50-200	
13C3HFPO-DA(S)	%			83	50-200	
13C4-PFBA (S)	%			92	50-200	
13C4-PFHpA (S)	%			88	50-200	
13C5-PFHxA (S)	%			94	50-200	
13C5-PFPeA (S)	%			90	50-200	
13C6-PFDA (S)	%			84	50-200	
13C7-PFUDa (S)	%			85	50-200	
13C8-PFOA (S)	%			90	50-200	

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QUALITY CONTROL DATA

Project: UCMR5_SE1_Dec2024

Pace Project No.: 35924722

LABORATORY CONTROL SAMPLE: 5841392

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
13C8-PFOS (S)	%			97	50-200	
13C9-PFNA (S)	%			88	50-200	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5841393 5841394

Parameter	Units	35924540001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
11CI-PF3OUdS	ug/L	0.0017 U	0.0019	0.0019	0.0020 I	0.0019 I	101	97	70-130		30	
4:2 FTS	ug/L	0.0010 U	0.0019	0.0019	0.0020 I	0.0021 I	100	106	70-130		30	
6:2 FTS	ug/L	0.0017 U	0.0019	0.0019	0.0020 I	0.0020 I	98	98	70-130		30	
8:2 FTS	ug/L	0.0017 U	0.0019	0.0019	0.0020 I	0.0019 I	100	100	70-130		30	
9CI-PF3ONS	ug/L	0.0007 U	0.0019	0.0019	0.0019 I	0.0019 I	99	97	70-130		30	
ADONA	ug/L	0.0010 U	0.0019	0.0019	0.0020 I	0.0020 I	103	102	70-130		30	
HFPO-DA	ug/L	0.0017 U	0.002	0.002	0.0022 I	0.0024 I	103	113	70-130		30	
NFDHA	ug/L	0.0068 U	0.02	0.02	0.021	0.021	102	104	70-130	1	30	
PFBA	ug/L	0.0017 U	0.002	0.002	0.0023 I	0.0023 I	96	94	70-130		30	
PFBS	ug/L	0.0010 U	0.0018	0.0018	0.0023 I	0.0022 I	108	106	70-130		30	
PFDA	ug/L	0.0010 U	0.002	0.002	0.0021 I	0.0020 I	101	100	70-130		30	
PFDaA	ug/L	0.0010 U	0.002	0.002	0.0021 I	0.0020 I	101	98	70-130		30	
PFEESA	ug/L	0.0010 U	0.0018	0.0018	0.0020 I	0.0019 I	107	102	70-130		30	
PFHpA	ug/L	0.0010 U	0.002	0.002	0.0020 I	0.0020 I	98	98	70-130		30	
PFHpS	ug/L	0.0010 U	0.0019	0.0019	0.0021 I	0.0020 I	108	105	70-130		30	
PFHxA	ug/L	0.0010 U	0.002	0.002	0.0021 I	0.0020 I	103	98	70-130		30	
PFHxS	ug/L	0.0010 U	0.0018	0.0018	0.0022 I	0.0021 I	115	114	70-130		30	
PFMBA	ug/L	0.0010 U	0.002	0.002	0.0020 I	0.0020 I	99	100	70-130		30	
PFMPA	ug/L	0.0014 U	0.002	0.002	0.0019 I	0.0019 I	93	95	70-130		30	
PFNA	ug/L	0.0014 U	0.002	0.002	0.0022 I	0.0021 I	106	103	70-130		30	
PFOA	ug/L	0.0014 U	0.002	0.002	0.0022 I	0.0022 I	98	98	70-130		30	
PFOS	ug/L	0.0014 U	0.0019	0.0019	0.0019 I	0.0019 I	97	98	70-130		30	
PFPeA	ug/L	0.0010 U	0.002	0.002	0.0024 I	0.0023 I	111	105	70-130		30	
PFPeS	ug/L	0.0014 U	0.0019	0.0019	0.0020 I	0.0019 I	99	96	70-130		30	
PFUnA	ug/L	0.0007 U	0.002	0.002	0.0021	0.0019 I	100	94	70-130		30	
13C2-PFDaA (S)	%						79	77	50-200			
13C24:2FTS (S)	%						129	127	50-200			
13C26:2FTS (S)	%						113	115	50-200			
13C28:2FTS (S)	%						97	100	50-200			
13C3-PFBS (S)	%						90	91	50-200			
13C3-PFHxS (S)	%						96	97	50-200			
13C3HFPO-DA(S)	%						75	77	50-200			
13C4-PFBA (S)	%						92	92	50-200			
13C4-PFHpA (S)	%						85	84	50-200			
13C5-PFHxA (S)	%						84	87	50-200			
13C5-PFPeA (S)	%						82	82	50-200			
13C6-PFDA (S)	%						82	79	50-200			
13C7-PFUdA (S)	%						82	82	50-200			

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QUALITY CONTROL DATA

Project: UCMR5_SE1_Dec2024
Pace Project No.: 35924722

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 58413935841394												
Parameter	Units	35924540001	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max	Qual
		Result	Spike	Spike								
13C8-PFOA (S)	%						88	86	50-200			
13C8-PFOS (S)	%						93	94	50-200			
13C9-PFNA (S)	%						84	84	50-200			

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QUALITY CONTROL DATA

Project: UCMR5_SE1_Dec2024

Pace Project No.: 35924722

QC Batch: 1067264

Analysis Method: EPA 533

QC Batch Method: EPA 533

Analysis Description: 533 PFAS Compounds, UCMR

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35924722002, 35924722004

METHOD BLANK: 5861576

Matrix: Drinking Water

Associated Lab Samples: 35924722002, 35924722004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
11CI-PF3OUdS	ug/L	0.0017 U	0.0050	0.0017	01/07/25 19:03	
4:2 FTS	ug/L	0.0010 U	0.0030	0.0010	01/07/25 19:03	
6:2 FTS	ug/L	0.0017 U	0.0050	0.0017	01/07/25 19:03	
8:2 FTS	ug/L	0.0017 U	0.0050	0.0017	01/07/25 19:03	
9CI-PF3ONS	ug/L	0.0007 U	0.0020	0.0007	01/07/25 19:03	
ADONA	ug/L	0.0010 U	0.0030	0.0010	01/07/25 19:03	
HFPO-DA	ug/L	0.0017 U	0.0050	0.0017	01/07/25 19:03	
NFDHA	ug/L	0.0067 U	0.020	0.0067	01/07/25 19:03	
PFBA	ug/L	0.0017 U	0.0050	0.0017	01/07/25 19:03	
PFBS	ug/L	0.0010 U	0.0030	0.0010	01/07/25 19:03	
PFDA	ug/L	0.0010 U	0.0030	0.0010	01/07/25 19:03	
PFDaA	ug/L	0.0010 U	0.0030	0.0010	01/07/25 19:03	
PFEESA	ug/L	0.0010 U	0.0030	0.0010	01/07/25 19:03	
PFHpA	ug/L	0.0010 U	0.0030	0.0010	01/07/25 19:03	
PFHpS	ug/L	0.0010 U	0.0030	0.0010	01/07/25 19:03	
PFHxA	ug/L	0.0010 U	0.0030	0.0010	01/07/25 19:03	
PFHxS	ug/L	0.0010 U	0.0030	0.0010	01/07/25 19:03	
PFMBA	ug/L	0.0010 U	0.0030	0.0010	01/07/25 19:03	
PFMPA	ug/L	0.0013 U	0.0040	0.0013	01/07/25 19:03	
PFNA	ug/L	0.0013 U	0.0040	0.0013	01/07/25 19:03	
PFOA	ug/L	0.0013 U	0.0040	0.0013	01/07/25 19:03	
PFOS	ug/L	0.0013 U	0.0040	0.0013	01/07/25 19:03	
PFPeA	ug/L	0.0010 U	0.0030	0.0010	01/07/25 19:03	
PFPeS	ug/L	0.0013 U	0.0040	0.0013	01/07/25 19:03	
PFUnA	ug/L	0.0007 U	0.0020	0.0007	01/07/25 19:03	
13C2-PFDaA (S)	%	88	50-200		01/07/25 19:03	
13C24:2FTS (S)	%	107	50-200		01/07/25 19:03	
13C26:2FTS (S)	%	97	50-200		01/07/25 19:03	
13C28:2FTS (S)	%	99	50-200		01/07/25 19:03	
13C3-PFBS (S)	%	103	50-200		01/07/25 19:03	
13C3-PFHxS (S)	%	102	50-200		01/07/25 19:03	
13C3HFPO-DA(S)	%	89	50-200		01/07/25 19:03	
13C4-PFBA (S)	%	91	50-200		01/07/25 19:03	
13C4-PFHpa (S)	%	92	50-200		01/07/25 19:03	
13C5-PFHxA (S)	%	91	50-200		01/07/25 19:03	
13C5-PFPeA (S)	%	90	50-200		01/07/25 19:03	
13C6-PFDA (S)	%	91	50-200		01/07/25 19:03	
13C7-PFUDa (S)	%	88	50-200		01/07/25 19:03	
13C8-PFOA (S)	%	94	50-200		01/07/25 19:03	
13C8-PFOS (S)	%	100	50-200		01/07/25 19:03	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: UCMR5_SE1_Dec2024

Pace Project No.: 35924722

METHOD BLANK: 5861576

Matrix: Drinking Water

Associated Lab Samples: 35924722002, 35924722004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
13C9-PFNA (S)	%	92	50-200		01/07/25 19:03	

LABORATORY CONTROL SAMPLE: 5861577

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ug/L	0.0019	0.0017 I	88	50-150	
4:2 FTS	ug/L	0.0019	0.0019 I	102	50-150	
6:2 FTS	ug/L	0.0019	0.0017 I	90	50-150	
8:2 FTS	ug/L	0.0019	0.0019 I	101	50-150	
9CI-PF3ONS	ug/L	0.0019	0.0017 I	89	50-150	
ADONA	ug/L	0.0019	0.0017 I	88	50-150	
HFPO-DA	ug/L	0.002	0.0021 I	105	50-150	
NFDHA	ug/L	0.02	0.019 I	97	50-150	
PFBA	ug/L	0.002	0.0017 I	86	50-150	
PFBS	ug/L	0.0018	0.0018 I	101	50-150	
PFDA	ug/L	0.002	0.0018 I	91	50-150	
PFDaA	ug/L	0.002	0.0019 I	96	50-150	
PFEESA	ug/L	0.0018	0.0017 I	96	50-150	
PFHpA	ug/L	0.002	0.0019 I	93	50-150	
PFHpS	ug/L	0.0019	0.0018 I	97	50-150	
PFHxA	ug/L	0.002	0.0019 I	96	50-150	
PFHxS	ug/L	0.0018	0.0017 I	96	50-150	
PFMBA	ug/L	0.002	0.0019 I	94	50-150	
PFMPA	ug/L	0.002	0.0018 I	88	50-150	
PFNA	ug/L	0.002	0.0020 I	99	50-150	
PFOA	ug/L	0.002	0.0019 I	93	50-150	
PFOS	ug/L	0.0019	0.0019 I	100	50-150	
PFPeA	ug/L	0.002	0.0020 I	100	50-150	
PFPeS	ug/L	0.0019	0.0019 I	101	50-150	
PFUnA	ug/L	0.002	0.0019 I	96	50-150	
13C2-PFDaA (S)	%			88	50-200	
13C24:2FTS (S)	%			107	50-200	
13C26:2FTS (S)	%			107	50-200	
13C28:2FTS (S)	%			98	50-200	
13C3-PFBS (S)	%			104	50-200	
13C3-PFHxS (S)	%			103	50-200	
13C3HFPO-DA(S)	%			88	50-200	
13C4-PFBA (S)	%			93	50-200	
13C4-PFHpA (S)	%			92	50-200	
13C5-PFHxA (S)	%			90	50-200	
13C5-PFPeA (S)	%			89	50-200	
13C6-PFDA (S)	%			93	50-200	
13C7-PFUdA (S)	%			89	50-200	
13C8-PFOA (S)	%			95	50-200	

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QUALITY CONTROL DATA

Project: UCMR5_SE1_Dec2024

Pace Project No.: 35924722

LABORATORY CONTROL SAMPLE: 5861577

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
13C8-PFOS (S)	%			100	50-200	
13C9-PFNA (S)	%			93	50-200	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5861582 5861583

Parameter	Units	35925988003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
11CI-PF3OUdS	ug/L	0.0018 U	0.02	0.018	0.018	0.017	93	92	70-130	7	30	
4:2 FTS	ug/L	0.0011 U	0.02	0.018	0.019	0.018	95	99	70-130	3	30	
6:2 FTS	ug/L	0.0097	0.02	0.018	0.019	0.018	48	44	70-130	7	30	J(M1)
8:2 FTS	ug/L	0.0018 U	0.02	0.018	0.019	0.019	98	101	70-130	4	30	
9CI-PF3ONS	ug/L	0.0007 U	0.02	0.018	0.019	0.018	94	97	70-130	3	30	
ADONA	ug/L	0.0011 U	0.02	0.018	0.018	0.017	91	90	70-130	7	30	
HFPO-DA	ug/L	0.0018 U	0.021	0.019	0.021	0.021	100	104	70-130	3	30	
NFDHA	ug/L	0.0070 U	0.21	0.19	0.19	0.15	92	76	70-130	25	30	
PFBA	ug/L	0.0033 I	0.021	0.019	0.022	0.021	88	94	70-130	0	30	
PFBS	ug/L	0.0014 I	0.019	0.017	0.019	0.018	93	93	70-130	6	30	
PFDA	ug/L	0.0011 U	0.021	0.019	0.021	0.020	98	100	70-130	4	30	
PFDaA	ug/L	0.0011 U	0.021	0.019	0.020	0.019	98	99	70-130	6	30	
PFEESA	ug/L	0.0011 U	0.019	0.017	0.018	0.017	94	95	70-130	6	30	
PFHpA	ug/L	0.0023 I	0.021	0.019	0.023	0.022	98	99	70-130	5	30	
PFHpS	ug/L	0.0011 U	0.02	0.018	0.019	0.019	96	101	70-130	2	30	
PFHxA	ug/L	0.0030 I	0.021	0.019	0.023	0.022	96	98	70-130	4	30	
PFHxS	ug/L	0.0019 I	0.019	0.017	0.020	0.019	99	100	70-130	5	30	
PFMBA	ug/L	0.0011 U	0.021	0.019	0.021	0.020	101	103	70-130	5	30	
PFMPA	ug/L	0.0014 U	0.021	0.019	0.018	0.017	84	86	70-130	5	30	
PFNA	ug/L	0.0014 U	0.021	0.019	0.022	0.020	100	100	70-130	7	30	
PFOA	ug/L	0.0075	0.021	0.019	0.028	0.026	98	97	70-130	6	30	
PFOS	ug/L	0.0083	0.02	0.018	0.027	0.026	93	94	70-130	4	30	
PFPeA	ug/L	0.0026 I	0.021	0.019	0.023	0.022	98	102	70-130	2	30	
PFPeS	ug/L	0.0014 U	0.02	0.018	0.019	0.018	94	95	70-130	6	30	
PFUnA	ug/L	0.0007 U	0.021	0.019	0.020	0.019	97	100	70-130	4	30	
13C2-PFDaA (S)	%						89	89	50-200			
13C24:2FTS (S)	%						178	180	50-200			
13C26:2FTS (S)	%						128	128	50-200			
13C28:2FTS (S)	%						109	104	50-200			
13C3-PFBS (S)	%						103	102	50-200			
13C3-PFHxS (S)	%						102	102	50-200			
13C3HFPO-DA(S)	%						98	86	50-200			
13C4-PFBA (S)	%						99	99	50-200			
13C4-PFHpA (S)	%						94	95	50-200			
13C5-PFHxA (S)	%						94	94	50-200			
13C5-PFPeA (S)	%						91	88	50-200			
13C6-PFDA (S)	%						90	91	50-200			
13C7-PFUdA (S)	%						88	91	50-200			

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QUALITY CONTROL DATA

Project: UCMR5_SE1_Dec2024

Pace Project No.: 35924722

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5861582 5861583												
Parameter	Units	35925988003 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
13C8-PFOA (S)	%						94	94	50-200			
13C8-PFOS (S)	%						100	98	50-200			
13C9-PFNA (S)	%						93	92	50-200			

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QUALITY CONTROL DATA

Project: UCMR5_SE1_Dec2024

Pace Project No.: 35924722

QC Batch:	1063317	Analysis Method:	EPA 537.1
QC Batch Method:	EPA 537.1	Analysis Description:	537.1 PFOA Compounds, UCMR
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35924722001, 35924722003

METHOD BLANK: 5842162 Matrix: Water

Associated Lab Samples: 35924722001, 35924722003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
NEtFOSAA	ug/L	0.0017 U	0.0060	0.0017	12/16/24 03:10	
NMeFOSAA	ug/L	0.0020 U	0.0060	0.0020	12/16/24 03:10	
PFTeDA	ug/L	0.0027 U	0.0080	0.0027	12/16/24 03:10	
PFTrDA	ug/L	0.0024 U	0.0070	0.0024	12/16/24 03:10	
13C2-PFDA (S)	%	90	70-130		12/16/24 03:10	
13C2-PFHxA (S)	%	90	70-130		12/16/24 03:10	
HFPO-DAS (S)	%	88	70-130		12/16/24 03:10	
NEtFOSAA-d5 (S)	%	92	70-130		12/16/24 03:10	

LABORATORY CONTROL SAMPLE: 5842163

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NEtFOSAA	ug/L	0.005	0.0041 I	82	50-150	
NMeFOSAA	ug/L	0.006	0.0054 I	90	50-150	
PFTeDA	ug/L	0.008	0.0070 I	87	50-150	
PFTrDA	ug/L	0.007	0.0063 I	90	50-150	
13C2-PFDA (S)	%			96	70-130	
13C2-PFHxA (S)	%			92	70-130	
HFPO-DAS (S)	%			89	70-130	
NEtFOSAA-d5 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5842244 5842245

Parameter	Units	35924802001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
NEtFOSAA	ug/L	ND	0.038	0.038	0.030	0.029	80	75	70-130	5	30	
NMeFOSAA	ug/L	ND	0.045	0.045	0.038	0.038	85	83	70-130	1	30	
PFTeDA	ug/L	ND	0.06	0.061	0.056	0.059	92	96	70-130	5	30	
PFTrDA	ug/L	ND	0.053	0.053	0.048	0.049	91	92	70-130	2	30	
13C2-PFDA (S)	%						90	92	70-130			
13C2-PFHxA (S)	%						92	94	70-130			
HFPO-DAS (S)	%						92	92	70-130			
NEtFOSAA-d5 (S)	%						85	91	70-130			

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QUALIFIERS

Project: UCMR5_SE1_Dec2024

Pace Project No.: 35924722

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

U Compound was analyzed for but not detected.

J(M1) Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: UCMR5_SE1_Dec2024

Pace Project No.: 35924722

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35924722001	00009 Canobie Lake Water TP	EPA 200.7	1063963	EPA 200.7	1064090
35924722003	00010 Northland Rd Booster	EPA 200.7	1063963	EPA 200.7	1064090
35924722001	00009 Canobie Lake Water TP	EPA 533	1063196	EPA 533	1063263
35924722002	FRB-00009 Canobie Lake Water T	EPA 533	1067264	EPA 533	1067379
35924722003	00010 Northland Rd Booster	EPA 533	1063196	EPA 533	1063263
35924722004	FRB-00010 Northland Rd Booster	EPA 533	1067264	EPA 533	1067379
35924722001	00009 Canobie Lake Water TP	EPA 537.1	1063317	EPA 537.1	1063408
35924722003	00010 Northland Rd Booster	EPA 537.1	1063317	EPA 537.1	1063408

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Pace®
Pace Analytical Ormond Beach
8 East Tower Circle, Ormond Beach, FL 32174

Company Name: Town of Salem UCMRS
Street Address: 161 N Policy St
Salem, NH 03079

Customer Project #: UCMRS_SE1_Dec2024
Project Name:

Site Collection Info/Facility ID (as applicable):

Time Zone Collected: [] AK [] PT [] MT [] CT [] ET
Data Deliverables:
[] Level II [] Level III [] Level IV
[] EQUIS

[] Other

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab		Composite Start		Collected or Composite End		# Cont.	Res. Chlorine	
		Date	Time	Date	Time	Date	Time		Results	Units
00009Canobie Lake Water TP	DW							9		
FRB-00009Canobie Lake Water TP	DW							4		
00010Northland Rd Booster	DW							6		
FRB-00010Northland Rd Booster	DW							4		

FRB Instructions: Make sure to transfer the provided DI water/PEAS free water into the empty container right at the sampling site (empty container provided looks empty, but it has preservation agent, so DO NOT rinse or pour it out). FRBs should not be filled with sample water. FRB should return with only one filled container/method once completed.

Additional Instructions from Pace®:

UCMR5 is for testing finished drinking water ONLY. Please fill containers up to the bottom thread of the container cap. Prior to shipping, please refrigerate the samples for 4-6 hours immediately after sampling. Ship samples on Monday thru Wednesday only, overnight shipping label included.

Relinquished by/Company: (Signature)

Relinquished by/Company: (Signature)

Relinquished by/Company: (Signature)

Relinquished by/Company: (Signature)

Relinquished by/Company: (Signature)

Relinquished by/Company: (Signature)

Date/Time: 12/12/24 10AM

Date/Time: 12/12/24 10:15

Date/Time:

Date/Time:

Date/Time:

Date/Time:

Received by/Company: (Signature)

Received by/Company: (Signature)

Received by/Company: (Signature)

Received by/Company: (Signature)

Received by/Company: (Signature)

Received by/Company: (Signature)

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Contact/Report To: Maria Poor

Phone #: 603-890-2172

E-Mail: mpoor@safermh.gov

Cc E-Mail:

Invoice To:

Invoice E-Mail: mpoor@safermh.gov

Purchase Order # (if applicable):

Quote #:

County / State origin of sample(s): New Hampshire

Reportable [] Yes [] No

Rush (Pre-approval required):

[] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other

DW PWSID # or WW Permit # as applicable:

NH2051010

Field Filtered (if applicable): [] Yes [] No

Analysis:

Customer Sample ID	Matrix *	Comp / Grab		Composite Start		Collected or Composite End		# Cont.	Res. Chlorine	
		Date	Time	Date	Time	Date	Time		Results	Units
00009Canobie Lake Water TP	DW							9		
FRB-00009Canobie Lake Water TP	DW							4		
00010Northland Rd Booster	DW							6		
FRB-00010Northland Rd Booster	DW							4		

FRB Instructions: Make sure to transfer the provided DI water/PEAS free water into the empty container right at the sampling site (empty container provided looks empty, but it has preservation agent, so DO NOT rinse or pour it out). FRBs should not be filled with sample water. FRB should return with only one filled container/method once completed.

Collected By:

(Printed Name)

Signature:

Relinquished by/Company: (Signature)

Relinquished by/Company: (Signature)

Relinquished by/Company: (Signature)

Relinquished by/Company: (Signature)

Relinquished by/Company: (Signature)

Relinquished by/Company: (Signature)

Date/Time: 12/12/24 10AM

Date/Time: 12/12/24 10:15

Date/Time:

Date/Time:

Date/Time:

Date/Time:

Received by/Company: (Signature)

Received by/Company: (Signature)

Received by/Company: (Signature)

Received by/Company: (Signature)

Received by/Company: (Signature)

Received by/Company: (Signature)

WO#: 35924722



35924722

Specify Container Size **

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) Encore, (8) TerraCore, (9) 90mL, (10) Other

Identify Container Preservative Type***

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Analysis Requested

Lab Use Only	Preservation non-conformance identified for sample	Profil. Mer.		Acct/Num / Client ID:		Table #:		Profile / Template:		Prelog / Bottle Ord. ID:		Sample Comment
533 FRB	200.7 METT ICP, UCMR							20619		EZ 3168323		
533 FRB	533 PFAS Compounds, UCMR											
533 FRB	533 PFAS Compounds, UCMR											
533 FRB	533 PFAS Compounds, UCMR											
533 FRB	533 PFAS Compounds, UCMR											
533 FRB	533 PFAS Compounds, UCMR											
533 FRB	533 PFAS Compounds, UCMR											
533 FRB	533 PFAS Compounds, UCMR											
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Pace Container Order #3168323

mica.dalesandro@pacelabs.com

Addresses	Ship To :	Return To:
Order By :		
Company <u>Town of Salem UCMR5</u>	Company <u>Town of Salem UCMR5</u>	Company <u>Ormond Beach, FL (Pace Analytical</u>
Contact <u>Maria Poor</u>	Contact <u>Maria Poor</u>	Contact <u>[REDACTED]</u>
Email <u>mpoor@salemnh.gov</u>	Email <u>mpoor@salemnh.gov</u>	Email <u>[REDACTED]</u>
Address <u>161 N Policy St</u>	Address <u>161 N Policy St</u>	Address <u>8 East Tower Circle</u>
Address 2 _____	Address 2 _____	Address 2 _____
City <u>Salem</u>	City <u>Salem</u>	City <u>Ormond Beach</u>
State <u>NH</u> Zip <u>03079</u>	State <u>NH</u> Zip <u>03079</u>	State <u>FL</u> Zip <u>32174</u>
Phone <u>603-890-2172</u>	Phone <u>603-890-2172</u>	Phone <u>[REDACTED]</u>

Info			
Project Name <u>UCMR5_SE1_Dec2024</u>	Due Date <u>11/14/2024</u>	Profile <u>20619</u>	Quote _____
Project Manager <u>Kapadia, DJ</u>	Return Date _____	Carrier <u>FedEx Ground</u>	Location <u>NH</u>

Return Shipping Labels Return Label Type <u>OVERNIGHT</u> ☐ No Shipper ☒ With Shipper	Bottle Labels ☐ Blank ☐ Pre-Printed No Sample IDs ☒ Pre-Printed With Sample IDs	Bottles ☐ Boxed Cases ☐ Individually Wrapped ☒ Grouped By Sample ID/Matrix
Trip Blanks ☐ Include Trip Blanks	Misc ☒ Sampling Instructions ☒ Custody Seal ☐ Temp. Blanks ☒ Coolers _____ ☐ Syringes _____ ☐ Extra Bubble Wrap ☐ Short Hold/Rush Stickers ☐ DI Water _____ ☐ USDA Regulated Soils ☐ Dry Weight _____	
COC Options ☐ Number of Blanks _____ ☒ Pre-Printed <u>1</u>		

# of Samp Matrix	Analysis	Qty / Samp	Container	Total	# of QC	Lot #	Notes
1	DW 533 PFAS Compounds, UCMR	4	250 mL plastic with ammonium acetate	4		M421802BB	
1	DW 533 PFAS Compounds, UCMR	3	250 mL plastic with ammonium acetate	3		M421802BB	
2	DW 537.1 FRB	2	250mL Plastic 1w/ Trizma & 1w/DI Water	4		M423304BB	
2	DW 533 FRB	2	250mL Plastic 1w/Amm Acetate & 1w/DI Water	4		M421802BB	
2	DW 200.7 MET ICP, UCMR	1	250mL plastic HNO3	2		091624-2EIZ	
1	DW 537.1 PFAS Compounds, UCMR	2	250mL plastic Trizma	2		M423304BB	
1	DW 537.1 PFAS Compounds, UCMR	4	250mL plastic Trizma	4		M423304BB	

Hazard Shipping Placard In Place : N/A

*Sample receiving hours are typically 8am-5pm, but may differ by location. Please check with your Pace Project Manager.

*Pace Analytical reserves the right to return hazardous, toxic, or radioactive samples to you.

*Pace Analytical reserves the right to charge for unused bottles, as well as cost associated with sample storage/disposal.

*Payment term are net 30 days.

*Please include the proposal number on the chain of custody to ensure proper billing.

Sample Notes :

LAB USE:

Ship Date : 11/06/2024

Prepared By: Ck

Verified By: _____

CLIENT USE (Optional):

Date Rec'd: _____

Received By: _____

WO# : 35924722

PM: DNK

Due Date: 01/21/25

CLIENT: SALEM_UCMR

Project #

Project Manager:

Client:

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ PaceTracking # 7707 1035 5960☐ Other:Custody Seal: ☐ Yes ☒ NoSeal intact: ☐ Yes ☐ NoIce: ☒ Yes ☐ NoPacking Material: ☒ Bubble Wrap☐ Bubble Bags☐ None☐ Other

Chain of Custody Present	☒ Yes ☐ No	Comments
Chain of Custody Completed	☐ Yes ☒ No	
Relinquished & Sampler Signature	☐ Yes ☒ No	
Samples Arrived within Hold Time	☒ Yes ☐ No	
Sufficient Volume	☒ Yes ☐ No	
Correct Containers Used	☒ Yes ☐ No	
Containers Intact	☒ Yes ☐ No	
Sample Labels match COC	☐ Yes ☒ No	
Samples received ≤48 hr from collection?	☒ Yes ☐ No	Missing signature of sampler
If no, were samples kept ≤6°C after 48 hrs of collection?	☐ Yes ☐ No	
Person contacted for verification		

Temperature VerificationInitials: GASDate: 12/13/24Time: 0849IR Gun ID: T-427CF (°C): -0.2

	Observed (°C)	Corrected (°C)	Comments
EPA 533	<u>5.0</u>	<u>4.8</u>	
EPA 537.1	<u>4.6</u>	<u>4.4</u>	

Preservation VerificationpH strip: HCL 5.727.1pH meter: SR-3Free Cl Strip/DPD: 241145/3516638Cl Meter: SR-1

200.7 Lab Preserved: Nitric Acid:

Date/Time:

Initials:

Sample/Container ID	pH				Free Chlorine**		Comments		
	533* (pH 6.0-8.0)	537.1 (pH 6.0-8.0)	200.7 (pH <2)	200.7 Lab Preserved	533	537.1	Date	Time 533	Time 537.1
00009 Canister	<u>6.5</u>	<u>7.3</u>	<u><2</u>		<u>ND</u>	<u>ND</u>	<u>12/12/24</u>	<u>1015</u>	<u>1015</u>
11 3/4	<u>6.6</u>	<u>7.3</u>			<u>ND</u>	<u>ND</u>	<u>"</u>	<u>1015</u>	<u>1015</u>
11 3/4	<u>6.6</u>	<u>7.4</u>			<u>ND</u>	<u>ND</u>	<u>"</u>	<u>1015</u>	<u>1015</u>
11 4/4	<u>6.4</u>	<u>7.4</u>			<u>ND</u>	<u>ND</u>	<u>"</u>	<u>1015</u>	<u>1015</u>
FRB-00009 Can	<u>6.3</u>	<u>7.3</u>			<u>ND</u>	<u>ND</u>	<u>"</u>	<u>1015</u>	<u>1015</u>
00010 North	<u>6.5</u>	<u>7.2</u>	<u><2</u>		<u>ND</u>	<u>ND</u>	<u>"</u>	<u>1000</u>	<u>1020</u>
1 2/2	<u>6.5</u>	<u>7.2</u>			<u>ND</u>	<u>ND</u>	<u>"</u>	<u>1000</u>	<u>1000</u>
1 2/3	<u>6.7</u>	<u>—</u>			<u>ND</u>	<u>—</u>	<u>"</u>	<u>1000</u>	<u>1000</u>

*533 pH may be adjusted at the bench prior to extraction.

** ND = <0.1 mg/L

Labeled by: GASReviewed by: LRBDelivered by: GAS

Preservation Verification Continued

[illegible]

*533 pH may be adjusted at the bench prior to extraction ** ND = <0.1 mg/L

Monthly Distrubion Samples

(Samples done once a month)

Jan-09

Site #	Location	Collection Date	Time Collected	C12 Resid. (mg/L)	pH	Total Coliforms	E. Coli
1	Dunkin Donuts	1/5	11:00 AM	2.5	7.77	A	A
2	Millville Arms	1/20	8:51 AM	0.37	8.32	A	A
3	Old Town Hall	1/20	10:12 AM	1.24	8.82	A	A
4	Sr. Citz Center	1/5	10:39 AM	2.17	8.4	A	A
5	Public Works	1/5	9:00 AM	2.55	8.05	A	A
6	Gound.Fur.Home	1/5	9:18 AM	1.85	7.86	A	A
7	Denny's Rest.	1/20	9:14 AM	2.24	8.29	A	A
8	Kevin Country Store	1/5	10:03 AM	1.71	7.79	A	A
9	Deli Restaurant	1/20	8:35 AM	2.3	8.62	A	A
10	Work N Gear	1/20	10:58 AM	1.73	8.34	A	A
11	Salem P.O	1/20	11:34 AM	1.8	8.46	A	A
12	Salem Library	1/5	9:36 AM	2.21	8.2	A	A
13	SoDexHo	1/5	8:41 AM	1.99	7.7	A	A
14	KFC	1/5	11:20 AM	2.1	8.14	A	A
15	Cemetery Office	1/20	9:30 AM	2.23	8.28	A	A
16	Fire St. Law. Rd.	1/5	10:20 AM	2.03	8	A	A
17	Univex	1/20	11:50 AM	2.46	8.5	A	A
18	Total Effec	1/5	9:48 AM	2.44	7.84	A	A
19	Bickfords Rest.	1/20	11:17 AM	2.48	8.54	A	A
20	Central Fire Main St.	1/20	10:31 AM	1.94	8.02	A	A

* Notes

2	Millville Arms	1/20	8:51 AM	0.37
			rpt. Test	0.38

Other Information

Total Chlorine for 20 site = 40.34

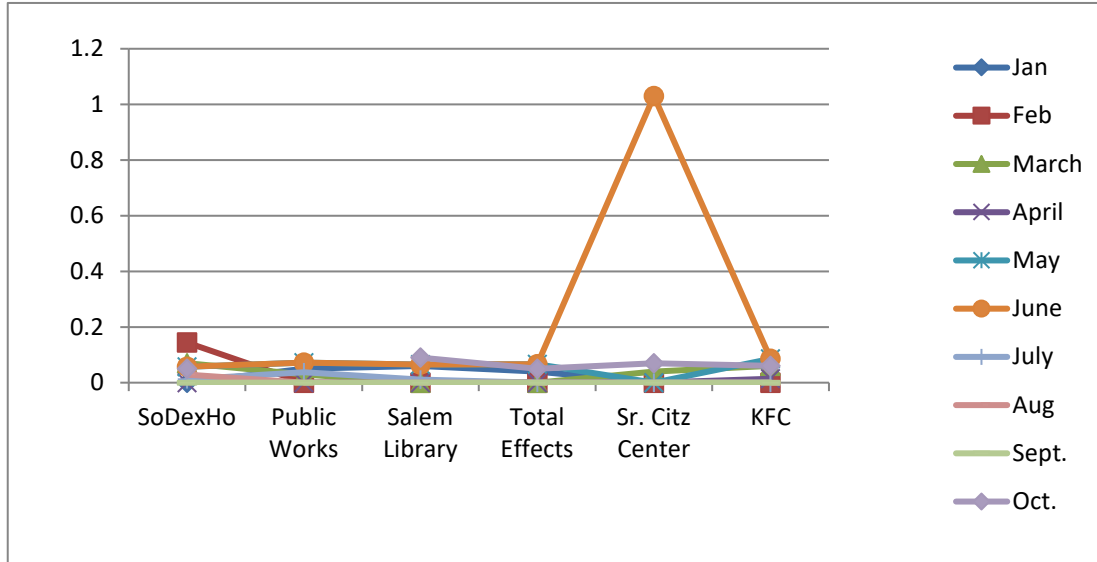
Average for 20 sites = 2.017

Total Chlorine Summary - 2009 -Distribution Samples

#	Location	Jan	Feb	March	April	May	June
1	Dunkin Donuts	2.5	1.74	1.55	2.06	2.29	2.04
2	Millville Arms	0.37	0.64	1.95	1.23	2.28	1.2
3	Old Town Hall	1.24	2.04	2.12	2.08	2	1.5
4	Sr. Citz Center	2.17	2.34	2.12	2.38	1.94	1.69
5	Public Works	2.55	2.03	2.25	2.04	1.62	1.77
6	Gound.Fur.Home	1.85	2.49	1.9	2.44	2.15	1.46
7	Denny's Rest.	2.24	2.27	2.28	1.66	2.09	1.85
8	Kevin Country Store	1.71	1.79	1.56	1.86	1.65	2.06
9	Deli Restaurant	2.3	2.13	1.99	1.68	1.86	1.6
10	Work N Gear	1.73	1.9	1.71	1.55	2.01	1.61
11	Salem P.O	1.8	1.47	1.73	1.96	1.78	1.23
12	Salem Library	2.21	2.25	2.09	2.4	2.01	1.93
13	SoDexHo	1.99	1.5	2.05	2.15	1.79	1.9
14	KFC	2.1	1.98	1.98	1.99	1.48	1.82
15	Cemetery Office	2.23	1.83	1.59	2.22	2.04	1.23
16	Fire St. Law. Rd.	2.03	1.72	2.2	1.84	1.95	1.82
17	Univex	2.46	1.39	2.09	2.39	1.84	1.63
18	Total Effec	2.44	1.99	2.02	1.75	2.02	1.69
19	Bickfords Rest.	2.48	2.02	2.18	1.94	2.02	1.91
20	Central Fire Main St.	1.94	1.49	1.74	1.56	1.98	1.5
	Total	40.34	37.01	39.1	39.18	38.8	33.44
	Average	2.017	1.8505	1.955	1.959	1.94	1.672
	High	2.55	2.49	2.28	2.44	2.29	2.06
	Low	0.37	0.64	1.55	1.23	1.48	1.2

Free Ammonia - 2009 Distribution Samples

#	Location	Jan	Feb	March	April	May	June
13	SoDexHo	0	0.144	0.07	0	0.0575	0.0575
5	Public Works	0.05	0	0.03	0	0.0725	0.0725
12	Salem Library	0.06	0	0	0	0.065	0.065
18	Total Effects	0.04	0	0	0	0.066	0.066
4	Sr. Citz Center	0	0	0.04	0	0	1.03
14	KFC	0	0	0.06	0.014	0.0855	0.0855



Monthly Distrubion Samples

Feb-09

Site #	Location	Collection Date	Time Collected	C12 Resid. (mg/L)	pH	Total Coliforms	E. Coli
1	Dunkin Donuts	2/3	11:19 AM	1.74	8.4	A	A
2	Millville Arms	2/17	10:02AM	0.64	8.72	A	A
3	Old Town Hall	2/17	10:18AM	2.04	8.73	A	A
4	Sr. Citz Center	2/3	10:40 AM	2.34	8.71	A	A
5	Public Works	2/3	8:50 AM	2.03	8.78	A	A
6	Gound.Fur.Home	2/3	9:12 AM	2.49	8.45	A	A
7	Denny's Rest.	2/17	12:33PM	2.27	8.83	A	A
8	Kevin Country Store	2/3	9:50 AM	1.79	8.52	A	A
9	Deli Restaurant	2/17	9:49AM	2.13	8.87	A	A
10	Work N Gear	2/17	12 Noon	1.9	8.72	A	A
11	Salem P.O	2/17	1PM	1.47	8.45	A	A
12	Salem Library	2/3	9:35 AM	2.25	8.49	A	A
13	SoDexHo	2/3	8:29 AM	1.5	7.87	A	A
14	KFC	2/3	11:02 AM	1.98	8.43	A	A
15	Cemetery Office	2/17	10:40AM	1.83	8.45	A	A
16	Fire St. Law. Rd.	2/3	10:28 AM	1.72	8.58	A	A
17	Univex	2/17	1:12PM	1.39	8.94	A	A
18	Total Effects	2/3	10:12 AM	1.99	8.54	A	A
19	Bickfords Rest.	2/17	12:42PM	2.02	8.78	A	A
20	Central Fire Main St.	2/17	11:10AM	1.49	8.55	A	A

* Notes

13	SoDexHo	2/3	8:29 AM	1.5
			rpt. Test	1.5
2	Millville Arms	2/17	10:02am	0.64
			rpt. Test	0.64

Other Information

Total Chlorine for 20 sites

Average for 20 sites

Total Chlorine Summary - 2009 -Distribution Samples

#	Location	July	Aug	Sept.	Oct.	Nov	Dec.
1	Dunkin Donuts	1.62	1.52	1.49	1.57	1.88	1.79
2	Millville Arms	1.79	1.37	1.76	1.71	1.74	1.21
3	Old Town Hall	1.33	1.53	0.82	1.63	1.54	2.08
4	Sr. Citz Center	1.78	1.62	1.65	1.5	1.59	1.6
5	Public Works	1.84	1.81	1.58	1.72	1.56	1.22
6	Gound.Fur.Home	1.75	1.75	1.68	2	1.51	2.35
7	Denny's Rest.	1.43	2.03	1.48	1.64	1.61	1.98
8	Kevin Country Store	1.56	1.87	1.77	1.55	1.31	1.55
9	Deli Restaurant	1.66	1.75	1.85	1.85	1.39	2.18
10	Work N Gear	1.33	1.18	1.19	1.71	1.45	1.27
11	Salem P.O	1.19	1.55	1.41	1.38	1.19	2.26
12	Salem Library	1.3	1.64	1.55	1.93	1.68	1.9
13	SoDexHo	1.6	1.67	2	2.15	1.56	1.68
14	KFC	1.25	1.8	1.66	1.46	1.26	1.43
15	Cemetery Office	1.62	1.44	1.44	1.49	1.12	1.66
16	Fire St. Law. Rd.	1.55	1.66	1.62	1.52	1.57	1.44
17	Univex	1.5	1.63	1.78	1.57	1.99	2.11
18	Total Effec	1.68	1.47	1.98	1.64	1.09	1.43
19	Bickfords Rest.	1.52	1.34	1.69	1.68	1.7	1.85
20	Central Fire Main St.	1.35	1.35	1.91	1.43	1.25	2.17
	Total	30.65	31.98	32.31	33.13	29.99	35.16
	Average	1.5325	1.599	1.6155	1.6565	1.4995	1.758
	High	1.84	2.03	2	2.15	1.99	2.35
	Low	1.25	1.18	0.82	1.38	1.09	1.21

Free Ammonia - 2009 Distribution Samples

July	Aug	Sept.	Oct.	Nov	Dec.
0.0125	0.029	0	0.05		
0.0375	0.0135	0			
0.0115	0.0535	0	0.09		
0	0.0605	0	0.05		
0	0.11	0	0.07		
0	0.0455	0	0.06		

Monthly Distrubion Samples

Mar-09

Site #	Location	Collection Date	Time Collected	C12 Resid. (mg/L)	pH	Total Coliforms	E. Coli
1	Dunkin Donuts	3/3	11:19 AM	1.55	8.62	A	A
2	Millville Arms	3/16	9:41 AM	1.95	8.98	A	A
3	Old Town Hall	3/16	12:35 PM	2.12	8.87	A	A
4	Sr. Citz Center	3/3	10:47 AM	2.12	9.42	A	A
5	Public Works	3/3	9:17 AM	2.25	8.96	A	A
6	Gound.Fur.Home	3/3	9:31 AM	1.9	8.69	A	A
7	Denny's Rest.	3/16	10:10 AM	2.28	9.19	A	A
8	Kevin Country Store	3/3	10:15 AM	1.56	8.79	A	A
9	Deli Restaurant	3/16	9:14 AM	1.99	8.15	A	A
10	Work N Gear	3/16	10:39 AM	1.71	8.95	A	A
11	Salem P.O	3/16	11:05 AM	1.73	8.78	A	A
12	Salem Library	3/3	9:49 AM	2.09	8.7	A	A
13	SoDexHo	3/3	8:54 AM	2.05	8.38	A	A
14	KFC	3/3	11:02 AM	1.98	8.72	A	A
15	Cemetery Office	3/16	12:20 AM	1.59	8.78	A	A
16	Fire St. Law. Rd.	3/3	10:37 AM	2.2	8.76	A	A
17	Univex	3/16	11:33 AM	2.09	8.93	A	A
18	Total Effects	3/3	10:00 AM	2.02	8.79	A	A
19	Bickfords Rest.	3/16	10:55 AM	2.18	9.07	A	A
20	Central Fire Main St.	3/16	11:18 AM	1.74	8.79	A	A

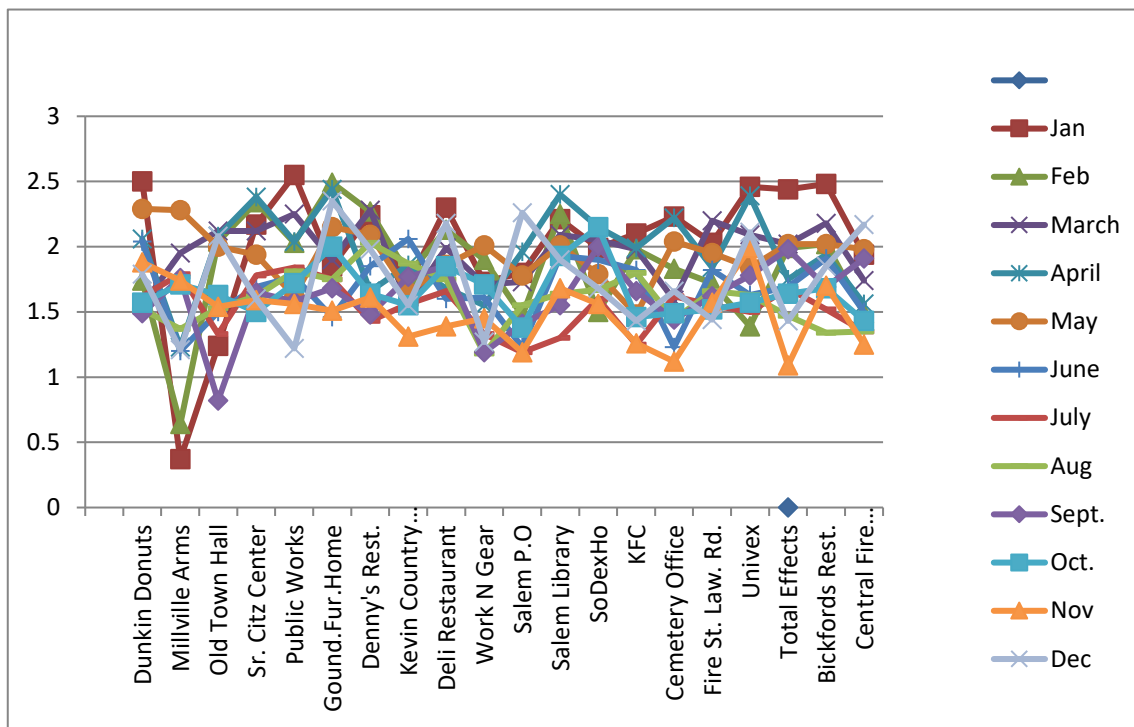
*Notes

4	Sr. Citz Center	3/3	10:47 AM	9.42
			Rpt. Test	9.32

Total Chlorine Summary - 2009 -Distribution Samples

Graft

Location	Jan	Feb	March	April	May	June	July
Dunkin Donuts	2.5	1.74	1.55	2.06	2.29	2.04	1.62
Millville Arms	0.37	0.64	1.95	1.23	2.28	1.2	1.79
Old Town Hall	1.24	2.04	2.12	2.08	2	1.5	1.33
Sr. Citz Center	2.17	2.34	2.12	2.38	1.94	1.69	1.78
Public Works	2.55	2.03	2.25	2.04	1.62	1.77	1.84
Gound.Fur.Home	1.85	2.49	1.9	2.44	2.15	1.46	1.75
Denny's Rest.	2.24	2.27	2.28	1.66	2.09	1.85	1.43
Kevin Country Store	1.71	1.79	1.56	1.86	1.65	2.06	1.56
Deli Restaurant	2.3	2.13	1.99	1.68	1.86	1.6	1.66
Work N Gear	1.73	1.9	1.71	1.55	2.01	1.61	1.33
Salem P.O	1.8	1.47	1.73	1.96	1.78	1.23	1.19
Salem Library	2.21	2.25	2.09	2.4	2.01	1.93	1.3
SoDexHo	1.99	1.5	2.05	2.15	1.79	1.9	1.6
KFC	2.1	1.98	1.98	1.99	1.48	1.82	1.25
Cemetery Office	2.23	1.83	1.59	2.22	2.04	1.23	1.62
Fire St. Law. Rd.	2.03	1.72	2.2	1.84	1.95	1.82	1.55
Univex	2.46	1.39	2.09	2.39	1.84	1.63	1.5
Total Effect	2.44	1.99	2.02	1.75	2.02	1.69	1.68
Bickfords Rest.	2.48	2.02	2.18	1.94	2.02	1.91	1.52
Central Fire Main St.	1.94	1.49	1.74	1.56	1.98	1.5	1.35



Apr-09

Site #	Location	Collection Date	Time Collected	C12 Resid. (mg/L)	pH	Total Coliforms	E. Coli
1	Dunkin Donuts	4/6	11:20 AM	2.06	8.72	A	A
2	Millville Arms	4/20	10:00 AM	1.23	9.09	A	A
3	Old Town Hall	4/20	9:40 AM	2.08	8.95	A	A
4	Sr. Citz Center	4/6	10:35 AM	2.38	9.33	A	A
5	Public Works	4/6	9:26 AM	2.04	9.31	A	A
6	Gound.Fur.Home	4/6	2:15 PM	2.44	9.12	A	A
7	Denny's Rest.	4/20	10:32 AM	1.66	9.23	A	A
8	Kevin Country Store	4/6	10:15 AM	1.86	8.98	A	A
9	Deli Restaurant	4/20	9:00 AM	1.68	9.2	A	A
10	Work N Gear	4/20	10:48 AM	1.55	9.29	A	A
11	Salem P.O	4/20	11:22 am	1.96	9.14	A	A
12	Salem Library	4/6	9:44 AM	2.4	9.17	A	A
13	SoDexHo	4/6	9:06 AM	2.15	9.04	A	A
14	KFC	4/6	10:50 AM	1.99	9	A	A
15	Cemetery Office	4/20	9:24 AM	2.22	9.24	A	A
16	Fire St. Law. Rd.	4/7	9:47 AM	1.84	9.17	A	A
17	Univex	4/21	11:15 AM	2.39	9.18	A	A
18	Total Effects	4/7	10:03 AM	1.75	9.01	A	A
19	Bickfords Rest.	4/20	11:07 AM	1.94	9.35	A	A
20	Central Fire Main St.	4/20	10:12 AM	1.56	9	A	A

* Notes

2	Millville Arms	4/20	10:00 AM	1.23
			rpt. Test	1.23

Aug	Sept.	Oct.	Nov	Dec
1.52	1.49	1.57	1.88	1.79
1.37	1.76	1.71	1.74	1.21
1.53	0.82	1.63	1.54	2.08
1.62	1.65	1.5	1.59	1.6
1.81	1.58	1.72	1.56	1.22
1.75	1.68	2	1.51	2.35
2.03	1.48	1.64	1.61	1.98
1.87	1.77	1.55	1.31	1.55
1.75	1.85	1.85	1.39	2.18
1.18	1.19	1.71	1.45	1.27
1.55	1.41	1.38	1.19	2.26
1.64	1.55	1.93	1.68	1.9
1.67	2	2.15	1.56	1.68
1.8	1.66	1.46	1.26	1.43
1.44	1.44	1.49	1.12	1.66
1.66	1.62	1.52	1.57	1.44
1.63	1.78	1.57	1.99	2.11
1.47	1.98	1.64	1.09	1.43
1.34	1.69	1.68	1.7	1.85
1.35	1.91	1.43	1.25	2.17

May-09

Site #	Location	Collection	Time	C12	pH	Total	E. Coli
		Date	Collected	Resid. (mg/L)		Coliforms	
1	Dunkin Donuts	5/4	11:23 AM	2.29	9.28	A	A
2	Millville Arms	5/27	11:16 AM	2.28	9.21	A	A
3	Old Town Hall	5/27	11:59 AM	2	9.2	A	A
4	Sr. Citz Center	5/4	10:55 AM	1.94	9.45	A	A
5	Public Works	5/4	9:30 AM	1.62	9.52	A	A
6	Gound.Fur.Home	5/4	1:20 PM	2.15	9.05	A	A
7	Denny's Rest.	5/27	12:47 PM	2.09	9.18	A	A
8	Kevin Country Store	5/4	10:30 AM	1.65	9.35	A	A
9	Deli Restaurant	5/27	10:32 AM	1.86	9.12	A	A
10	Work N Gear	5/27	12:31 PM	2.01	9.36	A	A
11	Salem P.O	5/27	1:26 PM	1.78	9.17	A	A
12	Salem Library	5/4	10:06 AM	2.01	9.36	A	A
13	SoDexHo	5/4	9:21 AM	1.79	9.06	A	A
14	KFC	5/4	11:10 AM	1.48	9.38	A	A
15	Cemetery Office	5/27	11:40 AM	2.04	9.26	A	A
16	Fire St. Law. Rd.	5/4	1:41 PM	1.95	9.32	A	A
17	Univex	5/27	1:41 PM	1.84	9.25	A	A
18	Total Effects	5/4	10:15 AM	2.02	9.41	A	A
19	Bickfords Rest.	5/27	1:04 PM	2.02	9.17	A	A
20	Central Fire Main St.	5/27	10:56 AM	1.98	9.15	A	A

Total Chlorine Summary - 2009 -Distribution Samples

Running Average

Average per month

Jan	2.017
Feb	1.8505
March	1.955
April	1.959
May	1.94
June	1.672
July	1.5325
Aug	1.599
Sept.	1.6155
Oct.	1.6565
Nov	1.4995
Dec.	1.758

4th quarter average

Yearly Average 1.754542

Total Chlorine Summary - 2009 -Distribution Samples

Running Average

Average per month

Jan	2.017
Feb	1.8505
March	1.955
April	1.959
May	1.94
June	1.672
July	1.5325
Aug	1.599
Sept.	1.6155
Oct.	2.55
Nov	2.64
Dec.	1.91

3rd quarter average

Yearly
Average 1.936708

Jun-09

Site #	Location	Collection	Time	C12	pH	Total	E. Coli
		Date	Collected	Resid. (mg/L)		Coliforms	
1	Dunkin Donuts	6/2	11:42 AM	2.04	9.02	A	A
2	Millville Arms	6/15	9:45 AM	1.2	9.21	A	A
3	Old Town Hall	6/15	9:34 AM	1.5	9.03	A	A
4	Sr. Citz Center	6/2	11:20 AM	1.69	9.3	A	A
5	Public Works	6/2	10:06 AM	1.77	9.35	A	A
6	Gound.Fur.Home	6/2	9:58 AM	1.46	9.08	A	A
7	Denny's Rest.	6/15	10:17 AM	1.85	9.1	A	A
8	Kevin Country Store	6/2	10:44 AM	2.06	8.9	A	A
9	Deli Restaurant	6/15	9:00 AM	1.6	9.06	A	A
10	Work N Gear	6/15	10:32 AM	1.61	9.15	A	A
11	Salem P.O	6/15	11:00 AM	1.23	9	A	A
12	Salem Library	6/2	10:12 AM	1.93	9.1	A	A
13	SoDexHo	6/2	9:41 AM	1.9	8.98	A	A
14	KFC	6/2	11:25 AM	1.82	9.07	A	A
15	Cemetery Office	6/15	9:21 AM	1.23	8.6	A	A
16	Fire St. Law. Rd.	6/2	11:00 AM	1.82	9.25	A	A
17	Univex	6/15	11:12 AM	1.63	9.18	A	A
18	Total Effects	6/2	10:30 AM	1.69	9	A	A
19	Bickfords Rest.	6/15	10:48 AM	1.91	9.08	A	A
20	Central Fire Main St.	6/15	9:57 AM	1.5	8.97	A	A

Jul-09

Site #	Location	Collection	Time	C12	pH	Total	E. Coli
		Date	Collected	Resid. (mg/L)		Coliforms	
1	Dunkin Donuts	7/6	10:49 AM	1.62	8.78	A	A
2	Millville Arms	7/20	9:57 AM	1.79	9.58	A	A
3	Old Town Hall	7/20	9:32 AM	1.33	9.67	A	A
4	Sr. Citz Center	7/6	10:30 AM	1.78	8.83	A	A
5	Public Works	7/6	9:26 AM	1.84	9.11	A	A
6	Gound.Fur.Home	7/6	1:10 PM	1.75	8.98	A	A
7	Denny's Rest.	7/20	10:57 AM	1.43	9.46	A	A
8	Kevin Country Store	7/6	10:07 AM	1.56	8.97	A	A
9	Deli Restaurant	7/20	8:54 AM	1.66	9.78	A	A
10	Work N Gear	7/20	11:10 AM	1.33	9.5	A	A
11	Salem P.O	7/20	11:30 AM	1.19	9.39	A	A
12	Salem Library	7/6	9:44 AM	1.3	8.83	A	A
13	SoDexHo	7/6	8:51 AM	1.6	8.32	A	A
14	KFC	7/6	11:10 AM	1.25	9.07	A	A
15	Cemetery Office	7/20	9:15 AM	1.62	9.81	A	A
16	Fire St. Law. Rd.	7/6	1:25 PM	1.55	8.87	A	A
17	Univex	7/20	11:40 AM	1.5	9.47	A	A
18	Total Effects	7/6	9:56 AM	1.68	8.85	A	A
19	Bickfords Rest.	7/20	10:46 AM	1.52	9.54	A	A
20	Central Fire Main St.	7/20	10:05 AM	1.35	9.41	A	A

2009 pH

Site #	Location	Jan	Feb	March	April	May	June
1	Dunkin Donuts	7.77	8.4	8.62	8.72	9.28	9.02
2	Millville Arms	8.32	8.72	8.98	9.09	9.21	9.21
3	Old Town Hall	8.82	8.73	8.87	8.95	9.2	9.03
4	Sr. Citz Center	8.4	8.71	9.42	9.33	9.45	9.3
5	Public Works	8.05	8.78	8.96	9.31	9.52	9.35
6	Gound.Fur.Home	7.86	8.45	8.69	9.12	9.05	9.08
7	Denny's Rest.	8.29	8.83	9.19	9.23	9.18	9.1
8	Kevin Country Store	7.79	8.52	8.79	8.98	9.35	8.9
9	Deli Restaurant	8.62	8.87	8.15	9.2	9.12	9.06
10	Work N Gear	8.34	8.72	8.95	9.29	9.36	9.15
11	Salem P.O	8.46	8.45	8.78	9.14	9.17	9
12	Salem Library	8.2	8.49	8.7	9.17	9.36	9.1
13	SoDexHo	7.7	7.87	8.38	9.04	9.06	8.98
14	KFC	8.14	8.43	8.72	9	9.38	9.07
15	Cemetery Office	8.28	8.45	8.78	9.24	9.26	8.6
16	Fire St. Law. Rd.	8	8.58	8.76	9.17	9.32	9.25
17	Univex	8.5	8.94	8.93	9.18	9.25	9.18
18	Total Effects	7.84	8.54	8.79	9.01	9.41	9
19	Bickfords Rest.	8.54	8.78	9.07	9.35	9.17	9.08
20	Central Fire Main St.	8.02	8.55	8.79	9	9.15	8.97
	Average	8.197	8.5905	8.816	9.126	9.2625	9.0715
	High	8.82	8.94	9.42	9.35	9.52	9.35
	Low	7.7	7.87	8.15	8.72	9.05	8.6

Aug. 2009

Site #	Location	Collection Date	Time Collected	C12 Resid. (mg/L)	pH	Total Coliforms	E. Coli
1	Dunkin Donuts	8/4	10:47AM	1.52	9.47	A	A
2	Millville Arms	8/17	8:54 AM	1.37	9.66	A	A
3	Old Town Hall	8/17	9:20 AM	1.53	9.41	A	A
4	Sr. Citz Center	8/4	10:10 AM	1.62	9.63	A	A
5	Public Works	8/4	8:44 AM	1.81	9.74	A	A
6	Gound.Fur.Home	8/4	9:04 AM	1.75	9.98	A	A
7	Denny's Rest.	8/17	9:55 AM	2.03	9.4	A	A
8	Kevin Country Store	8/4	9:48 AM	1.87	9.55	A	A
9	Deli Restaurant	8/17	8:34 AM	1.75	9.93	A	A
10	Work N Gear	8/17	10:08 AM	1.18	9.43	A	A
11	Salem P.O	8/17	10:20 AM	1.55	9.29	A	A
12	Salem Library	8/4	9:22 AM	1.64	9.98	A	A
13	SoDexHo	8/4	8:34 AM	1.67	9.49	A	A
14	KFC	8/4	11:04 AM	1.8	9.52	A	A
15	Cemetery Office	8/17	9:05 AM	1.44	9.47	A	A
16	Fire St. Law. Rd.	8/4	10:05 AM	1.66	9.54	A	A
17	Univex	8/17	10:45 AM	1.63	9.3	A	A
18	Total Effects	8/4	9:34 AM	1.47	9.49	A	A
19	Bickfords Rest.	8/17	10:05 AM	1.34	9.31	A	A
20	Central Fire Main St.	8/17	9:40 AM	1.35	9.23	A	A

2009 pH

Site #	Location	July	Aug	Sept	Oct	Nov	Dec
1	Dunkin Donuts	8.78	9.47	9.55	9.48	8.51	9.02
2	Millville Arms	9.58	9.66	9.08	9.25	9.2	8.38
3	Old Town Hall	9.67	9.41	9.65	9.54	9.1	8.4
4	Sr. Citz Center	8.83	9.63	9.6	9.54	9.04	9
5	Public Works	9.11	9.74	9.79	9.96	9.3	9.3
6	Gound.Fur.Home	8.98	9.98	10.02	9.52	9.2	8.89
7	Denny's Rest.	9.46	9.4	9.63	9.16	8.84	7.98
8	Kevin Country Store	8.97	9.55	9.55	9.52	8.92	8.86
9	Deli Restaurant	9.78	9.93	10.05	9.81	9.38	8.77
10	Work N Gear	9.5	9.43	9.58	9.37	8.84	8.97
11	Salem P.O	9.39	9.29	9.51	9.37	8.45	7.95
12	Salem Library	8.83	9.98	9.6	9.49	8.89	9.05
13	SoDexHo	8.32	9.49	9.81	9.64	8.65	9.3
14	KFC	9.07	9.52	9.8	9.48	8.68	8.95
15	Cemetery Office	9.81	9.47	9.83	9.67	8.93	8.57
16	Fire St. Law. Rd.	8.87	9.54	9.52	9.46	9.02	8.98
17	Univex	9.47	9.3	9.56	9.11	8.86	7.97
18	Total Effects	8.85	9.49	9.46	9.37	9.41	9.11
19	Bickfords Rest.	9.54	9.31	9.6	9.67	8.71	8.01
20	Central Fire Main St.	9.41	9.23	9.56	9.32	8.44	7.99
Average		9.211	9.541	9.6375	9.4865	8.9185	8.6725
High		9.81	9.98	10.05	9.96	9.41	9.3
Low		8.32	9.23	9.08	9.11	8.44	7.95

Sept. 2009

Site #	Location	Collection Date	Time Collected	C12 Resid. (mg/L)	pH	Total Coliforms	E. Coli
1	Dunkin Donuts	9/1	10:20 AM	1.49	9.55	A	A
2	Millville Arms	9/14	10:00 AM	1.76	9.08	A	A
3	Old Town Hall	9/14	9:32 AM	0.82	9.65	A	A
4	Sr. Citz Center	9/1	11:40 AM	1.65	9.6	A	A
5	Public Works	9/1	9:41 AM	1.58	9.79	A	A
6	Gound.Fur.Home	9/1	9:06 AM	1.68	10.02	A	A
7	Denny's Rest.	9/14	10:44 AM	1.48	9.63	A	A
8	Kevin Country Store	9/1	10:40 AM	1.77	9.55	A	A
9	Deli Restaurant	9/14	9:00 AM	1.85	10.05	A	A
10	Work N Gear	9/14	11:00 AM	1.19	9.58	A	A
11	Salem P.O	9/14	11:29 AM	1.41	9.51	A	A
12	Salem Library	9/1	10:02 AM	1.55	9.6	A	A
13	SoDexHo	9/1	9:22 AM	2	9.81	A	A
14	KFC	9/1	11:19 AM	1.66	9.8	A	A
15	Cemetery Office	9/14	9:17 AM	1.44	9.83	A	A
16	Fire St. Law. Rd.	9/1	10:56 AM	1.62	9.52	A	A
17	Univex	9/14	11:40 AM	1.78	9.56	A	A
18	Total Effects	9/1	10:28 AM	1.98	9.46	A	A
19	Bickfords Rest.	9/14	11:15 AM	1.69	9.6	A	A
20	Central Fire Main St.	9/14	10:27 AM	1.91	9.56	A	A

Oct. 2009

Site #	Location	Collection	Time	C12	pH	Total	E. Coli
		Date	Collected	Resid. (mg/L)		Coliforms	
1	Dunkin Donuts	10/5	9:32 AM	1.57	9.48	A	A
2	Millville Arms	10/19	9:41 AM	1.71	9.25	A	A
3	Old Town Hall	9/19	9:27 AM	1.63	9.54	A	A
4	Sr. Citz Center	10/5	10:43 AM	1.5	9.54	A	A
5	Public Works	10/19	8:51 AM	1.72	9.96	A	A
6	Gound.Fur.Home	10/5	9:18 AM	2	9.52	A	A
7	Denny's Rest.	10/19	10:08 AM	1.64	9.16	A	A
8	Kevin Country Store	10/5	10:00 AM	1.55	9.52	A	A
9	Deli Restaurant	10/5	8:50 AM	1.85	9.81	A	A
10	Work N Gear	10/19	10:26 AM	1.71	9.37	A	A
11	Salem P.O	10/19	10:50 AM	1.38	9.37	A	A
12	Salem Library	10/5	9:47 AM	1.93	9.49	A	A
13	SoDexHo	10/5	9:00 AM	2.15	9.64	A	A
14	KFC	10/5	10:55 AM	1.46	9.48	A	A
15	Cemetery Office	10/19	9:14 AM	1.49	9.67	A	A
16	Fire St. Law. Rd.	10/5	10:36 AM	1.52	9.46	A	A
17	Univex	10/19	11:13 AM	1.57	9.11	A	A
18	Total Effects	10/5	10:16 AM	1.64	9.37	A	A
19	Bickfords Rest.	10/19	10:45 AM	1.68	9.67	A	A
20	Central Fire Main St.	10/19	9:52 AM	1.43	9.32	A	A

Nov. 2009

Site #	Location	Collection Date	Time Collected	C12 Resid. (mg/L)	pH	Total Coliforms	E. Coli
1	Dunkin Donuts	11/2	10:51 AM	1.88	8.51	A	A
2	Millville Arms	11/16	9:55 AM	1.74	9.2	A	A
3	Old Town Hall	11/16	9:40 AM	1.54	9.1	A	A
4	Sr. Citz Center	11/2	10:35 AM	1.59	9.04	A	A
5	Public Works	11/2	9:09 AM	1.56	9.3	A	A
6	Gound.Fur.Home	11/2	9:29 AM	1.51	9.2	A	A
7	Denny's Rest.	11/16	10:23 AM	1.61	8.84	A	A
8	Kevin Country Store	11/2	10:08 AM	1.31	8.92	A	A
9	Deli Restaurant	11/16	9:01 AM	1.39	9.38	A	A
10	Work N Gear	11/16	10:40 AM	1.45	8.84	A	A
11	Salem P.O	11/16	11:01 AM	1.19	8.45	A	A
12	Salem Library	11/2	9:51 AM	1.68	8.89	A	A
13	SoDexHo	11/2	8:54 AM	1.56	8.65	A	A
14	KFC	11/2	11:12 AM	1.26	8.68	A	A
15	Cemetery Office	11/16	9:20 AM	1.12	8.93	A	A
16	Fire St. Law. Rd.	11/2	3:03 PM	1.57	9.02	A	A
17	Univex	11/16	11:20 AM	1.99	8.86	A	A
18	Total Effects	11/3	10:03 AM	1.09	9.41	A	A
19	Bickfords Rest.	11/16	10:53 AM	1.7	8.71	A	A
20	Central Fire Main St.	11/16	10:03 AM	1.25	8.44	A	A

Dec. 2009

Site #	Location	Collection Date	Time Collected	C12 Resid. (mg/L)	pH	Total Coliforms	E. Coli
1	Dunkin Donuts	12/1	11:33 AM	1.79	9.02	A	A
2	Millville Arms	12/15	9:34 AM	1.21	8.38	A	A
3	Old Town Hall	12/15	9:20 AM	2.08	8.4	A	A
4	Sr. Citz Center	12/1	10:52 AM	1.6	9	A	A
5	Public Works	12/1	9:20 AM	1.22	9.3	A	A
6	Gound.Fur.Home	12/15	8:56 AM	2.35	8.89	A	A
7	Denny's Rest.	12/15	10:01 AM	1.98	7.98	A	A
8	Kevin Country Store	12/1	10:10 AM	1.55	8.86	A	A
9	Deli Restaurant	12/15	8:37 AM	2.18	8.77	A	A
10	Work N Gear	12/1	11:14 AM	1.27	8.97	A	A
11	Salem P.O	12/15	10:25 AM	2.26	7.95	A	A
12	Salem Library	12/1	9:40 AM	1.9	9.05	A	A
13	SoDexHo	12/1	9:03 AM	1.68	9.3	A	A
14	KFC	12/1	11:03 AM	1.43	8.95	A	A
15	Cemetery Office	12/15	9:08 AM	1.66	8.57	A	A
16	Fire St. Law. Rd.	12/1	10:40 AM	1.44	8.98	A	A
17	Univex	12/15	10:40 AM	2.11	7.97	A	A
18	Total Effects	12/1	9:55 AM	1.43	9.11	A	A
19	Bickfords Rest.	12/15	10:14 AM	1.85	8.01	A	A
20	Central Fire Main St.	12/15	9:42 AM	2.17	7.99	A	A

Monthly Distrubion Samples

(Samples done once a month)

Jan-10

Site #	Location	Collection Date	Time Collected	C12 Resid. (mg/L)	pH	Total Coliforms	E. Coli
1	Dunkin Donuts	1/4	11:13 AM	2.5	8.41	A	A
2	Millville Arms	1/19	9:50 AM	1.18	8.01	A	A
3	Old Town Hall	1/19	9:28 AM	2.24	8.54	A	A
4	Sr. Citz Center	1/4	10:32 AM	2.01	8.74	A	A
5	Public Works	1/4	9:32 AM	1.28	8.92	A	A
6	Gound.Fur.Home	1/4	9:10 AM	1.98	8.51	A	A
7	Denny's Rest.	1/19	10:22 AM	1.69	7.89	A	A
8	Kevin Country Store	1/4	10:05 AM	1.74	8.73	A	A
9	Deli Restaurant	1/19	8:23 AM	2.65	9.04	A	A
10	Work N Gear	1/19	10:38 AM	2.86	7.98	A	A
11	Salem P.O	1/19	8:46 AM	0.76V	7.81	A	A
12	Salem Library	1/4	9:53 AM	2	8.6	A	A
13	SoDexHo	1/4	8:50 AM	1.48	8.51	A	A
14	KFC	1/4	10:57 AM	1.72	8.67	A	A
15	Cemetery Office	1/19	9:03 AM	1.36	8.21	A	A
16	Fire St. Law. Rd.	1/4	10:22 AM	1.59	8.65	A	A
17	Univex	1/19	11:05 AM	2.35	7.9	A	A
18	Total Effec	1/4	11:25 AM	2.02	8.53	A	A
19	Bickfords Rest.	1/19	10:52 AM	2.41	7.96	A	A
20	Central Fire Main St.	1/19	10:10 AM	1.73	7.89	A	A

* Notes

Total Chlorine Summary -		2010 Distrubiton Samples					
#	Location	Jan	Feb	March	April	May	June
1	Dunkin Donuts	2.5	2.21	2.06	2.36	1.9	1.88
2	Millville Arms	1.18	2.08	1.86	1.64	1.69	1.56
3	Old Town Hall	2.24	2.19	1.46	1.18	1.37	1.65
4	Sr. Citz Center	2.01	1.62	2.09	2.01	1.72	1.86
5	Public Works	1.28	1.47	1.78	1.85	1.2	1.5
6	Gound.Fur.Home	1.98	1.44	2.68	2.03	1.65	1.88
7	Denny's Rest.	1.69	1.83	1.69	1.83	1.66	1.29
8	Kevin Country Store	1.74	1.82	1.53	1.89	1.76	1.94
9	Deli Restaurant	2.65	2.77	2.11	1.45	1.79	2.08
10	Work N Gear	2.86	1.27	1.59	1.99	1.28	1.31
11	Salem P.O	0.76	1.44	1.53	1.77	1.25	1.48
12	Salem Library	2	1.8	2.27	1.72	1.63	1.88
13	SoDexHo	1.48	1.42	1.58	1.66	1.44	1.87
14	KFC	1.72	1.65	1.69	1.77	1.61	1.84
15	Cemetery Office	1.36	1.7	1.5	1.88	1.28	1.43
16	Fire St. Law. Rd.	1.59	1.94	1.73	1.49	1.42	1.47
17	Univex	2.35	2.2	1.8	1.45	1.33	1.71
18	Total Effec	2.02	2.06	2.17	2.05	1.31	1.18
19	Bickfords Rest.	2.41	2.07	1.93	2.43	1.88	1.52
20	Central Fire Main St.	1.73	1.71	1.47	1.52	1.11	1.13
Total		37.55	36.69	36.52	35.97	30.28	32.46
Average		1.8775	1.8345	1.826	1.7985	1.493684	1.623
High		2.86	2.77	2.68	2.36	1.9	2.08
Low		0.76	1.27	1.46	1.18	1.11	1.13

2010

#	Location	Jan	Feb	March	April	May	June
1	Dunkin Donuts	8.41	8.12	8.53	9.32	8.49	9.03
2	Millville Arms	8.01	8.07	9.03	9.45	8.88	9.53
3	Old Town Hall	8.54	8.43	9.17	9.19	8.89	9.99
4	Sr. Citz Center	8.74	8.34	8.59	9.26	8.78	9.43
5	Public Works	8.92	8.87	8.95	9.46	9.39	9.72
6	Gound.Fur.Home	8.51	8.5	8.99	9.67	8.5	9.23
7	Denny's Rest.	7.89	7.92	8.95	9.29	8.89	8.6
8	Kevin Country Store	8.73	8.26	8.5	9.27	8.9	9.19
9	Deli Restaurant	9.04	8.87	9.81	10.07	9.63	9.05
10	Work N Gear	7.98	7.99	9.09	9.36	8.89	8.62
11	Salem P.O	7.81	8.1	9.05	9.25	8.87	8.69
12	Salem Library	8.6	8.63	8.71	9.51	9.16	9.33
13	SoDexHo	8.51	9.16	8.74	9.43	9.57	9.63
14	KFC	8.67	8.34	8.54	9.23	8.71	9.37
15	Cemetery Office	8.21	7.9	9.08	9.51	8.92	9.9
16	Fire St. Law. Rd.	8.65	8.24	8.36	9.28	8.5	9.99
17	Univex	7.9	8.1	9.29	9.8	9.27	8.71
18	Total Effect	8.53	8.23	9.16	9.75	8.57	9.19
19	Bickfords Rest.	7.96	7.99	8.98	9.37	8.66	7.91
20	Central Fire Main St.	7.89	8.07	8.95	9.61	8.76	9.96
	Average	8.375	8.3065	8.9235	9.454	8.9115	9.2535
	High	9.04	9.16	9.81	10.07	9.63	9.99
	Low	7.81	7.9	8.36	9.19	8.49	7.91

Monthly Distrubion Samples

(Samples done once a month)

Feb.-10

Site #	Location	Collection Date	Time Collected	C ₁₂ Resid. (mg/L)	pH	Total Coliforms	E. Coli
1	Dunkin Donuts	2/16	9:44 AM	2.21	8.12	A	A
2	Millville Arms	2/8	10:10 AM	2.08	8.07	A	A
3	Old Town Hall	2/8	9:33 AM	2.19	8.43	A	A
4	Sr. Citz Center	2/16	10:10 AM	1.62	8.34	A	A
5	Public Works	2/16	8:33 AM	1.47	8.87	A	A
6	Gound.Fur.Home	2/16	8:55 AM	1.44	8.5	A	A
7	Denny's Rest.	2/8	10:44 AM	1.83	7.92	A	A
8	Kevin Country Store	2/16	9:16 AM	1.82	8.26	A	A
9	Deli Restaurant	2/8	8:42 AM	2.77	8.87	A	A
10	Work N Gear	2/8	10:59 AM	1.27	7.99	A	A
11	Salem P.O	2/8	8:57 AM	1.44	8.1	A	A
12	Salem Library	2/16	9:05 AM	1.8	8.63	A	A
13	SoDexHo	2/16	8:17 AM	1.42	9.16	A	A
14	KFC	2/16	10:55 AM	1.65	8.34	A	A
15	Cemetery Office	2/8	9:15 AM	1.7	7.9	A	A
16	Fire St. Law. Rd.	2/16	10:00 AM	1.94	8.24	A	A
17	Univex	2/8	11:23 AM	2.2	8.1	A	A
18	Total Effec	2/16	9:32 AM	2.06	8.23	A	A
19	Bickfords Rest.	2/8	11:15 AM	2.07	7.99	A	A
20	Central Fire Main St.	2/8	10:26 AM	1.71	8.07	A	A

* Notes

Total Chlorine Summary -		2010 Distrubiton Samples					
#	Location	July	Aug	Sept.	Oct.	Nov	Dec.
1	Dunkin Donuts	2.13	2.01	1.91	1.49	2.21	1.8
2	Millville Arms	1.7	2.18	1.54	1.76	1.47	2.03
3	Old Town Hall	2.05	2.03	1.73	1.82	2.2	1.61
4	Sr. Citz Center	1.54	1.9	2.22	1.75	1.2	1.43
5	Public Works	1.62	1.47	1.39	1.85	1.47	1.26
6	Gound.Fur.Home	2.23	1.7	2.25	2.46	2.05	2.04
7	Denny's Rest.	1.78	2.02	1.41	1.81	1.97	1.33
8	Kevin Country Store	1.72	1.54	2.27	1.61	1.19	1.16
9	Deli Restaurant	1.95	2.33	2.11	1.67	2	2.07
10	Work N Gear	1.85	1.66	1.49	1.21	1.65	1.25
11	Salem P.O	1.56	1.68	1.83	1.36	1.72	1.57
12	Salem Library	1.65	2.11	1.83	1.71	1.8	1.32
13	SoDexHo	1.7	2.03	1.67	2.33	2.11	1.36
14	KFC	1.6	1.95	1.75	2.06	1.74	1.19
15	Cemetery Office	1.35	2.41	1.29	1.52	1.58	1.18
16	Fire St. Law. Rd.	1.69	1.74	2.11	1.52	1.03	0.99
17	Univex	1.66	1.67	1.79	1.44	2.11	1.96
18	Total Effec	1.97	1.65	2.12	1.45	2.04	2.09
19	Bickfords Rest.	1.67	1.84	2.17	1.76	2.07	1.81
20	Central Fire Main St.	1.63	1.68	1.45	1.85	2.15	2.12
	Total	35.05	37.6	36.33	34.43	35.76	31.57
	Average	1.7525	1.88	1.8165	1.7215	1.788	1.5785
	High	2.23	2.41	2.27	2.46	2.21	2.12
	Low	1.35	1.47	1.29	1.21	1.03	0.99

2010

#	Location	July	Aug	Sept.	Oct.	Nov	Dec.
1	Dunkin Donuts	8.43	8.41	8.4	8.38	7.25	7.28
2	Millville Arms	8.76	8.34	8.69	8.61	7.5	8.31
3	Old Town Hall	8.6	8.29	8.56	7.88	7.66	7.29
4	Sr. Citz Center	8.91	8.94	8.94	8.75	8.35	8.02
5	Public Works	8.97	9.07	8.9	8.92	7.87	8.07
6	Gound.Fur.Home	8.47	8.46	8.32	8.36	7.13	7.43
7	Denny's Rest.	8.64	8.2	8.38	8.08	7.4	7.27
8	Kevin Country Store	8.62	8.71	8.52	8.61	7.79	7.49
9	Deli Restaurant	8.67	8.12	8.68	7.87	7.49	7.46
10	Work N Gear	8.72	8.42	8.71	8.29	7.67	7.17
11	Salem P.O	8.44	8.1	8.38	7.91	7.42	7.05
12	Salem Library	8.67	8.68	8.52	8.59	7.53	7.4
13	SoDexHo	8.65	8.69	8.44	8.47	7.58	7.31
14	KFC	8.33	8.74	8.57	8.74	8.03	7.57
15	Cemetery Office	8.61	8.29	8.61	8.13	7.55	7.29
16	Fire St. Law. Rd.	8.6	8.7	8.64	7.43	8.15	7.53
17	Univex	9.23	8.97	9.04	8.2	7.39	7.47
18	Total Effect	8.59	8.61	8.43	8.45	7.31	7.39
19	Bickfords Rest.	8.57	8.17	8.58	7.83	7.49	7.13
20	Central Fire Main St.	8.51	8.14	8.43	7.8	7.35	7.3
Average		8.6495	8.5025	8.587	8.265	7.5955	7.4615
High		9.23	9.07	9.04	8.92	8.35	8.31
Low		8.33	8.1	8.32	7.43	7.13	7.05

Monthly Distrubion Samples

(Samples done once a month)

Mar-10

Site #	Location	Collection Date	Time Collected	C ₁₂ Resid. (mg/L)	pH	Total Coliforms	E. Coli
1	Dunkin Donuts	3/1	10:14 AM	2.06	8.53	A	A
2	Millville Arms	3/15	10:19 AM	1.86	9.03	A	A
3	Old Town Hall	3/15	9:31 AM	1.46	9.17	A	A
4	Sr. Citz Center	3/1	10:39 AM	2.09	8.59	A	A
5	Public Works	3/1	9:27 AM	1.78	8.95	A	A
6	Gound.Fur.Home	3/1	9:09 AM	2.68	8.99	A	A
7	Denny's Rest.	3/15	10:50 AM	1.69	8.95	A	A
8	Kevin Country Store	3/1	9:59 AM	1.53	8.5	A	A
9	Deli Restaurant	3/15	8:45 AM	2.11	9.81	A	A
10	Work N Gear	3/5	11:05 AM	1.59	9.09	A	A
11	Salem P.O	3/15	10:07 AM	1.53	9.05	A	A
12	Salem Library	3/1	9:46 AM	2.27	8.71	A	A
13	SoDexHo	3/1	8:54 AM	1.58	8.74	A	A
14	KFC	3/1	10:55 AM	1.69	8.54	A	A
15	Cemetery Office	3/15	9:13 AM	1.5	9.08	A	A
16	Fire St. Law. Rd.	3/1	10:29 AM	1.73	8.36	A	A
17	Univex	3/15	10:33 AM	1.8	9.29	A	A
18	Total Effec	3/2	10:22 AM	2.17	9.16	A	A
19	Bickfords Rest.	3/15	9:49 AM	1.93	8.98	A	A
20	Central Fire Main St.	3/15	1:19 PM	1.47	8.95	A	A

* Notes

Total Chlorine Running Average 2009-2010

Average /per month		year	Average?per Month	Year
Jan	2.017	2009	1.8775	2010
Feb	1.8505	2009	1.8345	2010
March	1.955	2009	1.826	2010
April	1.959	2009	1.7985	2010
May	1.94	2009	1.4937	2010
June	1.672	2009	1.623	2010
July	1.5325	2009	1.7525	2010
Aug	1.599	2009	1.88	2010
Sept.	1.6155	2009	1.8165	2010
Oct.	1.6565	2009	1.7215	2010
Nov	1.4995	2009	1.788	2010
Dec.	1.758	2009	1.5785	2010

Yearly 1.754542
Average

1.749183 ccr report

pH in Distrution - Average -2010

Averge /per month

Jan	8.375
Feb	8.3065
March	8.9235
April	9.454
May	8.9115
June	9.2535
July	8.6495
Aug	8.5025
Sept.	8.587
Oct.	8.265
Nov	7.5955
Dec.	7.4615

yealy aveg. **8.52375** ccr report

Monthly Distrubion Samples

(Samples done once a month)

Apr-10

Site #	Location	Collection Date	Time Collected	C ₁₂ Resid. (mg/L)	pH	Total Coliforms	E. Coli
1	Dunkin Donuts	4/5	10:35 AM	2.36	9.32	A	A
2	Millville Arms	4/19	9:50 AM	1.64	9.45	A	A
3	Old Town Hall	4/19	9:32 AM	1.18	9.19	A	A
4	Sr. Citz Center	4/5	10:10 AM	2.01	9.26	A	A
5	Public Works	4/5	10:22 AM	1.85	9.46	A	A
6	Gound.Fur.Home	4/5	9:05 AM	2.03	9.67	A	A
7	Denny's Rest.	4/19	10:53 AM	1.83	9.29	A	A
8	Kevin Country Store	4/5	9:38 AM	1.89	9.27	A	A
9	Deli Restaurant	4/19	8:52 AM	1.45	10.07	A	A
10	Work N Gear	4/19	11:08 AM	1.99	9.36	A	A
11	Salem P.O	4/19	10:06 AM	1.77	9.25	A	A
12	Salem Library	4/5	9:20 AM	1.72	9.51	A	A
13	SoDexHo	4/5	8:52 AM	1.66	9.43	A	A
14	KFC	4/5	10:56 AM	1.77	9.23	A	A
15	Cemetery Office	4/19	9:14 AM	1.88	9.51	A	A
16	Fire St. Law. Rd.	4/5	10:05 AM	1.49	9.28	A	A
17	Univex	4/20	9:15 AM	1.45	9.8	A	A
18	Total Effec	4/6	9:40 AM	2.05	9.75	A	A
19	Bickfords Rest.	4/19	10:41 AM	2.43	9.37	A	A
20	Central Fire Main St.	4/19	10:14 AM	1.52	9.61	A	A

* Notes

Monthly Distrubion Samples

(Samples done once a month)

May-10

Site #	Location	Collection Date	Time Collected	C12 Resid. (mg/L)	pH	Total Coliforms	E. Coli
1	Dunkin Donuts	5/3	10:03 AM	1.9	8.49	A	A
2	Millville Arms	5/17	11:10 AM	1.69	8.88	A	A
3	Old Town Hall	5/17	9:37 AM	1.37	8.89	A	A
4	Sr. Citz Center	5/3	10:41 AM	1.72	8.78	A	A
5	Public Works	5/3	9:26 AM	1.2	9.39	A	A
6	Gound.Fur.Home	5/5	1:30 PM	1.65	8.5	A	A
7	Denny's Rest.	5/17	10:26 AM	1.66	8.89	A	A
8	Kevin Country Store	5/3	10:15 AM	1.76	8.9	A	A
9	Deli Restaurant	5/17	8:46 AM	1.79	9.63	A	A
10	Work N Gear	5/17	10:42 AM	1.28	8.89	A	A
11	Salem P.O	5/17	9:12 AM	1.25	8.87	A	A
12	Salem Library	5/3	9:56 AM	1.63	9.16	A	A
13	SoDexHo	5/3	9:03 AM	1.44	9.57	A	A
14	KFC	5/3	11:00 AM	1.61	8.71	A	A
15	Cemetery Office	5/17	9:28 AM	1.28	8.92	A	A
16	Fire St. Law. Rd.	5/3	10:30 AM	1.42	8.5	A	A
17	Univex	5/17	10:58 AM	1.33	9.27	A	A
18	Total Effec	5/4	9:35 AM	1.31	8.57	A	A
19	Bickfords Rest.	5/17	10:14 AM	1.88	8.66	A	A
20	Central Fire Main St.	5/17	10:01 AM	1.11	8.76	A	A

* Notes

Monthly Distrubion Samples

(Samples done once a month)

Jun-10

Site #	Location	Collection Date	Time Collected	C12 Resid. (mg/L)	pH	Total Coliforms	E. Coli
1	Dunkin Donuts	6/7	11:17 AM	1.88	9.03	A	A
2	Millville Arms	6/21	9:53 AM	1.56	9.53	A	A
3	Old Town Hall	6/21	9:22 AM	1.65	9.99	A	A
4	Sr. Citz Center	6/7	10:50 AM	1.86	9.43	A	A
5	Public Works	6/7	9:03 AM	1.5	9.72	A	A
6	Gound.Fur.Home	6/7	9:30 AM	1.88	9.23	A	A
7	Denny's Rest.	6/21	10:35 AM	1.29	8.6	A	A
8	Kevin Country Store	6/7	10:30 AM	1.94	9.19	A	A
9	Deli Restaurant	6/21	8:45 AM	2.08	9.05	A	A
10	Work N Gear	6/21	10:52 AM	1.31	8.62	A	A
11	Salem P.O	6/21	9:04 AM	1.48	8.69	A	A
12	Salem Library	6/7	10:15 AM	1.88	9.33	A	A
13	SoDexHo	6/7	8:33 AM	1.87	9.63	A	A
14	KFC	6/7	11:02 AM	1.84	9.37	A	A
15	Cemetery Office	6/21	9:29 AM	1.43	9.9	A	A
16	Fire St. Law. Rd.	6/9	10:10 AM	1.47	9.99	A	A
17	Univex	6/21	11:20 AM	1.71	8.71	A	A
18	Total Effec	6/8	9:10 AM	1.18	9.19	A	A
19	Bickfords Rest.	6/21	10:20 AM	1.52	7.91	A	A
20	Central Fire Main St.	6/21	10:03 AM	1.13	9.96	A	A

* Notes

Monthly Distrubion Samples

(Samples done once a month)

Jul-10

Site #	Location	Collection Date	Time Collected	C12 Resid. (mg/L)	pH	Total Coliforms	E. Coli
1	Dunkin Donuts	7/12	10:15 AM	2.13	8.43	A	A
2	Millville Arms	7/26	12:00 AM	1.7	8.76	A	A
3	Old Town Hall	7/26	9:51 AM	2.05	8.6	A	A
4	Sr. Citz Center	7/12	10:51 AM	1.54	8.91	A	A
5	Public Works	7/12	9:24 AM	1.62	8.97	A	A
6	Gound.Fur.Home	7/12	11:25 AM	2.23	8.47	A	A
7	Denny's Rest.	7/26	10:46 AM	1.78	8.64	A	A
8	Kevin Country Store	7/12	10:00 AM	1.72	8.62	A	A
9	Deli Restaurant	7/26	8:52 AM	1.95	8.67	A	A
10	Work N Gear	7/26	11:00 AM	1.85	8.72	A	A
11	Salem P.O	7/26	10:34 AM	1.56	8.44	A	A
12	Salem Library	7/12	9:48 AM	1.65	8.67	A	A
13	SoDexHo	7/12	9:00 AM	1.7	8.65	A	A
14	KFC	7/12	11:05 AM	1.6	8.33	A	A
15	Cemetery Office	7/26	9:35 AM	1.35	8.61	A	A
16	Fire St. Law. Rd.	7/12	10:42 AM	1.69	8.6	A	A
17	Univex	7/26	11:31 AM	1.66	9.23	A	A
18	Total Effec	7/13	9:10 AM	1.97	8.59	A	A
19	Bickfords Rest.	7/26	10:20 AM	1.67	8.57	A	A
20	Central Fire Main St.	7/26	10:06 AM	1.63	8.51	A	A

* Notes

Monthly Distrubion Samples

(Samples done once a month)

Aug-10

Site #	Location	Collection Date	Time Collected	C12 Resid. (mg/L)	pH	Total Coliforms	E. Coli
1	Dunkin Donuts	8/9	9:21 AM	2.01	8.41	A	A
2	Millville Arms	8/23	9:41 AM	2.18	8.34	A	A
3	Old Town Hall	8/23	9:22 AM	2.03	8.29	A	A
4	Sr. Citz Center	8/9	10:10 AM	1.9	8.94	A	A
5	Public Works	8/9	10:25 AM	1.47	9.07	A	A
6	Gound.Fur.Home	8/9	12:05 AM	1.7	8.46	A	A
7	Denny's Rest.	8/23	10:30 AM	2.02	8.2	A	A
8	Kevin Country Store	8/9	9:46 AM	1.54	8.71	A	A
9	Deli Restaurant	8/23	8:48 AM	2.33	8.12	A	A
10	Work N Gear	8/23	10:42 AM	1.66	8.42	A	A
11	Salem P.O	8/23	10:16 AM	1.68	8.1	A	A
12	Salem Library	8/9	9:30 AM	2.11	8.68	A	A
13	SoDexHo	8/9	8:45 AM	2.03	8.69	A	A
14	KFC	8/9	10:54 AM	1.95	8.74	A	A
15	Cemetery Office	8/23	9:09 AM	2.41	8.29	A	A
16	Fire St. Law. Rd.	8/9	10:02 AM	1.74	8.7	A	A
17	Univex	8/23	11:05 AM	1.67	8.97	A	A
18	Sunshine L	8/10	10:03 AM	1.65	8.61	A	A
19	Bickfords Rest.	8/23	10:05 AM	1.84	8.17	A	A
20	Central Fire Main St.	8/23	9:51 AM	1.68	8.14	A	A

* Notes

Monthly Distrubion Samples

(Samples done once a month)

Sept.- 10

Site #	Location	Collection Date	Time Collected	C ₁₂ Resid. (mg/L)	pH	Total Coliforms	E. Coli
1	Dunkin Donuts	9/7	9:51 AM	1.91	8.4	A	A
2	Millville Arms	9/20	9:37 AM	1.54	8.69	A	A
3	Old Town Hall	9/20	9:23 AM	1.73	8.56	A	A
4	Sr. Citz Center	9/7	10:55 AM	2.22	8.94	A	A
5	Public Works	9/7	9:30 AM	1.39	8.9	A	A
6	Gound.Fur.Home	9/7	9:09 AM	2.25	8.32	A	A
7	Denny's Rest.	9/20	10:37 AM	1.41	8.38	A	A
8	Kevin Country Store	9/7	10:33 AM	2.27	8.52	A	A
9	Deli Restaurant	9/20	8:54 AM	2.11	8.68	A	A
10	Work N Gear	9/20	10:54 AM	1.49	8.71	A	A
11	Salem P.O	9/20	10:26 AM	1.83	8.38	A	A
12	Salem Library	9/7	10:20 AM	1.83	8.52	A	A
13	SoDexHo	9/7	9:06 AM	1.67	8.44	A	A
14	KFC	9/7	11:28 AM	1.75	8.57	A	A
15	Cemetery Office	9/20	9:12 AM	1.29	8.61	A	A
16	Fire St. Law. Rd.	9/7	11:06 AM	2.11	8.64	A	A
17	Univex	9/20	11:13 AM	1.79	9.04	A	A
18	Sunshine L	9/7	10:02 AM	2.12	8.43	A	A
19	Bickfords Rest.	9/20	10:14 AM	2.17	8.58	A	A
20	Central Fire Main St.	9/20	10:00 AM	1.45	8.43	A	A

* Notes

Monthly Distrubion Samples

(Samples done once a month)

Oct. - 10

Site #	Location	Collection Date	Time Collected	C ₁₂ Resid. (mg/L)	pH	Total Coliforms	E. Coli
1	Dunkin Donuts	10/4	11:19 AM	1.49	8.38	A	A
2	Millville Arms	10/18	10:45 AM	1.76	8.61	A	A
3	Old Town Hall	10/18	9:33 AM	1.82	7.88	A	A
4	Sr. Citz Center	10/4	10:54 AM	1.75	8.75	A	A
5	Public Works	10/4	9:40 AM	1.85	8.92	A	A
6	Gound.Fur.Home	10/4	1:42 AM	2.46	8.36	A	A
7	Denny's Rest.	10/18	11:02 AM	1.81	8.08	A	A
8	Kevin Country Store	10/4	10:24 AM	1.61	8.61	A	A
9	Deli Restaurant	10/18	8:49 AM	1.67	7.87	A	A
10	Work N Gear	10/18	11:13 AM	1.21	8.29	A	A
11	Salem P.O	10/18	10:47 AM	1.36	7.91	A	A
12	Salem Library	10/4	10:12 AM	1.71	8.59	A	A
13	SoDexHo	10/4	9:12 AM	2.33	8.47	A	A
14	KFC	10/4	11:05 AM	2.06	8.74	A	A
15	Cemetery Office	10/18	9:11 AM	1.52	8.13	A	A
16	Fire St. Law. Rd.	10/6	1:30 PM	1.52	7.43	A	A
17	Univex	10/18	11:35 AM	1.44	8.2	A	A
18	Sundshine	10/4	9:57 AM	1.45	8.45	A	A
19	Bickfords Rest.	10/18	10:25 AM	1.76	7.83	A	A
20	Central Fire Main St.	10/18	10:01 AM	1.85	7.8	A	A

* Notes

Monthly Distrubion Samples

(Samples done once a month)

Nov. - 10

Site #	Location	Collection Date	Time Collected	C ₁₂ Resid. (mg/L)	pH	Total Coliforms	E. Coli
1	Dunkin Donuts	11/1	9:52 AM	2.21	7.25	A	A
2	Millville Arms	11/15	9:43 AM	1.47	7.5	A	A
3	Old Town Hall	11/15	9:22 AM	2.2	7.66	A	A
4	Sr. Citz Center	11/1	10:51 AM	1.2	8.35	A	A
5	Public Works	11/1	9:39 AM	1.47	7.87	A	A
6	Gound.Fur.Home	11/1	9:24 AM	2.05	7.13	A	A
7	Denny's Rest.	11/15	11:03 AM	1.97	7.4	A	A
8	Kevin Country Store	11/1	10:29 AM	1.19	7.79	A	A
9	Deli Restaurant	11/15	8:41 AM	2	7.49	A	A
10	Work N Gear	11/15	11:18 AM	1.65	7.67	A	A
11	Salem P.O	11/15	10:49 AM	1.72	7.42	A	A
12	Salem Library	11/1	10:14 AM	1.8	7.53	A	A
13	SoDexHo	11/1	9:07 AM	2.11	7.58	A	A
14	KFC	11/1	11:03 AM	1.74	8.03	A	A
15	Cemetery Office	11/15	9:04 AM	1.58	7.55	A	A
16	Fire St. Law. Rd.	11/3	9:56 AM	1.03	8.15	A	A
17	Univex	11/15	11:30 AM	2.11	7.39	A	A
18	Sunshine L	11/1	10:02 AM	2.04	7.31	A	A
19	Bickfords Rest.	11/15	10:37 AM	2.07	7.49	A	A
20	Central Fire Main St.	11/15	9:54 AM	2.15	7.35	A	A

* Notes

Monthly Distrubion Samples

(Samples done once a month)

Dec. - 10

Site #	Location	Collection Date	Time Collected	C ₁₂ Resid. (mg/L)	pH	Total Coliforms	E. Coli
1	Dunkin Donuts	12/6	9:43 AM	1.8	7.28	A	A
2	Millville Arms	12/13	9:59 AM	2.03	8.31	A	A
3	Old Town Hall	12/13	9:35 AM	1.61	7.29	A	A
4	Sr. Citz Center	12/6	10:37 AM	1.43	8.02	A	A
5	Public Works	12/6	9:10 AM	1.26	8.07	A	A
6	Gound.Fur.Home	12/6	9:35 AM	2.04	7.43	A	A
7	Denny's Rest.	12/13	10:55 AM	1.33	7.27	A	A
8	Kevin Country Store	12/6	10:15 AM	1.16	7.49	A	A
9	Deli Restaurant	12/13	8:30 AM	2.07	7.46	A	A
10	Work N Gear	12/13	11:15 AM	1.25	7.17	A	A
11	Salem P.O	12/13	10:39 AM	1.57	7.05	A	A
12	Salem Library	12/6	10:03 AM	1.32	7.4	A	A
13	SoDexHo	12/6	8:49 AM	1.36	7.31	A	A
14	KFC	12/6	11:00 AM	1.19	7.57	A	A
15	Cemetery Office	12/13	9:06 AM	1.18	7.29	A	A
16	Fire St. Law. Rd.	12/14	9:10 AM	0.99	7.53	A	A
17	Univex	12/6	1:15 PM	1.96	7.47	A	A
18	Sundshine	12/6	9:59 AM	2.09	7.39	A	A
19	Bickfords Rest.	12/13	10:28 AM	1.81	7.13	A	A
20	Central Fire Main St.	12/13	10:14 AM	2.12	7.3	A	A

* Notes

IOC, Nitrates, SOC, VOC, - -2011

Date

7/7/2011 12/27/2011

Location

Canobie Arlington Poi

Inorganics

Results/Unites Results/Unites

EPA Method 200.7

Beryllium

ND

ND

Hardness

37.78 mg/L

28.75 mg/L

Iron

ND

ND

Sodium

43.6 mg/L

30.9 mg/L

Zinc

ND

ND

EPA Method 200.8

Antimony

ND

ND

Arsenic

ND

ND

Barium

ND

0.0145 mg/L

Cadmium

ND

ND

Chromium

ND

ND

Copper

ND

ND

Manganese

0.0084 mg/L

0.0181mg/L

Nickel

ND

ND

Selenium

ND

ND

Silver

ND

ND

Thallium

ND

ND

EPA Method 245.1

Mercury

ND

ND

Semi-Volatiles

EPA Method 547

Glyphosate

ND

ND

EPA Method 504.1

1,2-Dibromomoethane (EDB)

ND

ND

1,2-Dibromo-3-chloropropane

ND

ND

EPA Method 505

Chlordane

ND

ND

Toxaphene

ND

ND

EPA Method 531.2

Aldicarb Sulfoxide

ND

ND

Aldicarb Sulfone

ND

ND

Oxamyl

ND

ND

Methomyl

ND

ND

3-Hydroxy-Carbofuran

ND

ND

Aldicarb

ND

ND

Carbofuran

ND

ND

Carbaryl

ND

ND

Semi-Volatiles

EPA Method 525.2

Analytical Method EPA 525.2

Acenaphthene	ND	ND
Acenaphthylene	ND	ND
Alachlor	ND	ND
Aldrin	ND	ND
Anthracene	ND	ND
Artrazine	ND	ND
Benzo(a)anthracene	ND	ND
Benzo(a)pyrene	ND	ND
Benzo(b)fluoranthene	ND	ND
Benzo (ghi) perylene	ND	ND
Benzo (k) fluoranthene	ND	ND
Bis (2-ethylhexyl) phthalate	ND	ND
Butachlor	ND	ND
Butyl benzyl phthalate	ND	ND
Alpha-Chlordance	ND	ND
Gamma-Chlordance	ND	ND
2-Chlorobiphenyl	ND	ND
Chrysene	ND	ND
4,4'-DDD	ND	ND
4,4'-DDE	ND	ND
4,4''-DDT	ND	ND
Di(2-ethylhexyl)adipate	ND	ND
Di-n-butyl phthalate	ND	ND
Dibenz(a,h)anthracene	ND	ND
2,3-Dichlorobiphenyl	ND	ND
Dieldrin	ND	ND
Diethyl phthalate	ND	ND
Dimethyl phthalate	ND	ND
Endrin	ND	ND
Endrin aldehyde	ND	ND
Fluoranthene	ND	ND
Fluorene	ND	ND
Heptachlor	ND	ND
Heptachlor expoxide	ND	ND
2,2'3,3'4,4'6 Heptachlorobiphen	ND	ND
Hexachlorobenzene	ND	ND
2,2'4,4'5,6'' Hexachlorobipheny	ND	ND
Hexachlorocyclopentadiene	ND	ND
Indeno (1,2,3-cd) pyrene	ND	ND
Isophorone	ND	ND
Linane	ND	ND
Methoxychlor	ND	ND
2-Methylnaphthalene	ND	ND
Metolachlor	ND	ND
Metribuzin	ND	ND
Naphthalene	ND	ND
trans-Nonachlor	ND	ND

2,2',3,3',4,5',6,6' Octachlorobiph	ND	ND
2,2',3',4,6-Pentachlorobiphenyl	ND	ND
Pentachlorophenol	ND	ND
Phenanthrene	ND	ND
Propachlor	ND	ND
Pyrene	ND	ND
Simazine	ND	ND
2,2',4,4'-Tetrachlorobiphenyl	ND	ND
2,4,5-Trichlorobiphenyl	ND	ND
Trifluralin (Treflan)	ND	ND

Surrogates

1,3-Dimethyl-2-nitrobenzene	120%	96%
Pyrene-d10	100%	100%
Triphenyl phosphate	140%	120%
Perylene-d-12	78%	80%

EPA Method 555

Picloram	ND	ND
Dicamba	ND	ND
2,4-D	ND	ND
Silvex	ND	ND
Acifluorfen	ND	ND
Dinoseb	ND	ND

Volatiles

EPA Method 524.2

Acetone	ND	ND
Benzene	ND	ND
Bromobenzene	ND	ND
Bromochloromethane	ND	ND
Bromodichloromethane	9.3 ug/L	4.2ug/L
Bromoform	ND	ND
Bromomethane	ND	ND
t-Butanol (TBA)	ND	ND
2-Butanol (MEK)	ND	ND
n-Butylbenzene	ND	ND
sec-Butylbenzene	ND	ND
t-Butylbenzene	ND	ND
Carbon disulfide	ND	ND
Carbon tetrachloride	ND	ND
Chlorobenzene	ND	ND
Chloroethane	ND	ND
Chloroform	17 ug/L	12 ug/L
Chloromethane	ND	ND
2-Chlorotoluene	ND	ND
4-Chlorotoluene	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND
Dibromochloromethane	ND	0.5 ug/L

1,2-Dibromomethane (EDB)	ND	ND
Dibromomethane	ND	ND
1,4-Dichlorobenzene	ND	ND
1,3-Dichlorobenzene	ND	ND
1,2-Dichlorobenzene	ND	ND
Dichlorodifluoromethane	ND	ND
1,2-Dichloroethane	ND	ND
1,1-Dichloroethane	ND	ND
cis-1,2-Dichloroethene	ND	ND
trans-1,2-Dichloroethene	ND	ND
1,1-Dichloroethene	ND	ND
1,3-Dichloropropane	ND	ND
2,2-Dichloropropane	ND	ND
1,2-Dichloropropane	ND	ND
cis-1,3-Dichloropropene	ND	ND
trans-1,2,3-Dichloropropene	ND	ND
1,1-Dichloropropene	ND	ND
Diethyl ether	ND	ND
Diethyl ether (DIPE)	ND	ND
Ethyl-t-butyl ether (ETBE)	ND	ND
Ethylbenzene	ND	ND
Hexachlorobutadiene	ND	ND
2-Hexanone	ND	ND
Isopropylbenzene	ND	ND
p-Isopropyltoluene	ND	ND
2-Methoxy-2-methylbutane(TAME)	ND	ND
4-Methyl-2-pentanone(MIBK)	ND	ND
Methyl-t-butylether(MTBE)	ND	ND
Methylene Chloride	ND	ND
Napthalene	ND	ND
n-Propylbenzene	ND	ND
Styrene	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND
Tetrachloroethene	ND	ND
Tetrahydrofuran (THF)	ND	ND
Toluene	ND	ND
1,3,5-Trichlorobenzene	ND	ND
1,2,4-Trichlorobenzene	ND	ND
1,2,3-Trichlorobenzene	ND	ND
1,1,1-Trichloroethane	ND	ND
1,1,2-Trichloroethane	ND	ND
Trichloroethene	ND	ND
Trichlorofluoromethane	ND	ND
1,2,3-Trichloropropane	ND	ND
1,2,5-Trimethylbenzene	ND	ND
1,2,4-Trimethylbenzene	ND	ND

Vinyl Chloride	ND	ND
m/p-Xylene	ND	ND
O-Xylen	ND	ND
Total Xylenes	ND	ND

Surrogates

4-Bromofluorobenzene	94%	93%
1,2-Dichlorobenzene	98%	95%

Wet Chemistry

Latch method 10-107-04-1-C

Nitrate-Nitrogen	ND	0.13 mg/l

Latch method 10-107-04-1-C

Nitrite-Nitrogen	ND	ND

Latch method 10-107-04-1-C

Nitrate+Nitrite-Nitrogen	ND	0.13 mg/l

Latch 10-117-07-1-B

Chloride	72 mg/L	39 mg/L

SM 4500-H+B

pH	8.83 unites	7.43 mg/L

Latch 10-109-12-2-A

Fluroide	ND	ND

Latch 10-511-00A

Sulfate (as SO ₄)	12 mg/L	17 mg/L

Surrogates

BDMC	80%	95%

nd

Avg.-CCR report

33.27 mg/L

37.25 mg/L

0.00725mg/L

0

0

0.065 mg/L

0

8.13

Daily Laboratory Testing 2012

Site: Raw

Jan	Turbidity	Alk/T	Color	pH	Tempt.
	NTU	mg/L	PtCo		°C
1	0.789	78.93	38	8.834	6.9
2	0.825	59.08	43	6.938	7
3	0.813	35.54	38	7.74	9.4
4	0.791	32.48	37	7.32	10
5	0.694	39.35	39	8	9
6	0.705	32.55	38	7.23	7.1
7	0.692	40.57	35	8.09	6.6
8	0.683	20.18	37	7.28	6.4
9	0.679	16.25	36	6.798	8.8
10	0.652	17.51	38	6.567	7.7
11	0.663	15.97	33	6.513	7.7
12	0.644	18.89	34	6.917	8.1
13	0.611	19.87	37	7.233	7.9
14	0.61	19.38	37	8.457	6.4
15	1.02	45.5	36	8.11	6.7
16	0.633	18.71	36	7.35	7.6
17	0.677	18.62	34	7.31	7.9
18	0.0658	18.24	33	7.143	9.1
19	0.641	17.2	33	7.077	8.4
20	0.691	18.28	39	7.159	8.1
21	0.675	32.36	35	7.564	8.1
22	0.578	53.63	34	7.866	7.1
23	0.746	18.33	37	6.77	7.7
24	0.786	19.3	37	6.946	7.6
25	0.747	19.84	32	7.263	8.1
26	0.687	16.94	38	7.127	11
27	0.705	19.59	33	7.457	7.7
28	0.709	54.1	36	8.13	7.2
29	0.704	49.47	35	8.17	7.1
30	0.598	18.84	36	7.178	9.9
31	0.649	17.63	38	7.077	9

Max

Daily Laboratory Testing

2012

Site:	Clarifiers		pH	Filtered		Alum.
	#1	Color		#1	pH	
Jan	Turbidity	PtCo		Turbidity		
	NTU			NTU		
	1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	29					
	30					
	31					

**Daily Laboratory Testing
2012**

Site:	Clarifiers		Filtered			
	#2		#2			
Jan	Turbidity	Color	pH	Turbidity	pH	Alum.
	NTU	PtCo		NTU		
1	1.61	23	7.537	0.129	7.412	
2	1.9	22	7.342	0.164	7.352	
3	1.51	24	6.98	0.094	7.05	
4	0.948	24	7.06	0.144	7.06	
5	1.08	17	6.85	0.098	6.84	
6	1.79	19	6.31	0.091	6.23	
7	1.23	19	6.98	0.106	6.77	
8	1.61	22	6.57	0.092	6.46	
9	1.16	21	5.908	0.094	5.832	
10						
11	1.03	18	5.759	0.078	5.915	
12						
13	1.42	22	6.408	0.082	6.503	0.038
14	1.06	20	7.301	0.152	7.315	
15						
16	1.36	24	6.336	0.104	6.535	
17	1.69	19	6.465	0.097	6.52	
18	1.19	19	6.286	0.097	6.271	
19	1.51	5	6.238	0.099	6.239	0.045
20						
21	1.33	23	6.904	0.086	6.853	
22	1.3	16	7.424	0.113	7.355	
23	1.15	19	6.333	0.17	6.297	
24	1.33	17	6.374	0.191	6.478	
25	1.07	12	6.817	0.177	6.427	
26	0.666	15	6.629	0.159	6.488	
27						
28	1.52	24	7.21	0.091	7.36	
29	1.03	17	7.23	0.076	7.22	
30	1.33	18	6.256	0.15	6.348	
31	1.38	17		1.152		

Daily Laboratory Testing

2012

Site:	Clarifiers		Filtered			
	#3		#3			
Jan	Turbidity	Color	pH	Turbidity	pH	Alum.
	NTU	PtCo		NTU		
	1	1.01		0.229		
	2	1.98		0.214		
	3	1.47		0.112		
	4	2.77		0.142		
	5	1.03		0.21		
	6	1.14		0.13		
	7	1.92		0.11		
	8	1.18		0.105		
	9	0.951		0.164		
	10	0.54	6.012	0.184	5.731	
	11	0.956		0.106		
	12	0.114	6.388	0.192	6.248	
	13					
	14					
	15	1.11	7.364	0.129	7.346	
	16	1.21		0.119		
	17	0.981		0.143		
	18	1.2		0.135		
	19	0.882		0.134		
	20	0.768	6.324	0.136	6.457	
	21	1.14		0.092		
	22	1.1		0.142		
	23	1.03		0.149		
	24	1.04		0.216		
	25	0.956		0.214		
	26	0.697	6.261	0.185	6.099	0.05
	27	0.984		0.383		
	28	0.883		0.107		
	29	0.82		0.131		
	30	1.04		0.2	6.348	
	31	0.533	6.779	0.077	6.508	

Daily Laboratory Testing

2012

Site: Clearwell

Jan	Turbidity	pH	Tempt.
	NTU		°C
1	0.166	7.642	6.5
2	0.188	7.374	7.4
3	0.189	7.31	10.1
4	0.147	7.25	12
5	0.162	7.17	11.7
6	0.196	6.52	6
7	0.127	7.12	5.5
8	0.126	6.74	6.1
9	0.13	6.066	9.1
10	0.147	6.041	7.6
11	0.173	6.275	7
12	0.187	6.555	8.8
13	0.14	6.705	7.6
14	0.801	7.395	6.4
15	0.211	7.551	6.9
16	0.161	6.64	8.7
17	0.135	6.781	7
18	0.183	6.484	10
19	0.148	6.571	9.1
20	0.132	6.499	8.9
21	0.193	6.94	6.7
22	0.126	7.579	6.8
23	0.216	6.563	7.5
24	0.191	6.688	8.5
25	0.186	6.696	7.4
26	0.228	6.518	9
27	0.197	6.747	7.4
28	0.198	7.07	6
29	0.109	7.56	6.4
30	0.23	6.66	10.9
31	0.256	6.514	8.4

Site: 100 Foot Sample Line - EFF

Jan	Turbidity	pH	Mono/	Color/	Total	free	Alk/P	Calcium/	Conductivity
			Free Am	Hardness	Chlorine		Alk/T		
	NTU		mg/L	PtCo/mg/L	mg/L	mg/L	mg/L	mg/L	uS/CM
1	0.096	8.438	2.21/0	0/	2.6	0.32	.5339/36.06		243.3
2	0.119	9.666	2.35/0	0/	2.88	0.38	6.23/35.5		239.6
3	0.139	8	2.15/0	0/	3	0.26	0/33.54		233.8
4	0.103	7.85	2.20/0	0/	2.8	0.15	0/32.71		230.0
5	0.129	8.08	2.13/0	3/	3.14	0.11	0/32.16		231.9
6	0.139	7.15	2.61/0	0/	3.02	0.34	0/29.54		243.7
7	0.107	7.87	2.50/0	0/	3.22	0.3	0/30.03		234.5
8	0.106	7.7	2.52/0	4/	3.3	0.4	0/29.74		235.2
9	0.107	7.014	2.39/0	0/	3.24	0.25	0/26.84		234.8
10	0.14	6.541	2.24/0	2/	3.06	0.31	0/29.58		238.2
11	0.127	6.62	2.38/0	0/	3.76	0.31	0/28.01		238.8
12	0.104	7.608	2.04/0	0/	3.44	1.25	0/31.14		328.2
13	0.107	7.405	1.98/0.12	0/25.96	3.12	0.65	0/29.58	9.535	238.3
14	0.457	7.116	2.62/0	2/	2.82	0.24	0/29.01		260.6
15	0.166	8.405	2.49/0	3/	3.04	0.2	0.1856/41.31		244.3
16	0.139	7.421	2.44/0	0/	2.96	0.21	0/39.29		243.5
17	0.121	7.395	2.52/0	0/	3.16	0.28	0/40.49		245.3
18	0.13	7.702	2.04/0	0/	3.44	0.4	0/38.78		242.3
19	0.102	7.18	2.39/0	0/	3.08	0.44	0/38.22		242.9
20	0.1	7.386	2.42/0	0/	3.08	0.36	0/39.15		240.5
21	0.161	7.801	2.53/0	3/	2.94	0.22	0/30.23		247.7
22	0.198	8.406	2.45/0	2/	2.82	0.2	1.428/43.78		246.6
23	0.191	7.548	2.39/0	1/	3.32	0.27	0/38.9		247.2
24	0.174	7.19	2.47/0	1/27.84	3.14	0.26	0/39.65	13.48	241
25	0.177	7.177	2.37/0	0/	3	0.27	0/40.04		246.2
26	0.214	7.161	2.42/0	2/	3.24	0.5	0/28.25		240.9
27	0.174	7.655	2.53/0	3/	3.3	0.32	0/39.47		244.4
28	0.168	8.19	2.29/0	3/	3.12	0.44	.19/34.27		241.4
29	0.106	7.87	2.58/0	2/	2.72	0.36	0/36.53		239.6
30	0.176	7.361	2.40/0	2/	3.08	0.48	0/40.51		234.9
31	0.169	7.291	2.19/0.06	5/	2.5	0.28	0/29.86		237

Daily Laboratory Testing 2012

Site: Raw

Feb	Turbidity NTU	Alk/T mg/L	Color PtCo	pH	Tempt. °C
1	0.745	16.76	36	6.876	8.6
2	0.952	20.29	39	7.552	8
3	0.382	24.38	15	7.788	8
4	0.291	19.14	11	7.9	12.5
5	0.363	45.59	14	8.087	8.6
6	0.255	19.64	12	6.869	9.4
7	0.278	21.13	11	7.093	11.1
8	0.279	32.47	13	7.166	8.8
9	0.268	22.83	12	7.449	9
10	0.276	22.27	13	7.279	13
11	0.308	56	18	8.43	5.8
12	0.292	66.32	13	8.964	7.7
13	0.271	21.28	8	5.7	8
14	0.277	32.06	12	7.435	8.7
15	0.124	22.6	10	7.298	9.3
16	0.327	22.71	9	7.159	11
17	0.299	23.87	11	7.72	11
18	0.299	41.26	12	7.96	8.8
19	0.295	42.6	11	7.92	7.8
20	0.287	46.23	10	8.22	7.7
21	0.291	32.24	10	7.299	9.4
22	0.288	22.25	11	7.34	9.6
23	0.298	32.76	11	7.499	11.9
24	0.305	20.7	13	6.96	9.4
25	0.298	33.14	12	7.56	10.4
26	0.466	44.94	14	8.234	7.2
27	0.405	21.07	10	7.162	10.3
28	0.376	20.4	12	7.162	9.1
29	0.377	33.49	12	7.439	10.9
30					
31					
Max				7.5	

Daily Laboratory Testing

2012

Site:	Clarifiers		Filtered			Alum.
	#1		#1			
Feb	Turbidity	Color	pH	Turbidity	pH	
	NTU	PtCo		NTU		
1						
2						
3						
4						
5						
6						
7						
8	0.279	6	6.974	0.088	6.727	
9	0.269	4	7.307	0.087	7.241	0.011
10	0.333	7	7.248	0.088	7.128	
11	0.324	22	8.3	0.121	8.2	
12						
13	0.267	3	7.241	0.073	7.344	
14	0.285	7	7.458			
15	0.303	5	7.235	0.111	7.435	
16						
17	0.239	6	7.374	0.177	7.516	
18	0.31	7	7.92	0.098	8.06	
19	0.267	7	8.33	0.068	8.16	
20	0.235	6	7.76	0.087	7.82	
21	0.24	6	7.45	0.069	7.383	
22	0.259	7	7.387	0.087	7.195	
23	0.258	7	7.334	0.071	7.327	
24	0.305	12	7.06	0.102	6.61	0.058
25	0.321	10	7.34	0.1	7.3	
26	0.396	9		0.122		
27	0.328	3	7.26	0.092	7.148	
28	0.395	6	7.242	0.083	7.015	
29						
30						
31						

Daily Laboratory Testing

2012

Site:	Clarifiers			Filtered		
	#2			#2		
Feb	Turbidity	Color	pH	Turbidity	pH	Alum.
	NTU	PtCo		NTU		
1	0.772	19	6.842	0.187	6.792	
2	0.889	20	6.541	0.157	6.704	
3	0.294	10	7.364	0.081	7.415	
4	0.308	5	7.77	0.062	8.017	
5	0.3	4	8.072	0.068	7.903	
6	0.277	6	6.636	0.094	6.655	
7	0.343	7	6.993	0.14	6.956	
8	0.219	8		0.109		
9	0.195	2		0.092		
10	0.249	3		0.067		
11	0.285	10		0.206		
12	0.155	8	8.546	0.132	8.429	
13	0.289	1		0.065		
14	0.179	4	7.378	0.093	7.067	
15						
16	0.197	2	7.332	0.132	7.135	0.002
17						
18	0.178	6		0.103		
19	0.236	6		0.071		
20	0.178	5		0.076		
21	0.177	6		0.073		
22	0.296	3		0.071		
23	0.213	7		0.07		
24	0.198	9		0.126		
25	0.179	9		0.108		
26	0.206	8	8.045	0.075	7.936	
27	0.246	1		0.085		
28	0.183	3		0.086		
29	0.231	7	7.485	0.093	7.367	
30						
31						

Daily Laboratory Testing

2012

Site:	Clarifiers		Filtered		pH	Alum.
	#3		#3			
Feb	Turbidity	Color	pH	Turbidity	pH	Alum.
	NTU	PtCo		NTU		
1	0.641	15		0.306		
2	1.72	25		0.254		
3	0.382	13		0.229		
4	0.263	8		0.067		
5	0.374	7		0.067		
6	0.334	4		0.069		
7	0.29	1		0.154		
8						
9						
10						
11						
12						
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31						

Daily Laboratory Testing

2012

Site: Clearwell

Feb	Turbidity	pH	Tempt.
	NTU		°C
1	0.388	6.966	9.6
2	0.272	6.876	9.4
3	0.227	7.156	8.3
4	0.097	8.327	10.5
5	0.092	8.217	9.3
6	0.094	7.042	10.4
7	0.108	7.432	12.6
8	0.093	7.164	12.3
9	0.075	7.296	9.9
10	0.091	7.618	9.3
11	0.168	8.38	6.2
12	0.077	8.581	7.1
13	0.191	7.672	8
14	0.069	7.479	10.7
15	0.075	7.433	10.1
16	0.123	7.46	12.2
17	0.083	7.588	11
18	0.086	8.13	7.9
19	0.082	8.43	7.2
20	0.094	7.95	7.6
21	0.076	7.418	13.3
22	0.099	7.726	10.4
23	0.094	7.684	11.8
24	0.087	7.41	11.9
25	0.099	7.85	10.3
26	0.094	8.198	10.1
27	0.117	7.574	10.1
28	0.112	7.377	10.7
29	0.112	7.878	10.7
30			
31			

Site: 100 Foot Sample Line - EFF

Daily Laboratory Testing 2012

Site: Raw

March	Turbidity NTU	Alk/T mg/L	Color PtCo	pH	Tempt. °C
1	0.367	33.05	11	7.207	12.07
2	0.359	23.25	11	7.437	9.8
3	0.488	43.01	4	8.176	7.6
4	0.352	44.4	11	7.939	8.4
5	0.324	21	7	7.33	7.2
6	0.335	21.92	12	7.737	8.6
7	0.329	33.82	8	7.346	8.6
8	0.33	21.99	9	7.394	8.9
9	0.463	23.32	13	7.532	10.2
10	0.403	32.82	15	7.54	10.3
11	0.358	35.04	15	7.53	8.8
12	0.333	33.37	14	7.461	10.3
13	0.362	21.24	17	7.156	12.2
14	0.339	30	20	7.426	11.9
15	0.328	20.36	9	7.042	12.2
16	0.316	31.93	10	7.17	11.1
17	0.303	42.09	28	7.72	7.7
18	0.311	23.02	10	7.182	8.7
19	0.32	21.04	13	7.463	11.5
20	0.299	22.99	10	7.454	12
21	0.347	20.64	25	7.461	25
22	0.456	34.87	12	7.984	13
23	0.32	23.07	13	7.669	13.8
24	0.309	20.79	22	7.108	13.8
25	0.314	36.05	10	7.559	14.1
26	0.318	38.32	7	6.894	13.1
27	0.324	23.13	11	7.205	12.4
28	0.318	21.38	11	7.37	12.7
29	0.305	21.62	27	7.469	12.9
30	0.292	32.25	9	7.496	12.2
31	0.28	22.13	9	7.46	12

Max

Daily Laboratory Testing

2012

Site:	Clarifiers			Filtered			
	#1			#1			
March	Turbidity	Color	pH	Turbidity	pH	Alum.	
	NTU	PtCo		NTU			
1	0.286	3	7.407	0.113	6.991	0.019	
2	0.263	2	7.523	0.088	7.277		
3							
4	0.5	4		0.154			
5	0.215	2	7.348	0.071	7.133		
6	0.401	11	7.278	0.067	7.306		
7	0.237	1	7.516	0.073	7.594		
8	0.375	4	7.231	0.065	7.45		
9	0.319	4	7.409	0.066	7.324		
10	0.308	8	7.71	0.067	7.45		
11	0.227	8	7.57	0.076	7.84		
12	0.252	7	7.249	0.064	7.245		
13	0.317	7	7.11	0.064	7.117		
14	0.315	15	7.386	0.069	7.201		
15	0.316	5	6.974	0.09	7.104		
16	0.243	3	7.281	0.097	7.265	0.015	
17	0.25	13	7.9	0.074	7.91		
18	0.217	5	7.79	0.121	7.942		
19	0.332	6	7.084	0.066	6.954		
20	0.368	6	6.959	0.078	7.139		
21	0.225	4	7.032	0.072	7.195		
22	0.296	7	7.357	0.081	7.438		
23				0.134	7.175	0.028	
24	0.24	7	7.63	0.114	7.641		
25	0.232	7	7.568	0.085	7.869		
26	0.229	2	7.824	0.071	7.89		
27	0.251	4	7.166	0.073	7.171		
28							
29	0.221	7	7.256	0.072	7.233	0.016	
30	0.266	6	7.28	0.074	7.272		
31	0.222	5	7.32	0.088	7.33		

Daily Laboratory Testing

2012

Site:	Clarifiers			Filtered		
	#2			#2		
March	Turbidity	Color	pH	Turbidity	pH	Alum.
	NTU	PtCo		NTU		
1	0.338	6		0.155		
2	0.185	1		0.082		
3	0.176	0	8.268	0.082	8.115	
4	0.166	1	8.198	0.068	8.192	
5	0.139	1		0.06		
6	0.258	5		0.071		
7	0.208	1		0.063		
8	0.205	0		0.066		
9	0.275	3		0.065		0.016
10	0.186	6		0.072		
11	0.168	8		0.068		
12	0.208	6		0.096		
13	0.228	3		0.071		
14	0.234	4		0.074		
15	0.306	3		0.07		
16	0.216	1		0.072		
17	0.184	123		0.075		
18	0.448	3		0.078		
19	0.206	3		0.099		
20						
21	0.211	3		0.088		
22	0.173	7		0.083		
23				0.102		
24	0.217	6		0.109		
25	0.173	4		0.112		
26	0.175	0		0.074		
27	0.143	4		0.074		
28	0.225	1	7.126	0.079	7.329	
29	0.215	5		0.074		
30	0.277	3		0.085		
31	0.16	5		0.071		

Daily Laboratory Testing

2012

Site:	Clarifiers				Filtered		
	#3				#3		
March	Turbidity	Color	pH	Turbidity	pH	Alum.	
	NTU	PtCo		NTU			
	1						
	2						
	3						
	4						
	5						
	6						
	7						
	8						
	9						
	10						
	11						
	12						
	13						
	14						
	15						
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						
	26						
	27						
	28						
	29						
	30						
	31						

Daily Laboratory Testing

2012

Site: Clearwell

March	Turbidity	pH	Tempt.
	NTU		°C
1	0.187	7.608	11.8
2	0.102	7.629	10.9
3	0.085	8.485	8
4	0.109	8.407	7.4
5	0.07	7.579	13.7
6	0.096	7.906	9.2
7	0.086	7.792	7.9
8	0.076	7.779	8.9
9	0.094	7.603	9.5
10	0.176	7.95	10.9
11	0.089	7.89	7.5
12	0.098	7.843	10.4
13	0.11	7.765	13.5
14	0.091	7.849	11.2
15	0.086	7.313	10.1
16	0.09	7.623	10.3
17	0.099	8.28	8.7
18	0.101	8.127	9.9
19	0.097	7.483	11.4
20	0.1	7.618	11.1
21	0.105	7.425	13.3
22	0.101	7.788	15.9
23	0.122	7.577	12.4
24	0.93	7.666	14.4
25	0.097	7.877	14
26	0.118	8.123	11.4
27	0.1	7.751	11.8
28	0.0117	7.676	14
29	0.09	7.601	11.4
30	0.119	7.61	11.1
31	0.097	7.64	10.9

Site: 100 Foot Sample Line - EFF

March	Turbidity NTU	pH	Mono/ Free Am	Color/ Hardness	Total Chlorine	free	Alk/P	Calcium/ mg/L	Conductivity uS/CM
			mg/L	PtCo/mg/L	mg/L	mg/L	Alk/T mg/L		
1	0.099	7.143	2.46/0	1/20.25	3.14	0.46	0/34.32	19.83	307
2	0.092	7.105	2.41/0	0/	3.3	0.53	0/41.01		310.4
3	0.081	8.742	2.30/0	0/	2.96	0.36	4856/36.66		304.3
4	0.13	9.592	2.52/0	0/	3.02	0.36	2.72/40.9		315
5	0.064	7.197	2.05/0	0/	3.24	0.58	0/43.49		312.6
6	0.097	7.352	2.55/0	3/	3.1	0.44	0/44.68		314
7	0.077	7.841	2.48/0	0/	3.06	0.32	0/35.38		316.2
8	0.085	9.275	2.32/0	0/	3.02	0.36	17.73/44.36		311.4
9	0.09	7.315	2.67/0	1/	3.24	0.37	0/43.72		309.5
10	0.091	7.62	2.70/0	1/	3.02	0.38	0/35.81		306.3
11	0.075	8.7	2.83/0	2/	2.9	0.32	1.84/38.65		304.6
12	0.085	7.237	2.40/0	1/	3.12	0.35	0/35.21		311.4
13	0.089	7.54	1.93/0	5/	3	0.41	0/44.8		301.3
14	0.087	9.208	2.81/0	2/	2.76	0.59	8.309/35.62		304.62
15	0.074	7.743	2.49/0	3/	2.86	0.34	0/44.82		309.3
16	0.08	9.426	2.24/0	0/	2.62	0.35	8.217/32.25		307.3
17	0.086	9.12	2.44/0	3/	2.92	0.46	10.61/51.84		312.4
18	0.1	7.912	2.56/0	0/	2.92	0.38	0/42.71		309
19	0.12	7.225	2.65/0	2/	2.88	0.39	0/38.42		307.8
20	0.087	8.017	2.53/0.03	0/	2.8	0.4	0/35.3		303.7
21	0.099	7.334	2.51/0.04	0/	2.66	0.48	0/36.69		303.3
22	0.161	7.753	2.70/0	1/	2.24	0.28	0/36.77		300.7
23	0.112	8.026	2.57/0	0/12.94	2.7	0.32	0/43.84	19.11	303.6
24	0.101	7.972	2.11/0	0/	2.76	0.35	0/43.13		302.7
25	0.108	8.962	2.62/0	2/	2.7	0.24	1.943/34.07		302
26	0.096	9.504	2.46/0.01	2/	2.64	0.31	10.34/37.61		304.6
27	0.1	8.666	2.55/0.01	0/	2.94	0.63	14.59/42.87		303.5
28	0.088	8.817	2.48/0	0/	2.62	0.32	13.22/45.35		301.2
29	0.089	7.432	2.27/0.08	3/	2.62	0.36	0/45.46		305.5
30	0.098	7.866	2.59/0	0/	2.62	0.46	0/34.59		304.8
31	0.083	8.75	2.67/0	1/	2.84	0.28	4.27/38.84		303.3

Daily Laboratory Testing 2012

Site: Raw

April	Turbidity NTU	Alk/T mg/L	Color PtCo	pH	Tempt. °C
1	0.314	23.07	10	7.22	11.8
2	0.287	32.62	17	7.484	13.3
3	0.347	21.19	11	6.913	12
4	0.275	24.38	10	7.585	13.1
5	0.286	31.85	9	7.613	12.8
6	0.269	22.66	10	7.558	12.6
7	0.327	34.07	10	7.499	12.1
8	0.292	19.27	12	6.745	12.2
9	0.278	31.96	12	7.506	13.1
10	0.272	31.84	8	7.418	13.1
11	0.318	32.34	10	7.415	13.3
12	0.295	32.2	11	7.697	13.5
13	0.288	22.95	10	7.602	16.1
14	0.292	32.67	9	7.101	13.2
15	0.285	31.98	4	6.934	14
16	0.306	33.08	10	7.435	15.9
17	0.385	21.8	11	7.494	17.7
18	0.337	33.16	12	7.566	16.2
19	0.366	32.92	11	7.855	16.6
20	0.38	23.59	8	7.585	17
21	0.401	32.57	9	7.34	17.8
22	0.438	21.98	15	7.06	18.3
23	0.526	21	19	7.183	15.3
24	0.899	22.2	18	7.477	16.5
25	1.26	22.69	38	7.381	15.3
26	1.05	21.32	30	7.584	16.6
27	0.98	18.89	30	7.266	16.5
28	1.06	18.13	28	7.072	15.3
29	0.982	17.96	28	6.971	17.7
30	1.02	16.52	28	6.894	15.8
31					

Max

Daily Laboratory Testing

2012

Site:	Clarifiers			Filtered		
	#1			#1		
April	Turbidity	Color	pH	Turbidity	pH	Alum.
	NTU	PtCo		NTU		
1	0.24	7	7.2	0.091	7.28	
2	0.325	13	7.272	0.096	7.347	
3	0.27	8	7.299	0.13	7.365	
4	0.279	7	7.308	0.068	7.264	0.02
5	0.189	3	7.318	0.07	7.297	
6	0.315	7				
7	0.235	4	7.347	0.079	7.32	
8	0.282	5	7.333	0.068	7.319	
9						
10	0.219	5	7.28	0.079	7.269	
11	0.2	9	7.336	0.078	7.336	
12	0.209	5	7.347	0.073	7.314	0.038
13	0.226	6	7.361	0.078	7.358	
14	0.28	6	7.369	0.107	7.424	
15						
16	0.358	4	7.298	0.082	7.348	
17						
18	0.286	5	7.341	0.077	7.34	
19	0.47	7	7.412	0.106	7.448	0.055
20						
21	0.248	3	7.37	0.087	7.36	
22	0.198	9	7.39	0.095	7.35	
23	0.35	9	7.261	0.091	7.24	
24	0.342	6	7.289	0.085	7.276	
25	0.282	10	7.292	0.093	7.328	
26	0.863	19	6.919	0.077	6.927	
27						
28	0.817	17	6.964	0.084	6.886	
29	0.991	22	6.943	0.135	6.951	
30	1.14	25		0.112		
31						

**Daily Laboratory Testing
2012**

Site:	Clarifiers		Filtered			
	#2		#2			
April	Turbidity	Color	pH	Turbidity	pH	Alum.
	NTU	PtCo		NTU		
1	0.173	5		0.081		
2	0.221	11		0.073		
3	0.19			0.102		
4	0.144	9		0.079		
5						
6	0.262	5	7.348	0.085	7.341	
7						
8	0.156	4		0.068		
9	0.217	4	7.321	0.072	7.292	
10	0.179	2		0.075		
11						
12	0.156	4		0.074		
13	0.164	4		0.075		
14	0.197	3		0.105		
15	0.208	2	7.322	0.094	7.334	
16	0.136	2		0.078		
17	0.218	6	7.324	0.077	7.318	
18	0.165	5		0.075		
19	0.219	3		0.081		
20	0.377	0	7.392	0.088	7.422	
21						
22						
23						
24						
25						
26	0.965	29	6.849	0.417	6.883	0.09
27						
28						
29						
30						
31						

**Daily Laboratory Testing
2012**

Site: Clarifiers Filtered

April	#3	Color	pH	#3	pH	Alum.
	Turbidity NTU			Turbidity NTU		
	1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21	0.196	0	0.093		
	22	0.189	8	0.128		
	23	0.165	3	0.076		
	24	0.211	9	0.094		
	25	0.24	8	0.082		
	26	0.405	10	0.345		
	27					
	28					
	29	0.396	8	0.101		
	30	0.813	11	0.09	6.891	
	31					

**Daily Laboratory Testing
2012**

Site: Clearwell

April	Turbidity	pH	Tempt.
	NTU		°C
1	0.101	7.62	10.5
2	0.11	7.586	12.8
3	0.098	7.658	11.1
4	0.114	7.592	13.1
5	0.101	7.619	12.2
6	0.092	7.635	13
7	0.98	7.676	12.5
8	0.126	7.648	11.8
9	0.087	7.603	12.3
10	0.1	7.604	12
11	0.101	7.652	13.6
12	0.088	7.695	12.2
13	0.095	7.728	12.7
14	0.095	7.694	13
15	0.091	7.641	13.4
16	0.093	7.649	15.3
17	0.089	7.623	15.8
18	0.086	7.682	14.4
19	0.092	7.679	15.6
20	0.113	7.763	16.4
21	0.108	7.71	17.3
22	0.135	7.66	18.2
23	0.123	7.584	13.7
24	0.104	7.574	15.5
25	0.125	7.63	15.5
26	0.216	7.121	15.8
27	0.19	7.214	16.1
28	0.071	7.229	18.6
29	0.238	7.196	18.5
30	0.108	7.172	15.5
31			

Daily Laboratory Testing 2012

Site: Raw

May	Turbidity	Alk/T	Color	pH	Tempt.
	NTU	mg/L	PtCo		°C
1	1.04	18.32	26	7.104	15.9
2	0.936	17.73	27	7.183	15.9
3	0.971	19.5	31	7.17	15.7
4	1.05	18.57	30	7.202	15.8
5	1.09	36.49	28	7.06	16.3
6	1.07	36.18	38	6.96	15.9
7	1.01	18.47	29	7.223	16.8
8	1.05	18.4	27	7.276	17
9	1.05	18.39	32	7.197	16.5
10	0.715	18	32	7.291	16.5
11	0.968	18.55	31	7.262	17.5
12	1.03	18.3	30	7.03	16.5
13	1.06	18.74	32	6.99	17.5
14	0.996	20.01	35	7.292	20.01
15	1.12	18.73	32	7.12	18.2
16	1.39	19.3	40	6.962	18.2
17	1.08	19.99	36	7.414	18.1
18	1.08	19.5	30	7.232	18.9
19	1.1	17.19	34	6.828	18.2
20	1	20.25	31	6.789	18.9
21	0.992	19.21	35	7.229	19.7
22	0.968	19.3	26	7.207	20
23	1.17	19.95	33	7.198	19.5
24	1.07	19.59	36	7.107	19.8
25	1.44	18.82	33	6.877	20.8
26	1.19	20.67	36	6.937	19.6
27	1.16	19.05	38	6.698	19.05
28	1.22	19.68	34	6.819	19.7
29	1.03	19.42	35	7.097	19.42
30	1.04	19.98	32	7.079	21.3
31	1.13	20.81	27	7.082	21.7

Max

Daily Laboratory Testing

2012

Site:	Clarifiers		Filtered			
	#1		#1			
May	Turbidity	Color	pH	Turbidity	pH	Alum.
	NTU	PtCo		NTU		
1						
2						
3	1.1	19	6.29	0.113	6.504	0.017
4						
5			6.23		6.29	
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
29						
30						
31						

**Daily Laboratory Testing
2012**

Site:	Clarifiers			Filtered			
	#2			#2			
May	Turbidity	Color	pH	Turbidity	pH		Alum.
	NTU	PtCo		NTU			
	1	1.02	18	6.898	0.458	6.884	
	2	0.483	7	6.361	0.113	6.597	
	3						
	4	0.64	9	6.282	0.125	6.292	
	5						
	6	0.407	16	6.25	0.144	6.28	
	7						
	8	0.712	1	6.321	0.123	6.311	
	9	0.488	10	6.306	0.094	6.289	
	10	0.687	12	6.315	0.101	6.309	
	11	0.624	12	6.327	0.096	6.328	0.017
	12	0.611	10	6.32	0.102	6.32	
	13	0.583	10	6.31	0.105	6.29	
	14						
	15	0.404	10	6.33	0.106	6.29	
	16						
	17	0.923	13	6.288	0.103	6.3	0.02
	18	0.698	16	6.34	0.112	6.328	
	19						
	20	0.55	8	6.406	0.129	6.34	
	21	0.889	18	6.317	0.152	6.297	
	22	0.594	7	6.339	0.174	6.346	
	23	0.515	7	6.46	0.168	6.421	
	24	0.668	12	6.475	0.181	6.463	0.02
	25	0.713	11	6.458	0.233	6.513	
	26	0.681	11	6.495	0.173	6.444	
	27	0.935	66	6.452	0.184	6.466	
	28	0.528	10	6.484	0.215	6.429	
	29	0.791	17	6.473	0.151	6.451	
	30	0.837	21	6.459	0.141	6.447	
	31	0.603	15	6.472	0.139	6.465	

**Daily Laboratory Testing
2012**

Site:	Clarifiers			Filtered		
	#3			#3		
May	Turbidity	Color	pH	Turbidity	pH	Alum.
	NTU	PtCo		NTU		
	1	0.475	6	0.093		
	2	0.508	5	0.1		
	3	0.482	7	0.089		
	4	0.642	5	0.111		
	5	0.437	3	0.186		
	6	0.257	6			
	7	0.588	8	6.315	0.095	6.301
	8	0.572	4	0.118		
	9	0.545	8	0.085		
	10					
	11	0.754	9	0.085		
	12	0.528	12	0.9		
	13	0.494	9	0.099		
	14	0.467	11	6.323	0.098	6.316
	15	0.493	9	0.097		
	16	0.665	14	6.314	0.096	6.314
	17					
	18	0.368	3	0.115		
	19	0.483	9	6.337	0.063	6.319
	20	0.618	7	0.085		
	21	0.444	8	0.139		
	22	0.625	9	0.17		
	23	0.462	6	0.169		
	24	0.712	18	0.178		
	25	0.505	10	0.184		
	26	0.615	9	0.175		
	27	0.648	9	0.183		
	28	0.552	10	0.0173		
	29	0.488	11	0.143		
	30	0.462	6	0.142		
	31	0.617	11	0.154		

Daily Laboratory Testing 2012

Site: Clearwell

May	Turbidity NTU	pH	Tempt. °C
1	0.207	7.149	16.1
2	0.197	7.149	15
3	0.113	6.547	15
4	0.118	6.524	14.8
5	0.117	6.5	16.4
6	0.133	6.53	15.9
7	0.103	6.528	15.5
8	0.111	6.523	16
9	0.095	6.501	15.5
10	0.102	6.514	16.3
11	0.096	6.541	16.9
12	0.11	6.54	16.2
13	0.108	6.51	17
14	0.091	6.519	17.6
15	0.124	6.51	17.3
16	0.108	6.523	17.4
17	0.111	6.495	17.4
18	0.112	6.53	18.4
19	0.094	6.591	19.3
20	0.079	6.543	19.4
21	0.153	6.567	19.5
22	0.185	6.592	20.6
23	0.177	6.634	19
24	0.18	6.689	19.5
25	0.198	6.722	21
26	0.188	6.674	18.9
27	0.197	6.617	19.1
28	0.176	6.66	19.4
29	0.149	6.642	20.5
30	0.154	6.651	21.5
31	0.168	6.661	21.1

Site: 100 Foot Sample Line - EFF

May	Turbidity NTU	pH	Mono/ Free Am	Color/ Hardness	Total Chlorine	free	Alk/P	Calcium/ mg/L	Conductivity uS/CM
			mg/L	PtCo/mg/L	mg/L	mg/L	Alk/T mg/L		
1	0.172	7.536	2.21/0	0/	2.46	0.71	0/44.73		251.5
2	0.172	7.307	2.61/0	3/	2.84	0.44	0/45.8		252.9
3	0.13	9.139	2.55/0	0/28.88	2.74	0.5	15.31/38.56	28.88	242.5
4	0.13	8.667	2.55/0	0/	2.72	0.36	2.647/38.76		246.3
5	0.138	7.25	2.55/0	0/	2.55	0.63	0/33.3		245.5
6	0.149	8.85	2.56/0	2/	2.45	0	4.6/40.00		246.1
7	0.132	7.466	2.61/0	3/	2.62	0.48	0/39.25		247
8	0.127	9.348	2.27/0.04	0/	2.64	0.72	16.72/39.21		244.9
9	0.09	7.578	2.44/0.06	1/	2.6	0.69	0/31.27		247.5
10	0.097	7.581	2.44/0.04	2/	2.4	0.45	0/37.47		245.3
11	0.094	7.523	2.47/0.05	2/	2.58	0.53	0/40.8		245.4
12	0.126	9.02	2.33/.09	1/	2.5	0.34	7.16/39.61		241.8
13	0.103	7.79	2.58/0	1/	2.62	0.36	0/32.02		245
14	0.096	8.693	2.52/0	2/	2.62	0.51	2.641/30.57		244.2
15	0.097	7.66	2.37/0	1/	2.64	0.49	0/39.62		240.5
16	0.122	7.493	2.51/0.03	2/	2.58	0.54	0/37.03		245.9
17	0.126	8.485	2.45/0.07	0/28.6	2.62	0.38	.9605/30.69	21.8	245.4
18	0.136	8.254	2.67/0	0/	2.82	0.36	0/39.81		247.7
19	0.085	7.735	2.53/0.08	2	2.64	0.2	0/35.81		246.8
20	0.15	8.231	2.78/0	0/	2.92	0.14	0/37.88		244.8
21	0.15	8.473	2.66/0	3/	2.86	0.55	1.321/39.67		247.1
22	0.184	8.114	2.86/0	0/	3	0.51	0/39.77		247
23	0.179	8.186	2.70/0	0/	2.98	0.56	0/41.21		245.7
24	0.178	7.027	2.28/0	2/	2.74	0.54	0/40.47		245.2
25	0.247	8.413	2.79/0	3/	3.11	0.12	.8077/40.53		243.5
26	0.173	8.123	2.74/0	1/	3	0.16	0/38.2		247.9
27	0.188	7.037	2.69/0	0/	2.86	0.24	0/41.95		246.1
28	0.176	8.145	2.52/0	0/	3.06	0.24	0/38.95		244.6
29	0.145	8.107	2.40/0.01	2/	2.7	0.48	0/30.26		244.9
30	0.146	8.234	2.71/0.01	0/	2.84	0.88	0/41.8		249.4
31	0.139	8.149	2.70/0.03	0/	2.82	0.53	0/42.37		245.7

Daily Laboratory Testing 2012

Site: Raw

June	Turbidity NTU	Alk/T mg/L	Color PtCo	pH	Tempt. °C
1	1.07	19.97	29	7.078	22
2	1.18	19.57	39	6.89	21.4
3	1.21	19.51	38	6.85	21.4
4	1.41	19.91	34	7.096	21.3
5	1.66	20.19	37	7.106	20.9
6	1.09	21.1	36	7.105	20.6
7	0.663	32.75	21	7.506	20.7
8	0.49	32.22	13	7.432	20.8
9	0.562	32.06	18	7.47	21.1
10	0.544	31.8	18	7.39	21.8
11	0.433	22.63	15	7.849	21.7
12	0.467	23.78	13	7.531	23.2
13	0.471	32.17	14	7.34	22.3
14	0.436	25.2	13	7.486	22.6
15	0.45	32.03	12	7.424	22.5
16	0.397	39.57	22	7.14	22.4
17	0.442	43.54	5	7.22	22
18	0.488	32.29	12	7.658	22.8
19	0.478	32.38	15	7.618	22
20	0.572	26.4	16	7.39	22.3
21	0.556	33.84	17	8.043	22.5
22	0.597	33.61	17	8.123	22.9
23	0.584	32.4	19	7.45	22.7
24	0.56	32.71	17	7.21	24.5
25	0.237	32.98	19	7.64	24.8
26	0.591	22.21	15	7.545	23.7
27	0.449	22.55	13	7.597	22.8
28	0.482	23.7	16	7.559	23.81
29	0.544	21.63	13	7.512	23.2
30	0.58	31.84	12	7.157	24.3
31					

Max

Daily Laboratory Testing

2012

Site:	Clarifiers			Filtered		
	#1			#1		
June	Turbidity	Color	pH	Turbidity	pH	Alum.
	NTU	PtCo		NTU		
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12	0.273	5	6.877	0.096	6.826	
13	0.488	6	6.892	0.097	6.845	
14	0.338	6	6.805	0.081	6.797	0.026
15	0.284	4	6.854	0.101	6.842	
16	0.224	11	6.84	0.126	6.84	
17	0.263	7	6.89	0.109	6.9	
18	0.345	4	6.968	0.112	6.893	
19	0.347	3	6.881	0.093	6.955	
20	0.303	8	6.98	0.136	6.91	
21	0.307	8	6.957	0.095	6.95	0.159
22	0.366	7	7.013	0.098	6.945	
23	0.454	11	6.95	0.122	6.92	
24	0.275	6	6.81	0.101	6.84	
25						
26	0.292	5	6.858	0.088	6.874	
27	0.361	5	6.864	0.086	6.859	
29	0.304	3	6.864	0.093	6.851	0.017
30	0.425	3	6.85	0.104	6.85	
31						

**Daily Laboratory Testing
2012**

Site:	Clarifiers			Filtered		
	#2			#2		
June	Turbidity	Color	pH	Turbidity	pH	Alum.
	NTU	PtCo		NTU		
	1	0.758	7	6.462	0.145	6.457
	2	1.07	13	6.46	0.189	6.46
	3	0.838	11	6.43	0.143	6.42
	4	0.641	12	6.49	0.122	6.48
	5	0.751	22	6.483	0.109	6.494
	6					
	7	0.45	10	6.829	0.154	6.746
	8	0.352	4	6.822	0.134	6.805
	9	0.315	8	6.89	0.15	6.86
	10					
	11	0.292	7	6.949	0.113	6.921
	12	0.257	3		0.099	
	13	0.244	1		0.091	
	14	0.182	4		0.09	
	15	0.194	1		0.089	
	16	0.264	11		0.121	
	17	0.257	7		0.117	
	18	0.254	2		0.114	
	19					
	20	0.228	6		0.097	
	21	0.201	5		0.097	
	22	0.204	4		0.11	
	23	0.269	6		0.127	
	24	0.2	5		0.092	
	25	0.293	7	6.906	0.113	6.89
	26	0.185	3		0.1	
	27	0.2	3		0.103	
	28	0.275	3	6.861	0.091	6.834
	29					
	30	0.23	3		0.134	
	31					

Daily Laboratory Testing

2012

Site:	Clarifiers			Filtered		
	#3			#3		
June	Turbidity	Color	pH	Turbidity	pH	Alum.
	NTU	PtCo		NTU		
	1	0.56	6	0.133		
	2	0.465	11	0.146		
	3	0.999	11	0.116		
	4	0.403	9	0.117		
	5	0.366	10	0.098		
	6	0.434	7	0.106	6.484	
	7	0.242	4	0.134		
	8	0.296	4	0.135		
	9	0.278	8	0.129		
	10	0.179	8	0.098	6.85	
	11	0.227	5	0.097		
	12	0.214	4			
	13					
	14	0.174	5	0.076		
	15					
	16	0.202	12	0.12		
	17	0.235	5	0.1		
	18	0.275	3	0.095		
	19	0.274	1	0.092		
	20					
	21	0.302	6	0.095		
	22	0.303	5	0.113		
	23	0.339	8	0.09		
	24	0.224	5	0.085		
	25	0.206	3	0.101		
	26	0.209	2	0.097		
	27	0.367	6	0.088		
	28	0.193	4	0.097		
	29	0.399	4	0.109		
	30	0.32	4	0.107		
	31					

Daily Laboratory Testing 2012

Site: Clearwell

June	Turbidity NTU	pH	Tempt. °C
1	0.154	6.655	21.9
2	0.166	6.66	21.4
3	0.138	6.63	20.4
4	0.136	6.695	21
5	0.126	6.695	20.06
6	0.119	6.675	20
7	0.205	6.809	18.6
8	0.171	7.037	19.9
9	0.131	7.07	20.9
10	0.184	7.11	20.7
11	0.121	7.147	21.4
12	0.161	7.087	22
13	0.144	7.027	21.3
14	0.168	6.997	22.3
15	0.125	7.05	22.1
16	0.142	7.12	22
17	0.151	7.13	21.8
18	0.13	7.116	22.7
19	0.111	7.131	21.6
20	0.98	7.145	22.4
21	0.121	6.95	22.6
22	0.129	7.246	22.9
23	0.123	7.18	23.1
24	0.128	7.08	24.5
25	0.124	7.108	24.8
26	0.12	7.023	24.1
27	0.137	7.049	23.1
28	0.115	7.014	23.2
29	0.115	7.031	23.1
30	0.133	7.07	24.2
31			

Site: 100 Foot Sample Line - EFF

June	Turbidity NTU	pH	Mono/ Free Am	Color/ Hardness	Total Chlorine	free	Alk/P		Calcium/ mg/L	Conductivity uS/CM
			mg/L	PtCo/mg/L	mg/L	mg/L	Alk/T	mg/L		
1	0.152	8.133	2.62/0.02	0/	2.76	0.65				
2	0.159	8.15	2.59/.04	3/	3.02	0.16	0/42.12			245.6
3	0.132	8.23	2.54/.02	1/	2.76	0.14	0/41.87			242.9
4	0.131	8.477	2.55/0.02	2/	2.64	0.45	0/42.84			242.1
5	0.171	8.419	2.65/0	1/	2.68	0.45	1.457/42.4			245.1
6	0.117	7.361	2.14/0	3/	2.7	0.29	.9386/42.12			245
7	0.24	8.417	1.89/0.14	11/	2.1	0.51	0/42.46			245.9
8	0.146	9.101	2.51/0	4/	2.94	0.71	.431/34.38			308.1
9	0.13	7.76	2.58/0	3/	3.24	0.23	5.718/33.78			298.5
10	0.158	8.91	2.60/0	0/	2.92	0.54	0/35.28			298.8
11	0.119	8.773	2.48/0	2/38.17	2.76	0.74	4.6/33.75			296.4
12	0.132	8.342	2.70/0	0/	2.96	0.63	3.935/33.95	10.67		295.7
13	0.103	8.32	2.58/0	2/	2.88	0.56	1.822/42.18			298.1
14	0.109	8.766	2.44/0.05	0/	2.6	0.49	.1478/34.54			298.5
15	0.103	9.22	2.88/0	0/	3.02	0.71	9.739/39.71			295.9
16	0.136	8.29	2.86/0	3/	3.08	0.79	7.944/33.96			296.3
17	0.134	8.71	2.84/0	0/	3.04	0.7	2.74/44.55			289.7
18	0.121	8.723	2.67/0	0/	3.1	0.84	2.652/47.43			296.2
19	0.097	8.935	2.54/0	0/	2.9	0.55	2.149/34.7			298.5
20	0.122	9	2.48/0	0/	3.24	0.42	5.125/34.29			297.7
21	0.107	8.872	2.60/0	3/36.38	2.88	0.5	10.43/39.39			295.2
22	0.111	8.956	2.48/0	2/	2.86	0.65	4.82/34.52	20.63		297
23	0.108	8.82	2.79/0	2/	3.2	0.3	4.43/34.96			301.2
24	0.196	8.5	2.91/0	2/	3.26	0.32	5.85/35.05			297.3
25	0.108	8.701	2.87/0	2/	2.98	0.77	1.27/35.49			297.2
26	0.107	8.403	2.67/0	1/	2.96	0.66	2.963/34.93			297.4
27	0.099	8.488	2.73/0	2/	2.94	0.75	.6498/35.03			297.3
28	0.092	8.297	2.18/0	1/	2.6	0.87	1.659/35.72			297.3
29	0.109	8.486	2.39/0	0/	2.66	0.48	0/42.33			295.5
30	0.127	8.29	2.49/0	0/	3.22	0.22	3.274/42.74			295.4
31							0/34.53			296.9

**Daily Laboratory Testing
2012**

Site: Raw

July	Turbidity	Alk/T	Color	pH	Tempt.
	NTU	mg/L	PtCo		°C
1	0.524	21.55	12	7.12	25
2	0.645	33.96	18	7.379	25.1
3	0.621	32.15	17	7.393	25.7
4	0.538	32.72	16	7.04	25.4
5	0.524	32.99	16	7.56	24.8
6	0.597	40.96	20	7.15	24.4
7	0.654	39.96	15	7.2	25.8
8	0.647	39.99	25	7.1	25
9	0.598	33.45	17	7.309	25.6
10	0.542	32.35	8	7.278	24.4
11	0.525	23.48	16	7.324	25.9
12	0.497	33.77	13	7.46	25.5
13	0.533	34	20	7.176	26.1
14	0.466	32.21	14	7.08	26.9
15	0.499	23.1	15	7.26	26.6
16	0.627	25.04	16	7.2	26.7
17	0.5	33.53	8	7.257	26.6
18	0.476	33.64	14	7.288	26.2
19	0.509	22.79	21	7.51	26.3
20	0.52	32.59	16	7.281	26.2
21	0.537	32.54	15	6.96	26.1
22	0.451	23.16	13	7.33	25.3
23	0.448	33.59	14	7.107	25.6
24	0.5	23.3	16	7.119	26.5
25	0.469	33.89	14	7.268	24.6
26	0.465	32.67	15	7.059	25.1
27	0.455	34.2	10	7.293	25.6
28	0.555	40.44	27	7.01	25.1
29	0.479	41.78	11	6.9	24.7
30	0.552	22.76	15	7.263	24.2
31	0.502	32.4	17	7.347	26

Daily Laboratory Testing

2012

Site:	Clarifiers		Filtered			
	#1			#1		
July	Turbidity	Color	pH	Turbidity	pH	Alum.
	NTU	PtCo		NTU		
1	0.33	3	6.9	0.107	6.88	
2	0.32	4	6.881	0.112	6.834	
3	0.379	9	6.823	0.098	6.806	0.027
4	0.274	6	6.83	0.99	6.74	
5	0.368	5	6.85	0.93	6.78	
6	0.291	15	6.8	0.014	6.82	
7	0.317	8	6.8		6.77	
8	0.547	9	6.7		6.78	
9	0.256	4	6.837	0.099	6.811	
10	0.28	0	6.816	0.101	6.803	
11	0.637	14	6.656	0.081	6.652	
12	0.457	4	6.676	0.081	6.671	
13	0.349	4	6.661	0.083	6.646	
14	0.274	6	6.73	0.092	6.73	
15	0.424	8	6.81	0.071	6.69	
16						
17	0.314	1	6.743	0.077	6.736	
18						
19	0.496	11	6.803	0.095	6.759	
20	0.499	9	6.779	0.093	6.755	
21	0.3	7	6.73	0.101	6.73	
22	0.245	5	6.81	0.076	6.74	
23	0.355	7	6.812	0.092	6.824	
24	0.445	7	6.767	0.109	6.753	
25						
26	0.388	10	6.78	0.098	6.768	0.033
27	0.399	8	6.789	0.092	6.755	
28	0.474	25	6.75		6.74	
29			6.79		6.7	
30	0.253	9	6.822	0.093	6.757	
31						

**Daily Laboratory Testing
2012**

Site:	Clarifiers		Filtered			
	#2		#2			
July	Turbidity	Color	pH	Turbidity	pH	Alum.
	NTU	PtCo		NTU		
1	0.22	4		0.093		
2	0.25	2		0.101		
3	0.231	3		0.11		
4	0.202	4		0.108		
5	0.274	3		0.108		
6	0.225	6		0.117		
7	0.26	4		0.171		
8	0.233	3		0.135		
9						
10						
11						
12	0.195	0		0.071		0.119
13	0.438	8		0.068		0.025
14	0.348	5		0.083		0.029
15	0.259	6		0.087		
16	0.237	5	6.755	0.098	6.777	
17						
18	0.254	6	6.806	0.092	6.775	
19	0.249	6		0.093		
20	0.196	3		0.096		
21	0.319	7		0.085		
22	0.303	4		0.084		
23	0.202	3		0.088		
24	0.223	6		0.099		
25	0.279	8	6.77	0.098	6.835	
26	0.253	5		0.118		
27	0.216	2		0.094		
28	0.251	22		0.114		
29	0.26	7		0.096		
30	0.179	4		0.105		
31	0.188	7	6.816	0.089	6.814	

**Daily Laboratory Testing
2012**

Site: Clarifiers Filtered

July	#3		pH	#3		Alum.
	Turbidity	Color		Turbidity	pH	
	NTU	PtCo		NTU		
1	0.205	4		0.093		
2	0.279	3		0.104		
3	0.216	4		0.104		
4	0.271	6		0.94		
5						
6	0.23	6		0.225		
7	0.269	2		0.161		
8	0.193	4		0.097		
9	0.3	5		0.094		
10	0.254	0		0.097		
11	0.427	9		0.068		
12	0.391	4		0.067		
13	0.284	3		0.071		
14	0.189	5		0.081		
15	0.174	4		0.09		
16	0.333	0		0.095		
17	0.278	1		0.094		
18	0.41	7		0.109		
19	0.2	7		0.097		
20	0.19	6		0.093		
21	0.284	9		0.092		
22	0.255	3		0.145		
23	0.167	3		0.086		
24	0.227	5		0.099		
25	0.194	5		0.096		
26	0.338	4		0.094		
27	0.164	1		0.083		
28	0.207	15		0.116		
29	0.212	5		0.1		
30	0.228	4		0.085		
31	0.176	4		0.094		

**Daily Laboratory Testing
2012**

Site: Clearwell

July	Turbidity	pH	Tempt.
	NTU		°C
1	0.123	7.05	25.1
2	0.134	7.014	25.5
3	0.123	6.986	25.5
4	0.128	6.84	25.6
5	0.14	7.03	25.1
6	0.206	7	25
7	0.215	8.42	25.9
8	0.117	6.95	24.6
9	0.134	6.949	26
10	0.13	6.964	25.1
11	0.1	6.803	25.8
12	0.11	6.832	26
13	0.111	6.802	26
14	0.137	6.86	27.3
15	0.119	6.85	27
16	0.108	6.923	27.3
17	0.116	6.859	27.3
18	0.137	6.909	27.5
19	0.117	6.885	26.4
20	0.124	6.922	26.5
21	0.135	6.9	26.4
22	0.122	6.92	25.9
23	0.099	6.953	26.2
24	0.101	6.898	26.7
25	0.121	6.919	25
26	0.11	6.931	25.2
27	0.117	6.755	25.5
28	0.134	6.87	25.4
29	0.118	6.87	25.3
30	0.114	6.883	24.3
31	0.121	6.918	25.9

Site: 100 Foot Sample Line - EFF

July	Turbidity NTU	pH	Mono/ Free Am	Color/ Hardness	Total Chlorine	free	Alk/P	Calcium/ mg/L	Conductivity uS/CM
			mg/L	PtCo/mg/L	mg/L	mg/L	Alk/T mg/L		
1	0.108	8.42	2.58/0	0/	3.1	0.22	1.17/44.54		293.1
2	0.131	8.295	2.54/0	1/	2.82	0.65	0/34.84		295.6
3	0.118	8.4	2.34/0	1/36.29	2.68	0.58	.6114/35.26	11.90	294.6
4	0.102	8.35	2.39/0	1/	2.92	0.18	0.3/35.08		299.3
5	0.119	8.68	2.50/0	0/	3	0.22	2.0/34.85		300
6	0.138	8.63	2.50/0	2/	2.66	0.37	2.33/48.66		298.8
7	0.163	8.44	2.43/0	0/	2.78	0.6	2.43/0		298.9
8	0.103	8.35	2.51/0	0/	2.72	0.56	0.42/51.06		300.3
9	0.117	8.809	2.17/0.04	0/	2.44	0.49	4.262/35.73		302.1
10	0.106	8.657	2.15/0	0/	2.46	0.7	2.701/36.33		306.8
11	0.095	8.248	2.43/0	1/	2.58	0.52	0/37.18		304.1
12	0.095	8.468	2.37/0	0/	2.54	0.6	1.561/34.97		304.2
13	0.088	7.955	2.37/0	1/	2.56	0.48	0/35.91		335
14	0.096	8.61	2.57/0	1/	3.06	0.28	2.11/36.4		327
15	0.103	8.26	2.37/0	2/	3.18	0.42	0/36.44		330
16	0.129	7.811	2.07/0	0/	2.36	0.64	0/37.08		331
17	0.113	8.345	2.21/0	0/	2.6	0.72	0.3276/36.76		328
18	0.125	8.616	2.16/0	3/	2.64	0.81	2.625/36.48		328
19	0.103	8.58	2.34/0	4/	2.74	0.46	10.94/45.43		302.3
20	0.128	8.548	2.14/0.05	4/38.09	2.68	0.66	3.301/37.5	11.77	328
21	0.108	8.59	2.48/0	2/	3.06	0.32	1.98/36.73		329
22	0.108	8.63	2.56/0	1/	3.1	0.24	2.26/36.44		303
23	0.116	8.751	2.28/0	1/	2.52	0.22	3.115/37.14		331
24	0.118	8.729	2.41/0	2/	2.74	0.52	3.367/37.82		330
25	0.113	8.783	2.33/0	3/	2.6	0.59	3.471/34.54		305.1
26	0.113	8.521	2.54/0	2/	2.76	0.56	1.522/36.58		304.5
27	0.117	8.553	2.43/0	0/	2.64	0.79	1.779/35.81		303.6
28	0.139	8.45	2.40/0	6/	2.7	0.48	1.33/50.71		260.7
29	0.118	8.32	2.42/0	0/	2.9	0.36	0.13/48.92		302.6
30	0.112	8.217	2.34/0.03	3/	2.5	0.47	0/44.59		305.9
31	0.1	8.661	2.40/0.03	1/	2.58	0.54	2.63/35.34		330

Daily Laboratory Testing 2012

Site: Raw

Aug	Turbidity NTU	Alk/T mg/L	Color PtCo	pH	Tempt. °C
1	0.499	32.77	10	7.321	25.2
2	0.502	24.69	14	7.316	25.5
3	0.49	36.37	12	7.37	26.3
4	0.582	32.56	12	6.95	25.9
5	0.629	33.37	15	6.59	25.8
6	0.44	32.95	13	7.295	25.7
7	0.433	32.34	12	7.186	25.5
8	0.489	22.72	11	7.355	26.8
9	0.465	32.59	15	7.103	26.4
10	0.514	24.23	13	7.294	25.9
11	0.518	34	13	7.45	25.7
12	0.498	32.32	14	6.86	25.4
13	0.516	23.13	17	7.434	26
14	0.456	25.9	14	7.316	25.9
15	0.514	35.52	15	7.378	26.6
16	0.47	32.23	14	7.424	26.6
17	0.451	32.03	14	7.342	25.1
18	0.494	42.65	14	6.98	25.2
19	0.535	46.13	14	7.65	26.1
20	0.451	22.14	13	7.35	25.9
21	0.484	33.05	20	7.402	26
22	0.483	39.06	16	7.83	24.6
23	0.441	23.19	15	7.324	25.1
24	0.396	32.23	13	7.149	25.8
25	0.417	31.96	13	7.09	25.7
26	0.447	21.17	12	6.65	25.5
27	0.367	21.66	17	7.247	26.4
28	0.439	32.02	12	7.143	26
29	0.445	22.63	21	7.199	25.4
30	0.472	21.29	7	6.908	24.8
31	0.514	31.95	6	7.48	24.5

Daily Laboratory Testing

2012

Site:	Clarifiers		Filtered			Alum.
	#1		#1			
Aug	Turbidity	Color	pH	Turbidity	pH	
	NTU	PtCo		NTU		
1						
2	0.295	6	6.826	0.095	6.817	0.018
3	0.385	10	6.85	0.088	6.77	
4	0.249	6	6.71	0.109	6.7	
5						
6	0.389	6	6.878	0.096	6.851	
7	0.299	4	6.75	0.098	6.75	
8	0.302	3	6.745	0.095	6.749	
9	0.263	4	6.678	0.081	6.664	0.037
10	0.274	6	6.79	0.086	6.766	
11	0.279	3	6.9	0.088	6.85	
12	0.408	9				
13	0.216	9	6.797	0.09	6.797	
14	0.242	4	6.839	0.101	6.852	
15	0.23	8	6.803	0.102	6.799	
16	0.429	8	6.799		6.779	0.028
17	0.334	6	6.797	0.098	6.772	
18			6.86		6.88	
19	0.184	4	7	0.147	7.02	
20	0.404	5	6.76	0.089	6.772	
21	0.35	9	6.885	0.116	6.86	
22	0.409	8	7.339		7.222	
23	0.378	10	6.943	0.104	6.878	
24	0.327	11	6.54	0.081	6.552	0.044
25	0.197	5	6.57	0.117	6.54	
26	0.221	5	6.57	0.102	6.54	
27	0.183	9	6.581	0.092	6.569	
28	0.231	4	6.548	0.093	6.585	
29	0.406	9	6.583	0.091	6.583	
30	0.458	3	6.594	0.09	6.605	0.033
31	0.228	4	6.75	0.11	6.73	

**Daily Laboratory Testing
2012**

Site:	Clarifiers		Filtered			
	#2		#2			
Aug	Turbidity	Color	pH	Turbidity	pH	Alum.
	NTU	PtCo		NTU		
1	0.163	2	6.824	0.091	6.767	
2	0.282	3		0.094		
3	0.17	2		0.095		
4						
5	0.276	6	6.7	0.114	6.7	
6						
7	0.166	1		0.097		
8	0.239	2		0.09		
9	0.199	4		0.088		
10	0.213	4		0.1		
11						
12	0.355	6	6.82	0.093	6.8	
13						
14	0.197	3		0.119		
15	0.235	4		0.096		
16	0.381	5		0.101		
17	0.201	5		0.111		
18	0.187	5		0.096		
19	0.18	5		0.126		
20	0.172	8		0.096		
21	0.259	4		0.091		
22	0.192	6		0.09		
23	0.216	8		0.108		
24	0.184	5		0.085		
25	0.193	4		0.106		
26	0.159	4		0.098		
27	0.212	8		0.09		
28	0.199	4		0.092		
29	0.193	3		0.102		
30	0.202	0		0.109		
31	0.263	8		0.095		

**Daily Laboratory Testing
2012**

Site: Clarifiers Filtered

Aug	#3		pH	#3		Alum.
	Turbidity	Color		Turbidity	pH	
	NTU	PtCo		NTU		
1	0.231	1		0.088		
2	0.241	5		0.105		
3						
4	0.225	6		0.09		
5	0.101	5		0.106		
6	0.21	4		0.084		
7						
8						
9	0.292	6		0.092		
10	0.243	4		0.097		
11	0.246	4		0.085		
12	0.247	6		0.091		
13	0.248	8		0.103		
14	0.193	5		0.092		
15	0.21	3		0.091		
16	0.299	6		0.102		
17	0.303	4				
18	0.174	6		0.12		
19	0.266	6		0.144		
20	0.209	4		0.12		
21						
22	0.196	5		0.089		
23						
24	0.136	3		0.094		
25	0.186	4		0.11		
26	0.209	6		0.096		
27	0.186	5		0.08		
28	0.399	4		0.081		
29	0.196	8		0.101		
30	0.455	2		0.082		
31	0.388	4		0.098		

**Daily Laboratory Testing
2012**

Site: Clearwell

Aug	Turbidity	pH	Tempt.
	NTU		°C
1	0.089	6.917	25.2
2	0.125	6.958	25.8
3	0.102	6.88	26.3
4	0.115	6.82	25.4
5	0.133	6.85	26.5
6	0.127	6.994	26.5
7	0.118	6.893	25.9
8	0.114	6.909	26.7
9	0.102	6.847	27.1
10	0.103	6.917	26.8
11	0.125	6.98	26.8
12	0.172	7	26.6
13	0.134	6.927	26.6
14	0.15	6.989	25.7
15	0.13	6.945	26.7
16	0.134	6.947	26.7
17	0.131	6.923	25.9
18	0.126	7.03	26.6
19	0.144	7.15	26.3
20	0.113	6.899	26
21	0.118	6.983	26.1
22	0.117	7.293	25.5
23	0.115	7.001	25.3
24	0.119	6.71	26.1
25	0.109	6.73	26.1
26	0.112	6.71	25.9
27	0.106	6.72	25.9
28	0.157	6.716	25.8
29	0.124	6.732	25
30	0.123	6.77	24.3
31	0.11	6.92	24.6

Site: 100 Foot Sample Line - EFF

Aug	Turbidity NTU	pH	Mono/ Free Am	Color/ Hardness	Total Chlorine	free	Alk/P	Calcium/ mg/L	Conductivity uS/CM
			mg/L	PtCo/mg/L	mg/L	mg/L	Alk/T mg/L		
1	0.086	8.046	2.31/0.02	2/	2.46	0.53	0/35.94		304.2
2	0.108	8.713	2.37/0	1/	2.54	0.67	3.486/37.04		302.6
3	0.094	8.48	1.95/.01	1/	2.66	0.38	1.4/54.46		301.7
4	0.103	8.22	2.39/0	0/	2.39	0.47	0/36.1		306.4
5	0.106	8.167	2.33/0	2/	2.66	0.21	0/35.76		303.9
6	0.112	8.237	2.30/0	2/	2.58	0.48	0/36.13		302.7
7	0.099	8.798	2.47/0	0/	2.64	0.49	4.163/35.04		303.1
8	0.102	8.764	2.30/0	0/36.2	2.6	0.61	5.767/42.19	12	331
9	0.103	8.516	2.45/0	2/	2.72	0.54	1.654/35.94		333
10	0.106	8.507	2.43/0	2/	2.78	0.5	8.784/44.18		332
11	0.97	8.342	2.48/0	2/	2.86	0.49	0/36.6		332
12	0.105	8.56	2.44/0	5/	2.82	0.35	1.08/36.4		302.8
13	0.125	8.866	2.42/0	4/	2.7	0.64	4.599/36.08		330
14	0.125	8.888	2.35/0	2/	2.6	0.43	12.65/44.95		331
15	0.125	8.872	2.53/0	3/	2.72	0.57	4.017/36.25		330
16	0.127	8.678	2.42/0	2/35.34	2.68	0.54	2.701/36.95	11.62	329
17	0.116	8.797	2.37/0	2/	2.62	0.57	3.492/35.25		331
18	0.106	8.72	2.36/0	2/	2.72	0.34	2.05/48.48		303
19	0.151	8.9	2.28/0.03	2/	2.7	0.84	2.40/49.86		328
20	0.121	8.661	2.13/0	2/	2.44	0.65	11.64/44.79		330
21	0.113	8.991	2.36/0.02	1/	2.56	0.55	6.012/36.4		331
22	0.116	8.551	2.24/0.04	2/	2.52	0.56	2.226/36.61		344
23	0.102	8.776	2.22/0	2/	2.42	0.48	3.307/38.72		332
24	0.093	8.615	2.31/0	3/	2.68	0.53	2.859/35.46		342
25	0.102	8.68	2.35/.03	2/	2.66	0.16	11.2/44.8		330
26	0.094	8.7	2.35/0.03	1/	2.72	0.26	9.95/44.33		304.1
27	0.099	8.672	2.20/0.04	2/	2.52	0.47	13.02/45.16		333
28	0.099	8.575	1.83/0.01	1/	2.14	0.48	2.548/34.93		331
29	0.121	8.669	2.30/0	2/	2.46	0.63	11.53/43.45		306.5
30	0.1	8.785	2.43/0	0/	2.7	0.54	13.78/45.71		307
31	0.107	8.97	2.56/0	0/	3.04	0.32	4.95/35.95		304

Daily Laboratory Testing 2012

Site: Raw

Sept	Turbidity NTU	Alk/T mg/L	Color PtCo	pH	Tempt. °C
1	0.413	22.69	7	7.22	25.2
2	0.394	43	7.1	7.1	24.7
3	0.4	39.11	5	6.95	24.1
4	0.498	32.7	15	7.336	24.2
5	0.420	31.89	22	7.327	23.3
6	0.508	22.52	30	7.425	24.3
7	0.886	20.19	20	7.079	23
8	0.54	40.93	8	7.27	24.5
9	0.448	31.89	11	7.06	24.1
10	0.473	31.85	12	7.1	23.2
11	0.43	24.34	12	7.194	21.9
12	0.417	32.1	8	7.347	22.7
13	0.425	32.55	10	8.377	22.6
14	0.437	22.62	11	7.444	22.62
15	0.462	31.77	10	7.27	23
16	0.428	32.26	11	6.76	22.8
17	0.406	22.65	11	7.44	22.4
18	0.388	24.73	9	7.404	24.73
19	0.43	21.67	11	7.398	21.67
20	0.449	21	9	7.409	22.13
21	0.417	24	11	7.43	21.3
22	0.422	26	12	6.85	21.3
23	0.472		12	6.16	22.1
24	0.45	23	12	7.62	21.2
25	0.403	22.5	11	7.45	19.6
26	0.397	22	13	7.5	20.3
27	0.431	34.91	12	7.28	21
28	0.422	22.7	12	7.36	20.5
29	0.435		6	6.88	19.6
30	0.403		15	6.63	19.8
31					

Max

Daily Laboratory Testing

2012

Site:	Clarifiers			Filtered			
	#1			#1			
Sept	Turbidity	Color	pH	Turbidity	pH		Alum.
	NTU	PtCo		NTU			
1	0.306	3	6.79	0.089	6.78		
2	0.251	9	6.72	0.085	6.75		
3	0.204	4	6.74	0.081	6.8		
4	0.283	7	6.787	0.101	6.779		
5	0.278	7	6.747	0.135	6.75		
6	0.491	9	6.762	0.16	6.766		
7	0.332	7	6.843	0.185	6.855		0.024
8	0.212	4	6.67	0.204	6.79		
9	0.259	6	9.74	0.138	6.73		
10	0.315	4	6.74	0.118	6.76		
11	0.373	5	6.771	0.159	6.779		
12	0.31	1	6.766	0.143	6.746		
13							
14	0.31	3	6.793	0.155	6.812		0.027
15	0.276	5	6.68	0.166	6.75		
16	0.237	5	6.75	0.075	6.77		
17	0.304	10	6.77	0.068	6.74		
18	0.373	6	6.818	0.069	6.812		
19	0.287	5	6.829	0.081	6.809		
20							
21	0.366	7	6.47	0.075	6.54		0.027
22	0.387	9	6.81	0.082	6.83		
23	0.576	10	6.64	0.07	6.57		
24	0.433	9	5.85	0.104	6.11		
25	0.529	10	5.91	0.081	6.1		
26	0.368	7	6.84	0.074	6.83		
27	0.288	7	6.64	0.088	6.59		
28	0.402	8	6.7	0.076	6.667		
29	0.522	5	6.75	0.071	6.73		
30			6.76		6.78		
31							

**Daily Laboratory Testing
2012**

Site:	Clarifiers		Filtered			
	#2		#2			
Sept	Turbidity	Color	pH	Turbidity	pH	Alum.
	NTU	PtCo		NTU		
1	0.196	6		0.086		
2	0.204	15		0.099		
3	0.163	2		0.092		
4						
5	0.238	5		0.176		
6	0.281	9		0.161		
7	0.289	6		0.16		
8	0.138			0.114		
9	0.287	5		0.157		
10	0.277	5		0.125		
11	0.239	1		0.143		
12	0.308	0		0.154		
13	0.265	5	6.804	0.16	6.793	
14	0.373	2		0.162		
15	0.301	4		0.164		
16	0.237	5		0.086		
17	0.19	5		0.078		
18	0.24	3		0.081		
19	0.183	4		0.073		
20	0.303	8	6.791	0.087	6.761	
21	0.191	4		0.106		
22	0.255	4		0.09		
23	0.168	8		0.09		
24	0.244	7		0.098		
25	0.253	5		0.075		0.004
26	0.191	5		0.072		
27	0.324	8		0.071		
28	0.185	5		0.063		
29	0.195	2		0.072		
30	0.235	6		0.081		
31						

**Daily Laboratory Testing
2012**

Site: Clarifiers Filtered

Sept	#3		pH	#3		Alum.
	Turbidity	Color		Turbidity	pH	
	NTU	PtCo		NTU		
1	0.53	4		0.092		
2	0.425	7		0.1		
3	0.172	3		0.068		
4	0.228	8		0.083		
5	0.349	7		0.125		
6						
7	0.251	5		0.244		
8						
9						
10						
11						
12						
13	0.284	3		0.186		
14	0.262	1		0.152		
15	0.299	6		0.156		
16	0.237	5		0.086		
17						
18	0.197	2		0.064		
19	0.289	6		0.069		
20						
21	0.219	4		0.102		
22	0.216	3		0.1		
23	0.328	8		0.059		
24	0.275	6		0.076		
25	0.197	4		0.125		
26	0.414	8				
27	0.292	4		0.06		
28						
29						
30						
31						

**Daily Laboratory Testing
2012**

Site: Clearwell

Sept	Turbidity	pH	Tempt.
	NTU		°C
1	0.11	6.97	25.3
2	0.117	6.95	25
3	0.114	6.95	24.6
4	0.105	6.922	24.5
5	0.177	6.912	23.4
6	0.163	6.892	24.5
7	0.179	6.988	22.3
8	0.122	6.88	24.7
9	0.187	6.92	24.4
10	0.176	6.91	22.9
11	0.185	6.95	21.6
12	0.168	6.908	22.7
13	0.184	6.96	22.7
14	0.205	6.953	23.1
15	0.203	6.93	24.1
16	0.107	6.93	23.2
17	0.085	6.9	22
18	0.131	6.956	22.3
19	0.113	6.781	21.4
20	0.1	6.916	21.2
21	0.109	6.53	21.2
22	0.107	6.78	21.5
23	0.143	6.62	22.3
24	0.108	6.63	22.9
25	0.103	6.23	21
26	0.123	7.01	19.9
27	0.136	6.92	20.2
28	0.136	6.9	19.9
29	0.103	6.94	19.7
30	0.115	6.95	20.82
31			

Site: 100 Foot Sample Line - EFF

Sept	Turbidity NTU	pH	Mono/ Free Am	Color/ Hardness	Total Chlorine	free	Alk/P	Calcium/ mg/L	Conductivity uS/CM
			mg/L	PtCo/mg/L	mg/L	mg/L	Alk/T mg/L		
1	0.092	9.01	2.58/0	1/	2.96	0.24	13.53/44.81		303
2	0.117	8.93	2.45/0	2/	2.94	0.46	6.74/54.83		303.7
3	0.098	8.89	2.33/0	1/	3.04	0.96	3.89/48.81		303.6
4	0.092	8.949	2.28/0.06	3/	2.42	0.55	5.8/34.36		304.2
5	0.112	8.807	2.53/0	3/	2.8	0.52	4.577/35.5		304.3
6	0.177	8.659	2.48/0	7/	2.54	0.5	3.121/36.24		302.5
7	0.172	8.237	2.51/0	6/36.52	2.84	0.157	0/45.47	11.83	303.7
8	0.104	8.63	2.60/0	3/	2.73	0.53	2.32/50.93		304.7
9	0.156	8.77	2.37/0	3/	2.68	0.26	2.29/34.78		305.9
10	0.141	8.9	2.51/0	0/	2.76	0.25	3.37/34.34		304.9
11	0.176	8.799	2.47/0	2/	3.01	0.311	11.23/41.97		305.2
12	0.17	8.654	2.35/0	0/	2.64	0.243	1.548/34.35		303.9
13	0.163	8.808	2.27/0	1/	2.95	0.246	4.027/35.18		305.6
14	0.147	8.612	2.56/0	0/	2.64	0.183	2.319/34.86		304.6
15	0.174	8.52	2.59/.06	3/	2.96	0.321	1.58/33.97		302.8
16	0.1	8.45	2.56/.02	2/	2.85	0.226	0.88/34.39		302.5
17	0.086	8.82	2.44/0	1/	2.76	0.16	4.77/41.26		306
18	0.095	8.458	2.56/0	2/	2.88	0.45	7.808/39.57		304.9
19	0.077	8.423	2.35/0	1/	3.2	0.42	1.353/43.12		303.4
20	0.089	7.7	2.06/0	0/33.96	2.67	0.494	11.53/33.96		304.4
21	0.1	7.62	2.46/0	2/	3.22	0.119	0/40		
22	0.088	8.4	2.55/0	2/	2.92	0.12	0/38		
23	0.113	8.34	2.40/0	3/	2.7	0.3	0/36		
24	0.093	6.82	2.13/0	1/	2.63	0.187	0/40		
25	0.093	7.79	2.57/0	2/	2.67	0.258	0/32.5		
26	0.094	8.48	2.68/0	3/	2.46	0.118	0/31.5		
27	0.095	8.29	2.53/0	1/	3.25	0.21	0/34.25		307.2
28	0.088	8.46	2.43/0	0/	2.94	0.39	0.66/34.44		310.2
29	0.092	8.48	2.44/0	5/	3.08	0.01	1.26/45.87		304
30	0.096	8.1	2.47/0	0/	2.8	0.9	0/39.96		307.7
31									

*Note radiometer out of order 9/21-

no conductivity

Daily Laboratory Testing 2012

Site: Raw

Oct	Turbidity NTU	Alk/T mg/L	Color PtCo	pH	Tempt. °C
1	0.395	22.68	11	7.268	18.9
2	0.335	32.47	10	7.127	19.2
3	0.439	22.7	9	7.138	19.8
4	0.393	22.94	10	7.049	19.5
5	0.45	32.18	11	6.89	21.2
6	0.398	22.37	11	6.92	19.7
7	0.452	21.76	12	6.7	19.7
8	0.413	32.33	11	6.95	18.2
9	0.364	32.26	7	7.102	17.7
10	0.363	22.13	9	7.206	18.1
11	0.643	22.99	14	7.351	18.9
12	0.365	21.6	12	7.13	17.7
13	0.374	22.43	9	7.08	15.6
14	0.431	23.38	5	7.34	15.6
15	0.326	22.9	10	7.337	18
16	0.51	22.23	11	7.46	17.3
17	0.354	22.53	9	7.275	15.7
18	0.304	22.6	9	7.198	16.1
19	0.343	22.78	10	7.25	17.3
20	0.408	21.59	9	7.19	16.8
21	0.362	22.5	10	7.14	16.9
22	0.396	22.19	11	7.404	16.4
23	0.375	23.14	10	7.451	16.7
24	0.328	21.38	11	7.186	16.4
25	0.331	23.41	9	7.12	16.5
26	0.39	22.07	6	7.29	15.9
27	0.368	22.03	7	7.05	16.8
28	0.335	32.07	10	6.97	16
29	0.315	22.18	7	6.996	7
30	0.771	21.27	17	6.89	16.4
31	0.495	21.26	12	7.083	17.5

Max

Daily Laboratory Testing

2012

Site:	Clarifiers			Filtered			
	#1			#1			
Oct	Turbidity	Color	pH	Turbidity	pH	Alum.	
	NTU	PtCo		NTU			
1	0.436	8	6.751	0.065	6.713		
2	0.523	4	6.757	0.063	6.757		
3							
4	0.329	8	6.78	0.079	6.704	0.031	
5	0.392	7	6.62	0.081	6.63		
6	0.389	8	6.64	0.062	6.64		
7	0.445	8	6.67	0.074	6.67		
8	0.302	5	6.68	0.073	6.68		
9	0.339	2	6.659	0.079	6.675		
10	0.277	6	6.689	0.086	6.684		
11	0.453	8	6.737	0.082	6.708	0.037	
12	0.369	7	6.7	0.066	6.7		
13	0.345	8	6.73	0.064	6.9		
14	0.41	3	6.72	0.067	6.79		
15	0.55	8	6.773	0.068	6.761		
16	0.286	4	6.783	0.09	6.943		
17	0.331	8	6.754	0.08	6.762		
18	0.265	3	6.746	0.071	6.746	0.008	
19	0.223	8	6.64	0.07	6.74		
20	0.261	7	6.75	0.089	6.74		
21	0.41	4	6.79	0.103	6.95		
22	0.422	8	6.754	0.069	6.748		
23							
24	0.318	4	6.711	0.079	6.702		
25	0.553	8	6.745	0.09	6.735	0.008	
26	0.427	5	6.73	0.074	6.73		
27	0.419	4	6.74	0.081	6.74		
28	0.293	6	6.7	0.061	6.71		
29	0.433	6	6.741	0.071	6.725		
30	0.542	10	6.7	0.074	6.7		
31	0.477	9	6.73		6.73		

**Daily Laboratory Testing
2012**

Site:	Clarifiers		Filtered			
	#2		#2			
Oct	Turbidity	Color	pH	Turbidity	pH	Alum.
	NTU	PtCo		NTU		
1	0.168	6		0.059		
2	0.209	0				
3	0.178	3	6.74	0.065	6.729	
4						
5	0.208	4		0.079		
6	0.254	5		0.077		
7	0.159	5		0.085		
8	0.278	5		0.068		
9	0.306	3		0.066		
10	0.306	5		0.07		
11						
12	0.293	5		0.059		
13	0.332	4		0.138		
14	0.194	1				
15	0.256	7		0.08		
16	0.342	3		0.066		
17	0.395	6		0.079		
18	0.28	7		0.162		
19	0.189	4		0.068		
20	0.314	9		0.088		
21						
22	0.354	7		0.092		
23	0.432	7	6.806	0.083	6.714	
24	0.294	4		0.071		
25	0.21	4		0.082		
26	0.379	4		0.095		
27	0.226	2		0.078		
28	0.306	6		0.066		
29	0.206	5		0.098		
30	0.308	8		0.106		
31						

**Daily Laboratory Testing
2012**

Site: Clarifiers Filtered

Oct	#3	Color	pH	#3	pH	Alum.
	Turbidity NTU			Turbidity NTU		
	1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

**Daily Laboratory Testing
2012**

Site: Clearwell

Oct	Turbidity	pH	Tempt.
	NTU		°C
1	0.113	6.91	18.7
2	0.114	6.927	20.8
3	0.093	6.97	19.7
4	0.106	6.839	19.1
5	0.16	6.79	18.4
6	0.109	6.82	19.4
7	0.114	6.88	19.8
8	0.132	6.87	18.5
9	0.108	6.858	17.8
10	0.098	3.838	17.4
11	0.113	6.879	17
12	0.089	6.87	16.5
13	0.205	6.93	15.1
14	0.117	6.97	15.3
15	0.099	6.925	16.2
16	0.115	6.943	16.7
17	0.104	6.939	15.3
18	0.128	6.933	16.4
19	0.081	6.74	15.7
20	0.188	6.91	16.9
21	0.103	6.95	17.3
22	0.128	6.904	16.1
23	0.095	6.902	16.2
24	0.129	6.905	15.9
25	0.108	6.904	15.9
26	0.131	6.93	15.9
27	0.12	6.99	15.9
28	0.089	6.89	15.7
29	0.084	6.869	16
30	0.092	6.9	15.6
31	0.097	6.907	16.6

Site: 100 Foot Sample Line - EFF

Oct	Turbidity NTU	pH	Mono/ Free Am	Color/ Hardness	Total Chlorine	free	Alk/P	Calcium/ mg/L	Conductivity uS/CM
			mg/L	PtCo/mg/L	mg/L	mg/L	Alk/T mg/L		
1	0.093	8.365	2.16/0	0/	3.3	0.255	1.775/43.05		308
2	0.097	8.243	1.92/0	1/	2.81	0.466	0/33.98		305.4
3	0.083	7.754	1.73/0	2/	3.16	0.604	0/38.8		306.9
4	0.095	8.088	1.61/0	2/31.5	2.69	0.239	0/42.03	11.93	303.7
5	0.09	7.98	2.50/0	0/	3.12	0.22	0/33.72		309.9
6	0.099	8.21	2.66/0	2/	3.1	0.174	0/41.76		307.9
7	0.101	8.47	2.68/0	2/	2.97	0.164	9.98/42.76		305.8
8	0.13	8.48	2.64/.01	3/	2.95	0.155	0.86/33.35		306.8
9	0.085	8.272	2.39/0	0/	3	0.332	0/33.78		310.1
10	0.084	8.293	2.20/0	2/	2.82	0.497	0/33.75		310.5
11	0.084	7.567	2.12/0	3/	2.93	0.334	0/43.29		311.5
12	0.083	8.54	2.51/0	0/	3.12	0.25	1.32/38.7		310.2
13	0.108	8.5	2.09/.10	2/	2.72	0.46	3.17/42.74		310.8
14	0.087	8.63	2.47/0	1/	2.86	0.11	1.97/40.21		309.7
15	0.084	8.549	2.44/0	2/	2.92	0.66	9.75/43.34		308.1
16	0.097	8.554	2.37/0	0/	2.85	0.256	2.227/42.7		308.1
17	0.09	8.581	2.43/0	3/	3.08	0.166	9.848/42.78		307.6
18	0.097	8.599	2.49/0	0/	3.08	0.523	10.69/43.29		308
19	0.082	8.52	2.48/0	0/	3.18	0.23	10.52/34.17		307.5
20	0.158	8.41	2.46/0	0/	2.81	0.27	.81/38.85		303.3
21	0.129	8.15	2.57/0	1/	2.86	0.49	0/40.34		303.8
22	0.104	8.433	2.35/0	3/	3.25	0.38	.9989/34.54		307
23	0.086	7.998	2.38/0	2/	3.01	0.295	0/39.42		308.2
24	0.093	8.577	2.44/0	1/	2.98	0.322	2.139/42.17		309.3
25	0.1	8.682	2.67/0	3/38.0	3.16	0.28	10.74/44.31	13.6	306.1
26	0.122	8.53	2.96/0	0/	3.25	0.508	1.01/34.12		311.9
27	0.121	8.74	2.86/.02	0/	3.08	0.251	3.09/41.51		311.5
28	0.097	8.21	2.83/0	3/	3.19	0.265	0/32.47		309.2
29	0.08	8.207	2.62/0	1/	3.08	0.166	0/42.47		309
30	0.095	8.44	2.74/0	3/	2.97	0.29	.54/32.86		305.7
31	0.088	7.805	2.37/0	3/	3.15	0.305	0/32.79		304.4

Oct. Compare Methods Free Chlorine

	DPD Method	Inophenol method
	mg/L	
1	0.255	0.06
2	0.466	0
3	0.604	0.14
4	0.239	0
5	0.22	
6	0.174	
7	0.164	
8	0.155	
9	0.332	0.03
10	0.497	0.01
11	0.334	0.08
12	0.25	
13	0.46	
14	0.11	
15	0.66	0
16	0.256	0
17	0.166	0
18	0.523	0
19	0.23	
20	0.27	
21	0.49	
22	0.38	0.02
23	0.295	0.02
24	0.322	0.02
25	0.28	0
26	0.508	
27	0.251	
28	0.265	
29	0.166	0
30		
31	0.305	0

Daily Laboratory Testing

2012 *NOTE: CHANGED FROM Canobie to Arlington 11/13

Site: Raw

Nov	Turbidity	Alk/T	Color	pH	Tempt.
	NTU	mg/L	PtCo		°C
1	0.408	21.8	11	7.257	16.5
2	0.398	31.89	10	7.36	16.4
3	0.407	22.09	11	7.17	15.6
4	0.414	32.2	12	7.27	14.6
5	0.326	32.34	10	7.461	14.3
6	0.36	21.87	11	7.449	13.5
7	0.357	31.88	18	7.294	12.7
8	0.392	21.62	9	7.401	13.7
9	0.391	21.96	10	7.43	11.6
10	0.397	19.99	10	6.99	11.1
11	0.371	16.7	12	5.72	11.9
12	0.346	17.6	9	6.56	12.9
13	0.51	21.89	16	7.34	14.8
14	0.95	19.13	31	7.163	13.4
15	0.941	17.63	33	7.045	12.6
16	0.941	17.63	33	7.045	12.6
17	0.944	18.06	31	6.87	11.8
18	0.893	17.38	32	6.6	11.1
19	0.93	17.96	31	7.025	14
20	0.97	18.43	31	7.029	12.2
21	0.91	17.59	31	6.94	12.8
22	0.871	16.67	30	6.41	11.4
23	0.877	18.32	30	7.11	12.1
24	0.897	17.03	29	6.74	12.1
25	0.887	17.58	31	6.83	12
26	1.02	17.87	32	6.948	11.6
27	1.13	17.89	31	7.069	11.4
28	0.972	19.86	23	7.18	11.2
29	0.977	17.62	33	6.984	10.7
30	0.945	18.34	28	7.062	10.8
31					

Max

Daily Laboratory Testing

2012

Site:	Clarifiers		Filtered			
	#1			#1		
Nov	Turbidity	Color	pH	Turbidity	pH	Alum.
	NTU	PtCo		NTU		
1	0.529	9	6.714	0.086	6.719	0.013
2	0.369	4	6.71	0.066	6.73	
3	0.397	7	6.71	0.089	6.75	
4	0.546	8	6.75	0.15	6.75	
5	0.527	8	6.753	0.182	6.753	
6						
7	0.369	8	6.68	0.076	6.714	
8						
9	0.249	7	6.84	0.109	6.81	
10	0.35	9	6.85	0.093	6.9	
11	0.574	12	6.78	0.067	6.82	
12	0.349	1	6.81	0.075	6.82	
13	0.87	13	6.592	0.068	6.608	
14	1.47	25	6.343	0.413	6.399	
15	1.66	26	6.291	0.069	6.332	0.022
16	0.891	16	6.231	0.114	6.264	
17	1.41	6.3	21	0.088	6.3	
18						
19						
20						
21		6.41				
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						

Daily Laboratory Testing

2012

Site:	Clarifiers			Filtered		
	#2			#2		
Nov	Turbidity	Color	pH	Turbidity	pH	Alum.
	NTU	PtCo		NTU		0.013
1	0.293	5		0.086		
2	0.413	5		0.082		
3	0.205	8		0.059		
4	0.361	5		0.105		
5	0.3	9		0.074		
6	0.325	5	6.777	0.199	6.74	
7	0.302	5		0.125		
8	0.305	8	6.743	0.108	6.73	0.009
9	0.209	6		0.069		
10	0.321	8				
11	0.366	5		0.164		
12	0.227	2		0.099		
13	0.584	7		0.074		
14	0.504	9		0.229		
15	0.534	10		0.31		
16	0.901	13		0.11		
17						
18	1.48	21	6.28	0.097	6.26	
19	1.11	20	6.389	0.121	6.308	
20	0.866	15	6.303	0.095	6.311	0.025
21	0.74	10		0.11	6.37	
22	0.927	19	6.33	0.074	6.32	
23	0.986	15	6.3	0.066	6.31	
24	1.22	19	6.29	0.106	6.3	
25	1.18	17	6.3	0.107	6.35	
26	1.06	19	6.352	0.095	6.352	
27	0.804	13	6.232	0.148	6.287	
28						
29	1.19	28	6.243	0.129	6.261	
30	1.47	18	6.365	0.127	6.34	
31						

Daily Laboratory Testing

2012

Site:	Clarifiers			Filtered		
	#3			#3		
Nov	Turbidity	Color	pH	Turbidity	pH	Alum.
	NTU	PtCo		NTU		
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17	0.536	9		0.063		
18	0.526	9		0.058		
19						
20	0.669	12		0.066		
21	0.573	9		0.073		
22	0.557	10		0.091		
23	0.598	10		0.75		
24	0.653	9		0.069		
25	0.536	9		0.067		
26	0.843	15		0.09		
27	0.614	11		0.083		
28	1.09	11	6.099	0.074	6.279	0.022
29	0.58	11		0.078		
30	1.28	16		0.085		
31						

Daily Laboratory Testing
2012

Site: Clearwell

Nov	Turbidity	pH	Tempt.
	NTU		°C
1	0.086	6.883	15.9
2	0.148	6.92	14.9
3	0.135	6.91	14.2
4	0.119	6.92	13.6
5	0.12	6.96	13.2
6	0.123	6.93	12.5
7	0.109	6.849	12.3
8	0.145	6.937	11.7
9	0.133	6.98	10.1
10	0.204	6.8	11.3
11	0.109	7.02	11.9
12	0.096	7.02	12.6
13	0.102	6.888	14
14	0.163	6.548	12.9
15	0.204	6.593	12.3
16	0.247	6.447	12.2
17	0.091	6.49	10.6
18	0.103	6.48	10.8
19	0.097	6.531	12.3
20	0.096	6.481	11.2
21	0.113	6.55	12.1
22	0.109	6.54	9.9
23	0.133	6.51	9.9
24	0.102	6.3	10.6
25	0.105	6.53	9.5
26	0.103	6.522	10.5
27	0.221	6.525	15
28	0.147	6.525	9.6
29	0.124	6.43	10.3
30	0.148	6.505	10.1
31			

Daily Laboratory Testing 2012

Site: Raw

Dec	Turbidity NTU	Alk/T mg/L	Color PtCo	pH	Tempt. °C
1	0.914	17.97	29	7.01	10.1
2	0.909	17.39	30	6.8	10
3	1.35	18.69	32	7.131	9.6
4	0.878	18.54	30	7.041	10.4
5	0.894	17.69	29	7.22	11
6	0.959	17.84	31	7.099	11
7	0.907	17.52	29	6.91	10.1
8	0.852	17.25	30	6.56	9.3
9	0.914	17.7	29	6.9	9.2
10	1.08	17.93	30	6.86	9.1
11	0.873	17.94	31	7.018	10.2
12	0.913	19.14	33	7.022	10.2
13	0.928	18.03	29	7.037	10.2
14	0.837	17.55	27	6.935	10.2
15	0.808	17.84	26	6.97	6.6
16	0.823	17.06	27	6.6	8.6
17	0.785	17.35	25	6.68	9.1
18	0.951	17.59	32	6.959	9.3
19	0.804	17.08	29	6.774	10.2
20	0.836	18.44	28	7.045	9.1
21	0.839	17.21	29	6.69	9.2
22	0.845	15.41	26	6.4	8.8
23	0.841	14.94	27	6.48	9.3
24	0.821	17.49	27	6.62	9
25	0.818	14.57	28	6.19	8.5
26	0.822	14.41	26	6.08	8.3
27	0.807	19	27	6.994	8.6
28	0.843	17.37	28	6.94	7.3
29	0.813	17.13	29	6.78	6.5
30	0.854	17.4	29	6.86	6.8
31	0.806	17.4	27	7.03	6.6

Max

Daily Laboratory Testing

2012

Site:	Clarifiers		Filtered			
	#1		#1			
Dec	Turbidity	Color	pH	Turbidity	pH	Alum.
	1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

Daily Laboratory Testing

2012						Alum.
Site:	Clarifiers #2		Filtered #2			
Dec	Turbidity	Color	pH	Turbidity	pH	
1	0.64	8	6.58	0.262	6.49	
2	0.068	17	6.36	0.14	6.38	
3	0.934	18	6.358	0.094	6.439	
4	0.957	17	6.354	0.098	6.369	
5	0.839	15	6.34	0.089	6.33	
6	1.09	23	6.304	0.093	6.31	0.03
7	0.746	12	6.33	0.136	6.36	
8	0.938	15	6.32	0.15	6.33	
9	1.04	16	6.32	0.142	6.27	
10	0.46	10	6.36	0.129	6.32	
11	0.736	21	6.335	0.94	6.312	
12	0.965	12	6.312	0.139	6.321	
13	0.714	11	6.323	0.113	6.287	0.065
14	1.15	15	6.318	0.103	6.245	
15	1.01	16	6.34	0.127	6.39	
16						
17	1.2	17	6.31	0.216	6.26	
18	0.911	11	6.357	0.109	6.355	
19	0.768	11	6.311	0.139	6.3	
20	0.767	11	6.322	0.094	6.335	0.015
21	0.695	17	6.29	0.093	6.33	
22	1.01	17	6.32	0.141	6.35	
23	0.846	12	6.33	0.105	6.41	
24	0.684	9	6.46	0.117	6.31	
25	0.615	15	6.36	0.22	6.43	
26	0.668	8	6.5	0.097	6.68	
27	0.868	14	6.307	0.092	6.38	
28	0.768	9	6.31	0.078	6.28	
29	0.724	13	6.3	0.099	6.29	
30	0.784	16	6.29	0.139	6.33	
31						

Daily Laboratory Testing

2012

Site:	Clarifiers			Filtered		
	#3			#3		
Dec	Turbidity	Color	pH	Turbidity	pH	Alum.
	NTU	PtCo		NTU		
1	0.871	14		0.102		
2	0.683	9		0.071		
3	0.944	17		0.095		
4	0.861	13				
5	0.81	14		0.102		
6	0.596	11		0.07		
7	0.759	14		0.074		
8	0.557	9		0.092		
9	0.583	10		0.102		
10	0.989	14		0.085		
11	0.79	14		0.077		
12	0.901	11		0.067		
13	0.801	15		0.08		
14	0.67	7		0.067		
15	0.799	8		0.078		
16	0.7	8	6.35	0.103	6.33	
17	0.646	10		0.073		
18	0.756	13		0.108		
19	0.564	15		0.099		
20						
21	0.589	11		0.145		
22	1.29	15				
23	0.833	9		0.068		
24	0.74	10		0.075		
25	0.626	14		0.075		
26	0.644	17		0.085		
27	0.408	5		0.089		
28	0.709	11		0.083		
29	0.656	12		0.083		
30	0.636	13		0.093		
31	0.779	14	6.385	0.095	6.505	

Daily Laboratory Testing

Site: **2012**

Clearwell

Dec

	Turbidity	pH	Tempt.
1	0.245	6.47	9.7
2	0.117	6.6	7.1
3	0.098	6.559	10.1
4	0.128	6.524	9
5	0.136	6.54	7.5
6	0.112	6.54	8.5
7	0.098	6.55	7.2
8	0.142	6.54	7.7
9	0.223	6.53	7.6
10	0.145	6.54	7.8
11	0.115	6.515	10.2
12	0.123	6.422	9
13	0.109	6.602	11.3
14	0.088	6.492	8.7
15	0.11	6.5	7.3
16	0.098	6.49	6.4
17	0.103	6.54	6.3
18	0.1	6.498	8.3
19	0.159	6.476	7.8
20	0.109	6.436	7.8
21	0.145	6.357	6.3
22	0.116	6.68	8
23	0.116	6.61	7.7
24	0.075	6.59	6
25	0.113	6.64	8.3
26	0.11	6.78	7.4
27	0.101	7.134	7.1
28	0.112	6.4	5.5
29	0.123	6.54	5
30	0.125	6.54	5.4
31	0.112	6.645	8.7

Site: 100 Foot Sample Line - EFF

Dec	Turbidity NTU	Mono/ pH Free Am		Color/ Hardness PtCo/mg/L	Total	free	Alk/P		Calcium/ mg/L	Conductivity uS/CM
			mg/L		Chlorine mg/L	mg/L	Alk/T mg/L	mg/L		
1	0.194	7.22	2.25/.02	0/	2.53	0.08	.02/33.39			240.7
2	0.108	8.069	2.51/0	0/	3.04	0.21	0/37.22			245.6
3	0.086	7.073	2.185/0	3/	2.53	0	0/36.96			240.5
4	0.104	7.096	2.55/0.06	2/	3.06	0	0/36.57			240.3
5	0.098	7.62	2.55/0	1/	2.86	0.16	0/37.18			239.7
6	0.079	7.748	2.59/0	2/32	2.97	0	0/36.19		11.22	244.1
7	0.084	7.87	2.12/0	1/	2.92	0.15	0/33.08			242
8	0.115	7.7	2.39/0	1/	2.58	0.13	0/28.3			240.5
9	0.231	7.81	2.38/.02	2/	2.59	0	0/37.86			238.7
10	0.109	7.23	2.22/0	1/	2.63	0	0/37.23			239.5
11	0.113	7.24	1.66/0	1/	2.58	0	0/28.21			243
12	0.115	7.626	2.48/0	0/	3.12	0	0/30.6			243.3
13	0.095	7.691	2.43/0	1/	2.94	0.17	0/31.22			244.7
14	0.087	7.772	2.50/0	0/	3.02	0.01	0/31.79			238.9
15	0.085	7.68	1.59/0	0/	2.66	0.08	0/32.36			236.9
16	0.102	7.3	2.35/0	1/	2.84	0.08	0/33.46			246.5
17	0.093	8.09	2.41/0	1/	3.02	0.12	0/33.5			248.7
18	0.121	8.802	2.55/0	1/	2.79	0	2.396/29.7			251.1
19	0.097	7.25	1.67/0	0/	2.76	0.02	0/27.78			248.1
20	0.098	7.764	2.31/0	1/30	3.23	0	0/32.09		12	248.2
21	0.093	7.29	2.09/0	1/	3.09	0.11	0/35.04			247.9
22	0.134	7.47	2.04/0	5/	2.82	0	0/25.83			246.6
23	0.092	7.83	2.52/0	1/	3.29	0	0/32.53			248.5
24	0.078	7.91	2.31/0	1/	3.14	0.03	0/35.26			253
25	0.082	7.02	1.70/0	2/	2.11	0.03	0/19.75			136
26	0.091	7.95	2.46/0	0/	3.03	0.01	0/32.13			243
27	0.096	7.031	1.52/0	0/	2.74	0	0/33.52			248.8
28	0.087	7.93	2.41/0	1/	2.78	0.04	0/30.94			252.7
29	0.097	8.39	2.37/.02	2/	2.95	0	.37/33.25			251.9
30	0.097	7.78	2.56/0	2/	2.91	0.06	0/33.62			251
31	0.113	7.2	2.07/0	1/	2.54	0	0/34.17			253.9

CCR Report

0.149871

0.150862

0.094323

0.1069

0.141194

0.1292

0.114258

0.136645

0.116333

0.098129

0.109667

0.105613

0.121083

IOC, VOC, SOC, Nitrite/Nitrate 2013

Date

Location

Inorganics

1/24/2013 7/30/2013

Arlington Pond

Canobie

Results/Unites Results/Units

EPA Method 200.7

Beryllium

ND

ND

Hardness

32.44 mg/l

40.95

Iron

ND

ND

Sodium

34.1 mg/l

44.9

Zinc

ND

ND

EPA Method 200.8

Antimony

ND

ND

Arsenic

ND

ND

Barium

0.0152mg/l

0.0187mg/l

Cadmium

ND

ND

Chromium

ND

ND

Copper

ND

ND

Manganese

0.0166 mg/l

0.0102 mg/l

Nickel

ND

ND

Selenium

ND

ND

Silver

ND

ND

Thallium

ND

ND

EPA Method 245.1

Mercury

ND

ND

Semi-Volatiles

EPA Method 547

Glyphosate

ND

ND

EPA Method 504.1

1,2-Dibromomoethane (EDB)

ND

ND

1,2-Dibromo-3-chloropropane

ND

ND

EPA Method 505

Chlordane

ND

ND

Toxaphene

ND

ND

EPA Method 531.2

Aldicarb Sulfoxide

ND

ND

Aldicarb Sulfone

ND

ND

Oxamyl

ND

ND

Methomyl

ND

ND

3-Hydroxy-Carbofuran

ND

ND

Aldicarb

ND

ND

Carbofuran

ND

ND

Carbaryl

ND

ND

Semi-Volatiles

Prep. Method 525.2

Analytical Method EPA 525.2

Acenaphthene	ND	ND
Acenaphthylene	ND	ND
Alachlor	ND	ND
Aldrin	ND	ND
Anthracene	ND	ND
Artrazine	ND	ND
Benzo(a)anthracene	ND	ND
Benzo(a)pyrene	ND	ND
Benzo(b)fluoranthene	ND	ND
Benzo (ghi) perylene	ND	ND
Benzo (k) fluoranthene	ND	ND
Bis (2-ethylhexyl) phthalate	ND	ND
Butachlor	ND	ND
Alpha-Chlordance	ND	ND
Gamma-Chlordance	ND	ND
2-Chlorobiphenyl	ND	ND
Chrysene	ND	ND
4,4'-DDD	ND	ND
4,4'-DDE	ND	ND
4,4"-DDT	ND	ND
Di(2-ethylhexyl)adipate	ND	ND
Di-n-butyl phthalate	ND	ND
Dibenz(a,h)anthracene	ND	ND
2,3-Dichlorobiphenyl	ND	ND
Dieldrin	ND	ND
Diethyl phthalate	ND	ND
Dimethyl phthalate	ND	ND
Endrin	ND	ND
Endrin aldehyde	ND	ND
Fluoranthene	ND	ND
Fluorene	ND	ND
Heptachlor	ND	ND
Heptachlor expoxide	ND	ND
2,2'3,3'4,4'6 Heptachlorobiphen	ND	ND
Hexachlorobenzene	ND	ND
2,2'4,4'5,6" Hexachlorobipheny	ND	ND
Hexachlorocyclopentadiene	ND	ND
Indeno (1,2,3-cd) pyrene	ND	ND
Isophorone	ND	ND
Linane	ND	ND
Methoxychlor	ND	ND
2-Methylnaphthalene	ND	ND
Metolachlor	ND	ND
Metribuzin	ND	ND
Naphthalene	ND	ND
trans-Nonachlor	ND	ND
2,2'3,3'4,5'6,6' Octachlorobiph	ND	ND

Surrogates	2,2',3'4,6-Pentachlorobiphenyl	ND	ND
	Pentachlorophenol	ND	ND
	Phenanthrene	ND	ND
	Propachlor	ND	ND
	Pyrene	ND	ND
	Simazine	ND	ND
	2,2'4,4'-Tetrachlorobiphenyl	ND	ND
	2,4,5-Trichlorobiphenyl	ND	ND
	Trifluralin (Treflan)	ND	ND
Volatiles	1,3-Dimethyl-2-nitrobenzene	99%	97%
	Pyrene-d10	75%	95%
	Triphenyl phosphate	130%	110%
	Perylene-d-12	22%	32%
	EPA Method 555		
	Picloram	ND	ND
	Dicamba	ND	ND
	2,4-D	ND	ND
	Silvex	ND	ND
	Acifluorfen	ND	ND
	Dinoseb	ND	ND
Volatiles	EPA Method 524.2		
	Acetone	13 ug/l	ND
	Benzene	ND	ND
	Bromobenzene	ND	ND
	Bromochloromethane	ND	ND
	Bromodichloromethane	4.4ug/l	9.7ug/l
	Bromoform	ND	ND
	Bromomethane	ND	ND
	t-Butanol (TBA)	ND	ND
	2-Butanol (MEK)	ND	ND
	n-Butylbenzene	ND	ND
	sec-Butylbenzene	ND	ND
	t-Butylbenzene	ND	ND
	Carbon disulfide	ND	ND
	Carbon tetrachloride	ND	ND
	Chlorobenzene	ND	ND
	Chloroethane	ND	ND
	Chloroform	11ug/l	18ug/l
	Chloromethane	ND	ND
	2-Chlorotoluene	ND	ND
	4-Chlorotoluene	ND	ND
	1,2-Dibromo-3-chloropropane	ND	ND
	Dibromochloromethane	0.5ug/l	2.2ug/l
	1,2-Dibromomethane (EDB)	ND	ND

Dibromomethane	ND	ND
1,4 Dichlorobenzene	ND	ND
1,3-Dichlorobenzene	ND	ND
1,2-Dichlorobenzene	ND	ND
Dichlorodifluoromethane	ND	ND
1,2-Dichloroethane	ND	ND
1,1-Dichloroethane	ND	ND
cis-1,2-Dichloroethene	ND	ND
trans-1,2-Dichloroethene	ND	ND
1,1-Dichloroethene	ND	ND
1,3 Dichloropropane	ND	ND
2,2-Dichloropropane	ND	ND
1,2-Dichloropropane	ND	ND
cis-1,3-Dichloropropene	ND	ND
trans-1,2,3-Dichloropropene	ND	ND
1,1-Dichloropropene	ND	ND
Diethy ether	ND	ND
Disopropyl ether (DIPE)	ND	ND
Ethy-t-butyl ether (ETBE)	ND	ND
Ethylbenzene	ND	ND
Hexachlorobutadiene	ND	ND
2-Hexanone	ND	ND
Isopropylbenzene	ND	ND
p-Isopropyltoluene	ND	ND
2-Methoxy-2-methylbutane(TAME)	ND	ND
4-Methyl-2-pentanone(MIBK)	ND	ND
Methyl-t-butylether(MTBE)	ND	ND
Methylene Chloride	ND	ND
Napthalene	ND	ND
n-Propylbenzene	ND	ND
Styrene	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND
Tetrachloroethene	ND	ND
Tetrahydrofuran (THF)	ND	ND
Toluene	ND	ND
1,3,5-Trichlorobenzene	ND	ND
1,2,4-Trichlorobenzene	ND	ND
1,2,3-Trichlorobenzene	ND	ND
1,1,1-Trichloroethane	ND	ND
1,1,2-Trichloroethane	ND	ND
Trichloroethene	ND	ND
Trichlorofluoromethane	ND	ND
1,2,3-Trichloropropane	ND	ND
1,3,5-Trimethylbenzene	ND	ND
1,2,4-Trimethylbenzene	ND	ND
Vinyl Chloride	ND	ND

	m/p-Xylene	ND	0.7ug/l
	O-Xylen	ND	0.5ug/l
	1 Total Xylenes	ND	1.2ug/l
Surrogates			
	4-Bromofluorobenzene	95%	90%
Wet Chemistry			
	1,2-Dichlorobenzene	97%	92%
Latch method 10-107-04-1-C			
	Nitrate-Nitrogen	0.16mg/l	ND
Latch method 10-107-04-1-C			
	Nitrite-Nitrogen	ND	ND
Latch method 10-107-04-1-C			
	Nitrate+Nitrite-Nitrogen	0.16mg/l	ND
Latch 10-117-07-1-B			
	Chloride	47 mg/l	68 mg/l
SM 4500-H+B			
	pH	7.40 units	8.85 unites
Latch 10-109-12-2-A			
	Fluroide	ND	ND
Latch 10-510-00-1-E			
Surrogates			
	Sulfate (as SO ₄)	20mg/l	17 mg/l
	BDMC	91%	81%

CCR -Average

36.69

39.5

0.017

0

ND
ND
ND

0.08

0

8.125

[illegible]



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Water Bioburdens - Membrane Filtration Method 2014

Date Tested 7/22/2014

	Colonies/100 ml.	Microbial I.D.
Canobie Lake	TNTC	Prob. Gram negative rods, prob E.Coli
Arlington Pond	TNTC	Prob. Gram negative rods, prob E.Coli

Date Tested 8/28/2014

	Colonies/100 ml.	Microbial I.D.
Canobie Lake	TNTC	Prob. Gram negative rods pos. cocci and rods, some prob. E.Coli
Arlington Pond	TNTC	Prob. Gram negative rods Prob. Gram pos. cocci and rods

Date Tested 9/26/2014

	Colonies/100 ml.	Microbial I.D.
Canobie Lake	TNTC	Bacillus spec Prob. Micrococcus spec. Serratia rubidaeu
Arlington Pond	TNTC	Bacillus spec Kleb. Oxgtoca

Date Tested 10/29/2014

	Colonies/100 ml.	Microbial I.D.
Canobie Lake	TNTC	Bacillus spec #1/#2
Arlington Pond	TNTC	Bacillus spec #1/#2

Date Tested 11/24/2014

	Colonies/100 ml.	Microbial I.D.
Canobie Lake	TNTC	prob. Gram neg. and Pos. rod
Arlington Pond	TNTC	prob. Gram neg. and Pos. rod

Date Tested 12/19/2014

Canobie Lake Colonies/100 ml.
 TNTC

Microbial I.D.
prob. Micro spec, Bacillus spec ang gram neg rod

Arlington Pond TNTC

prob. Micro spec, Bacillus spec ang gram neg rod

[illegible]

Monthly Sales Data - Region A			
Month	Q1	Q2	Q3
Jan	1200	1500	1800
Feb	1100	1400	1700
Mar	1300	1600	1900
Apr	1400	1700	2000
May	1500	1800	2100
Jun	1600	1900	2200
Jul	1700	2000	2300
Aug	1800	2100	2400
Sep	1900	2200	2500
Oct	2000	2300	2600
Nov	2100	2400	2700
Dec	2200	2500	2800
Year Total	20000	24000	28000

FREE AMMONIA LEVELS - 2014

(samples done once a month)

Jan.

Site #	Location	Date	Free Ammonia
4	Dr Lynch	1/8	0.1
5	Public Works	1/8	0
12	Salem Lib.	1/8	0.12
13	SoDex.	1/8	0.16
14	AAA	1/8	0.15
18	Sunshine Laundry	1/8	0.12

Feb.

Site #	Location	Date	Free Ammonia
4	Dr Lynch	2/11	0.14
5	Public Works	2/11	0.1
12	Salem Lib.	2/11	0.1
13	SoDex.	2/11	0
14	AAA	2/11	0.02
18	Sunshine Laundry	2/11	0.09

March

Site #	Location	Date	Free Ammonia
4	Dr Lynch	3/4	0.05
5	Public Works	3/4	0.05
12	Salem Lib.	3/4	0.06
13	SoDex.	3/4	0.01
14	AAA	3/4	0.11
18	Sunshine Laundry	3/4	0

April

Site #	Location	Date	Free Ammonia
4	Dr Lynch	4/7	0.1
5	Public Works	4/7	0.08
12	Salem Lib.	4/7	0.03
13	SoDex.	4/7	0.23
14	AAA	4/7	0.1
18	Sunshine Laundry	4/7	0.12

May

Site #	Location	Date	Free Ammonia
4	Dr Lynch	5/5	0.11
5	Public Works	5/5	0.06
12	Salem Lib.	5/5	0.09
13	SoDex.	5/5	0.23
14	AAA	5/5	0.16
18	Sunshine Laundry	5/5	0

June

Site #	Location	Date	Free Ammonia
4	Dr Lynch	6/9	0.2
5	Public Works	6/9	0.15
12	Salem Lib.	6/9	0.16
13	SoDex.	6/9	0.33
14	AAA	6/9	0.19
18	Sunshine Laundry	6/9	0.13

July

Site #	Location	Date	Free Ammonia
4	Dr Lynch	7/7	0.13
5	Public Works	7/7	0.15
12	Salem Lib.	7/7	0.17
13	SoDex.	7/7	0.12
14	AAA	7/7	0.07
18	Sunshine Laundry	7/7	0.07

Aug.

Site #	Location	Date	Free Ammonia
4	Dr Lynch	8/4	0.17
5	Public Works	8/4	0.11
12	Salem Lib.	8/4	0.1
13	SoDex.	8/4	0.36
14	AAA	8/4	0.13
18	Sunshine Laundry	8/4	0.19

Sept.

Site #	Location	Date	Free Ammonia
4	Dr Lynch	9/8	0.23
5	Public Works	9/8	0.23
12	Salem Lib.	9/8	0.25
13	SoDex.	9/8	0.22
14	AAA	9/8	0.21
18	Sunshine Laundry	9/8	0.19

Oct.

Site #	Location	Date	Free Ammonia
4	Dr Lynch	10/6	0
5	Public Works	10/6	0.13
12	Salem Lib.	10/6	0.1
13	SoDex.	10/6	0.01
14	AAA	10/6	0.12
18	Sunshine Laundry	10/6	0.02

Nov

Site #	Location	Date	Free Ammonia
4	Dr Lynch	11/4	0.19
5	Public Works	11/4	0.15
12	Salem Lib.	11/4	0.16
13	SoDex.	11/4	0.2
14	AAA	11/4	0.07
18	Sunshine Laundry	11/4	0

Dec

Site #	Location	Date	Free Ammonia
4	Dr Lynch	12/1	0.25
5	Public Works	12/1	0.13
12	Salem Lib.	12/1	0.16
13	SoDex.	12/1	0.38
14	AAA	12/1	0.14
18	Sunshine Laundry	12/1	0

**TOC and UV254
2014**

pg. #1

**TOC and UV254
2014**

Running average TOC
Finished Water - EFF - 2011 - Running Average

Jan			
	Date	TOC	UV254
Raw	1/10	4.4	0.099cm ⁻¹
Eff	1/10	2.6	0.041cm ⁻¹
Feb			
	Date	TOC	UV254
Raw	2/12	4.6	0.131cm ⁻¹
Eff	2/12	2.8	0.054cm ⁻¹
March			
	Date	TOC	UV254
Raw	3/6	3.9	0.126cm ⁻¹
Eff	3/6	2.2	0.050cm ⁻¹
April			
	Date	TOC	UV254
Raw	4/3	4.6	0.118cm ⁻¹
Eff	4/3	2.2	0.036cm ⁻¹
May			
	Date	TOC	UV254
Raw	5/8	4.2	0.107cm ⁻¹
Eff	5/8	2.1	0.042cm ⁻¹
June			
	Date	TOC	UV254
Raw	6/17	4.1	0.064cm ⁻¹
Eff	6/17	3.1	0.041cm ⁻¹

July			
	Date	TOC	UV254
Raw	7/10	4.1	0.059cm ⁻¹
Eff	7/10	3	0.038cm ⁻¹
Aug.			
	Date	TOC	UV254
Raw	8/15	4.2	0.056cm ⁻¹
Eff	8/15	3.2	0.035cm ⁻¹
Sept.			
	Date	TOC	UV254
Raw	9/11	4.2	0.056cm ⁻¹
Eff	9/11	3.1	0.035cm ⁻¹
Oct.			
	Date	TOC	UV254
Raw	10/8	4.4	0.062cm ⁻¹
Eff	10/8	3.2	0.041cm ⁻¹
Nov.			
	Date	TOC	UV254
Raw	11/7	3.6	0.058cm ⁻¹
Eff	11/7	2.7	0.034cm ⁻¹
Dec.			
	Date	TOC	UV254
Raw	12/4	4.5	0.062cm ⁻¹
Eff	12/4	2.8	0.036cm ⁻¹

2013			2014		
					Note
2013 Jan	2.5	Art. Pond	2014 Jan	2.6	Art. Pond
2013 Feb	2.4	Art. Pond	2014 Feb	2.8	Art. Pond
2013 March	2.3	Art. Pond	2014 March	2.2	Art. Pond
2013 April	2	Art. Pond	2014 April	2.2	Art. Pond
2013 May	2.9	Canobie	2014 May	2.1	Canobie
2013 June	2.6	Canobie	2014 June	3.1	Canobie
2013 July	3.1	Canobie	2014 July	3	Canobie
2013 Aug	3	Canobie	2014 Aug	3.2	Canobie
2013 Sept	3.3	Canobie	2014 Sept	3.1	Canobie
2013 Oct	3.2	Canobie	2014 Oct	3.2	Canobie
2013 Nov	2.7	Canobie	2014 Nov	2.7	Canobie
2013 Dec	2.9	Art. Pond	2014 Dec	2.8	Art. Pond
Total	32.9		Total	33	
Yearly Average	2.74167		Yearly Average	2.75	
Total			Total		
Yearly Average			2.75 Average CCR		

[illegible]

Q1 Sample Distribution 2014										Q2 Sample Distribution 2016									
Rate		Rate		Rate		Rate		Rate		Rate		Rate		Rate		Rate			
Rate	Target	Rate	Target	Rate	Target	Rate	Target	Rate	Target	Rate	Target	Rate	Target	Rate	Target	Rate	Target		
High																			
1. 1st and 2nd	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%		
2. 3rd and 4th	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%		
3. 5th and 6th	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%		
4. 7th and 8th	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%		
5. 9th and 10th	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%		
6. 11th and 12th	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%		
7. 13th and 14th	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%		
8. 15th and 16th	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%		
9. 17th and 18th	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%		
10. 19th and 20th	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%		
11. 21st and 22nd	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%		
12. 23rd and 24th	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%		
13. 25th and 26th	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%		
14. 27th and 28th	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%		
15. 29th and 30th	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%		
16. 31st and 32nd	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%		
17. 33rd and 34th	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%		
18. 35th and 36th	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%		
19. 37th and 38th	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%		
20. 39th and 40th	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%		
21. 41st and 42nd	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%		

Heterotrophic Plate Count

2014

Jan.

Location	Collection Date	Amount Counted	MPN Conversion	X 10 Factor
			Table	
A & A Deli	1/23	0	< 0.2	<2
DPW Office	1/23	0	< 0.2	<2
Law. St. Fire	1/23	0	< 0.2	<2
Kevins Store	1/23	0	< 0.2	<2
Canobie lake	1/23	1	0.2	2

Feb.

Location	Collection Date	Amount Counted	MPN Conversion	X 10 Factor
			Table	
A & A Deli	2/18	29	7.1	71
DPW Office	2/18	9	1.9	19
Law. St. Fire	2/18	no sample		
Kevins Store	2/18	2	0.4	4
Canobie lake	2/18	0	<0.2	<2

Location	Collection Date	Amount Counted	MPN Conversion	X 10 Factor
			Table	
A & A Deli	2/27	0	<0.2	<2
DPW Office	2/27	7	1.5	15
Law. St. Fire	2/27	0	<0.2	<2
Kevins Store	2/27	1	0.2	2
Canobie lake	2/27	42	11.6	116

Location	Collection Date	Amount Counted	MPN Conversion	X 10 Factor
			Table	
A & A Deli	3/12	2	0.4	4
DPW Office	3/12	0	<0.2	<2
Law. St. Fire	3/12	0	<0.2	<2
Kevins Store	3/12	0	<0.2	<2
Canobie lake	3/12	6	1.2	12

Heterotrophic Plate Count

2014

April

Location	Collection Date	Amount Counted	MPN Conversion	X 10 Factor
			Table	
A & A Deli	4/8	0	<0.2	<2
DPW Office	4/9	3	0.6	6
Law. St. Fire	4/9	1	0.2	2
Kevins Store	4/9	0	<0.2	<2
Canobie lake	4/9	1	0.2	2

Location	Collection Date	Amount Counted	MPN Conversion	X 10 Factor
			Table	
A & A Deli	4/28	4	0.8	8
DPW Office	4/28	0	<0.2	<2
Law. St. Fire	4/28	No Sample		
Kevins Store	4/28	0	<0.2	<2
Canobie lake	4/28	0	<0.2	<2

June

Location	Collection Date	Amount Counted	MPN Conversion	X 10 Factor
			Table	
A & A Deli	6/11	0	<0.2	<2
DPW Office	6/11	3	0.6	6
Law. St. Fire	6/11	0	<0.2	<2
Kevins Store	6/11	50	15.1	151
Canobie lake	6/11	1	0.2	2

July

Location	Collection Date	Amount Counted	MPN Conversion	X 10 Factor
			Table	
A & A Deli	7/23	7	1.5	15
DPW Office	7/23	1	0.2	2
Law. St. Fire	7/23	No Sample		
Kevins Store	7/23	0	<0.2	<2
Canobie lake	7/23	0	<0.2	<2

Aug.

Location	Collection Date	Amount Counted	MPN Conversion	X 10 Factor
			Table	
A & A Deli	8/13	11	2.3	23
DPW Office	8/13	17	3.8	38
Law. St. Fire	8/13	7	1.5	15
Kevins Store	8/13	3	0.6	6
Canobie lake	8/13	7	1.7	17

Location	Collection Date	Amount Counted	MPN Conversion	X 10 Factor
			Table	
A & A Deli	8/24	5	1	10
DPW Office	8/27	4	0.8	8
Law. St. Fire	8/27	0	<0.2	2
Kevins Store	8/27	0	<0.2	2
Canobie lake	8/27	0	<0.2	2

Sept.

Location	Collection Date	Amount Counted	MPN Conversion	X 10 Factor
			Table	
A & A Deli	9/15	0	<0.2	<2
DPW Office	9/15	1	0.2	2
Law. St. Fire	9/15	No sample		
Kevins Store	9/15	13	2.8	28
Canobie lake	9/15	2	0.4	4

Oct.

Location	Collection Date	Amount Counted	MPN Conversion	X 10 Factor
			Table	
A & A Deli	10/15	5	1	10
DPW Office	10/15	34	8.6	86
Law. St. Fire	10/15	10	2.1	21
Kevins Store	10/15	35	9	90
Canobie lake	10/15	50	15.1	151

Nov

Location	Collection Date	Amount Counted	MPN Conversion	X 10 Factor
Table				
A & A Deli	11/18	25	5.9	59
DPW Office	11/18	1	0.2	2
Law. St. Fire	11/18	no sample		
Kevins Store	11/18	0	<.2	<2
Canobie lake	11/18	56	18.3	183

Dec

Location	Collection Date	Amount Counted	MPN Conversion	X 10 Factor
Table				
A & A Deli	12/29	3	0.6	6
DPW Office	12/29	6	1.2	12
Law. St. Fire	12/29	11	2.3	23
Kevins Store	12/29	20	15.1	151
Canobie lake	12/29	1	0.2	2

Nitrate and Nitrite 2014

Jan

	Date	Nitrite & Nitrate	Nitrite	Nitrate
A and A deli	1/23		< 0.015	0.301
DPW	1/23		< 0.015	0.301
Law.Fire Dept.	1/23		< 0.015	0.326
Kevins Store	1/23		< 0.015	0.255
CWT	1/23		< 0.015	0.301

Feb.

	Date	Nitrite & Nitrate	Nitrite	Nitrate
A and A deli	2/18		< 0.015	0.43
DPW	2/18		< 0.015	0.319
Law.Fire Dept.	2/18	no sample		
Kevins Store	2/18		< 0.015	0.329
CWT	2/18		< 0.015	0.288

	Date	Nitrite & Nitrate	Nitrite	Nitrate
A and A deli	2/27		< 0.015	0.287
DPW	2/27		< 0.015	0.35
Law.Fire Dept.	2/27		< 0.015	0.27
Kevins Store	2/27		< 0.015	0.346
CWT	2/27		< 0.015	0.302

March

	Date	Nitrite & Nitrate	Nitrite	Nitrate
A and A deli	3/19		< 0.015	0.302
DPW	3/19		< 0.015	0.342
Law.Fire Dept.	3/19		< 0.015	0.571
Kevins Store	3/19		< 0.015	0.306
CWT	3/19		< 0.015	0.315

Nitrate and Nitrite 2014

April

	Date	Nitrite & Nitrate	Nitrite	Nitrate
A and A deli	4/9		< 0.015	0.44
DPW	4/9		< 0.015	0.342
Law.Fire Dept.	4/9		< 0.015	0.329
Kevins Store	4/9		< 0.015	0.309
CWT	4/9		< 0.015	0.3

	Date	Nitrite & Nitrate	Nitrite	Nitrate
A and A deli	4/30		< 0.015	0.256
DPW	4/30		< 0.015	0.3
Law.Fire Dept.	4/30	no sample		
Kevins Store	4/30		< 0.015	0.289
CWT	4/30		< 0.015	0.278

June

	Date	Nitrite & Nitrate	Nitrite	Nitrate
A and A deli	6/11		< 0.015	<0.230
DPW	6/11		< 0.015	<0.230
Law.Fire Dept.	6/11		< 0.015	<0.230
Kevins Store	6/11		< 0.015	<0.230
CWT	6/11		< 0.015	<0.230

July

	Date	Nitrite & Nitrate	Nitrite	Nitrate
A and A deli	7/23		< 0.015	<0.230
DPW	7/23		< 0.015	<0.230
Law.Fire Dept.	7/23	no sample		
Kevins Store	7/23		< 0.015	<0.230
CWT	7/23		< 0.015	<0.230

**Nitrate and Nitrite
2014**

Aug.

	Date	Nitrite & Nitrate	Nitrite	Nitrate
A and A deli	8/13		< 0.015	<.230
DPW	8/13		< 0.015	<.230
Law.Fire Dept.	8/13		< 0.015	<.230
Kevins Store	8/13		< 0.015	<.230
CWT	8/13		< 0.015	<.230

	Date	Nitrite & Nitrate	Nitrite	Nitrate
A and A deli	8/27		< 0.015	<.230
DPW	8/27		< 0.015	<.230
Law.Fire Dept.	8/27		< 0.015	<.230
Kevins Store	8/27		< 0.015	<.230
CWT	8/27		< 0.015	<.230

**Nitrate and Nitrite
2014**

Sept.

	Date	Nitrite & Nitrate	Nitrite	Nitrate
A and A deli	9/15		< 0.015	<.230
DPW	9/15		< 0.015	<.230
Law.Fire Dept.	9/15		< 0.015	<.230
Kevins Store	9/15		< 0.015	<.230
CWT	9/15		< 0.015	<.230

**Nitrate and Nitrite
2014**

Oct

	Date	Nitrite & Nitrate	Nitrite	Nitrate
A and A deli	10/15		< 0.015	<.230
DPW	10/15		< 0.015	<.230
Law.Fire Dept.	10/15		< 0.015	<.230
Kevins Store	10/15		< 0.015	<.230
CWT	10/15		< 0.015	<.230

Nitrate and Nitrite 2014

Nov

	Date	Nitrite & Nitrate	Nitrite	Nitrate
A and A deli	11/18		< 0.015	<.230
DPW	11/18		< 0.015	<.230
Law.Fire Dept.	11/18	no sample		
Kevins Store	11/18		< 0.015	<.230
CWT	11/18		< 0.015	<.230

Nitrate and Nitrite 2014

Dec

	Date	Nitrite & Nitrate	Nitrite	Nitrate
A and A deli	12/29		< 0.015	<.230
DPW	12/29		< 0.015	<.230
Law.Fire Dept.	12/29		< 0.015	0.233
Kevins Store	12/29		< 0.015	0.246
CWT	12/29		< 0.015	<.230

Chloride & Sulfate 2014

Jan

	Date	Chloride	Sulfate
A and A deli	1/23	52.2	0
DPW	1/23	81.3	0
Law.Fire Dept.	1/23	37.5	0
Kevins Store	1/23	77.2	0
CWT	1/23	35.9	0
Raw	1/24	30.7	0

Feb.

	Date	Chloride	Sulfate
A and A deli	2/18	39.3	0
DPW	2/18	34.5	0
Law.Fire Dept.	2/18	no sample	
Kevins Store	2/18	30.5	0
CWT	2/18	26	0
Raw	2/19	38.9	0

	Date	Chloride	Sulfate
A and A deli	2/27	24.6	0
DPW	2/27	20.1	0
Law.Fire Dept.	2/27	24.9	0
Kevins Store	2/27	29.2	0
CWT	2/27	36	0
Raw	2/28	30.3	0

March

	Date	Chloride	Sulfate
A and A deli	3/19	42.3	0
DPW	3/19	37.8	0
Law.Fire Dept.	3/19	36.4	0
Kevins Store	3/19	45.6	0
CWT	3/19	46.2	0
Raw	3/20	33.9	0

April

	7/6		
	Date	Chloride	Sulfate
A and A deli	4/9	8	0
DPW	4/9	21.4	0
Law.Fire Dept.	4/9	28.7	0
Kevins Store	4/9	20.5	0
CWT	4/9	23.5	0
Raw	4/10	21	0

A and A deli	4/30	27.6	0
DPW	4/30	38.7	0
Law.Fire Dept.	4/30	no sample	
Kevins Store	4/30	73.1	0
CWT	4/30	51.6	0
Raw	5/1	43.1	0

June

	Date	Chloride	Sulfate
A and A deli	6/11	71.4	0
DPW	6/11	59.6	0
Law.Fire Dept.	6/11	115.6	0
Kevins Store	6/11	78.8	0
CWT	6/11	64.1	0
Raw	6/12	6	0

July

	Date	Chloride	Sulfate
A and A deli	7/23	13.1	0
DPW	7/23	21	0
Law.Fire Dept.	7/23	No Sample	
Kevins Store	7/23	15.9	0
CWT	7/23	18.1	0
Raw	7/23	32.7	0

Aug.

	Date	Chloride	Sulfate
A and A deli	8/13	9.5	0
DPW	8/13	16.1	0
Law.Fire Dept.	8/13	20.5	0
Kevins Store	8/13	18.5	0
CWT	8/13	13.1	0
Raw	8/13	4.5	0

	Date	Chloride	Sulfate
A and A deli	8/27	18.7	0
DPW	8/27	31.5	0
Law.Fire Dept.	8/27	32.3	0
Kevins Store	8/27	37.1	0
CWT	8/27	13.9	0
Raw	27-Aug	2.9	0

Sept.

	Date	Chloride	Sulfate
A and A deli	9/15	57.7	0
DPW	9/15	31.8	0
Law.Fire Dept.	9/15	no sample	0
Kevins Store	9/15	34.8	0
CWT	9/15	61.4	0
Raw		no sample	

OCT.

	Date	Chloride	Sulfate
A and A deli	10/15	41.4	0
DPW	10/15	40	0
Law.Fire Dept.	10/15	38.5	0
Kevins Store	10/15	43.4	0
CWT	10/15	55.9	0
Raw		no sample	

Nov.

	Date	Chloride	Sulfate
A and A deli	11/18	52.6	0
DPW	11/18	40.6	0
Law.Fire Dept.	11/18	no sample	
Kevins Store	11/18	48	0
CWT	11/18	83	0
Raw	11/18	27.8	n/a

Dec

	Date	Chloride	Sulfate
A and A deli	12/29	33.8	0
DPW	12/29	20.1	0
Law.Fire Dept.	12/29	20.5	0
Kevins Store	12/29	46.4	0
CWT	12/29	26.3	0
Raw	12/30	45	n/a

IOC, VOC,SOC,Nitrite and Nitrate - 2014

Date	2/19/2014	7/22/2014	
Location	Arlington Pond	Canobie	CCR - Average
Inorganics	Results/Units	Results/Units	
Beryllium	ND	ND	
Iron	0.15 mg/l	ND	
Sodium	32.6 mg/l	48.9 mg/l	40.75 mg/l
Zinc	0.0021 mg/l	ND	
Antimony	ND	ND	
Arsenic	ND	ND	
Barium	0.0149 mg/l	0.0194 mg/l	0.01715mg/l
Cadmium	ND	ND	
Chromium	ND	ND	
Copper	ND	0.0020 mg/l	
Manganese	0.0213 mg/l	1.0087 mg/l	
Nickel	ND	ND	
Selenium	ND	ND	
Thallium	ND	ND	
Mercury	ND	ND	

Semi-Volatiles

Glyphosate	ND	ND	
1,2-Dibromomethane (EDB)	ND	ND	
1,2-Dibromo-3-chloropropane	ND	ND	
Chlordane	ND	ND	
Toxaphene	ND	ND	
Aldicarb Sulfoxide	ND	ND	
Aldicarb Sulfone	ND	ND	
Oxamyl	ND	ND	
Methomyl	ND	ND	
3-Hydroxy-Carbofuran	ND	ND	
Aldicarb	ND	ND	
Carbofuran	ND	ND	
Carbaryl	ND	ND	
Methiocarb	ND	ND	
propoxou (baygon)	ND	ND	
Alachlor	ND	ND	
Aldrin	ND	ND	
Artrazine	ND	ND	
Benzo(a)pyrene	ND	ND	
Bis (2-ethylhexyl) phthalate	ND	ND	0
Butachlor	ND	ND	
Di(2-ethylhexyl)adipate	ND	ND	
2,4-Dichlorophenylacetic Acid	100%	99%	
Dieldrin	ND	ND	
Endrin	ND	ND	
Heptachlor	ND	ND	
Heptachlor epoxide	ND	ND	
Hexachlorobenzene	ND	ND	
Hexachlorocyclopentadiene	ND	ND	
Methoxychlor	ND	ND	
Metolachlor	ND	ND	
Metribuzin	ND	ND	
Pentachlorophenol	ND	ND	
Propachlor	ND	ND	
Simazine	ND	ND	
2,4,5-Trichlorobiophenyl	ND	ND	

Surrogates

1,3-Dimethyl-2-nitrobenzene	103%	106%
Pyrene-d10	106%	97%
Triphenyl phosphate	121%	127%
Perylene-d-12	116%	101%
Piclorm	ND	ND
Dicambra	ND	ND
2,4-D	ND	ND
Dinoseb	ND	ND

Volatiles

Actone	ND	ND
Benzene	ND	ND
Bromobenzene	ND	ND
Bromochloromethane	ND	ND
Bromodichloromethane	ND	8.4ug./ml.
Bromoform	ND	ND
Bromomethane	ND	ND
t-Butanol (TBA)	ND	ND
n-Butylbenzene	ND	ND
sec-Butylbenzene	ND	ND
t-Butylbenzene	ND	ND
Carbon disulfide	ND	ND
Carbon tetrachloride	ND	ND
Chlorobenzene	ND	ND
Chloroethane	ND	ND
Chloroform	ND	15 ug./ml.
Chloromethane	ND	ND
2-Chlorotoluene	ND	ND
4-Chlorotoluene	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND
Dibromochloromethane	ND	2.2 ug./ml.
1,2-Dibromomethane (EDB)	ND	ND
Dibromomethane	ND	ND
1,4 Dichlorobenzene	ND	ND
1,3-Dichlorobenzene	ND	ND
1,2-Dichlorobenzene	ND	ND
Dichlorodifluoromethane	ND	ND
1,2-Dichloroethane	ND	ND
1,1-Dichloroethane	ND	ND
cis-1,2-Dichloroethene	ND	ND
trans-1,2-Dichloroethene	ND	ND

1,1-Dichloroethene	ND	ND
1,3-Dichloropropane	ND	ND
2,2-Dichloropropane	ND	ND
1,2-Dichloropropane	ND	ND
cis-1,3-Dichloropropene	ND	ND
1,1-Dichloropropene	ND	ND
Diethyl ether	ND	ND
Diisopropyl ether (DIPE)	ND	ND
Ethyl-t-butyl ether (ETBE)	ND	ND
Ethylbenzene	ND	ND
Hexachlorobutadiene	ND	ND
2-Hexanone	ND	ND
Isopropylbenzene	ND	ND
p-Isopropyltoluene /4-Isopropyltoluene	ND	ND
2-Methoxy-2-methylbutane(TAME)	ND	ND
4-Methyl-2-pentanone(MIBK)	ND	ND
Methyl-t-butylether(MTBE)	ND	ND
Methylene Chloride	ND	ND
Napthalene	ND	ND
n-Propylbenzene	ND	ND
Styrene	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND
Tetrachloroethene	ND	ND
Tetrahydrofuran (THF)	ND	ND
Toluene	ND	ND
1,3,5-Trichlorobenzene	ND	ND
1,2,4-Trichlorobenzene	ND	ND
1,2,3-Trichlorobenzene	ND	ND
1,1,1-Trichloroethane	ND	ND
1,1,2-Trichloroethane	ND	ND
Trichloroethene	ND	ND
Trichlorofluoromethane	ND	ND
1,2,3-Trichloropropane	ND	ND
1,3,5-Trimethylbenzene	ND	ND
1,2,4-Trimethylbenzene	ND	ND
Vinyl Chloride	ND	ND
m/p-Xylene	ND	ND
O-Xylen	ND	ND
Total Xylenes	ND	ND

Surrogates

Wet Chemistry

Nitrate-Nitrogen	0.28	ND	0.14
Nitrite-Nitrogen	0	ND	0
Chloride	51 mg/l	68 mg/l	
pH	6.98	7.57	
Fluoride	ND	ND	
Sulfate (as SO ₄)	17 mg/l	9.0 mg/l	

2014
Radium, Gross Alpha, Uranium (Arlington)

Collected: 2/17/2014			
Site: Eff - finished water			
	Results	Unites	
Combined Radium	2.5 +/- 1.3	pCi/L	picocuries per liter
Compliance Gross Alph *	0.0+/- 0.4	pCi/L	
Uranium	<0.67	pCi/L	
Uranium*	<1	pCi/L	
Analytical Gross Alpha*	0.0+/- 0.4	pCi/L	
Radium 226	0.0+/- 0.09	pCi/L	
Radium 228*	2.5 +/- 1.3	pCi/L	

* NELAC Accredited Analysis

CCR report		average	
	arlington	canobie	
Combined Radium	2.5 +/- 1.3	1.8 +/- 0.9	2.15+/-1.1
Compliance Gross Alpt *	0.0+/- 0.4	0.0 +/- 0.5	0.0+/- 0.45
Uranium*	<1	<1	<1
Radium 226	0.0+/- 0.09	0.2 +/- 0.1	0.1+/- 0.095
Radium 228*	2.5 +/- 1.3	1.6 +/- 0.9	2.05+/- 1.1

2014
Radium, Gross Alpha, Uranium (Canobie)

Collected: 7/22/2014			
Site: Eff - finished water			
	Results	Unites	
Combined Radium	1.8 +/- 0.9	pCi/L	picocuries per liter
Compliance Gross Alph *	0.0 +/- 0.5	pCi/L	
Uranium	<0.67	pCi/L	
Uranium*	<1	pCi/L	
Analytical Gross Alpha*	0.0 +/- 0.5	pCi/L	
Radium 226	0.2 +/- 0.1	pCi/L	
Radium 228*	1.6 +/- 0.9	pCi/L	

* NELAC Accredited Analysis

THM and HAA5

(Samples tested once a quarter = 4 times a year)

Jan. - 1st Quarter

Location	Date	THM	HAA5
Work N Gear	2/13/14	34	20
Salem Lib.	2/13/14	31	24
DPW	2/13/14	32	24
Kevin's Store	2/13/14	33	19
Average		32.5	21.75

THM	HAA5
Average	Average

Running Average of TTHM & HAA5

Date	Average	TTHM	HAA5
4/15/2014	2nd Quart.	26.5	20
7/16/2014	3rd Quart.	40	14.5
11/15/2013	4th Quart.	33	17
2/13/2014	1st Quart.	32.5	21.75
Annual Run Ave.		33	18.3125

CCR report		
THM	HAA5	
26.5	20	
40	14.5	
32.5	21.75	
Average	33	22.33333

April - 2nd Quarter

Location	Date	THM	HAA5
Work N Gear	4/15	28	20
Salem Lib.	4/15	23	20
DPW	4/15	26	19
Kevin's Store	4/15	29	21
Average			

26.5 20

July - 3rd Quarter

Location	Date	THM	HAA5
Work N Gear	7/16/14	45	16
Salem Lib.	7/16/14	36	17
DPW	7/16/14	40	13
Kevin's Store	7/16/14	39	12
Average			

40 14.5

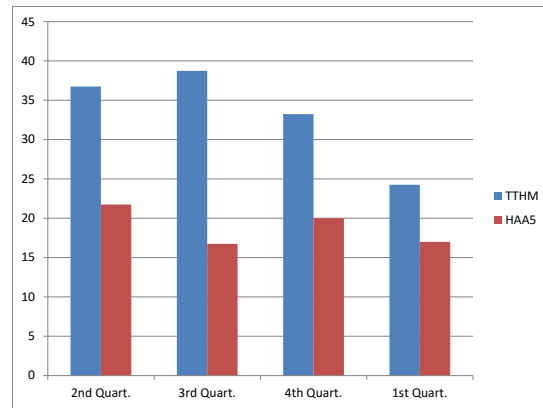
Oct - 4th Quarter

*Note: New Locations

Location	Date	THM	HAA5
Work N Gear	11/15/13	41	22
Salem Lib.	11/15/13	29	17
DPW	11/15/13	33	16
Kevin's Store	11/15/13	29	13
Average		33	17

33 17

Yearly Average



**TOC and UV254
2015**

**Running average TOC
Finished Water - EFF - 2011 - Run 2015**

Jan				2014				(Monthly testing)				*Note
	Date	TOC	UV254									
Eff	1/15	2.5	0.050cm ⁻¹	2014 Jan	2.6	Arl. Pond		2015 Jan	2.5	Arl. Pond		
Raw	1/15	4.6	0.132cm ⁻¹	2014 Feb	2.8	Arl. Pond		2015 Feb	2.2	Arl. Pond		
				2014 March	2.2	Arl. Pond		2015 March	2.2	Arl. Pond		
				2014 April	2.2	Arl. Pond		2015 April	1.9	Arl. Pond		
				2014 May	2.1	Canobie		2015 May	2.5	Canobie		
				2014 June	3.1	Canobie		2015 June	2.3	Canobie		
				2014 July	3	Canobie		2015 July	2.3	Canobie		
				2014 Aug	3.2	Canobie		2015 Aug	2.3	Canobie		
				2014 Sept	3.1	Canobie		2015 Sept	2.5	Canobie		
				2014 Oct	2.9	Canobie		2015 Oct	2	Canobie		
				2014 Nov	2.7	Canobie		2015 Nov	1.9	Canobie		
				2014 Dec	2.8	Arl. Pond		2015 Dec	1.7	Arl. Pond		
				Total	32.7			Total	26.3			
				Yearly Average	2.725			Yearly Average	2.191667			
								CCR report 2.192				
Feb												
	Date	TOC	UV254									
Eff	2/12	2.2	0.044cm ⁻¹									
Raw	2/12	4	0.116cm ⁻¹									
March												
	Date	TOC	UV254									
Eff	3/9	2.2	0.045cm ⁻¹									
Raw	3/9	4	0.113cm ⁻¹									
April												
	Date	TOC	UV254									
Eff	4/9	1.9	0.041cm ⁻¹									
Raw	4/9	3.5	0.110cm ⁻¹									
May												
	Date	TOC	UV254									
Eff	5/12	2.5	0.043cm ⁻¹									
Raw	5/12	3.5	0.058cm ⁻¹									
June												
	Date	TOC	UV254									
Eff	6/4	2.3	0.041cm ⁻¹									
Raw	6/4	3.3	0.065cm ⁻¹									
July												
	Date	TOC	UV254									
Eff	7/16	2.3	0.046cm ⁻¹									
Raw	7/16	3.2	0.069cm ⁻¹									
Aug.												
	Date	TOC	UV254									
Eff	8/11	2.3	0.028cm ⁻¹									
Raw	8/11	3.2	0.051cm ⁻¹									
Sept												
	Date	TOC	UV254									
Eff	9/3	2.5	0.038cm ⁻¹									
Raw	9/3	3.5	0.062cm ⁻¹									
Oct												
	Date	TOC	UV254									
Eff	10/13	2	0.037cm ⁻¹									
Raw	10/13	3.1	0.055cm ⁻¹									
Nov												
	Date	TOC	UV254									
Eff	11/9	1.9	0.036cm ⁻¹									
Raw	11/9	2.8	0.056cm ⁻¹									
Dec												
	Date	TOC	UV254									
Eff	12/10	1.7	0.039cm ⁻¹									
Raw	12/10	3	0.076cm ⁻¹									

Daily Laboratory Testing
2016

Site:
JAN.

Raw

	Turbidity NTU	Alk/T mg/L	Color PtCo	pH	Tempt. °C
1	0.819	15.35	12	6.86	9.2
2	0.729	14.56	25	6.29	8
3	0.752	15.12	24	6.59	9
4	0.788	15.71	26	6.782	8.6
5	0.854	15.19	24	6.731	7.5
6	0.736	15.96	21	6.894	7.3
7	0.795	17.04	24	7.117	8.7
8	0.769	16.32	21	7.09	5
9	0.709	15.13	20	6.83	4.6
10	0.711	15.28	21	6.85	4.8
11	0.689	16.36	24	6.82	8.9
12	0.744	16.25	24	6.936	7.7
13	0.702	16.12	25	7.184	7.184
14	0.715	17.63	25	7.22	4.6
15	0.771	15.88	26	6.965	7.8
16	0.947	16.32	30	6.97	7.7
17	0.999	16.08	37	6.76	7.8
18	1.21	16.01	34	6.95	7.6
19	1.16	15.71	34	6.62	7.3
20	0.924	15.78	33	6.841	8.1
21	0.887	16.15	35	6.954	7.8
22	0.836	16.97	30	6.734	8.5
23	0.76	14.55	35	6.934	7.8
24	0.715	15.23	34	6.78	7.8
25	0.899	15	31	6.729	9.3
26	0.786	16.64	33	6.73	8.5
27	0.74	17.1	31	6.881	8.7
28	0.758	18.2	25	7.031	13.4
29	0.78	17.31	24	6.913	9.6
30					
31					

Daily Laboratory Testing
2016

Site:	Clarifiers			Filtered		
JAN.	#1			#1		
	Turbidity	Color	pH	Turbidity	pH	Alum.
1	0.592	9		0.101	6.22	
2	0.446	8	6.29	0.091	6.26	
3	0.453	8		0.097		
4	0.711	9	6.181	0.089	6.219	
5	0.588	8	5.96	0.09	6.121	
6	0.579	4	6.19	0.088	6.226	
7	0.465	9	6.158	0.094	6.348	0.029
8	0.765	8	6.4	0.09*9	6.43	
9	0.703	7		0.126		
10	0.543	5		0.108		
11	0.496	7	6.245	0.08	6.407	
12	0.557	8	6.112	0.08	6.222	
13	0.597	8	6.18	0.088	6.316	
14	0.587	7	6.43	0.091	6.8	
15	0.71	10	6.295	0.101	6.364	0.021
16	0.739	11	6.29	0.117		
17	0.724	13		0.161	6.2	
18	0.915	16	6.34	0.132	6.31	
19	0.948	13	6.293	0.146	6.193	
20	0.912	13	6.154	0.102	6.211	
21	0.698	12	6.489	0.12	6.57	0.039
22	0.833	14	6.171	0.126	6.233	
23	0.942	15	6.365	0.104	6.383	
24	0.779	13	6.3	0.11	6.37	
25	0.698	11	6.634	0.104	6.291	
26						
27						
28	0.667	5	6.435	0.107	6.37	0.023
29	0.723	7	6.347	0.166	6.27	
30						
31						

Daily Laboratory Testing
2016

Site:	Clarifiers			Filtered		
JAN.	#2			#2		Alum.
	Turbidity	Color	pH	Turbidity	pH	
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14	0.561	7		0.086		
15	0.623	14		0.099		
16	0.649	9		0.128	6.27	
17	0.928	15	6.31	0.14		
18						
19						
20	0.794	12		0.125		
21	0.881	13		0.099		
22	0.759	13		0.102		
23	0.783	12		0.114		
24	0.998	12		0.127		
25						
26	0.993	17	6.186	0.114	6.289	
27						
28						
29						
30						
31						

Daily Laboratory Testing
2016

Site:	Clarifiers			Filtered		
JAN.	#3			#3		
	Turbidity	Color	pH	Turbidity	pH	Alum.
	NTU	PtCo		NTU		
1	0.47	7	6.25	0.123		
2	0.477	7		0.088		
3	0.84	13	6.32	0.075	6.29	
4	0.53	8		0.094		
5	0.496	7		0.085		
6	0.499	2		0.086		
7	0.546	11		0.093		
8	0.488	6		0.105		
9	0.512	6	6.36	0.105	6.47	
10	0.893	8	6.31	0.105	6.38	
11	0.486	7		0.085		
12	0.649	9		0.085		
13	0.623	9		0.088		
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25	0.71	11		0.196		
26	0.996	18		0.107		
27	0.982	14	6.444	0.119	6.422	
28	0.936	8		0.125		
29	0.812	3		0.098		
30						
31						

Daily Laboratory Testing

Site: 2016

Clearwell

JAN.

	Turbidity	pH	Tempt.
1	0.125	6.43	7.4
2	0.096	6.46	7.8
3	0.088	6.4	7.7
4	0.087	6.431	8.7
5	0.095	6.42	9.7
6	0.109	6.284	7.4
7	0.099	6.588	7.4
8	0.13	6.65	4.8
9	0.14	6.62	4.6
10	0.13	6.55	4.7
11	0.104	6.394	7.6
12	0.099	6.482	9
13	0.112	6.556	7.4
14	0.113	6.49	5.6
15	0.117	6.506	6.3
16	0.116	6.49	6.4
17	0.148	6.43	6.5
18	0.141	6.44	6.9
19	0.151	6.642	7.3
20	0.19	6.457	6.9
21	0.164	6.527	8.1
22	0.136	6.561	11.1
23	0.123	6.603	8.1
24	0.113	6.43	7.9
25	0.158	6.698	12.4
26	0.118	6.494	10.2
27	0.142	6.6	6.9
28	0.139	6.47	13.7
29	0.161	6.451	10.7
30			
31			

Site: 100 Foot Sample Line - EFF
JAN.

[illegible]

Daily Laboratory Testing
2016

Site:
Feb.

Raw

	Turbidity NTU	Alk/T mg/L	Color PtCo	pH	Tempt. °C
1	0.775	15.69	35	6.97	5.4
2	0.677	14.1	33	6.68	9
3	0.826	16.1	32	6.877	11.5
4	0.746	16.64	29	6.921	10.9
5	0.671	16.78	30	6.996	6.1
6	0.627	14.25	32	6.93	6.1
7	0.635	14.96	28	6.9	6.1
8	0.618	16.21	28	6.756	9.2
9	0.641	12.96	26	6.443	9.1
10	0.651	16.6	23	6.871	9.3
11	0.793	15.89	24	6.762	10.1
12	0.863	15.43	24	6.65	8
13	0.768	15.85	26	6.83	8.1
14	0.691	16.38	29	7	7.5
15	0.781	16.44	32	6.95	7.7
16	0.763	15.62	30	6.96	5
17	0.77	14.96	31	7.04	4.7
18	0.711	15.35	30	6.81	5
19	0.626	16.03	26	6.882	8.9
20	0.736	16.26	28	7.06	5.1
21	0.625	15.99	30	7.03	5.1
22	0.753	16.28	27	7.029	9.4
23	0.621	16.53	27	6.873	9.2
24	0.618	16.44	22	6.848	9.9
25	0.596	16.36	25	6.961	10.5
26	0.644	21.52	26	7.407	9
27	0.758	14.79	21	6.97	8.7
28	0.646	14.2	27	6.01	9.3
29	0.587	15.71	23	7.156	9.4
30					
31					

Daily Laboratory Testing
2016

Site: Feb.	Clarifiers #1			Filtered #1		
	Turbidity	Color	pH	Turbidity	pH	Alum.
1	0.832	18	6.41	0.139	6.44	
2	0.863	18		0.121	6.28	
3	0.792	15	6.292	0.097	6.342	0.028
4	0.735	12	6.316	0.119	6.34	
5						
6 * note		12	6.33	0.078	6.32	
7 * note		10		0.084		
8 * note		11	6.265	0.071	6.433	
9 * note		9	6.27	0.076	6.211	
10 * note		8	6.226	0.075	6.261	0.018
11	0.629	10	6.186	0.099	6.209	
12	1.15	9	6.149	0.103	6.188	
13	0.618	6.3	11	0.119		
14	0.658	9		0.137	6.39	
15	0.986	15		0.146	6.22	
16	0.598	6	6.38	0.095	6.51	
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						

Daily Laboratory Testing
2016

Site: Feb.	Clarifiers #2			Filtered #2		
	Turbidity	Color	pH	Turbidity	pH	Alum.
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17	0.889	6	6.43	0.145	6.5	
18	0.939	15		0.122		
19	1.01	16	6.638	0.103	6.429	0.028
20	881	10	6.7	0.095	6.63	
21	0.596	10		0.124		
22	0.751	13	6.346	0.098	6.359	
23	0.705	12	6.571	0.116	6.675	
24	1.01	10	6.352	0.09	6.376	
25	0.891	13	6.297	0.098	6.339	0.021
26	0.854	13	6.279	0.109	6.296	
27						
28	0.695	11	6.24	0.138		
29	0.958	12	6.385	0.094	6.322	
30						
31						

Daily Laboratory Testing
2016

Site:	Clarifiers			Filtered			
Feb.	#3			#3			
	Turbidity	Color	pH	Turbidity	pH	Alum.	
	NTU	PtCo		NTU			
1	0.793	15		0.116			
2	0.67	16	6.34	0.094			
3	0.719	17		0.099			
4	0.729	9		0.143			
5 *note		10	6.309		6.337		
6 *note		8		0.064			
7 *note		9	6.25	0.069	6.29		
8 *note		10		0.069			
9 *note		9		0.067			
10 *note		6		0.067			
11	0.845	12		0.088			
12	0.86	13		0.1			
13	0.777	10		0.101	6.26		
14	0.857	12	6.37	0.095			
15	0.625	11	6.4	0.105			
16	0.783	8		0.107			
17	0.836	5		0.088			
18	0.781	11	6.37	0.11	6.43		
19	0.733	12		0.099			
20	0.712	11		0.083			
21	0.64	12	6.34	0.64	12	6.34	
22	0.859	12		0.12			
23	0.858	17		0.105			
24	0.692	6		0.11			
25	0.738	11		0.14			
26	0.684	12		0.101			
27	0.671	6	6.17	0.144	6.24		
28	0.628	14		0.127	6.27		
29	0.848	12		0.12			
30							
31							

Daily Laboratory Testing

Site: 2016

Clearwell

Feb.

	Turbidity	pH	Tempt.
1	0.135	6.58	5.3
2	0.119	6.46	8.5
3	0.105	6.515	10.7
4	0.124	6.498	9.5
5	*note	6.374	9.8
6	*note	6.52	6
7	*note	6.52	6
8	*note	6.571	9.3
9	*note	6.408	9.8
10	*note	6.412	7.9
11	0.123	6.359	8.7
12	0.101	6.365	10
13	0.108	6.97	7.6
14	0.118	6.43	6.9
15	0.115	6.5	6.6
16	0.11	6.79	5
17	0.107	6.65	4.8
18	0.122	6.67	5
19	0.125	6.821	8.8
20	0.119	6.82	5.2
21	0.138	6.58	5.3
22	0.131	6.539	8.4
23	0.149	6.599	8.5
24	0.179	6.76	7.4
25	0.148	6.461	8
26	0.113	6.456	8
27	0.168	6.39	7.8
28	0.136	6.45	8.6
29	0.105	6.47	8.5
30			
31			

Daily Laboratory Testing
2016

Site: 100 Foot Sample Line - EFF

Feb.

Day	Turbidity NTU	pH	Mono/ Free Am mg/L	Color/ Hardness PtCo/mg/L	Total Chlorine mg/L	free mg/L	Alk/P Alk/T mg/L	Calcium/ mg/L	Conductivity uS/CM
1	0.107	7.74	2.15/0.02	3/	2.22	0	0/25.52		288.6
2	0.117	7.62	2.09/0.16	3/	2.6	0	0/25.5		282.8
3	0.098	8.162	2.43/0.04	5/	2.66	0	0/25.4		282.5
4	0.118	7.986	2.08/0.15	6/	2.4	0.07	0/25.81		283.4
5	*note	8.585	2.04/0.14	3/	2.14	0.01	0/25.37		285.9
6	0.06	7.82	2.13/0	2/	2.06	0.02	0/23.11		285.8
7	0.072	7.66	2.06/0	1/	2.16	0.02	0/23.75		284.9
8	0.051	7.407	2.21/0	5/	2.44	0	0/25.19		281.5
9	0.059	7.177	2.22/0	5/	2.44	0	0/25.17		282
10	0.055	7.025	1.33/0.03	0/36	2.4	0.09	0/25.6	12.8	281.2
11	0.106	7.684	2.44/0.04	0/	2.37	0	0/24.78		271.9
12	0.094	7.979	2.26/0.11	0/	2.56	0	0/25.55		270.4
13	0.105	7.69	1.69/0	1/	2.29	0	0/24.74		274
14	0.139	7.71	1.57/0.07	1/	2.17	0	0/24.58		273.9
15	0.097	7.83	1.30/0.20	3/	2.33	0	0/24.78		276.4
16	0.083	8.6	2.08/0	2/	2.12	0.02	0/24.76		274.8
17	0.113	8.41	2.11/0.02	2/	2.36	0.04	0/23.25		271.8
18	0.105	8.38	2.18/0.02	2/	2.26	0.04	0/24.19		276.4
19	0.108	8.229	2.32/.01	2/32	2.34	0	0/26.07	12	273.7
20	0.095	7.58	2.22/0.01	2/	2.28	0	0/25.97		277
21	0.124	7.32	1.92/0.08	1/	2.29	0.02	0/24.07		276.2
22	0.103	8.569	2.37/0.05	5/	2.68	0	.8951/25.47		274.6
23	0.113	8.474	2.20/0.05	2/	2.31	0	0/26.05		276.2
24	0.131	8.305	2.14/0.15	0/	2.34	0	0/25.97		279.3
25	0.108	8.04	2.05/0.14	1/	2.64	0.07	0/25.03		274.1
26	0.117	8.267	1.99/0.17	2/	2.1	0	0.186/25.15		274.4
27	0.123	7.55	1.80/0.08	1/	2.48	0	0/23.21		249.3
28	0.108	7.89	2.18/0.04	2/	2.32	0	0/24.18		253.1
29	0.101	9.11	2.42/0.01	1/	2.65	0	4.851/23.66		260.1
30									
31									

* Note Machine down 2/5 to 2/10. some of the turb. Results were taken from SCADA

Daily Laboratory Testing
2016

Site:	Raw				
March					
	Turbidity	Alk/T	Color	pH	Tempt.
	NTU	mg/L	PtCo		°C
1	0.674	15.1	24	6.772	10
2	0.755	15.1	23	6.645	10.6
3	0.789	15.25	25	6.684	10
4	0.733	14.97	26	6.771	9.7
5	0.65	14.93	27	7.08	5.4
6	0.627	12.43	28	6.969	7.7
7	0.636	15.59	23	7.059	9.3
8	0.657	15.16	21	6.969	10
9	0.874	14.88	24	6.812	10
10	0.602	14.68	25	6.806	10.4
11	0.597	14.46	24	6.812	10.5
12	0.596	14.55	24	6.89	11.1
13	0.591	14.53	23	6.79	10.9
14	0.552	14.63	20	6.828	11.8
15	0.548	14.6	23	6.754	12.6
16	0.595	15.02	19	6.847	11.2
17	0.564	14.64	22	6.826	11.5
18	0.589	15.01	23	6.816	12.4
19	0.605	14.11	22	7.11	9.4
20	0.599	14.32	23	7.054	12
21	0.586	14.93	22	6.923	11.2
22	0.642	14.88	20	7.07	9
23	0.574	13.55	24	6.82	9.1
24	0.633	14.52	24	6.89	9.3
25	0.583	14.86	22	7.32	9
26	0.899	22.5	17	7.429	11.4
27	0.464	23.88	12	7.19	11.2
28	0.503	23.26	22	7.194	12.9
29	0.614	13	21	6.8	9.1
30	0.626	14.76	23	6.961	11.6
31	0.761	14.48	24	6.936	12.4

Daily Laboratory Testing
2016

Site: March	Clarifiers #1			Filtered #1		
	Turbidity	Color	pH	Turbidity	pH	Alum.
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15	0.588	6	6.169	0.213	6.183	
16	0.555	4	6.309	0.082	6.266	
17	0.564	8	6.173	0.097	6.173	0.025
18	0.603	11	6.408	0.078	6.376	
19	0.63	10	6.24	0.085	6.24	
20	0.601	8	6.33	0.08	6.423	
21	0.545	6.151	9	0.076	6.354	
22	0.751	9		0.088		
23	0.864	6.09	11	0.091	6.19	
24	0.612	11		0.088		
25	0.703	12	6.12	0.101	6.21	
26						
27						
28						
29						
30						
31						

Daily Laboratory Testing
2016

Site: March	Clarifiers #2			Filtered #2		
	Turbidity	Color	pH	Turbidity	pH	Alum.
1	0.887	11	6.099	0.096	6.223	
2	0.745	10	6.279	0.113	6.209	
3	0.811	10	6.173	0.12	6.094	0.045
4						
5						
6	0.991	14	6.273	0.14	6.218	
7	1.01	13	6.048	0.088	6.134	
8	1.04	11	6.107	0.091	6.129	
9	0.707	11	6.09	0.103	6.296	0.045
10						
11	0.809	14	6.085	0.088	6.205	
12	0.736	16	6.23	0.098		
13	0.772	15		0.119	6.2	
14	0.351	7	6.178	0.071	6.329	
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26	0.323	6	6.855	0.161	8.805	
27	0.391	6		0.117	6.93	
28	0.3284	6.743	0.113	6.763		
29	1	12	6.25	0.089	6.29	
30	0.658	13	6.403	0.093	6.238	
31	0.715	11	6.321	0.086	6.335	

Daily Laboratory Testing
2016

Site:	Clarifiers			Filtered		
March	#3			#3		
	Turbidity	Color	pH	Turbidity	pH	Alum.
	NTU	PtCo		NTU		
1	0.846	7		0.101		
2	0.635	9		0.109		
3	1.05	10		0.113		
4	0.582	8	6.402	0.1	6.161	
5	0.531	6	6.33	0.109	6.28	
6	0.952	12		0.102		
7	0.576	10		0.119		
8	0.657	4	0.096			
9	0.629	9		0.137		
10	0.674	8	6.168	0.139	6.149	
11	0.717	11		0.082		
12	0.634	13		0.087	6.13	
13	0.616	13	6.23	0.141		
14						
15	0.865	9		0.097		
16	0.651	6		0.087		
17	0.523	11		0.092		
18						
19	0.489	8		0.073		
20	0.493	8		0.079		
21	0.763	10		0.083		
22	0.63	8	6.2	0.091	6.25	
23	0.742	7		0.1		
24	0.648	8	6.18	0.082	6.26	
25	0.683	8		0.088		
26	0.396	6		0.161		
27	0.254	5	6.79	0.198		
28	0.466	7		0.138		
29	0.589	7		0.087		
30	0.626	9		0.086		
31	0.678	9		0.094		

Daily Laboratory Testing

Site: 2016

Clearwell

March

	Turbidity	pH	Tempt.
1	0.117	6.537	8.9
2	0.132	6.377	9.8
3	0.139	6.118	8.9
4	0.109	6.434	10.3
5	0.17	6.56	5.5
6	0.104	6.462	7.2
7	0.114	6.363	9.4
8	0.109	6.654	9.3
9	0.125	6.501	8.4
10	0.127	6.368	10.6
11	0.114	6.247	9.2
12	0.108	6.3	10.2
13	0.151	6.4	10.3
14	0.088	6.348	10.7
15	0.103	6.432	11.1
16	0.104	6.397	10.3
17	0.128	6.453	11.1
18	0.095	6.436	10.9
19	0.099	6.43	9.5
20	0.102	6.451	13.4
21	0.098	6.432	10.2
22	0.101	6.45	9.1
23	0.097	6.46	9
24	0.093	6.45	9.3
25	0.093	6.35	9.2
26	0.144	6.814	13.5
27	0.137	6.87	10.2
28	0.161	6.912	12.4
29	0.15	6.53	9
30	0.113	6.508	11.1
31	0.1	6.518	10.9

Daily Laboratory Testing
2016

Site: 100 Foot Sample Line - EFF
March

Day	Turbidity NTU	pH	Mono/ Free Am mg/L	Color/ Hardness PtCo/mg/L	Total Chlorine mg/L	free mg/L	Alk/P Alk/T mg/L	Calcium/ mg/L	Conductivity uS/CM
1	0.113	7.81	2.57/0	0/	2.55	0.01	0/24.33		269.2
2	0.097	7.765	2.27/0.10	0/	2.39	0	0/25.32		269.3
3	0.129	7.385	2.15/0.06	1/32	2.42	0.11	0/23.54	12.02	276.2
4	0.106	7.499	2.24/0.10	1/	2.28	0	0/24.07		271
5	0.112	7.35	2.36/0.04	1/	2.42	0	0/23.17		277.6
6	0.111	7.485	2.50/0.05	2/	2.46	0	0/23.47		275.2
7	0.099	8.729	2.42/0	1/	2.97	0	4.005/23.72		275.7
8	0.114	9.344	2.22/0.11	0/	2.49	0	6.362/23.89		274.2
9	0.131	9.234	2.30/0.12	3/	2.57	0.07	3.274/24.83		374.2
10	0.09	8.97	2.23/0.10	0/	2.63	0	5.151/23.86		264.6
11	0.111	8.513	2.12/0.15	2/	2.47	0	0.8953/22.51		273.7
12	0.109	8.49	1.97/0.17	3/	1.97	0	0/23.45		267.6
13	0.099	8.95	1.97/0.09	3/	2.05	0	3.58/23.31		266.8
14	0.079	9.326	1.82/0.21	0/	2.1	0	7.76/23.02		268.4
15	0.097	8.765	1.95/0.24	2/	2.08	0.03	3.357/23.91		270.9
16	0.093	8.087	1.99/0.18	0/	2.07	0.09	0/23.12		272.4
17	0.094	8.812	2.33/0.16	3/	2.53	0.01	3.356/23.63		271.9
18	0.092	7.196	1.82/0.23	2/	2.19	0.12	0/23.38		268.8
19	0.089	9.05	2.10/0.02	1/	2.24	0.04	5.19/21.69		270
20	0.085	6.749	1.95/0.19	1/	2.01	0	0/21.51		277.2
21	0.084	9.075	2.04/0.18	2/	2.26	0	5.969/24.03		272.6
22	0.098	8.98	2.12/0.09	2/	2.12	0.02	3.92/23.43		269.2
23	0.127	9.05	2.23/0.02	0/	2.02	0.04	5.13/23.92		273
24	0.139	8.75	1.92/0.09	1/	1.98	0	2.53/24.03		272.4
25	0.095	8.75	2.19/0.08	1/	2.1	0	2.36/21.77		273.5
26	0.133	6.799	2.45/0.02	1/	2.56	0	0/23.36		318.8
27	0.089	7.31	2.40/0.04	2/	2.52	0	0/29/46		350.7
28	0.08	8.18	2.17/0.10	0/	2.44	0	0/30.31		351.2
29	0.095	9	2.26/0.02	1/	2.1	0.04	5.27/23.68		272.2
30	0.095	9.031	1.90/0.17	2/	2.32	0.1	5.145/24.21		275.8
31	0.092	9.308	2.27/0.10	1/	2.28	0	6.411/24.64		275.8

Daily Laboratory Testing
2016

Site:
April

Raw

	Turbidity NTU	Alk/T mg/L	Color PtCo	pH	Tempt. °C
1	0.634	19.98	24	7.533	15.3
2	0.452	14.76	22	6.77	10.8
3	0.659	13.49	24	6.68	11
4	0.602	14.23	23	6.708	12.2
5	0.657	14.28	25	6.958	12.8
6	0.758	14.68	19	6.992	12.5
7	0.569	14.11	27	7.01	13.8
8	0.629	15.41	37	7.244	14.1
9	0.716	14.66	20	6.92	12.3
10	0.619	14.63	35	6.84	12
11	0.725	14.07	25	6.32	12.4
12	0.725	14.07	25	6.32	12.4
13	0.698	14.87	28	6.989	12.6
14	0.68	14.71	26	6.771	13.4
15	0.755	14.19	23	6.73	13.2
16	0.801	13.28	22	7.09	11.6
17	0.983	13.67	28	7.102	14
18	0.821	14.71	25	6.753	14.5
19	1.19	14.61	32	6.679	12.8
20	0.818	15.29	21	6.956	15.4
21	1.25	15.25	27	6.942	15.5
22	1.171	15.43	24	6.858	15.2
23	1.15	14.01	29	7.01	14.09
24	1.43	15.09	37	7	16.4
25	1.43	15.47	41	7.036	16.3
26	1.54	15.18	44	6.913	16.1
27	1.3	15.49	39	7.103	15.6
28	1.21	25.08	40	7.06	15.9
29	1.54	15.13	40	6.935	16.3
30	1.79	15.07	34	6.86	15.3
31					

Daily Laboratory Testing
2016

Site:	Clarifiers			Filtered		
April	#1			#1		
	Turbidity	Color	pH	Turbidity	pH	Alum.
1						
2						
3	0.57	6.21	10	0.095	6.2	
4	0.551	8	6.136	0.079	6.2222	
5						
6	0.706	6	6.196	0.108	6.309	
7	0.506	8	6.377	0.081	6.389	0.021
8	0.578	8	6.359	0.093	6.255	
9	0.461	6	6.33	0.121		
10	0.509	9		0.125		
11	0.46	9	6.233	0.102	6.252	
12	0.436	5	6.323	0.127	6.422	
13	0.535	10	6.276	0.103	6.282	
14	0.578	9	6.274	0.101	3.327	0.014
15	0.464	7	6.286	0.091	6.47	
16	0.483	6	6.29	0.093	6.34	
17	0.604	6	6.295	0.098	6.321	
18	0.557	9	6.283	0.093	6.14	
19	0.627	11	6.272	0.108	6.284	
20	0.571	5	6.458	0.101	6.34	
21	0.558	7	6.28	0.105	6.291	0.023
22	0.471	3	6.433	0.101	6.304	
23	0.763	15		0.114	6.28	
24	0.637	9	6.32	0.127		
25	0.407	10	6.346	0.098	6.375	
26						
27	0.475	9	6.405	0.105	6.45	0.025
28	0.614	14		0.132	6.33	
29	0.579	10	6.378	0.103	6.372	
30	0.626	8	6.32	0.222		
31						

Daily Laboratory Testing
2016

Site:	Clarifiers			Filtered		
April	#2			#2		
	Turbidity	Color	pH	Turbidity	pH	Alum.
1	0.776	12	6.287	0.137	6.321	
2						
3	0.685	11		0.068		
4	0.561	11		0.073		
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						

Daily Laboratory Testing
2016

Site: April	Clarifiers #3			Filtered #3		
	Turbidity NTU	Color PtCo	pH	Turbidity NTU	pH	Alum.
1						
2	0.432	5	6.3	0.085	6.3	
3						
4						
5	0.791	11	6.275	0.09	6.24	
6	0.613	4		0.096		
7	0.596	10		0.082		
8	0.686	12		0.098		
9	0.621	8		0.103	6.3	
10	0.696	10	6.3		6.22	
11						
12	0.608	11		0.106		
13	0.865	10		0.089		
14	0.729	11		0.091		
15						
16	0.673	10		0.098		
17	0.946	4		0.106		
18	0.696	10		0.089		
19	0.673	12		0.086		
20	0.544	6		0.1		
21	0.75	8		0.087		
22	0.61	6		0.107		
23	1.05	19	6.36	0.121		
24	0.732	13		0.095	6.3	
25	0.576	10		0.089		
26	0.696	10	6.39	0.098	6.368	
27	0.619	11		0.109		
28	0.626	12	6.4	0.11		
29	0.664	13		0.108		
30						
31	0.649	16		0.124	6.29	

Daily Laboratory Testing

Site:

2016

Clearwell

April

	Turbidity	pH	Tempt.
1	0.207	6.535	11.4
2	0.105	6.52	10.7
3	0.18	6.56	11.4
4	0.096	6.436	11.9
5	0.093	6.428	11.1
6	0.107	6.351	10.7
7	0.095	6.534	10.5
8	0.137	6.369	12.2
9	0.114	6.52	11.5
10	0.099	6.39	11.8
11	0.086	6.456	12.4
12	0.123	6.542	11.5
13	0.108	6.466	11.3
14	0.1	6.461	12.7
15	0.102	6.662	12.8
16	0.105	6.56	11.7
17	0.164	6.523	15.8
18	0.097	6.514	13
19	0.105	6.461	13.7
20	0.112	6.464	14.3
21	0.104	6.433	14.8
22	0.124	6.545	14.5
23	0.109	6.47	14.3
24	0.109	6.49	16
25	0.098	6.561	16
26	0.124	6.501	16
27	0.118	6.627	15.2
28	0.103	6.53	15.4
29	0.11	6.529	15.4
30	0.118	6.52	14.8
31			

Site: 100 Foot Sample Line - EFF
April

[illegible]

Daily Laboratory Testing
2016

Site:
May

Raw

	Turbidity NTU	Alk/T mg/L	Color PtCo	pH	Tempt. °C
1	0.662	15.06	36	6.54	15.3
2	1.38	15.5	34	7.105	15.5
3	1.44	15.48	44	7.063	15.7
4	1.83	15.45	38	6.829	15.6
5	1.75	15.69	36	6.918	15.3
6	1.24	15.31	32	7.039	15.1
7	1.01	15.76	34	7.124	15.8
8	1.23	15.35	35	6.743	15.6
9	0.94	15.57	30	7.029	15.3
10	1.49	15.75	36	7.054	15.5
11	1.07	15.73	24	7.089	16.3
12	0.96	16.5	27	6.91	17.5
13	0.991	16.25	29	7.025	17.7
14	0.989	17.1	29	7.05	17.1
15	0.861	17.4	31	6.99	17.4
16	1.4	18.7	30	6.835	18.7
17	1.12	18.3	34	6.819	18.3
18	0.913	16.2	15	7.109	16.2
19	11.2	24.59	30	7.04	19.4
20	0.466	24.6	12	7.317	19.4
21	0.467	23.91	12	7	19.2
22	0.449	24.37	15	7.26	19.9
23	0.493	24.64	14	7.29	20.4
24	0.465	24.43	10	7.393	19.9
25	0.464	24.35	11	7.387	20.8
26	0.497	24.35	11	7.511	20.4
27	0.414	25.06	10	7.74	20.5
28	0.501	24.98	14	7.03	20.6
29	0.439	24.22	11	7.21	20.5
30	0.491	24.55	12	6.92	20.5
31	0.739	23.02	11	6.71	24.04

Daily Laboratory Testing
2016

Site:	Clarifiers			Filtered		
May	#1			#1		
	Turbidity	Color	pH	Turbidity	pH	Alum.
1	0.562	15		0.102		
2	0.515	12	6.343	0.089	6.408	
3	0.489	12	6.48	0.103		
4						
5	0.662	14	6.361	0.102	6.36	0
6	0.528	9	6.36	0.106	6.342	
7	0.728	5	6.449	0.099	6.442	
8	0.658	4	6.457	0.133	6.463	
9	0.495	12	6.447	0.091	6.416	
10	0.608	7	6.529	0.082	6.407	
11	0.497	4	6.362	0.086	6.311	0.019
12	0.447	8	6.344	0.114	6.498	
13	0.485	8	6.414	0.134	6.37	
14	0.609	9	6.4	0.106		
15	0.424	9		0.114	6.34	
16	0.517	6	6.408	0.098	6.39	
17	0.422	6	6.339	0.097	6.349	
18	0.203	2	6.817	0.116	6.458	
19	0.234	3	6.905	0.089	6.883	0.013
20	0.194	4	6.887	0.092	6.829	
21	0.19	3	6.85			
22	0.592	12		0.1		
23	0.315	3	6.854		6.873	
24	0.163	2	6.845	0.097	6.875	
25	0.187	4	6.856	0.107	6.916	
26	0.204	4	6.848	0.088	6.85	0.02
27	0.289	4	6.83	0.084	6.84	
28		7	6.87	0.107		
29		6		0.102	6.86	
30		7		0.096		
31						

Daily Laboratory Testing
2016

Site:	Clarifiers			Filtered		
May	#2			#2		
	Turbidity	Color	pH	Turbidity	pH	Alum.
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16	0.411	4		0.1		
17	0.612	10		0.1		
18	0.213	1		0.072		
19	0.244	4		0.086		
20	0.274	4		0.099		
21	0.089	2		0.072	6.8	
22	0.241	3	6.88	0.089		
23	0.175	2		0.087		
24	0.174	1		0.085		
25	0.185	1		0.1		
26	0.185	4		0.09		
27	0.25	4		0.094		
28		12		0.063		
29		7	6.88	0.059		
30		5		0.067	6.27	
31	0.291	6	6.81	0.083	6.8	

Daily Laboratory Testing
2016

Site: May	Clarifiers		Filtered			Alum.
	#3			#3		
	Turbidity	Color	pH	Turbidity	pH	
	NTU	PtCo		NTU		
1	0.582	9	6.33	0.158	6.36	
2	0.652	10		0.093		
3	0.781	12		0.133		
4	0.767	15		0.101		
5	0.593	11		0.12		
6	0.588	6	6.336	0.103	6.4	
7						
8	0.783	4		0.1		
9	0.592	12		0.09		
10	0.572	8		0.09		
11	0.588	8		0.095		
12	0.558	11		0.096		
13	0.546	9		0.097		
14	0.612	11		1.28	6.39	
15	0.658	14	6.37	0.119		
16	0.678	8		0.102		
17	0.589	11		0.099		
18	0.191	1		0.105		
19	0.24	3		0.094		
20	0.239	4		0.093		
21	0.225	4		0.099		
22	0.197	6		0.098	6.87	
23	0.269	3		0.118		
24	0.211	1		0.087		
25	0.255	1		0.098		
26						
27	0.35	5				
28		7		0.091	6.813	
29		5		0.087		
30		6	6.81	0.099		
31	0.197	4		0.069		

Daily Laboratory Testing

Site:

2016

Clearwell

May

	Turbidity	pH	Tempt.
1	0.118	6.55	14.8
2	0.102	6.574	14.8
3	0.125	6.434	14.8
4	0.101	6.558	14.4
5	0.12	6.526	14.3
6	0.103	6.62	14.1
7	0.128	6.427	14.8
8	0.112	6.664	15.5
9	0.094	6.552	15.2
10	0.103	6.735	17.6
11	0.095	6.59	16
12	0.105	6.642	17.3
13	0.104	6.639	17
14	1.4	6.62	16.5
15	0.12	6.59	16.4
16	0.108	6.549	18.3
17	0.116	6.631	17.8
18	0.227	6.607	18.2
19	0.1	7.011	17.2
20	0.107	6.984	18.4
21	0.093	7.02	18.2
22	0.136	6.98	19
23	0.112	7.008	18.5
24	0.099	6.976	18.5
25	0.102	6.924	19.2
26	0.095	7.003	19.4
27	0.115	6.96	20.3
28		6.95	20.2
29		6.98	20
30		6.88	20.4
31	0.13	6.89	23.8

Daily Laboratory Testing
2016

Site: 100 Foot Sample Line - EFF

May

Day	Turbidity NTU	pH	Mono/ Free Am mg/L	Color/ Hardness PtCo/mg/L	Total Chlorine mg/L	free mg/L	Alk/P Alk/T mg/L	Calcium/ mg/L	Conductivity uS/CM
1	0.121	7.47	1.86/0.17	2/	1.95	0	0/23.71		292
2	0.089	8.94	2.00/0.18	2/	2.33	0	5.521/23.48		293.5
3	0.103	8.963	2.20/0.15	3/	2.33	0.03	5.75/24.14		294
4	0.099	8.961	2.02/0.16	3/32	2.26	0.12	6.814/24.1	12.8	292.8
5	0.113	8.933	1.82/0.25	1/	2.15	0.03	3.323/23.4		294.6
6	0.114	8.748	2.04/0.17	0/	2.24	0	2.865/23.56		294.4
7	0.118	7.7821	2.35/0.09	1/	2.38	0	0/24.06		292.4
8	0.097	9.011	2.34/0.10	0/	2.28	0.02	4.36/23.73		290.1
9	0.084	8.852	2.06/0.17	3/	2.32	0	4.147/24.2		295
10	0.099	8.963	2.05/0.15	0/	2.62	0.1	4.506/23.79		294.7
11	0.086	8.877	2.08/0.16	0/	2.26	0.04	4.174/24.75		294.9
12	0.094	8.854	2.18/0.10	0/	2.28	0	4.032/24.75		295.9
13	0.094	8.873	2.33/0.08	1/	2.35	0	3.945/24.56		294.7
14	0.1	8.41	2.35/0.06	1/	2.42	0.02	0.6/24.08		291
15	0.119	8.62	2.42/0	3/	2.44	0	2.03/23.71		290.6
16	0.135	8.129	2.05/0.14	0/32	2.44	0.02	0/23.73	12	295.7
17	0.1	8.498	2.39/0.09	0/	2.44	0.06	1.577/24.23		294.3
18	0.164	7.498	2.24/0.06	4/	2.53	0	0/22.04		291.7
19	0.104	8.239	2.28/0.01	1/	2.6	0	0/32.81		349.1
20	0.103	8.08	2.33/0	0/	2.55	0.02	0/32.67		348
21	0.094	8.14	2.30/0	1/	2.4	0	0/32.22		346.6
22	0.104	7.99	2.25/0.06	2/	2.31	0	0/32.21		349.9
23	0.095	8.058	2.32/0.08	1/	2.51	0	0/32.11		349.8
24	0.096	8.111	2.17/0.07	0/	2.35	0.01	0/31.85		347.9
25	0.106	8.065	2.22/0.09	0/	2.32	0.03	0/31.13		348.7
26	0.094	8.497	2.29/0.07	1/	2.53	0	1.315/32.84		387
27	0.104	8.39	2.22/0	0/	2.1	0	.6/29.57		388.8
28	0.085	8.05	2.12/0.11	3/	2.22	0.02	0/31.46		386
29	0.086	8.99	2.17/0.12	1/	2.29	0.01	.889/32.15		384
30	0.094	7.92	2.05/0.15	3/	2.24	0	0/31.59		386
31	0.136	8.22	2.12/0	1/	1.96	0.02	0/29.04		389

Daily Laboratory Testing
2016

Site:
June

Raw

	Turbidity NTU	Alk/T mg/L	Color PtCo	pH	Tempt. °C
1	0.317	24.59	11	7.145	21.2
2	0.394	24.69	9	7.295	21.4
3	0.371	25.97	11	7.118	22
4	0.311	22.76	11	7.27	23.7
5	0.357	32.04	10	7.5	24
6	0.31	24.42	10	7.199	22.9
7	0.354	24.47	12	7.178	24.47
8	0.344	23.19	12	7.284	23
9	0.35	24.41	10	7.181	21.5
10	0.332	24.91	9	7.33	20.9
11	0.32	24.46	10	7.37	21
12	0.318	24.42	11	7.17	20.9
13	0.325	24.45	12	7.232	20.2
14	0.355	24.59	7	7.478	20.5
15	0.332	23.97	9	7.564	21
16	0.32	24.64	8	7.565	21.5
17	0.378	24.78	9	6.934	21.9
18	0.398	24.85	9	7.561	22.1
19	0.47	23	9	6.95	23.4
20	0.368	25.22	11	7.425	23.2
21	0.456	24.96	11	7.277	34.5
22	0.347	25.01	11	7.378	24.2
23	0.35	26.41	7	7.42	23.8
24	0.488	25.09	11	7.325	23.7
25	0.374	24.91	7	7.47	23.5
26	0.379	23.93	13	7.04	23.7
27	0.397	24.79	12	7.352	24.8
28	0.371	25.21	13	7.363	24.7
29	0.392	25.28	11	7.321	24.4
30	0.385	25.61	12	7.252	24.1
31					

Daily Laboratory Testing
2016

Site:	Clarifiers			Filtered			
June	#1			#1			
	Turbidity	Color	pH	Turbidity	pH	Alum.	
1	0.174	4	60736	0.088	6.747		
2	0.165	2	6792	0.084	6.795	0.014	
3	0.194	8	6.709	0.078	6.731		
4	0.192	4		0.091			
5	0.28	4		0.096			
6	0.166	2	6.729	0.082	6.75		
7	0.155	5	6.729	0.082	6.788		
8							
9	0.156	3	6.851	0.083	6.775	<0.014	
10	0.198	3	6.933	0.088	6.885		
11	0.164	4	6.85	0.1			
12	0.174	6		0.114	6.84		
13	0.239	9	6.849	0.082	6.858		
14							
15	0.156	4	6.866	0.087	6.882		
16	0.139	4	6.901	0.087	6.901	0.033	
17	0.186	1	6.918	0.073	6.933		
18	0.195	1	6.922	0.111	6.94		
19	0.229	3	6.75	0.084	6.77		
20	0.284	6	6.85	0.083	6.868		
21	0.174	2	6.833	0.089	6.885		
22	0.17	3	6.865	0.09	6.913	0.029	
23	0.186	6	6.856	0.09	6.87		
24	0.166	3	6.894	0.091	6.929		
25	0.176	4		0.098			
26	0.176	5		0.102			
27	0.489	5	6.864	0.081	6.895		
28	0.364	8	6.855	0.078	6.911		
29	0.197	5	6.847	0.081	6.871	0.027	
30	0.145	3	6.84	0.087	6.829		
31							

Daily Laboratory Testing
2016

Site: June	Clarifiers #2			Filtered #2		
	Turbidity	Color	pH	Turbidity	pH	Alum.
	1	0.233	5	0.122		
	2	0.161	2	0.088		
	3	0.181	5	0.088		
	4	0.185	4	6.71	0.068	6.73
	5	0.188	4	0.083		
	6	0.169	1	0.078		
	7	0.165	6	0.09		
	8	0.243	6	6.789	0.086	6.768
	9	0.149	3	0.079		
	10	0.177	3	0.092		
	11	0.26	6			
	12	0.194	7	6.86	0.101	
	13	0.246	4	0.085		
	14	0.24	3	6.885	0.093	6.87
	15	0.191	3	0.077		
	16	0.156	3	0.083		
	17					
	18	0.292	0	0.122		
	19	0.192	1	0.093		
	20	0.222	6	0.078		
	21	0.227	6	0.092		
	22	0.158	2	0.082		
	23	0.154	5	0.083		
	24	0.173	4	0.123		
	25	0.275	6	6.93	0.086	
	26	0.21	7	6.93		
	27	0.278	4	0.085		
	28	0.224	5	0.083		
	29	0.16	3	0.089		
	30	0.237	5	0.077		
	31					

Daily Laboratory Testing
2016

Site:	Clarifiers			Filtered		
June	#3			#3		
	Turbidity	Color	pH	Turbidity	pH	Alum.
	NTU	PtCo		NTU		
1	0.266	4		0.076		
2						
3	0.187	5		0.099		
4	0.191	6		0.08		
5	0.183	4	6.69	0.056	6.71	
6	0.192	2		0.08		
7	0.181	5		0.084		
8	0.264	4		0.102		
9	0.223	4		0.08		
10	0.289	4		0.076		
11	0.21	5		0.094	6.86	
12	0.268	7		0.11		
13	0.2	6		0.087		
14	0.179	2		0.088		
15	0.175	3		0.084		
16	0.18	4		0.077		
17	0.178	0		0.078		
18	0.284	1		0.165		
19	0.248	2		0.089		
20	0.157	4		0.086		
21	0.202	0		0.093		
22	0.219	5		0.084		
23	0.208	0		0.079		
24	0.19	5		0.082		
25	0.229	6		0.089	6.88	
26	0.224	8			6.89	
27						
28	0.167	4		0.088		
29	0.239	7		0.073		
30	0.202	6		0.083		
31						

Daily Laboratory Testing

Site:

2016

Clearwell

June

	Turbidity	pH	Tempt.
1	0.096	6.921	21
2	0.099	6.898	21.4
3	0.091	6.832	21.8
4	0.087	6.85	23.8
5	0.115	6.82	24
6	0.09	6.831	22.2
7	0.1	6.865	23
8	0.107	6.874	23
9	0.118	6.936	21.2
10	0.106	6.971	20.4
11	0.097	6.99	21.1
12	0.112	6.97	20.7
13	0.131	6.992	19.9
14	0.097	6.982	20
15	0.091	6.995	20.4
16	0.09	7.077	21.2
17	0.084	7.018	21.6
18	0.101	7.097	22.2
19	0.109	6.92	23.5
20	0.104	6.952	23.2
21	0.129	6.979	24.1
22	0.096	7.003	24.1
23	0.087	6.981	23.7
24	0.093	7.017	23.7
25	0.107	7.03	23.6
26	0.097	7.06	24
27	0.093	6.959	24.8
28	0.104	6.997	24.8
29	0.098	6.994	24.5
30	0.099	6.936	24.2
31			

Site: 100 Foot Sample Line - EFF
June

[illegible]

Daily Laboratory Testing
2016

Site:
July

Raw

	Turbidity NTU	Alk/T mg/L	Color PtCo	pH	Tempt. °C
1	0.414	24.59	8	7.192	24.9
2	0.463	25.3	15	7.26	24.9
3	0.387	24.78	11	7.31	24.78
4	0.387	24.71	9	7.28	24.3
5	0.327	25	12	7.52	24.89
6	0.395	25.15	12	7.654	25.9
7	0.322	25.24	10	7.471	25
8	0.336	25.98	10	7.423	24.6
9	0.361	22.76	10	7.16	26.6
10	0.387	23.96	11	7.05	25.4
11	0.321	25.06	10	7.159	23
12	0.339	25.68	11	7.1	23.9
13	0.361	24.62	11	7.276	24.62
14	0.402	25.39	13	7.373	24.9
15	0.36	25.49	11	7.21	25.6
16	0.405	33.16	11	7.25	25
17	0.526	24.5	12	7.23	26.1
18	0.385	25.26	12	7.42	26.3
19	0.624	24.51	18	6.95	28.1
20	0.396	24.56	14	7.348	25
21	0.364	24.58	9	7.384	24.9
22	0.312	25.25	10	7.405	25.7
23	0.309	23.83	12	7.309	26.2
24	0.31	22.63	13	7.337	26.6
25	0.388	25.88	14	7.382	26
26	0.433	25.33	11	7.454	26.5
27	0.43	25.96	11	7.355	26.4
28	0.46	25.8	12	7.302	26.6
29	0.482	24.73	14	7.431	26.7
30	0.462	17.99	13	6.31	26.3
31	0.486	25.21	12	7.45	26.2

Daily Laboratory Testing
2016

Site: July	Clarifiers #1			Filtered #1		
	Turbidity	Color	pH	Turbidity	pH	Alum.
1						
2	0.476	12		0.089	6.85	
3	0.203	5	6.9	0.098		
4	0.195	3		0.097	6.85	
5	0.223	8	6.92	0.099	6.9	
6	0.23	5	6.884	0.091	6.867	
7	0.164	5	6.907	0.114	6.962	0.045
8	0.157	6	6.91	0.078	6.929	
9	0.158	2	6.89	0.088	6.9	
10	0.239	4		0.111		
11	0.272	4	6.828	0.08	6.815	
12	0.383	3	6.852	0.088	6.876	
13	0.14	3	6.906	0.095	6.924	0.037
14	0.293	7	6.886	0.075	6.896	
15	0.193	7		0.08		
16	0.15	4	6.87	0.096		
17	0.34	13			6.88	
18	0.283	10		0.117		
19	0.297	6	6.97	0.099	7	
20	0.156	4	6.918	0.118	6.961	
21	0.133	3	6.848	0.104	6.915	0.042
22	0.167	5	6.885	0.08	6.923	
23	0.159	4	6.987	0.079	7.022	
24	0.157	4	6.97	0.079	6.969	
25	0.154	4	6.91	0.084	6.905	
26	0.17	2	6.913	0.127	6.931	
27	0.231	4	6.9	0.098	6.913	0.035
28	0.25	4	6.883	0.092	6.9	
29	0.161	1	6.894	0.106	6.92	
30	0.456	5	6.93	0.115		
31	0.271	6		0.134		

Daily Laboratory Testing
2016

Site: July	Clarifiers #2			Filtered #2		
	Turbidity	Color	pH	Turbidity	pH	Alum.
1	0.285	6	6.871	0.09	6.846	
2	0.198	5		0.092		
3	0.159	4		0.095	6.85	
4	0.245	3		0.131		
5	0.171	7		0.091		
6	0.192	6		0.089		
7	0.178	4		0.072		
8	0.133	2		0.076		
9	0.222	4		0.079		
10	0.189	2	6.75	0.078	6.77	
11						
12	0.183	2		0.093		
13	0.164	3		0.08		
14	0.207	5		0.076		
15	0.14	5	6.86			
16	0.204	6		0.084	6.84	
17	0.171	8	6.94	0.082		
18	0.194	9		0.098	6.76	
19	0.153	4		0.117		
20	0.149	4		0.103		
21	0.138	3		0.084		
22	0.146	4		0.084		
23	0.144	5		0.08		
24	0.15	4		0.08		
25	0.19	4		0.077		
26	0.224	4		0.117		
27	0.209	3		0.104		
28	0.189	4		0.098		
29	0.257	3		0.185		
30	0.261	3		0.111	6.86	
31	0.289	13	6.95	0.137		

Daily Laboratory Testing
2016

Site:	Clarifiers			Filtered		
July	#3			#3		
	Turbidity	Color	pH	Turbidity	pH	Alum.
	NTU	PtCo		NTU		
1	0.213	5		0.085		
2	0.226	8	6.91	0.15		
3	0.226	6		0.083		
4	0.228	4	6.92	0.083		
5	0.156	5		0.083		
6	0.188	4		0.092		
7	0.166	5		0.079		
8	0.154	2		0.08		
9	0.198	2		0.091		
10	0.268	4		0.099		
11	0.519	8		0.088		
12						
13	0.177	4		0.079		
14	0.142	6		0.081		
15	0.26	9		0.074	6.84	
16	0.197	6		0.088		
17	0.238	7		0.9		
18	0.108	7	6.89	0.091		
19	0.204	6		0.109		
20	0.157	3		0.115		
21	0.143	4		0.086		
22	0.185	4		0.086		
23	0.165	4		0.09		
24	0.158	5		0.089		
25	0.21	4		0.084		
26	0.223	4		0.106		
27	0.194	4		0.104		
28	0.184	5		0.089		
29	0.299	3		0.097		
30	0.269	5		0.108		
31	0.237	8		0.124	6.93	

Daily Laboratory Testing

Site:

2016

Clearwell

July

	Turbidity	pH	Tempt.
1	0.11	6.986	25
2	0.104	6.95	25
3	0.131	7.01	24.5
4	0.119	7.01	24.7
5	0.097	7.03	25.2
6	0.099	6.932	25.7
7	0.08	7.003	25
8	0.088	7.011	25
9	0.103	7.01	26.9
10	0.105	6.88	25.6
11	0.095	6.916	22.9
12	0.096	6.96	23.6
13	0.137	7.001	24.7
14	0.123	6.978	25.3
15	0.087	6.95	25.7
16	0.103	6.96	26.2
17	0.094	6.9	26.4
18	0.123	6.99	26.3
19	0.092	6.98	28.1
20	0.102	7.049	23.8
21	0.096	7.005	25
22	0.094	7	25.7
23	0.099	7.049	26
24	0.089	7.09	26.3
25	0.085	7.054	25.8
26	0.132	7.035	26.3
27	0.11	7.014	26.5
28	0.11	6.992	26.8
29	0.12	6.994	27.1
30	0.157	6.99	26.5
31	0.186	7.02	26.6

Daily Laboratory Testing
2016

Site: 100 Foot Sample Line - EFF
July

Day	Turbidity NTU	pH	Mono/ Free Am mg/L	Color/ Hardness PtCo/mg/L	Total Chlorine mg/L	free mg/L	Alk/P Alk/T mg/L	Calcium/ mg/L	Conductivity uS/CM
1	0.087	8.115	2.22/0.07	0	2.51	0	0/33.1		395
2	0.093	8.47	2.17/0.11	2/	2.42	0	1.62/31.91		390
3	0.13	8.24	2.43/0.06	2/	2.43	0	0/32.84		394
4	0.104	8.74	2.17/0.05	1/	2.31	0	3.26/31.98		392
5	0.095	8.42	2.25/0.10	2/	2.4	0	.9388/32.96		393
6	0.103	8.021	2.02/0.15	2/	2.23	0.02	0/32.98		396
7	0.084	8.661	2.14/0.07	1/40	2.35	0	2.036/32.91	16	389
8	0.081	8.378	2.12/0.12	0/	2.72	0	0.5565/33.44		392
9	0.096	8.45	2.22/0	0/	2.14	0.02	0.9/31.65		395
10	0.086	8.19	2.14/0.07	0/	2.1	0	0/33.18		396
11	0.089	7.878	1.99/0.06	1/	2.21	0	0/32.52		396
12	0.08	8.23	2.16/0.05	0/	2.5	0.06	0/32.48		396
13	0.082	8.218	2.11/0.10	1/	2.3	0.03	0/33.42		396
14	0.09	8.563	2.13/0.10	2/	2.38	0.03	1.746/33.36		397
15	0.086	8.34	2.08/0.15	3/	2.27	0.07	0.32/33.03		396
16	0.094	8.18	2.20/0.11	3/	2.29	0.03	0/33.23		396
17	0.082	8.3	2.14/0.12	2/	2.29	0.21	0.14/32.24		393
18	0.104	7.09	1.86/0.08	2/	2.15	0	0/36.52		404
19	0.094	8.78	1.98/0.06	3/	2.14	0.04	2.99/31.96		396
20	0.112	8.15	2.08/0.15	1/	2.28	0.2	0/33.57		404
21	0.093	8.13	1.82/0.13	1/	2.11	0	0/33.44		402
22	0.093	8.794	2.20/0.13	1/	2.62	0	3.661/33.05		398
23	0.089	8.412	2.15/0.14	0/	2.23	0	.6221/30.82		397
24	0.083	6.86	2.14/0.08	0/	1.96	0	0/30.9		401
25	0.083	8.141	2.09/0.14	1/	2.17	0	0/33.84		401
26	0.146	8.13	1.96/0.14	1/	2.41	0	3.061/33.15		405
27	0.109	8.002	2.08/0.14	1/40	2.14	0.04	0/33.4	16	405
28	0.093	7.944	2.01/0.09	2/	2.41	0.05	0/33.01		405
29	0.108	8.503	2.08/0.08	0/	2.5	0.06	1.162/33.49		402
30	0.105	8.69	2.16/0.08	2/	2.36	0	2.44/32.48		400
31	0.145	8.28	2.14/0.12	2/	2.32	0	0/33.28		402

Daily Laboratory Testing
2016

Site:
Aug

Raw

	Turbidity	Alk/T	Color	pH	Tempt.
	NTU	mg/L	PtCo		°C
1	0.44	25.45	13	7.15	25.7
2	0.495	26.74	15	7.16	24.7
3	0.433	25.86	12	7.208	24.6
4	0.406	24.5	10	7.135	24.93
5	0.378	26.35	11	7.317	25.6
6	0.415	24.5	12	7.46	28.3
7	0.494	22.9	11	7.47	28.4
8	0.435	24.48	11	7.304	25.2
9	0.379	25.28	10	7.274	25.3
10	0.399	25.17	9	7.397	25.6
11	0.423	24.97	11	7.221	25.6
12	0.387	25.51	12	7.404	26.9
13	0.408	25.48	7	7.56	26.9
14	0.487	25.25	4	7.46	25.9
15	0.425	26.01	12	7.287	26.8
16	0.425	25.62	11	7.64	27
17	0.449	25.88	12	7.417	25.9
18	0.493	25.34	14	7.376	25.1
19	0.4	26.33	12	7.652	25.7
20	0.475	26.07	12	7.68	26.4
21	0.529	21.95	12	7.035	25.2
22	0.493	28.14	13	7.31	25.8
23	0.415	25.44	11	7.453	25.44
24	0.398	25.88	10	7.491	24.2
25	0.387	25.41	11	7.457	24.5
26	0.441	25.33	8	7.468	25.3
27	0.441	25.98	11	7.43	25.6
28	0.459	25.21	10	7.56	25.3
29	0.519	25.51	9	7.257	25.1
30	0.442	25.38	12	7.358	24
31	0.395	25.77	11	7.461	24.5

Daily Laboratory Testing
2016

Site: Aug	Clarifiers #1			Filtered #1		
	Turbidity	Color	pH	Turbidity	pH	Alum.
1						
2	0.209	3	6.788	0.106	6.827	
3	0.18	4	6.83	0.108	6.883	
4	0.227	3	6.849	0.098	6.924	0.027
5						
6	0.215	4	6.9	0.112	6.94	
7	0.196	4		0.111		
8	0.188	6	6.926	0.125	6.95	
9	0.251	3	6.905	0.097	6.961	
10	0.167	3	6.932	0.094	6.918	0.039
11	0.15	5	6.912	0.096	6.929	
12	0.173	6	6.916	0.093	7	
13	0.221	6	7.02	0.094		
14	0.17	5		0.095		
15	0.17	4	6.89	0.114	6.949	
16	0.199	5		0.098		
17	0.218	5	6.956	0.116	6.995	
18						
19	0.168	3	6.981	0.102	7.01	0.047
20	0.188	4		0.107		
21	0.198	4	7.023	0.107	7.027	
22	0.251	4	6.89	0.115	7	
23	0.254	5	6.903	0.112		0.032
24	0.16	5	6.961	0.104	6.989	
25						
26	0.222	4	6.948	0.11	7.007	
27	0.221	6	7.01	0.122		
28	0.262	6		0.11		
29	0.18	3	6.912	0.105	6.953	
30	0.195	6	6.904	0.117	6.851	
31	0.365	2	6.962	0.102	6.961	

Daily Laboratory Testing
2016

Site: Aug	Clarifiers #2			Filtered #2		
	Turbidity	Color	pH	Turbidity	pH	Alum.
1	0.398	6	6.776	0.11	6.821	
2						
3	0.224	4		0.103		
4	0.193	4		0.096		
5	0.197	7	6.861	0.095	6.881	
6	0.278	7		0.116		
7	0.231	4	6.96	0.114	6.96	
8	0.203	5		0.1		
9	0.172	3		0.097		
10	0.26	4		0.097		
11	0.164	5		0.092		
12	0.224	7		0.105		
13	0.186	5		0.104	6.98	
14	0.189	5	6.98	0.089		
15	0.186	5		0.107		
16	0.2432	4		0.089		
17	0.179	7		0.096		
18	0.238	6	6.909	0.105	6.912	
19	0.187	4		0.108		
20	0.265	4		0.11		
21	0.189	3		0.102		
22	0.206	4		0.109		
23						
24	0.194	6		0.11		
25	0.536	6	6.986	0.109	7.003	
26	0.173	2		0.1		
27	0.265	5		0.123	6.97	
28	0.195	5	7	0.121		
29	0.192	1		0.097		
30	0.289	5		0.104		
31	0.194	5		0.11		

Daily Laboratory Testing
2016

Site:	Clarifiers			Filtered		
Aug	#3			#3		
	Turbidity	Color	pH	Turbidity	pH	Alum.
	NTU	PtCo		NTU		
1	0.249	4		0.092		
2						
3	0.191	3		0.095		
4	0.219	1		0.093		
5	0.39	3		0.098		
6	0.208	5		0.108		
7	0.247	5		0.102		
8	0.209	6		0.107		
9	0.272	5		0.105		
10	0.208	4		0.092		
11	0.201	6		0.093		
12	0.201	8		0.101		
13	0.179	7		0.097		
14	0.15	6		0.096	6.95	
15	0.2	4		0.105		
16	0.173	4	6.99	0.093	7	
17	0.164	6		0.095		
18	0.192	5		0.107		
19	0.196	6		0.098		
20	0.176	6	6.97	0.12	6.97	
21	0.205	4		0.107		
22	0.278	6		0.105		
23	0.242	5		0.104		
24	0.191	7		0.113		
25	0.212	5		0.1		
26	0.194	2		0.101		
27	0.236	7		0.113		
28	0.2	5		0.118	6.98	
29	0.248	3		0.098		
30	0.322	6		0.108		
31	0.204	6		0.131		

Daily Laboratory Testing

Site:

2016

Clearwell

Aug

	Turbidity	pH	Tempt.
1	0.123	6.912	25.9
2	0.108	6.899	24.8
3	0.116	6.988	24.6
4	0.139	6.997	25.2
5	0.154	7.014	25.5
6	0.164	7.06	28.6
7	0.129	7.08	28.6
8	0.124	7.026	25.7
9	0.128	7.029	25.4
10	0.088	7.061	25.7
11	0.126	7.06	25.7
12	0.127	7.103	26
13	0.164	7.1	27.4
14	0.142	7.07	26.2
15	0.136	7.039	27.1
16	0.167	7.09	27.4
17	0.124	7.054	25.9
18	0.139	6.978	25.2
19	0.138	7.092	26.1
20	0.149	7.12	26.7
21	0.139	7.151	25
22	0.134	7.07	25.1
23	0.121	7.036	23.3
24	0.124	7.073	24.6
25	0.114	7.107	25.4
26	0.134	7.132	25.5
27	0.148	7.13	25.6
28	0.146	7.09	25.6
29	0.139	7.053	25.4
30	0.143	7.021	24.5
31	0.137	7.057	24.7

Daily Laboratory Testing
2016

Site: 100 Foot Sample Line - EFF

Aug

Day	Turbidity NTU	pH	Mono/ Free Am mg/L	Color/ Hardness PtCo/mg/L	Total Chlorine mg/L	free mg/L	Alk/P Alk/T mg/L	Calcium/ mg/L	Conductivity uS/CM
1	0.103	7.766	2.06/0.18	1/	2.37	0	0/34.47		406
2	0.112	7.126	2.13/0.04	1/	2.26	0.06	0/33.08		400
3	0.113	8.963	2.24/0.09	2/	2.49	0.04	5.986/33.65		405
4	0.108	8.622	2.18/0.11	0/44	2.48	0.1	2.008/33.47	15.2	405
5	0.108	7.835	2.06/0.16	1/	2.3	0.08	0/34.7		407
6	0.165	8.89	2.13/0	1/	2.34	0	3.99/32.12		404
7	0.139	8.6	2.14/0.01	0/	2.31	0	1.28/30.85		405
8	0.11	9.034	2.17/0.10	2/	2.23	0.09	5.413/33.83		409
9	0.106	7.952	2.39/0.05	2/	2.59	0.02	0/34.12		412
10	0.115	8.898	1.71/0.20	1/	2	0.04	4.616/32.61		405
11	0.094	8.618	2.34/0.02	2/	2.99	0.06	2.193/33.07		404
12	0.109	8.875	2.33/0.04	3/	2.54	0.1	5.658/34.58		403
13	0.116	8.46	2.06/0.16	3/	2.29	0.01	1.228/33.04		400
14	0.124	7.07	1.84/0.20	2/	2.1	0.03	0/21.21		375
15	0.134	8.035	2.27/0.09	2/	2.69	0	0/34.85		406
16	0.131	8.6	2.21/0	0/	2.12	0	1.45/32.3		402
17	0.107	8.907	2.27/0.07	2/	2.8	0.04	3.214/35.59		401
18	0.111	8.69	1.82/0.17	2/	2.4	0.09	2.068/33.98		407
19	0.109	7.9	2.06/0.15	0/	2.43	0.08	0/34.96		405
20	0.119	8.34	2.34/0.05	0/	2.63	0	0.2/33.85		403
21	0.108	8.773	2.31/.08	0/	2.5	0.04	2.368/29.98		403
22	0.122	7.28	2.13/.02	0	2.33	0	0/32.87		404
23	0.111	7.496	2.17/0.07	2/	2.43	0.02	0/35.02		407
24	0.122	8.298	2.32/0.11	1/	2.46	0.01	.08195/34.19		404
25	0.11	8.858	2.17/0.10	0/	2.37	0	3.121/32.18		402
26	0.108	8.504	2.21/0.09	0/	2.53	0	1.572/34.14		405
27	0.126	8.76	2.03/0.09	2/	2.32	0	2.57/32.83		401
28	0.145	8.34	2.22/0.10	2/	2.41	0	0.29/34.07		406
29	0.13	8.877	1.93/0.13	0/40	2.03	0.01	4.72/34.53	14.43	407
30	0.114	8.796	2.10/0.14	3/	2.6	0.11	3.039/33.41		410
31	0.125	8.973	2.19/0.01	1/	230	0.03	3.994/33.12		406

Daily Laboratory Testing
2016

Site:
Sept

Raw

	Turbidity NTU	Alk/T mg/L	Color PtCo	pH	Tempt. °C
1	0.485	25.64	10	7.128	24.4
2	0.386	24.79	10	7.235	23.2
3	0.45	25.9	13	7.26	23.3
4	0.393	25.07	12	7.24	23.2
5	0.406	25.69	8	7.45	22.8
6	0.385	25.39	6	7.53	22.8
7	0.332	25.59	9	7.173	22.7
8	0.298	25.56	10	7.21	22.7
9	0.349	25.74	10	7.12	23.5
10	0.389	23.8	7	7.38	25.83
11	0.36	25.15	4	6.93	24.2
12	0.441	24.91	13	7.34	22.5
13	0.385	26.53	10	7.256	22.8
14	0.327	25.82	10	7.495	22.9
15	0.366	26.07	10	7.334	21.9
16	0.373	24.67	11	7.404	22
17	0.351	26.12	11	7.36	21.4
18	0.343	25.06	12	7.42	21.7
19	0.377	25.63	10	7.408	22.4
20	0.376	25.6	9	7.283	22.3
21	0.36	25.74	8	7.263	22.7
22	0.376	25.11	10	7.112	22.5
23	0.38	26.78	9	7.339	22.9
24	0.349	25.81	10	7.46	22
25	0.325	25.73	9	7.37	19.9
26	0.304	25.48	8	7.419	18.9
27	0.271	25.64	7	7.421	21.3
28	0.335	25.6	10	7.455	21.1
29	0.32	25.62	10	7.24	19.6
30	0.388	25.17	9	7.54	20.1
31					

Daily Laboratory Testing
2016

Site:	Clarifiers			Filtered			
Sept	#1			#1			
	Turbidity	Color	pH	Turbidity	pH	Alum.	
1	0.173	4	6.917	0.102	6.936	0.043	
2	0.163	4	6.869	0.109	6.868		
3	0.325	7		0.139			
4	0.223	6		0.112	6.92		
5	0.239	2	6.96	0.122			
6	0.225	6		0.194	7.03		
7	0.209	4	6.913	0.102	6.928	0.021	
8	0.159	3		0.107			
9	0.257	6		0.101			
10	0.205	2		0.112	6.9		
11	0.277	5		0.115			
12	0.198	4	6.91	0.152			
13	0.198	3	6.942	0.103	6.971		
14	0.159	3	6.961	0.099	7.006		
15							
16	0.255	6	6.879	0.096	6.904		
17	0.29	5	6.951	0.097	6.942	0.03	
18	0.293	4	6.92	0.097	6.95		
19	0.303	6		0.1			
20	0.181	5	6.919	0.113	6.93		
21	0.153	5	6.853	0.087	6.897		
22	0.196	5	6.886	0.09	6.901	0.021	
23	0.299	5	6.895	0.094	6.906		
24	0.238	7		0.196	7.01		
25	0.209	4		0.108			
26	0.185	2	6.918	0.098	6.928		
27	0.172	3	6.893	0.093	6.935		
28	0.219	4	6.933	0.103	6.941	0.021	
29	0.281	6	6.9	0.083			
30	0.244	5		0.091	6.88		
31							

Daily Laboratory Testing
2016

Site: Sept	Clarifiers #2			Filtered #2		
	Turbidity	Color	pH	Turbidity	pH	Alum.
	1	0.183	4	0.108		
	2	0.295	5	0.099		
	3	0.233	5	6.93	0.131	
	4	0.248	6			
	5	0.215	4	0.127	6.93	
	6	0.214	4	0.119		
	7	0.187	1	0.095		
	8	0.187	4	6.931	0.088	
	9	0.179	4	0.099	6.89	
	10	0.196	4	0.109		
	11	0.256	5	6.94	0.108	6.91
	12	0.208	5	0.134		
	13	0.209	3	0.136		
	14	0.254	4			
	15	0.632	12	0.105		
	16	0.17	4	0.091		
	17	0.37	7	0.063		
	18	0.269	7	6.93	0.085	6.91
	19	0.236	5	0.094		
	20	0.259	4	0.092		
	21	0.256	4	6.885	0.131	6.919
	22	0.175	5	0.092		
	23	0.37	5	0.096		
	24	0.245	5	6.98	0.097	
	25	0.196	5	0.104	6.88	
	26	0.294	3	0.082		
	27	0.341	6	0.099		
	28	0.165	6	0.079		
	29	0.168	4	0.088	6.87	
	30	0.239	6	6.88	0.093	
	31					

Daily Laboratory Testing
2016

Site: Sept	Clarifiers #3			Filtered #3		
	Turbidity NTU	Color PtCo	pH	Turbidity NTU	pH	Alum.
1						
2	0.241	5		0.095		
3	0.209	7		0.144	6.95	
4	0.12	7	6.95	0.116		
5	0.222	5		0.114		
6	0.23	5	7.02	0.109		
7	0.107	2		0.082		
8	0.231	4		0.087	6.9	
9	0.178	4	6.393	0.115		
10	0.198	3	6.98	0.11		
11	0.192	3		0.103		
12	0.277	6		0.111	6.87	
13	0.19	3		0.096		
14	0.19	4		0.098		
15						
16	0.187	5		0.092		
17	0.261	6		0.1		
18	0.269	7	6.93	0.085	6.91	
19	0.254	7		0.09		
20	0.215	3		0.09		
21	0.209	3		0.096		
22	0.251	8		0.105		
23	0.183	3		0.095		
24	0.214	5		0.094		
25	0.24	7	6.91	0.09		
26	0.199	4		0.089		
27	0.222	3		0.097		
28	0.266	4		0.086		
29	0.187	4		0.09		
30	0.201	6		0.081		
31						

Daily Laboratory Testing

Site:

2016

Clearwell

Sept

	Turbidity	pH	Tempt.
1	0.129	7.047	24.4
2	0.11	6.932	23.2
3	0.108	7.03	23.5
4	0.148	7.08	23.4
5	0.125	7.07	22.9
6	0.125	7.12	22.7
7	0.11	7.056	22.7
8	0.101	7.01	22.7
9	0.1	7	23.5
10	0.131	7.03	24.2
11	0.12	7.05	24.2
12	0.109	7.001	22.8
13	0.112	7.054	22.8
14	0.128	7.096	23.2
15	0.108	7.015	22.1
16	0.103	7.051	22.1
17	0.107	7.09	21.5
18	0.113	7.09	21.7
19	0.114	7.035	22.4
20	0.121	7.037	22.4
21	0.102	6.989	22.7
22	0.12	7.015	22.6
23	0.102	7.017	22.5
24	0.107	7.06	22.3
25		7.02	19.9
26	0.099	7.036	19
27	0.129	7.061	20.4
28	0.098	7.06	21
29	0.112	7.01	19.6
30	0.109	7.01	19.6
31			

Site: 100 Foot Sample Line - EFF
Sept

[illegible]

Daily Laboratory Testing
2016

Site:
Oct.

Raw

	Turbidity	Alk/T	Color	pH	Tempt.
	NTU	mg/L	PtCo		°C
1	0.35	25.04	7	6.763	19.1
2	0.386	22.84	10	7.288	18.5
3	0.359	25.95	8	7.299	19
4	0.352	27.35	9	7.7	18.8
5	0.373	25.62	12	7.369	18.8
6	0.361	26.23	8	7.41	17.5
7	0.378	25.46	7	7.33	18.7
8	0.334	25.59	9	7.4	19.4
9	0.379	25.82	9	7.39	19.4
10	0.427	25.62	10	7.19	16.7
11	0.443	25.46	9	7.069	15.7
12	0.531	25.91	8	7.414	16.3
13	0.328	25.31	8	7.474	17.5
14	0.577	25.84	12	7.268	16.6
15	0.386	25.66	8	7.32	16.2
16	0.325	25.85	8	7.46	15.9
17	0.398	25.19	8	7.467	17.7
18	0.355	26.23	7	7.565	17.7
19	0.319	26.85	7	7.348	17.6
20	0.245	25.94	7	7.518	18.2
21	0.33	25.65	9	7.43	17.7
22	0.344	21.14	8	7.342	18
23	1.08	20.88	12	6.896	15.6
24	0.405	24.47	11	7.337	15.6
25	0.361	25.8	10	7.407	15.4
26	0.377	25.55	9	7.385	13.7
27	0.578	25.61	7	7.268	12.7
28	0.413	24.79	8	7.464	15.2
29	0.456	25.12	10	7.4	12.7
30	0.357	24.46	9	6.73	12.9
31	0.359	24.77	8	7.094	13.4

Daily Laboratory Testing
2016

Site: Oct.	Clarifiers #1			Filtered #1		
	Turbidity	Color	pH	Turbidity	pH	Alum.
1	0.164	4	6.921	0.095	6.931	
2	0.366	5	6.908	0.087	6.92	
3	0.17	3	6.848	0.086	6.851	
4	0.239	5	6.891	0.082	6.863	
5	0.211	4	6.846	0.086	6.835	0.009
6	0.206	3	6.88	0.09		
7	0.234	4		0.094	6.9	
8	0.289	7	6.9	0.093		
9	2.17	6		0.103	6.89	
10	0.262	6	6.81	0.097		
11	0.22	3	6.853	0.087	6.875	
12	0.255	3	6.917	0.088	6.88	
13	0.159	4	6.892	0.076	6.867	0.009
14	0.236	5	6.846	0.089	6.835	
15	0.251	5		0.091	6.89	
16	0.211	4	6.92	0.104		
17	0.208	3	6.885	0.077	6.977	
18	0.189	1	6.868	0.082	6.899	
19	0.341	3	6.871	0.077	6.858	0.018
20	0.29	3	6.912	0.183	6.971	
21	0.211	4	6.891	0.072	6.902	
22	0.25	4	6.938	0.082	6.875	
23	0.289	6	6.85	0.096	6.85	
24	0.234	4	6.846	0.074	6.833	
25	0.22	4	6.859	0.076	6.843	
26	0.357	5	6.971	0.136	6.845	0.01
27	0.241	2	6.823	0.091	6.846	
28	0.393	4	6.841	0.091	6.854	
29	0.381	8	6.86	0.093		
30	0.386	7		0.086	6.85	
31	0.267	5	6.841	0.082	6.813	

Daily Laboratory Testing
2016

Site: Oct.	Clarifiers #2			Filtered #2		
	Turbidity	Color	pH	Turbidity	pH	Alum.
	1	0.255	4	0.1		
	2	0.177	5	0.092		
	3	0.327	5	0.087		
	4					
	5	0.233	5	0.083		
	6	0.324	6	0.08	6.86	
	7	0.302	6	0.086		
	8	0.194	5	0.097	6.86	
	9	0.326	5	0.099		
	10	0.219	4	0.079	6.82	
	11	0.393	5	0.08		
	12	0.243	1	0.083		
	13	0.251	7	0.086		
	14	0.43	6	0.079		
	15	0.213	4	0.079		
	16	0.314	6	0.077	6.91	
	17	0.287	4	0.084		
	18	0.275	3	0.086		
	19	0.202	3	0.073		
	20	0.225	2	0.08		
	21	0.354	6	0.077		
	22	0.32	3	0.084		
	23					
	24	0.301	6	0.077		
	25	0.294	5	0.079		
	26	0.38	6	0.094		
	27	0.314	2	0.076		
	28	0.255	5	0.085		
	29	0.265	6	0.073	6.86	
	30	0.317	5	0.079		
	31	0.407	7			

Daily Laboratory Testing
2016

Site:	Clarifiers			Filtered		
Oct.	#3		pH	#3		
	Turbidity	Color		Turbidity	pH	Alum.
	NTU	PtCo		NTU		
1	0.254	3		0.91		
2	0.236	6		0.087		
3	0.21	6		0.079		
4	0.423	8		0.077		
5						
6						
7						
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Daily Laboratory Testing

Site:

2016

Clearwell

Oct.

	Turbidity	pH	Tempt.
1	0.109	7.063	19.4
2	0.104	7.03	18.7
3	0.089	6.945	18.8
4	0.084	6.958	18.2
5	0.095	6.974	17.8
6	0.094	7	17.2
7	0.096	7.02	18.5
8	0.151	6.99	18.9
9	0.098	7.05	19.2
10	0.143	6.98	18
11	0.093	7.024	15.7
12	0.108	7.01	16.4
13	0.109	7.006	17.4
14	0.099	6.982	16.7
15	0.11	7.07	16.3
16	0.125	7.04	16
17	0.09	7.023	17.5
18	0.106	7.06	17.6
19	0.105	6.97	17.2
20	0.089	7.026	18
21	0.106	7.038	17.7
22	0.1	7.002	18.6
23	0.142	6.94	15.4
24	0.106	6.97	15.1
25	0.105	6.988	14.1
26	0.099	6.989	13.5
27	0.087	6.967	12.1
28	0.099	6.922	13.3
29	0.097	6.95	12.4
30	0.108	7	12.4
31	0.091	6.936	13.2

Daily Laboratory Testing
2016

Site: 100 Foot Sample Line - EFF

Oct.

Day	Turbidity NTU	pH	Mono/ Free Am mg/L	Color/ Hardness PtCo/mg/L	Total Chlorine mg/L	free mg/L	Alk/P Alk/T mg/L	Calcium/ mg/L	Conductivity uS/CM
1	0.102	8.484	2.29/.10	0/	2.34	0.03	1.119/32.17		407
2	0.103	8.477	1.86/.14	0/	1.97	0.05	.8894/26.4		404
3	0.091	8.06	2.11/0.11	1/	2.2	0.04	0/34.41		411
4	0.083	8.522	2.17/0.10	1/	2.32	0.22	.8522/33.81		407
5	0.095	8.712	2.17/0.11	1/42	2.22	0	2.581/34.19	15.2	411
6	0.091	8.27	2.21/0.11	1/	2.37	0	3.77/33.42		411
7	0.085	8.86	2.11/0.02	1/	2.32	0	.02/33.44		407
8	0.099	8.67	2.11/0.10	2/	2.2	0.07	2.815/32.96		409
9	0.145	8.679	2.16/0.08	2/	2.45	0.16	3.208/33.91		407
10	0.107	8.09	2.30/0.03	3/	2.38	0.04	0/34.06		406
11	0.093	8.462	2.61/0	1/	2.93	0.11	1.304/33.68		373.2
12	0.119	8.838	2.42/0.04	0/	2.61	0.01	4.59/32.9		369.8
13	0.088	8.637	2.18/0.14	2/	2.48	0.19	2.456/33.15		407
14	0.092	8.67	2.34/0.06	1/	2.56	0	3.17/0.06		327.8
15	0.101	8.6	2.27/0	2/	2.28	0	2.096/32.7		370
16	0.111	8.83	2.0/.11	2/	2.1	0	4.485/33.54		371.4
17	0.086	9.111	2.24/0.01	2/	2.64	0	6.536/33.6		368.6
18	0.103	7.533	2.25/0.10	0/	2.29	0	0/35.03		411
19	0.085	7.477	2.36/0.08	0/	2.65	0	0/33.53		407
20	0.088	9.08	2.27/0.03	0/	2.69	0.01	8.189/34.49		406
21	0.089	7.463	2.24/0.18	2/	2.39	0.01	0/34.81		410
22	0.091	7.157	2.0/0.06	0/	2.19	0	0/28.97		397
23	0.105	8.24	2.16/0.13	1/	2.32	0	0/30.79		365.6
24	0.09	7.594	2.37/0.09	0/	2.63	0	0/33.6		372.9
25	0.092	8.034	2.40/0.12	1/40	2.71	0.08	0/33.02	14.68	373.2
26	0.096	7.264	2.31/0.16	0/	2.53	0	0/32.9		373.9
27	0.088	7.127	1.86/0.17	0/	2.44	0	0/33.06		383.5
28	0.098	7.306	2.09/0.15	1/	2.39	0.03	0/32.97		377.5
29	0.094	7.32	2.03/0.06	2/	2.42	0	0/33.24		368.4
30	0.097	7.63	2.14/0.01	2/	2.33	0	0/33.07		371
31	0.086	7.588	2.18/0.14	2/	2.54	0	0/33.11		374.7

Daily Laboratory Testing
2016

Site:
Nov.

Raw

	Turbidity	Alk/T	Color	pH	Tempt.
	NTU	mg/L	PtCo		°C
1	0.365	25.41	3	7.498	13.5
2	0.355	25.51	8	7.319	13.5
3	0.364	25.33	10	7.371	14.2
4	0.541	25.92	10	7.233	13.7
5	0.4	25.7	8	7.4	12.4
6	0.338	24.91	11	7.3	12.9
7	0.0763	25.84	50	7.204	15.3
8	0.843	17.94	21	7.014	13.1
9	0.839	17.88	11	7	13.3
10	0.808	17.34	15	6.79	12.9
11	0.783	18.57	16	7.39	11
12	0.839	16.75	22	7.02	12
13	1.38	17.51	23	7.11	10
14	0.978	17.53	22	7.07	11.9
15	0.858	18.06	22	7.069	12.4
16	0.832	17.42	22	7.073	12.8
17	0.746	17.48	21	7.115	13.4
18	0.736	17.74	20	7.263	13.3
19	0.771	16.75	19	7.11	9.8
20	0.693	15.98	18	7.01	9.7
21	0.781	16.91	20	6.873	12.5
22	0.811	17.53	19	7.083	11.4
23	0.954	16.76	28	6.31	8.6
24	0.85	16.8	18	6.79	10.8
25	0.839	17.16	21	7.15	10.3
26	0.75	18.72	20	7.16	7.2
27	0.857	17.15	22	7.09	10.3
28	0.88	17.34	23	7.046	10.3
29	0.784	17.41	20	7.241	10
30	0.795	17.21	20	7.128	11
31					

Daily Laboratory Testing
2016

Site: Nov.	Clarifiers #1			Filtered #1		
	Turbidity	Color	pH	Turbidity	pH	Alum.
1	0.381	0	6.907	0.086	6.88	0.003
2	0.385	5	6.848	0.084	6.89	
3				0.079		
4	0.268	4	6.834	0.093	6.872	
5	0.291	4	6.85	0.093		
6	0.299	7		0.083	6.83	
7	0.244	8	6.879	0.073	6.824	
8	0.483	8	6.367	0.074	6.32	0.005
9	0.648	10	3.32	0.089		
10	0.606	1		0.113	6.33	
11	0.683	7	6.3	0.085	6.42	
12	0.559	10	6.44	0.119		
13	0.353	8		0.438	6.46	
14	0.354	6	6.41	0.078	6.314	
15	0.461	9	6.404	0.102	6.23	0.01
16	0.416	8	6.378	0.113	6.366	
17	0.561	13	6.346	0.078	6.416	
18	0.591	9	6.432	0.075	6.436	
19	0.457	4	6.4	0.082	6.42	
20	0.513	11		0.091		
21	0.683	11	6.319	0.069	6.299	
22	0.379	3	6.259	0.08	6.318	0.012
23	0.548	9	6.45	0.116	6.45	
24	0.457	8	6.4	0.128		
25	0.384	6		0.091	6.29	
26	0.347	7		0.146	6.38	
27	0.446	8		0.091	6.35	
28	0.317	6	6.321	0.085	6.421	
29	0.645	14	6.402	0.151	6.436	
30	0.516	7	6.431	0.109	6.506	
31						

Daily Laboratory Testing
2016

Site: Nov.	Clarifiers #2			Filtered #2		
	Turbidity	Color	pH	Turbidity	pH	Alum.
1						
2	0.219	3		0.078		
3	0.279	4	6.929	0.08	6.898	
4	0.268	5		0.097		
5	0.393	5		0.084	6.85	
6	0.303	5	6.85	0.088		
7						
8	0.694	10		0.081		
9	0.704	11		0.087	6.32	
10	0.501	0	6.36	0.098		
11	0.489	5		0.057		
12	0.388	7		0.149	6.37	
13	0.534	9	6.34	0.166		
14	0.681	11		0.069		
15	0.689	10		0.085		
16	0.698	13		0.089		
17	0.458	6		0.092		
18	0.836	15		0.081		
19	0.824	9		0.092		
20	0.572	8	6.35	0.079	6.36	
21	0.853	10		0.103		
22	0.551	6		0.086		
23	0.385	9		0.134		
24	0.391	9		0.119	6.36	
25	0.688	11	6.3	0.08		
26	0.324	8	6.38	0.133		
27	0.642	12	6.34			
28						
29						
30						
31						

Daily Laboratory Testing
2016

Site:	Clarifiers			Filtered		
Nov.	#3			#3		
	Turbidity	Color	pH	Turbidity	pH	Alum.
	NTU	PtCo		NTU		
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28	0.761	9		0.074		
29	0.45	10		0.072		
30						
31						

Daily Laboratory Testing

Site:

2016

Clearwell

Nov.

	Turbidity	pH	Tempt.
1	0.05	6.979	12.7
2	0.108	7.032	12.7
3	0.095	7.016	14.3
4	0.153	6.988	16.7
5	0.178	7	12.4
6	0.104	6.94	12.3
7	0.09	6.959	12.3
8	0.093	6.475	12.7
9	0.158	6.46	12.6
10	0.088	6.5	12.5
11	0.091	6.68	11.1
12	0.098	6.61	14.4
13	0.133	6.68	10.3
14	0.085	6.564	11.6
15	0.118	6.497	11.7
16	0.108	6.603	12.1
17	0.098	6.58	12.3
18	0.096	6.547	12.3
19	0.099	6.55	9.7
20	0.112	6.55	9.6
21	0.169	6.5	11.4
22	0.085	6.508	10.9
23	0.23	6.55	8.7
24	0.14	6.57	11.1
25	0.087	6.5	9.6
26	0.112	6.64	7.3
27	0.09	6.57	9.7
28	0.086	6.409	9
29	0.079	6.592	9.6
30	0.104	6.651	9.7
31			

Site: 100 Foot Sample Line - EFF
Nov.

[illegible]

Daily Laboratory Testing
2016

Site:
Dec.

Raw

	Turbidity NTU	Alk/T mg/L	Color PtCo	pH	Tempt. °C
1	0.746	17.63	18	7.104	10.6
2	0.796	16.83	21	6.939	10.2
3	0.693	15.37	20	7.07	7
4	0.789	13.04	18	6.487	9.5
5	0.776	17.33	20	6.974	10.3
6	0.828	16.56	22	6.893	8.9
7	0.771	17.07	22	7.225	9.4
8	0.836	16.76	21	7.065	9.6
9	0.81	17.02	23	7.007	9.7
10	0.914	16.68	24	7.14	8.6
11	0.869	16.3	22	6.89	7.3
12	0.851	16.66	22	7.144	8.4
13	0.868	16.41	21	6.979	8.1
14	0.863	16.78	22	6.995	9.2
15	0.858	15.53	31	6.123	9.1
16	0.873	15.55	25	6.216	6.1
17	0.793	17.66	25	7.25	4.4
18	0.801	3.474	25	5.158	9.7
19	0.741	17.33	20	6.896	6.5
20	0.786	16.71	20	6.846	7.5
21	0.783	16.62	25	7.03	4.7
22	0.739	17.63	20	6.74	4.7
23	0.769	17.6	14	6.98	9.4
24	0.633	16.91	20	6.32	9.3
25	0.546	17.72	22	6.96	17.8
26	0.548	17.88	18	7	9
27	0.541	17.58	18	7.041	8.1
28	0.55	17.79	20	6.883	10.3
29	0.605	17.39	16	6.931	10.9
30	0.532	17.42	17	6.911	9.4
31					

Daily Laboratory Testing
2016

Site: Dec.	Clarifiers #1			Filtered #1			
	Turbidity	Color	pH	Turbidity	pH	Alum.	
1	0.836	10	6.302	0.088	6.324	0.008	
2							
3	0.603	6	6.42	0.082	6.35		
4	0.665	6	6.293	0.098	6.156		
5	0.13	1	6.584	0.068	6.292		
6	0.346	3	6.3	0.071	6.348		
7	0.949	12	6.535	0.066	6.351		
8	0.641	12	6.266	0.072	6.257	0.006	
9	0.808	12	6.283	0.065	6.465		
10	0.491	9	6.29	0.092			
11	0.382	4		0.087	8.22		
12				0.076	6.247		
13	0.377	5	6.242	0.064	6.252	0.015	
14	0.964	10	6.053	0.062	6.203		
15	0.37	8	6.364	0.082	6.339		
16	0.535	10	6.353	0.163	6.297		
17	0.496	7	6.48	0.083	6.41		
18	0.501	7	6.282	0.085	6.374		
19	0.755	11	5.98	0.086	6.243		
20							
21	0.663	11	6.28	0.074	6.44		
22	0.653	10		0.083			
23	0.488	11	6.35	0.102			
24	0.686	12			6.22		
25	0.356	10	6.35	0.13			
26	0.483	8		0.086	6.34		
27	0.419	6	6.427	0.075	6.331		
28	0.451	2	6.317	0.077	6.548	0.016	
29	0.5887	0	6.337	0.082	6.377		
30	0.563	6	6.268	0.077	6.347		
31							

Daily Laboratory Testing
2016

Site: Dec.	Clarifiers #2			Filtered #2		
	Turbidity	Color	pH	Turbidity	pH	Alum.
1						
2						
3						
4						
5						
6						
7						
8	0.342	4		0.078		
9	0.853	9		0.075		
10	0.424	7		0.077	6.16	
11	0.684	9	6.23	0.096		
12	0.436	6	6.169	0.067		
13	0.563	9		0.073		
14	0.552	8		0.073		
15						
16	0.711	10		0.153		
17	0.698	8		0.089		
18	0.589	7		0.089		
19	0.522	7		0.07		
20	0.274	4	6.814	0.069	6.515	0.034
21	0.579	5		0.069		
22	0.492	6	6.23	0.076	6.21	
23	0.875	10		0.093	6.34	
24	0.466	9	6.33	0.087		
25	0.55	9		0.083	6.35	
26	0.468	6	6.3	0.072		
27	0.63	10		0.08		
28	0.638	8		0.067		
29	0.497	0		0.089		
30	0.52	7		0.076		
31						

Daily Laboratory Testing
2016

Site:	Clarifiers			Filtered		Alum.
Dec.	#3			#3		
	Turbidity	Color	pH	Turbidity	pH	
	NTU	PtCo		NTU		
1	0.391	8		0.092		
2	0.356	6	6.392	0.072	6.258	
3	0.493	5		0.087		
4	0.409	6		0.087		
5	0.44	6		0.075		
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						

Daily Laboratory Testing

Site:

2016

Clearwell

Dec.

	Turbidity	pH	Tempt.
1	0.088	6.406	9.5
2	0.083	6.379	8.9
3	0.098	6.5	7
4	0.099	6.556	8.4
5	0.082	6.494	8.7
6	0.076	6.4	9.2
7	0.104	6.515	8.7
8	0.108	6.571	8.5
9	0.08	6.772	9.1
10	0.082	6.4	7.9
11	0.137	6.38	6.7
12	0.079	6.347	7.4
13	0.091	6.277	7.4
14	0.075	6.142	7.6
15	0.096	6.473	9.5
16	0.088	6.549	5.8
17	0.093	6.54	4.4
18	0.08	6.541	9.7
19	0.082	6.357	5.8
20	0.077	6.751	10.4
21	0.083	6.55	4.7
22	0.094	6.42	4.7
23	0.094	6.41	8.4
24	0.09	6.37	8.8
25	0.113	6.55	18
26	0.089	6.4	9
27	0.089	6.552	7.1
28	0.081	6.553	8.8
29	0.097	6.429	13.5
30	0.093	6.484	8.5
31			

Site: 100 Foot Sample Line - EFF
Dec.

[illegible]

THM and HAA5

2017

CCR Report	CCR Report
THM	HAA5
Average	Average

(Samples tested once a quarter = 4 times a year)

Jan. - 1st Quarter

2017

Location	Date	THM	HAA5
Work N Gear			
Salem Lib.			
DPW			
Kevins Stor tore			
Average			

April - 2nd Quarter

2017

Location	Date	THM	HAA5
Work N Gear			
Salem Lib.			
DPW			
Kevins Stor tore			
Average			

July - 3rd Quarter

2017

Location	Date	THM	HAA5
Work N Gear			
Salem Lib.			
DPW			
Kevins Stor tore			
Average			

Oct. - 4th Quarter

2017

Location	Date	THM	HAA5
Work N Gear			
Salem Lib.			
DPW			
Kevins Stor tore			
Average			

2017

*Used for D/DBP report

	Work N Gear			Salem Lib.	
	THM	HAA5		THM	HAA5
1st					
2nd					
3rd					
4th					
Avg.					

	DPW			Kevins Store	
	THM	HAA5		THM	HAA5
1st					
2nd					
3rd					
4th					
AVG.					

QC Samples - Distribution 2018

Jan

Site	Date	Tempt.	Total Chlorine	pH	Alk.	Color	Turb.	Hardness	Iron
			°C		Pheno/Total mg/L	PtCo	NTU	mg/L	mg/L
Michaels Market	1/24	8.3	1.99	7.48	0/27.58	5	0.468	20	0
Dunkin Donuts	1/24	7	1.19	7.358	0/28.12	3	0.347	30	0
Kevins Country Store	1/24	5.5	0.71	7.496	0/29.29	4	0.283	32	0
Univex	1/24	15.7	1.86	7.516	0/27.51	5	0.237	32	0
Work N gear	1/24	17.3	0.64	7.633	0.28.69	4	0.281	34	0

Feb

Site	Date	Tempt.	Total Chlorine	pH	Alk.	Color	Turb.	Hardness	Iron
			°C		Pheno/Total mg/L	PtCo	NTU	mg/L	mg/L
Michaels Market	2/21	9.2	2.3	7.658	0/24.46	2	0.214	28	0
Dunkin Donuts	2/21	6.6	1.19	7.363	0/25.95	0	0.206	24	0
Kevins Country Store	2/21	9.3	0.97	7.658	0/25.85	2	0.219	28	0
Univex	2/21	20.6	1.8	8.089	0/25.6	2	0.254	34	0
Work N gear	2/21	15.7	1.43	7.833	0/25.76	0	0.224	30	0

March

Site	Date	Tempt.	Total Chlorine	pH	Alk.	Color	Turb.	Hardness	Iron
			°C		Pheno/Total mg/L	PtCo	NTU	mg/L	mg/L
Michaels Market	3/29	7.2	1.77	7.502	0/31.3	0	0.311	40	0
Dunkin Donuts	3/29	7.9	1.4	7.615	0/27.07	0	0.165	30	0
Kevins Country Store	3/29	5.8	1.17	8.116	0/29.25	0	0.299	42	0
Univex	3/29	15.2	1.97	8.069	0/32.16	0	0.154	52	0
Work N gear	3/29	16.7	1.32	7.956	0/30.98	0	0.123	36	0

April

Site	Date	Tempt.	Total Chlorine	pH	Alk.	Color	Turb.	Hardness	Iron
			°C		Pheno/Total mg/L	PtCo	NTU	mg/L	mg/L
Michaels Market	4/23	12.2	1.23	7.998	0/33.81	0	0.261	34	0
Dunkin Donuts	4/23	10	1.25	7.66	0/29.13	0	0.179	46	0
Kevins Country Store	4/23	8.4	1.35	7.851	0/30.97	0	0.172	40	0
Univex	4/23	17	1.77	7.864	0/31.5	0	0.164	52	0
Work N gear	4/23	16.9	1.26	7.921	0/31.84	0	0.14	50	0

May

Site	Date	Tempt.	Total Chlorine °C mg/L	pH	Alk. Pheno/Total mg/L	Color PtCo	Turb. NTU	Hardness mg/L	Iron mg/L
Michaels Market	5/30	20.4	2.52	8.633	3.072/32.35	2	0.198	40	0
Dunkin Donuts	5/30	20.2	2.03	8.122	0/30.82	3	0.135	44	0
Kevins Country Store	5/30	27.3	1.73	8.318	.207/31.56	3	0.244	42	0
Univex	5/30	21.19	1.62	8.866	5.986/34.21	4	0.348	46	0
Work N gear	5/30	19.3	1.51	8.419	.605/32.27	1	0.148	44	0

June

Site	Date	Tempt.	Total Chlorine °C mg/L	pH	Alk. Pheno/Total mg/L	Color PtCo	Turb. NTU	Hardness mg/L	Iron mg/L
Michaels Market	6/18								0
Dunkin Donuts	6/18								0
Kevins Country Store	6/18								0
Univex	6/18								0
Work N gear	6/18								0

July

Site	Date	Tempt.	Total Chlorine °C mg/L	pH	Alk. Pheno/Total mg/L	Color PtCo	Turb. NTU	Hardness mg/L	Iron mg/L
Michaels Market	7/18								
Dunkin Donuts	7/18	no samples out sick							
Kevins Country Store	7/18								
Univex	7/18								
Work N gear	7/18								0

Aug

Site	Date	Tempt.	Total Chlorine °C mg/L	pH	Alk. Pheno/Total mg/L	Color PtCo	Turb. NTU	Hardness mg/L	Iron mg/L
Michaels Market	4/23								0
Dunkin Donuts	4/23								0
Kevins Country Store	4/23								0
Univex	4/23								0
Work N gear	4/23								0

Sept

Site	Date	Tempt.	Total Chlorine	pH	Alk.	Color	Turb.	Hardness	Iron
			°C	mg/L	Pheno/Total mg/L	PtCo	NTU	mg/L	mg/L
Michaels Market									
Dunkin Donuts									
Kevins Country Store									
Univex									
Work N gear									

Oct

Site	Date	Tempt.	Total Chlorine	pH	Alk.	Color	Turb.	Hardness	Iron
			°C	mg/L	Pheno/Total mg/L	PtCo	NTU	mg/L	mg/L
Michaels Market									
Dunkin Donuts									
Kevins Country Store									
Univex									
Work N gear									

Nov

Site	Date	Tempt.	Total Chlorine	pH	Alk.	Color	Turb.	Hardness	Iron
			°C	mg/L	Pheno/Total mg/L	PtCo	NTU	mg/L	mg/L
Michaels Market									
Dunkin Donuts									
Kevins Country Store									
Univex									
Work N gear									

Dec

[illegible]

**TOC and UV254
2020**

Date	TOC	UV254
1/16 Eff	2.8	0.035cm ⁻¹
Raw	4.8	0.118cm ⁻¹
2/6 Eff	2.6	0.051cm ⁻¹
Raw	4.7	0.129cm ⁻¹
3/12 Eff	2.4	0.040cm ⁻¹
Raw	4.3	0.099cm ⁻¹
4/3 Eff	2.4	0.040cm ⁻¹
Raw	4.1	0.098cm ⁻¹
5/8 Eff	2.4	0.040cm ⁻¹
Raw	4.5	0.111cm ⁻¹
6/4 Eff	2.6	0.050cm ⁻¹
Raw	3.7	0.079cm ⁻¹
7/9 Eff	2.7	0.044cm ⁻¹
Raw	3.6	0.069cm ⁻¹
8/6 Eff	2.6	0.048cm ⁻¹
Raw	3.5	0.068cm ⁻¹
9/3 Eff	2.5	0.041cm ⁻¹
Raw	3.3	0.061cm ⁻¹
10/20 Eff	2.2	0.043cm ⁻¹
Raw	3	0.062cm ⁻¹
11/4 Eff	2.3	0.042cm ⁻¹
Raw	3.2	0.069cm ⁻¹
12/3 Eff	2.8	0.043cm ⁻¹
Raw	4.1	0.079cm ⁻¹

**Running average TOC
Finished Water - EFF - 2020**

2020	(Monthly testing)
2014 Jan	2.8
2014 Feb	2.6
2014 March	2.4
2014 April	2.4
2014 May	2.4
2014 June	2.6
2014 July	2.7
2014 Aug	2.6
2014 Sept	2.5
2014 Oct	2.2
2014 Nov	2.3
2014 Dec	2.8
Total	30.3
Yearly Average	2.525
CCR report :	2.525

Lead and Copper 2021

round #1

Site I.D. #	Location	copper	lead	
1	18 Highland Ave.	0.0073 mg/l	0 mg/l	1st Half
5	19 Marianna	0.057 mg/l	0 mg/l	
6	29 Joseph Rd.	0.0519 mg/l	0 mg/l	
7	7 Kyle Dr.	0.0479 mg/l	0.0011 mg/l	
8	25 WoodMeadow Dr	0.0787 mg/l	0 mg/l	
9	21 Butler St.	0.0249 mg/l	0.0032 mg/l	
11	27 Tyler St.	0.066 mg/l	0 mg/l	
12	73 Wheeler Ave.	0.0178 mg/l	0 mg/l	
13	7 Azarian Rd.	0.0573 mg/l	0.0025 mg/l	
14	72 Bridge Street	0.0486 mg/l	0 mg/l	
15	6 Down Ave.	0.0409 mg/l	0.0029 mg/l	
16	16 Veronica Ave	0.1023 mg/l	0.003 mg/l	
18	7 Karen lane	0.0502 mg/l	0 mg/l	
19	33 Woodmeadow	0.0506 mg/l	0 mg/l	
21	77 Old Rockingham Rd	0.0455 mg/l	0.001 mg/l	
22	25 Azarian Rd.	0.0634 mg/l	0.0022 mg/l	
23	84 N. Main St.	0.0156 mg/l	0.001 mg/l	
24	39 Barron Ave	0.0647 mg/l	0 mg/l	
25	9 Karen lane	0.094 mg/l	0.0016 mg/l	
26	67 Cross St	0.022 mg/l	0 mg/l	
27	42 Atkinson Rd.	0.0688 mg/l	0 mg/l	
33	23 Howard St.	0.033 mg/l	0 mg/l	
34	57 Dustin Rd.	0.0423 mg/l	0 mg/l	
35	67 Barron Ave	0.0597 mg/l	0.0011 mg/l	
36	29 Mason Dr.	0.0423 mg/l	0 mg/l	
37	9 Lois Lane	0.0283 mg/l	0 mg/l	
38	47 Woodmeadow	0.0568 mg/l	0.0018 mg/l	
40	8 Stiles Rd	0.0319 mg/l	0 mg/l	
41	12 Stiles Rd.	0.1735 mg/l	0 mg/l	
42	14 Stiles Rd	0.0744 mg/l	0 mg/l	
43	22 Stiles Rd	0.1096 mg/l	0.0039 mg/l	
44	23 Stiles Rd	0.0074 mg/l	0 mg/l	
45	24 Stiles Rd.	0.0453 mg/l	0 mg/l	2nd Half
46	32 Stiles Rd	0.1616 mg/l	0.0011 mg/l	
47	45 Stiles Rd	0.197 mg/l	0.0048 mg/l	
48	53 Stiles Rd	0.0337 mg/l	0.001 mg/l	
49	59 Stiles Rd.	0.0582 mg/l	0 mg/l	
50	68 Stiles Rd	0.1566 mg/l	0 mg/l	
51	85 Stiles Rd.	0.1074 mg/l	0.0017 mg/l	
52	89 Stiles Rd	0.1537 mg/l	0.0016 mg/l	
53	41 S Broadway	0.0394 mg/l	0 mg/l	
54	291 S Broadway	0.1165 mg/l	0 mg/l	
55	22 Trolley Ln.	0.0378 mg/l	0.0012 mg/l	
56	2 Industrial Way	0.0419 mg/l	0.0017 mg/l	
57	11 Industrial Way	0.1702 mg/l	0 mg/l	
58	12 Industrial Way	0.1799 mg/l	0 mg/l	
59	15 Industrial Way	0.0498 mg/l	0 mg/l	
60	395 Main St.	0.0902 mg/l	0 mg/l	
62	Kevin's Country Store	0.0689 mg/l	0 mg/l	
63	195 Lawrence Rd.	0.1345 mg/l	0.0018 mg/l	
64	206 Lawrence Rd.	0.0184 mg/l	0 mg/l	
65	45 Millville St.	0.0569 mg/l	0 mg/l	
66	160 Millville St.	0.5608 mg/l	0.0029 mg/l	
67	44 School St.	0.0111 mg/l	0 mg/l	
68	27 Pleasant St.	0.0719 mg/l	0.001 mg/l	
69	64 Pleasant St.	0.0378 mg/l	0 mg/l	
70	44 Liberty St.	0.0288 mg/l	0 mg/l	
72	123 N. Main St.	0.0306 mg/l	0 mg/l	
74	120 N. Main St.	0.0144 mg/l	0 mg/l	
75	28 N. Main St.	0.0413 mg/l	0 mg/l	
80	28 Merrill Ave.	0.0361 mg/l	0 mg/l	
81	22 Merrill Ave.	0.0298 mg/l	0 mg/l	
82	8 Henderson Cir	0.0824 mg/l	0 mg/l	
	Average	0.072976 mg/l	0.0007 mg/l	

Lead and Copper 2021

round #2

Site I.D. #	Location	copper	lead	
1	18 Highland Ave.	0.053 mg/l	0 mg/l	1st Half
5	19 Marianna	0.116 mg/l	0 mg/l	
6	29 Joseph Rd.	0.1117 mg/l	0 mg/l	
7	7 Kyle Dr.	0.077 mg/l	0 mg/l	
8	25 WoodMeadow Dr	mg/l	mg/l	
9	21 Butler St.	mg/l	mg/l	
11	27 Tyler St.	mg/l	mg/l	
12	73 Wheeler Ave.	0.1637 mg/l	0 mg/l	
13	7 Azarian Rd.	mg/l	mg/l	
14	72 Bridge Street	0.1251 mg/l	0 mg/l	
15	6 Down Ave.	0.0782 mg/l	0.0039 mg/l	
16	16 Veronica Ave	0.1419 mg/l	0.0029 mg/l	
17	42 Dustin Rd.	0.1442 mg/l	0 mg/l	
18	7 Karen lane	mg/l	mg/l	
19	33 Woodmeadow	mg/l	mg/l	
21	77 Old Rockingham Rd	0.0874 mg/l	0.0015 mg/l	
22	25 Azarian Rd.	0.1082 mg/l	0.0013 mg/l	
23	84 N. Main St.	0.0458 mg/l	0 mg/l	
24	39 Barron Ave	0.0958 mg/l	0.0014 mg/l	
25	9 Karen lane	0.1656 mg/l	0.0013 mg/l	
26	67 Cross St	0.0589 mg/l	0 mg/l	
27	42 Atkinson Rd.	0.1806 mg/l	0 mg/l	
28	26 Danbridge Ave.	0.0434 mg/l	0 mg/l	
31	223 Shannon Rd.	0.0787 mg/l	0 mg/l	
33	23 Howard St.	mg/l	mg/l	
34	57 Dustin Rd.	mg/l	mg/l	
35	67 Barron Ave	0.1652 mg/l	0.0022 mg/l	
36	29 Mason Dr.	0.0852 mg/l	0.001 mg/l	
37	9 Lois Lane	mg/l	mg/l	
38	47 Woodmeadow	0.1089 mg/l	0.0025 mg/l	
40	8 Stiles Rd	0.0178 mg/l	0 mg/l	
41	12 Stiles Rd.	0.1839 mg/l	0.0011 mg/l	
42	14 Stiles Rd	0.094 mg/l	0.001 mg/l	
43	22 Stiles Rd	0.1625 mg/l	0.0043 mg/l	
44	23 Stiles Rd	0.0275 mg/l	0 mg/l	2nd Half
45	24 Stiles Rd.	mg/l	mg/l	
46	32 Stiles Rd	mg/l	mg/l	
47	45 Stiles Rd	mg/l	mg/l	
48	53 Stiles Rd	mg/l	mg/l	
49	59 Stiles Rd.	mg/l	mg/l	
50	68 Stiles Rd	mg/l	mg/l	
51	85 Stiles Rd.	mg/l	mg/l	
52	89 Stiles Rd	mg/l	mg/l	
53	41 S Broadway	mg/l	mg/l	
54	291 S Broadway	mg/l	mg/l	
55	22 Trolley Ln.	mg/l	mg/l	
56	2 Industrial Way	mg/l	mg/l	
57	11 Industrial Way	mg/l	mg/l	
58	12 Industrial Way	mg/l	mg/l	
59	15 Industrial Way	mg/l	mg/l	
60	395 Main St.	mg/l	mg/l	
62	Kevin's Country Store	mg/l	mg/l	
63	195 Lawrence Rd.	mg/l	mg/l	
64	206 Lawrence Rd.	mg/l	mg/l	
65	45 Millville St.	mg/l	mg/l	
66	160 Millville St.	mg/l	mg/l	
67	44 School St.	mg/l	mg/l	
68	27 Pleasant St.	mg/l	mg/l	
69	64 Pleasant St.	mg/l	mg/l	
70	44 Liberty St.	mg/l	mg/l	
72	123 N. Main St.	mg/l	mg/l	
74	120 N. Main St.	mg/l	mg/l	
75	28 N. Main St.	mg/l	mg/l	
80	28 Merrill Ave.	mg/l	mg/l	
81	22 Merrill Ave.	mg/l	mg/l	
82	8 Henderson Cir	mg/l	mg/l	

Quarter #1 **PFAS** **2022**
no samples

Quarter #2

Date 5/24	Location : Canobie lake	Results	Pass/Fail	CCR Report 5/24/2022
Perfluorohexanesulfonic Acid	(PFHXS)	ND	Pass	ND
Perfluorononanoic Acid	(PFNA)	ND	Pass	ND
Perfluorooctanesulfonic Acid	(PFOS)	2.30 ng/l	Pass	2.30 ng/l
Perfluorooctanoic Acid	(PFOA)	8.02 ng/l	Pass	8.02 ng/l

IOV, VOC,SOC Nitrate		2023		CCR Report	Non-Compl.Samples Manganese
Date	Location	19-Jan Arlington Pond Results/Unites	12-Jul Canobie Results/Units		
Iron		0.015 mg/l	ND	CCR Report	
Sodium		38.6 mg/l	59.6 mg/l		date 6/1/2023
					Eff 0.147 mg/l
Antimony		ND	ND		
Arsenic	*noteMCL .0050mg/ml (5.0ppb)	ND	ND		Date 6/7/2023
Barium		0.0153 mg/l	0.0309 mg/l		Raw 0.0751
Beryllium		ND	ND		
Cadmium		ND	ND		Date 6/7/2023
Chromium		ND	ND		From Lake 0.0769
Copper		<0.001 mg/l	ND		
Manganese		0.0196 mg/l	0.259 mg/l	0.1393	
Mercury		ND	ND		
Nickel		<0.001 mg/l	ND		
Selenium		ND	ND		
Thallium		ND	ND		
Zinc		0.0015 mg/l	ND		
1,2-Dibromomoethane (EDB)		ND	ND		
1,2-Dibromo-3-chloropropane (DBCP)		ND	ND		
Chlordane (TECH)		ND	ND		
Aldicarb Sulfoxide		ND	ND		
Aldicarb Sulfone		ND	ND		
Oxamyl		ND	ND		
Methomyl		ND			
3-Hydroxy-Carbofuran		ND	ND		
Aldicarb (TEMRK)		ND	ND		
Carbofuran		ND	ND		
Carbaryl		ND	ND		
Methiocarb		ND	ND		
Diquat		ND	ND		
propoxou (baygon)		ND	ND		
Glyphosate		ND	ND		
Alachlor		ND	ND		
Aldrin		ND	ND		
Atrazine		ND	ND		
Benzo(a)pyrene		ND	ND		
Bis (2 Ethylhexyl) Adipate		ND	ND	CCR Report	
Bis (2-ethylhexyl) phthalate (ppb)		ND	ND		0
Butachlor		ND	ND		
Dieldrin		ND	ND		
Endrin		ND	ND		
Heptachlor		ND	ND		
Heptachlor expoxide		ND	ND		
Hexachlorobenzene		ND	ND		
Hexachlorocyclopentadiene		ND	ND		
Methoxychlor		ND	ND		
Metolachlor		ND	ND		
Metribuzin		ND	ND		
1,2 Dichlorobenzene					
Propachlor		ND	ND		
Simazine		ND	ND		
Gamma-BHC(Lindane)		ND	ND		
1,3-Dimethyl-2-nitrobenzene		ND	103%		
Pyrene-d10		ND	91%		
Triphenyl phosphate		ND	123%		
Perylene-d12		ND	99%		
Picloram		ND	ND		
Dicamba		ND	ND		
2,4 Dichlorophenylacetic acid		ND	114%		

2,4,5 -TP (SILVEX)	ND	ND
Dinoseb (2 SEC-Butyl 4 6 Dinitrophenol (DNPB)	ND	ND
Dalapon	ND	ND
2,4-D	ND	ND
Pentachlorophenol	ND	ND
Benzene	ND	ND
Bromobenzene	ND	ND
Bromochloromethane	ND	ND
Bromodichloromethane	3.8 ug/l	ND
Bromoform	ND	ND
Bromomethane (Methyl Bromide)	ND	ND
t-Butanol (TBA)		
n-Butylbenzene		ND
sec-Butylbenzene	ND	
tert-Butylbenzene		
Carbon disulfide	ND	ND
Carbon tetrachloride	ND	ND
Chlorobenzene	ND	ND
Chloromethane	ND	ND
Chloroform	7.9 ug/l	16 ug/l
2-Chlorotoluene	ND	ND
4-Chlorotoluene	ND	ND
Dichloromethane (methylene chloride)		
Chlorodibromomethane	0.7 ug/l	2.4 ug/l
Dibromomethane	ND	ND
1,2 Dichloropropane	ND	ND
1,4 Dichlorobenzene	ND	ND
1,2-Dichlorobenzene D4	ND	102%
1,2-Dichlorobenzene	ND	
Dichlorodifluoromethane Freon-12	ND	ND
Fluorotrichloromethane Freon-11	ND	ND
1,2-Dichloroethane	ND	ND
trans-1,2-Dichloroethylene		ND
1,1-Dichloroethane	ND	ND
1,1 Dichloroethylene	ND	ND
1,3 Dichloropropane	ND	
1,3 Dichlorobenzene	ND	ND
1,3-Dichloropropane	ND	ND
cis-1,2 Dichloroethylene	ND	ND
cis-Dichloroproylene		
cis-1,3 Dichloroethylene		
cis--1,3-Dichloropropene		
1,1-Dichlorophpropene	ND	ND
Diethy ether	ND	ND
Disopropyl ether (DIPE)	ND	ND
Ethy-t-butyl ether (ETBE)	ND	ND
Ethylbenzene	ND	ND
Hexachlorobutadiene	ND	ND
Hexachloroethane	ND	ND
4-Isopropyltoluene	ND	ND
Isopropylbenzene	ND	ND
p-Isopropyltoluene /4-Isopropyltoluene		
2-Methoxy-2-methylbutane(TAME)	ND	ND
Methyl Tert-Butyl Ether D3	ND	101%
Methyl-t-butylether(MTBE)	ND	ND
Methylene Chloride	ND	ND
Napthalene	ND	ND
N-Butylbenzne	ND	ND
n-Propylbenzene	ND	ND
P-Bromofluorobenzene(4-Bromofluorobenzene)	ND	98%
Styrene	ND	ND
Tran 1,2 -Dicloroethylene	ND	ND
Tran 1,3 Dichloropropene	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND
1,1,2,-Tetrachloroethane	ND	ND
Tetrachloroethylene (perchloroethylene)		ND
Tetrahydrofuran (THF)	ND	ND
Toluene	ND	ND
1,2,4-Trichiorobenzene	ND	ND

1,2,3-Trichlorobenzene		ND	ND	
1,1,1-Trichloroethane		ND	ND	
1,1,2-Trichloroethane		ND		
Trichloroethene		ND	ND	
Trichlorofluoromethane		ND	ND	
1,2,3-Trichloropropane		ND	ND	
1,2,4-Trimethylbenzene		ND		
1,3,5 Trimethylbenzene		ND	ND	
Vinyl Chloride		ND	ND	
m/p-Xylene		ND		
O-Xylen		ND	ND	
Xylene (Total)		ND	ND	
Tert-Butylbenzene		ND		
Total Trihalomethanes	TTHMS	12 ug/l	28 ug/l	
Aroclor-1016				
Aroclor-1221				
Aroclor-1232				
Aroclor-1242				
Aroclor-1248				
Aroclor-1254				
Aroclor-1260				
Chlordane (TECH)				
Toxaphene (chlorinated camphene)	ND		ND	
Tetrachloroethylene		ND		
Tert-Butyl Alcohol (2 Methyl-2-Propanol)		ND		CCR Report
Nitrite-Nitrogen		1 mg/l	ND	0
Nitrate-Nitrogen		0.2 mg/l	ND	0.1
Chloride		58 mg/l	93 mg/l	75.5
pH		7.12	8.44	7.78
Fluoride		ND	ND	
Sulfate (as SO4)		17 mg/l	20 mg/l	18.5
Cyanide				
Radium 226				
Radium 225				
Combined Radium				
Gross Alpha	(compliance)	ND	ND	CCR Report
Uranium		ND	ND	0

2024

TOC and UV254

		m				
DATE		TOC	UV254			
Jan	25-Jan					
Raw	raw	3.1	0.063 cm ^ -	Alk	34	
Eff	eff	2.1	0.034 cm ^ -			
Feb.	23-Feb					
Raw	raw	4.5	0.127 cm ^ -	Alk	15	
Eff	eff	2.2	0.042 cm ^ -			
March	26-Mar					
Raw	raw	4.3	0.13 cm ^ -	Alk	17	
Eff	eff	2.2	0.041 cm ^ -			
April	24-Apr					
Raw	raw	4.3	0.044 cm ^ -	alk	16	
Eff	eff	2.3	1.27 cm ^ -			
May	24-May					
Raw	raw	3.5	0.085 cm ^ -	alk	35	
Eff	eff	2.7	0.059 cm ^ -			
June	24-Jun					
Raw		3.4	0.079 cm ^ -	alk	36	
Eff		2.5	0.056 cm ^ -			
July	22-Jul					
Raw		3.8	0.066 cm ^ -	alk	34	
Eff		2.4	0.057 cm ^ -			
Aug.	9-Aug					
Raw		3.2	0.05 cm ^ -	alk	35	
Eff		2.5	0.027 cm ^ -			
Sept.	12-Sep					
Raw		3.2	0.057 cm ^ -	alk	32	
Eff		2.4	0.038 cm ^ -			

2024

TOC and UV254

m

DATE

TOC

UV254

Oct.

10-Oct

Raw

4.2

0.05 cm ⁻¹

alk

33

Eff

2.1

0.064 cm ⁻¹

Nov.

7-Nov

Raw

3.1

0.039 cm ⁻¹

34

Eff

2.1

0.067 cm ⁻¹

12-Dec

Raw

4.4

0.071 cm ⁻¹

17

Eff

2.8

0.015 cm ⁻¹

1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9
10	10	10	10	10	10
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95	95	95	95	95	95
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98	98	98	98	98	98
99	99	99	99	99	99
100	100	100	100	100	100

[illegible]