

II. Suggested Format for the Remediation General Permit Notice of Intent (NOI)

A. General site information:

1. Name of site: Grove Pond Water Treatment Plant - Well 8	Site address: 99 Barnum Road Street: City: Ayer State: MA Zip: 01432
2. Site owner Owner is (check one): ☐ Federal ☐ State/Tribal ☐ Private ☒ Other; if so, specify: Municipal	Contact Person: Mark Wetzel P.E. Telephone: 978-772-8240 Email: mwetzel@ayer.ma.us Mailing address: 25 Brook Street Street: City: Ayer State: MA Zip: 01432
3. Site operator, if different than owner	Contact Person: Telephone: Email: Mailing address: Street: City: State: Zip:
4. NPDES permit number assigned by EPA: NPDES permit is (check all that apply): ☐ RGP ☐ DGP ☐ CGP ☐ MSGP ☐ Individual NPDES permit ☐ Other; if so, specify:	5. Other regulatory program(s) that apply to the site (check all that apply): ☐ MA Chapter 21e; list RTN(s): ☐ CERCLA ☐ UIC Program ☐ NH Groundwater Management Permit or Groundwater Release Detection Permit: ☐ POTW Pretreatment ☐ CWA Section 404

MAG910000
NHG910000

B. Receiving water information:

1. Name of receiving water(s): Grove Pond	Waterbody identification of receiving water(s): MA81053	Classification of receiving water(s): Class B
Receiving water is (check any that apply): ☐ Outstanding Resource Water ☐ Ocean Sanctuary ☐ territorial sea ☐ Wild and Scenic River		
2. Has the operator attached a location map in accordance with the instructions in B, above? (check one): ☒ Yes ☐ No Are sensitive receptors present near the site? (check one): ☐ Yes ☐ No If yes, specify: Water supply, surface water, wetland area ☒		
3. Indicate if the receiving water(s) is listed in the State's Integrated List of Waters (i.e., CWA Section 303(d)). Include which designated uses are impaired, and any pollutants indicated. Also, indicate if a final TMDL is available for any of the indicated pollutants. For more information, contact the appropriate State as noted in Part 4.6 of the RGP. Aquatic plants, arsenic, DEHP, mercury in fish, PAHs		
4. Indicate the seven day-ten-year low flow (7Q10) of the receiving water determined in accordance with the instructions in Appendix V for sites located in Massachusetts and Appendix VI for sites located in New Hampshire.		0.911 cfs
5. Indicate the requested dilution factor for the calculation of water quality-based effluent limitations (WQBELs) determined in accordance with the instructions in Appendix V for sites in Massachusetts and Appendix VI for sites in New Hampshire.		3.7
6. Has the operator received confirmation from the appropriate State for the 7Q10 and dilution factor indicated? (check one): ☐ Yes ☒ No If yes, indicate date confirmation received:		
7. Has the operator attached a summary of receiving water sampling results as required in Part 4.2 of the RGP in accordance with the instruction in Appendix VIII? (check one): ☒ Yes ☐ No		

C. Source water information:

1. Source water(s) is (check any that apply):		
☐ Contaminated groundwater	☐ Contaminated surface water	☐ The receiving water
Has the operator attached a summary of influent sampling results as required in Part 4.2 of the RGP in accordance with the instruction in Appendix VIII? (check one): ☒ Yes ☐ No	Has the operator attached a summary of influent sampling results as required in Part 4.2 of the RGP in accordance with the instruction in Appendix VIII? (check one): ☐ Yes ☐ No	☒ Potable water; if so, indicate municipality or origin: Ayer PWS 2019000 ☐ Other; if so, specify:

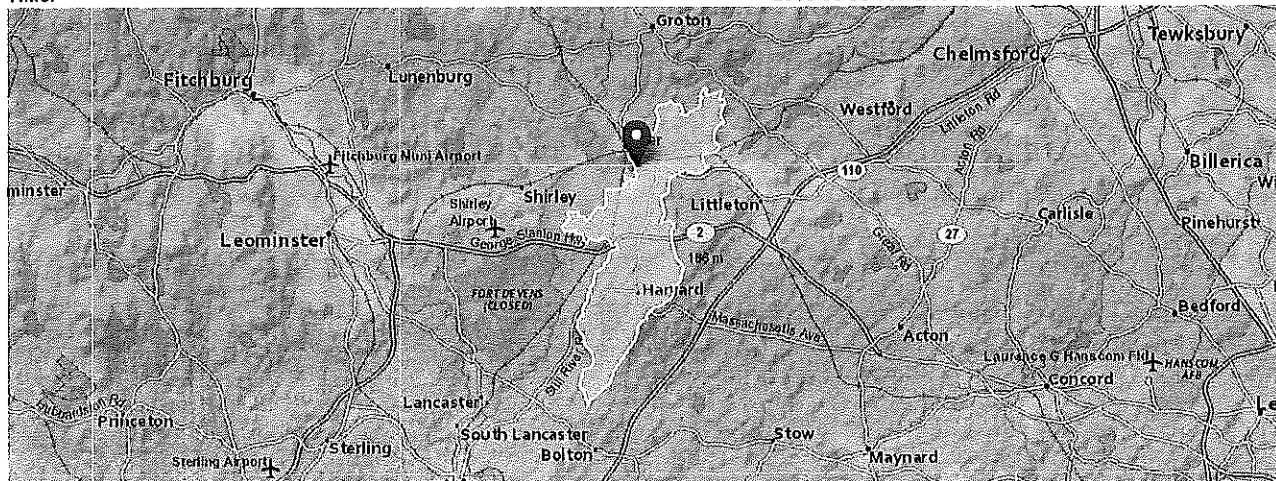
Category 5 waters listed alphabetically by major watershed The 303(d) List – "Waters requiring a TMDL"

WATER BODY	SEGMENT ID	DESCRIPTION	SIZE	UNITS	IMPAIRMENT	EPA TMDL NO.
PALMER RIVER	MA53-22	Headwaters, confluence of the East and West branches of the Palmer River, Rehoboth to the inlet of Shad Factory Pond, Rehoboth (formerly part of segment MA53-04).	4.8	MILES	Oxygen, Dissolved Escherichia coli Fecal Coliform	35086 35086
Runnins River	MA53-01	Route 44, Seekonk to Mobile Dam, Seekonk, MA/East Providence, RI (through Burrs Pond formerly segment MA53001).	3.7	MILES	Temperature, water Aquatic Macroinvertebrate Bioassessments Escherichia coli Fecal Coliform Mercury in Fish Tissue Nutrient/Eutrophication Biological Indicators Oxygen, Dissolved Escherichia coli	38903 38903 33880
RUNNINS RIVER	MA53-20	Headwaters just north of Walnut Street, Rehoboth to Route 44, Seekonk.	3.5	MILES	Escherichia coli	
Shad Factory Pond	MA53005	Rehoboth (formerly part of segment MA53-04).	31	ACRES	(Low flow alterations*) Fecal Coliform Nutrient/Eutrophication Biological Indicators Escherichia coli	35086
Unnamed Tributary	MA53-21	Headwaters east of Agawam Court, Seekonk to inlet of unnamed pond south of Sagamore Road, Seekonk.	0.6	MILES	Escherichia coli	
Nashua						
Asnebumskit Brook	MA81-56	From outlet Eagle Lake, Holden to mouth at confluence with the Quinapoxet River, Holden.	2.9	MILES	Ambient Bioassays -- Chronic Aquatic Toxicity	
Baker Brook	MA81-62	Headwaters, confluence of Pearl Hill and Falulah brooks, Fitchburg to mouth at confluence with North Nashua River, Fitchburg.	2.5	MILES	Escherichia coli	
CATACONAMUG BROOK	MA81-74	Headwaters, northwest of Chestnut Street, Lunenburg to inlet Lake Shirley, Harvard.	4.5	MILES	Escherichia coli	
Fall Brook	MA81-39	From outlet Lake Samoset, Leominster to mouth at confluence with the North Nashua River, Leominster (formerly part of segment MA81-14).	3	MILES	Escherichia coli	
FALULAH BROOK	MA81-63	Headwaters near Ringe Road, Ashby to mouth at confluence with Pearl Hill Brook, forming headwaters Baker Brook, Fitchburg (excluding approximately 0.6 miles through Lovell Reservoir segment MA81074).	6	MILES	Escherichia coli	
Fort Pond	MA81046	Lancaster.	76	ACRES	Oxygen, Dissolved	
Grove Pond	MA81053	Ayer.	68	ACRES	(Non-Native Aquatic Plants*) Aquatic Plants (Macrophytes) Arsenic DEHP (Di-sec-octyl phthalate) Mercury in Fish Tissue Polycyclic Aromatic Hydrocarbons (PAHs) (Aquatic Ecosystems)	

StreamStats Report

Region ID:
Workspace ID:
Clicked Point (Latitude, Longitude):
Time:

MA
MA20180605221459425000
42.55180, -71.58436
2018-06-05 18:15:16 -0400



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	15.7	square miles
BSLDEM250	Mean basin slope computed from 1:250K DEM	3.693	percent
DRFTPERSTR	Area of stratified drift per unit of stream length	0.19	square mile per mile
MAREGION	Region of Massachusetts 0 for Eastern 1 for Western	0	dimensionless

Low-Flow Statistics Parameters [Statewide Low Flow WRI00 4135]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	15.7	square miles	1.61	149
BSLDEM250	Mean Basin Slope from 250K DEM	3.693	percent	0.32	24.6
DRFTPERSTR	Stratified Drift per Stream Length	0.19	square mile per mile	0	1.29
MAREGION	Massachusetts Region	0	dimensionless	0	1

Low-Flow Statistics Flow Report [Statewide Low Flow WRI00 4135]

PII: Prediction Interval-Lower, PIu: Prediction Interval-Upper, SEp: Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	PII	PIu	SE	SEp
7 Day 2 Year Low Flow	1.92	ft ³ /s	0.685	5.17	49.5	49.5
7 Day 10 Year Low Flow	0.911	ft ³ /s	0.255	3.03	70.8	70.8

Low-Flow Statistics Citations

Ries, K.G., III, 2000, Methods for estimating low-flow statistics for Massachusetts streams: U.S. Geological Survey Water Resources Investigations Report 00-4135, 81 p. (<http://pubs.usgs.gov/wri/wri004135/>)

USGS Data Disclaimer: Unless otherwise stated, all data, metadata and related materials are considered to satisfy the quality standards relative to the purpose for which the data were collected. Although these data and associated metadata have been reviewed for accuracy and completeness and approved for release by the U.S. Geological Survey (USGS), no warranty expressed or implied is made regarding the display or utility of the data for other purposes, nor on all computer systems, nor shall the act of distribution constitute any such warranty.

Site Locus - Grove Pond Well No. 8



2. Source water contaminants: PFAS	
a. For source waters that are contaminated groundwater or contaminated surface water, indicate any contaminants present that are not included in the RGP? (check one): ☒ Yes ☐ No If yes, indicate the contaminant(s) and the maximum concentration present in accordance with the instructions in Appendix VIII.	b. For a source water that is a surface water other than the receiving water, potable water or other, indicate any contaminants present at the maximum concentration in accordance with the instructions in Appendix VIII? (check one): ☐ Yes ☐ No
3. Has the source water been previously chlorinated or otherwise contains residual chlorine? (check one): ☐ Yes ☒ No	

D. Discharge information

1. The discharge(s) is a(n) (check any that apply): ☐ Existing discharge ☒ New discharge ☐ New source	
Outfall(s):	Outfall location(s): (Latitude, Longitude) 42.551407, -71.582513
Discharges enter the receiving water(s) via (check any that apply): ☒ Direct discharge to the receiving water ☐ Indirect discharge, if so, specify: ☐ A private storm sewer system ☐ A municipal storm sewer system If the discharge enters the receiving water via a private or municipal storm sewer system: Has notification been provided to the owner of this system? (check one): ☐ Yes ☐ No Has the operator has received permission from the owner to use such system for discharges? (check one): ☐ Yes ☐ No, if so, explain, with an estimated timeframe for obtaining permission: Has the operator attached a summary of any additional requirements the owner of this system has specified? (check one): ☐ Yes ☐ No	
Provide the expected start and end dates of discharge(s) (month/year): June/ 2018 through Nov/2019	
Indicate if the discharge is expected to occur over a duration of: ☐ less than 12 months ☐ 12 months or more ☒ is an emergency discharge	
Has the operator attached a site plan in accordance with the instructions in D, above? (check one): ☒ Yes ☐ No	

2. Activity Category: (check all that apply)	3. Contamination Type Category: (check all that apply)							
☐ I – Petroleum-Related Site Remediation ☐ II – Non-Petroleum-Related Site Remediation ☐ III – Contaminated Site Dewatering ☐ IV – Dewatering of Pipelines and Tanks ☐ V – Aquifer Pump Testing ☒ VI – Well Development/Rehabilitation ☐ VII – Collection Structure Dewatering/Remediation ☐ VIII – Dredge-Related Dewatering	a. If Activity Category I or II: (check all that apply) ☐ A. Inorganics ☐ B. Non-Halogenated Volatile Organic Compounds ☐ C. Halogenated Volatile Organic Compounds ☐ D. Non-Halogenated Semi-Volatile Organic Compounds ☐ E. Halogenated Semi-Volatile Organic Compounds ☐ F. Fuels Parameters	b. If Activity Category III, IV, V, VI, VII or VIII: (check either G or H) <table border="1"> <tr> <td data-bbox="808 709 881 1150"> ☒ G. Sites with Known Contamination </td> <td data-bbox="808 149 881 709"> ☐ H. Sites with Unknown Contamination </td> </tr> <tr> <td colspan="2" data-bbox="881 149 1403 709"> c. If Category III-G, IV-G, V-G, VI-G, VII-G or VIII-G: (check all that apply) ☐ A. Inorganics ☐ B. Non-Halogenated Volatile Organic Compounds ☐ C. Halogenated Volatile Organic Compounds ☐ D. Non-Halogenated Semi-Volatile Organic Compounds ☐ E. Halogenated Semi-Volatile Organic Compounds ☐ F. Fuels Parameters </td> </tr> <tr> <td colspan="2" data-bbox="881 709 1403 1150"> d. If Category III-H, IV-H, V-H, VI-H, VII-H or VIII-H Contamination Type Categories A through F apply </td> </tr> </table>	☒ G. Sites with Known Contamination	☐ H. Sites with Unknown Contamination	c. If Category III-G, IV-G, V-G, VI-G, VII-G or VIII-G: (check all that apply) ☐ A. Inorganics ☐ B. Non-Halogenated Volatile Organic Compounds ☐ C. Halogenated Volatile Organic Compounds ☐ D. Non-Halogenated Semi-Volatile Organic Compounds ☐ E. Halogenated Semi-Volatile Organic Compounds ☐ F. Fuels Parameters		d. If Category III-H, IV-H, V-H, VI-H, VII-H or VIII-H Contamination Type Categories A through F apply	
☒ G. Sites with Known Contamination	☐ H. Sites with Unknown Contamination							
c. If Category III-G, IV-G, V-G, VI-G, VII-G or VIII-G: (check all that apply) ☐ A. Inorganics ☐ B. Non-Halogenated Volatile Organic Compounds ☐ C. Halogenated Volatile Organic Compounds ☐ D. Non-Halogenated Semi-Volatile Organic Compounds ☐ E. Halogenated Semi-Volatile Organic Compounds ☐ F. Fuels Parameters								
d. If Category III-H, IV-H, V-H, VI-H, VII-H or VIII-H Contamination Type Categories A through F apply								
PERFLUORINATED COMPOUNDS								

4. Influent and Effluent Characteristics

I. Influent and Effluent Characteristics									
Parameter	Known or believed absent	Known or believed present	# of samples	Test method (#)	Detection limit (µg/l)	Influent		Effluent Limitations	
						Daily maximum (µg/l)	Daily average (µg/l)	TBEL	WQBEL
A. Inorganics									
See Attached									
Ammonia								Report mg/L	---
Chloride								Report µg/l	---
Total Residual Chlorine							0	0.2 mg/L	---
Total Suspended Solids								30 mg/L	---
Antimony							0	206 µg/L	
Arsenic							12	104 µg/L	
Cadmium							0	10.2 µg/L	
Chromium III							0	323 µg/L	
Chromium VI							0	323 µg/L	
Copper							33	242 µg/L	
Iron							10	5,000 µg/L	
Lead								160 µg/L	
Mercury							0	0.739 µg/L	
Nickel							3	1,450 µg/L	
Selenium							0	235.8 µg/L	
Silver							0	35.1 µg/L	
Zinc							70	420 µg/L	
Cyanide							0	178 mg/L	
B. Non-Halogenated VOCs									
Total BTEX							0	100 µg/L	---
Benzene							0	5.0 µg/L	---
1,4 Dioxane								200 µg/L	---
Acetone								7.97 mg/L	---
Phenol								1,080 µg/L	

Parameter	Known or believed absent	Known or believed present	# of samples	Test method (#)	Detection limit ($\mu\text{g/l}$)	Influent		Effluent Limitations	
						Daily maximum ($\mu\text{g/l}$)	Daily average ($\mu\text{g/l}$)	TBEL	WQBEL
C. Halogenated VOCs									
Carbon Tetrachloride							0	4.4 $\mu\text{g/L}$	
1,2 Dichlorobenzene								600 $\mu\text{g/L}$	---
1,3 Dichlorobenzene								320 $\mu\text{g/L}$	---
1,4 Dichlorobenzene								5.0 $\mu\text{g/L}$	---
Total dichlorobenzene								763 $\mu\text{g/L}$ in NH	---
1,1 Dichloroethane								70 $\mu\text{g/L}$	---
1,2 Dichloroethane								5.0 $\mu\text{g/L}$	---
1,1 Dichloroethylene								3.2 $\mu\text{g/L}$	---
Ethylene Dibromide								0.05 $\mu\text{g/L}$	---
Methylene Chloride								4.6 $\mu\text{g/L}$	---
1,1,1 Trichloroethane								200 $\mu\text{g/L}$	---
1,1,2 Trichloroethane								5.0 $\mu\text{g/L}$	---
Trichloroethylene							0	5.0 $\mu\text{g/L}$	---
Tetrachloroethylene								5.0 $\mu\text{g/L}$	---
cis-1,2 Dichloroethylene								70 $\mu\text{g/L}$	---
Vinyl Chloride								2.0 $\mu\text{g/L}$	---
D. Non-Halogenated SVOCs									
Total Phthalates								190 $\mu\text{g/L}$	
Diethylhexyl phthalate								101 $\mu\text{g/L}$	
Total Group I PAHs								1.0 $\mu\text{g/L}$	---
Benzo(a)anthracene								As Total PAHs	
Benzo(a)pyrene									
Benzo(b)fluoranthene									
Benzo(k)fluoranthene									
Chrysene									
Dibenzo(a,h)anthracene								As Total PAHs	
Indeno(1,2,3-cd)pyrene									

[illegible]

Enter **influent** concentrations in the units specified

↓

0	TRC in $\mu\text{g/L}$
	Ammonia in mg/L
0	Antimony in $\mu\text{g/L}$
12	Arsenic in $\mu\text{g/L}$
0	Cadmium in $\mu\text{g/L}$
0	Chromium III in $\mu\text{g/L}$
0	Chromium VI in $\mu\text{g/L}$
33	Copper in $\mu\text{g/L}$
10	Iron in $\mu\text{g/L}$
	Lead in $\mu\text{g/L}$
0	Mercury in $\mu\text{g/L}$
3	Nickel in $\mu\text{g/L}$
0	Selenium in $\mu\text{g/L}$
0	Silver in $\mu\text{g/L}$
70	Zinc in $\mu\text{g/L}$
0	Cyanide in $\mu\text{g/L}$
	Phenol in $\mu\text{g/L}$
0	Carbon Tetrachloride in $\mu\text{g/L}$
0	Tetrachloroethylene in $\mu\text{g/L}$
	Total Phthalates in $\mu\text{g/L}$
	Diethylhexylphthalate in $\mu\text{g/L}$
	Benzo(a)anthracene in $\mu\text{g/L}$
	Benzo(a)pyrene in $\mu\text{g/L}$
	Benzo(b)fluoranthene in $\mu\text{g/L}$
	Benzo(k)fluoranthene in $\mu\text{g/L}$
	Chrysene in $\mu\text{g/L}$
	Dibenzo(a,h)anthracene in $\mu\text{g/L}$
	Indeno(1,2,3-cd)pyrene in $\mu\text{g/L}$
0	Methyl-tert butyl ether in $\mu\text{g/L}$

Enter number values in green boxes below

Enter values in the units specified



0.589	Q_R = Enter upstream flow in MGD
0.216	Q_P = Enter discharge flow in MGD
0.805	Downstream 7Q10

Enter a dilution factor, if other than zero



3.73

Enter values in the units specified



135	C_d = Enter influent hardness in mg/L CaCO_3
	C_s = Enter receiving water hardness in mg/L CaCO_3

Enter **receiving water** concentrations in the units specified



6.6	pH in Standard Units
19.9	Temperature in °C
0	Ammonia in mg/L
	Hardness in mg/L CaCO_3
	Salinity in ppt
0	Antimony in µg/L
76.7	Arsenic in µg/L
0	Cadmium in µg/L
74	Chromium III in µg/L
0	Chromium VI in µg/L
0	Copper in µg/L
0	Iron in µg/L
2.75	Lead in µg/L
0	Mercury in µg/L
	Nickel in µg/L
0	Selenium in µg/L
	Silver in µg/L
7190	Zinc in µg/L

Town of Ayer
Grove Pond Well 8 RGP

Dilution Factor	3.7					
	TBEL applies if bolded		WQBEL applies if bolded		Compliance Level applies if shown	
A. Inorganics						
Ammonia	Report	mg/L	---			
Chloride	Report	µg/L	---			
Total Residual Chlorine	0.2	mg/L	41	µg/L	50	µg/L
Total Suspended Solids	30	mg/L	---			
Antimony	206	µg/L	2385	µg/L		
Arsenic	104	µg/L	10	µg/L		
Cadmium	10.2	µg/L	0.1275	µg/L		
Chromium III	323	µg/L	37.5	µg/L		
Chromium VI	323	µg/L	42.6	µg/L		
Copper	242	µg/L	14.6	µg/L		
Iron	5000	µg/L	3727	µg/L		
Lead	160	µg/L	0.87	µg/L		
Mercury	0.739	µg/L	3.38	µg/L		
Nickel	1450	µg/L	82.3	µg/L		
Selenium	235.8	µg/L	18.6	µg/L		
Silver	35.1	µg/L	2.5	µg/L		
Zinc	420	µg/L	50.7	µg/L		
Cyanide	178	mg/L	19.4	µg/L	---	µg/L
B. Non-Halogenated VOCs						
Total BTEX	100	µg/L	---			
Benzene	5.0	µg/L	---			
1,4 Dioxane	200	µg/L	---			
Acetone	7970	µg/L	---			
Phenol	1,080	µg/L	1118	µg/L		
C. Halogenated VOCs						
Carbon Tetrachloride	4.4	µg/L	6.0	µg/L		
1,2 Dichlorobenzene	600	µg/L	---			
1,3 Dichlorobenzene	320	µg/L	---			
1,4 Dichlorobenzene	5.0	µg/L	---			
Total dichlorobenzene	---	µg/L	---			
1,1 Dichloroethane	70	µg/L	---			
1,2 Dichloroethane	5.0	µg/L	---			
1,1 Dichloroethylene	3.2	µg/L	---			
Ethylene Dibromide	0.05	µg/L	---			
Methylene Chloride	4.6	µg/L	---			
1,1,1 Trichloroethane	200	µg/L	---			
1,1,2 Trichloroethane	5.0	µg/L	---			
Trichloroethylene	5.0	µg/L	---			
Tetrachloroethylene	5.0	µg/L	12.3	µg/L		
cis-1,2 Dichloroethylene	70	µg/L	---			
Vinyl Chloride	2.0	µg/L	---			
D. Non-Halogenated SVOCs						
Total Phthalates	190	µg/L	---	µg/L		
Diethylhexyl phthalate	101	µg/L	8.2	µg/L		

Town of Ayer
Grove Pond Well 8 RGP

Total Group I Polycyclic Aromatic Hydrocarbons						
	1.0	µg/L	---			
Benzo(a)anthracene	1.0	µg/L	0.0142	µg/L	---	µg/L
Benzo(a)pyrene	1.0	µg/L	0.0142	µg/L	---	µg/L
Benzo(b)fluoranthene	1.0	µg/L	0.0142	µg/L	---	µg/L
Benzo(k)fluoranthene	1.0	µg/L	0.0142	µg/L	---	µg/L
Chrysene	1.0	µg/L	0.0142	µg/L	---	µg/L
Dibenzo(a,h)anthracene	1.0	µg/L	0.0142	µg/L	---	µg/L
Indeno(1,2,3-cd)pyrene	1.0	µg/L	0.0142	µg/L	---	µg/L
Total Group II Polycyclic Aromatic Hydrocarbons						
	100	µg/L	---			
Naphthalene	20	µg/L	---			
E. Halogenated SVOCs						
Total Polychlorinated Biphenyls						
	0.000064	µg/L	---		0.5	µg/L
Pentachlorophenol	1.0	µg/L	---			
F. Fuels Parameters						
Total Petroleum Hydrocarbons						
	5.0	mg/L	---			
Ethanol	Report	mg/L	---			
Methyl-tert-Butyl Ether	70	µg/L	75	µg/L		
tert-Butyl Alcohol	120	µg/L	---			
tert-Amyl Methyl Ether	90	µg/L	---			

E. Treatment system information

1. Indicate the type(s) of treatment that will be applied to effluent prior to discharge: (check all that apply) ☐ Adsorption/Absorption ☐ Advanced Oxidation Processes ☐ Air Stripping ☐ Granulated Activated Carbon ("GAC")/Liquid Phase Carbon Adsorption ☐ Ion Exchange ☐ Precipitation/Coagulation/Flocculation ☐ Separation/Filtration ☐ Other; if so, specify:	
2. Provide a written description of all treatment system(s) or processes that will be applied to the effluent prior to discharge. Identify each major treatment component (check any that apply): ☐ Fractionation tanks ☐ Equalization tank ☐ Oil/water separator ☐ Mechanical filter ☐ Media filter ☐ Chemical feed tank ☐ Air stripping unit ☐ Bag filter ☐ Other; if so, specify: Indicate if either of the following will occur (check any that apply): ☐ Chlorination ☐ De-chlorination	
3. Provide the design flow capacity in gallons per minute (gpm) of the most limiting component. Indicate the most limiting component: Well pump capacity Is use of a flow meter feasible? (check one): ☐ Yes ☒ No, if so, provide justification:	
Provide the proposed maximum effluent flow in gpm.	175 GPM
Provide the average effluent flow in gpm.	150 gpm
If Activity Category IV applies, indicate the estimated total volume of water that will be discharged:	
4. Has the operator attached a schematic of flow in accordance with the instructions in E, above? (check one): ☐ Yes ☒ No	

F. Chemical and additive information

1. Indicate the type(s) of chemical or additive that will be applied to effluent prior to discharge or that may otherwise be present in the discharge(s): (check all that apply)

☐ Algaecides/biocides ☐ Antifoams ☐ Coagulants ☐ Corrosion/scale inhibitors ☐ Disinfectants ☐ Flocculants ☐ Neutralizing agents ☐ Oxidants ☐ Oxygen scavengers ☐ pH conditioners ☐ Bioremedial agents, including microbes ☐ Chlorine or chemicals containing chlorine ☐ Other, if so, specify:

2. Provide the following information for each chemical/additive, using attachments, if necessary:

- Product name, chemical formula, and manufacturer of the chemical/additive;
- Purpose or use of the chemical/additive or remedial agent;
- Material Safety Data Sheet (MSDS) and Chemical Abstracts Service (CAS) Registry number for each chemical/additive;
- The frequency (hourly, daily, etc.), duration (hours, days), quantity (maximum and average), and method of application for the chemical/additive;
- Any material compatibility risks for storage and/or use including the control measures used to minimize such risks; and
- If available, the vendor's reported aquatic toxicity (NOAEL and/or LC50 in percent for aquatic organism(s)).

3. Has the operator attached an explanation which demonstrates that the addition of such chemicals/additives may be authorized under this general permit in accordance with the instructions in F, above? (check one): ☐ Yes ☐ No; if no, has the operator attached data that demonstrates each of the 126 priority pollutants in CWA Section 307(a) and 40 CFR Part 423.15(j)(1) are non-detect in discharges with the addition of the proposed chemical/additive? (check one): ☐ Yes ☐ No

G. Endangered Species Act eligibility determination

1. Indicate under which criterion the discharge(s) is eligible for coverage under this general permit:

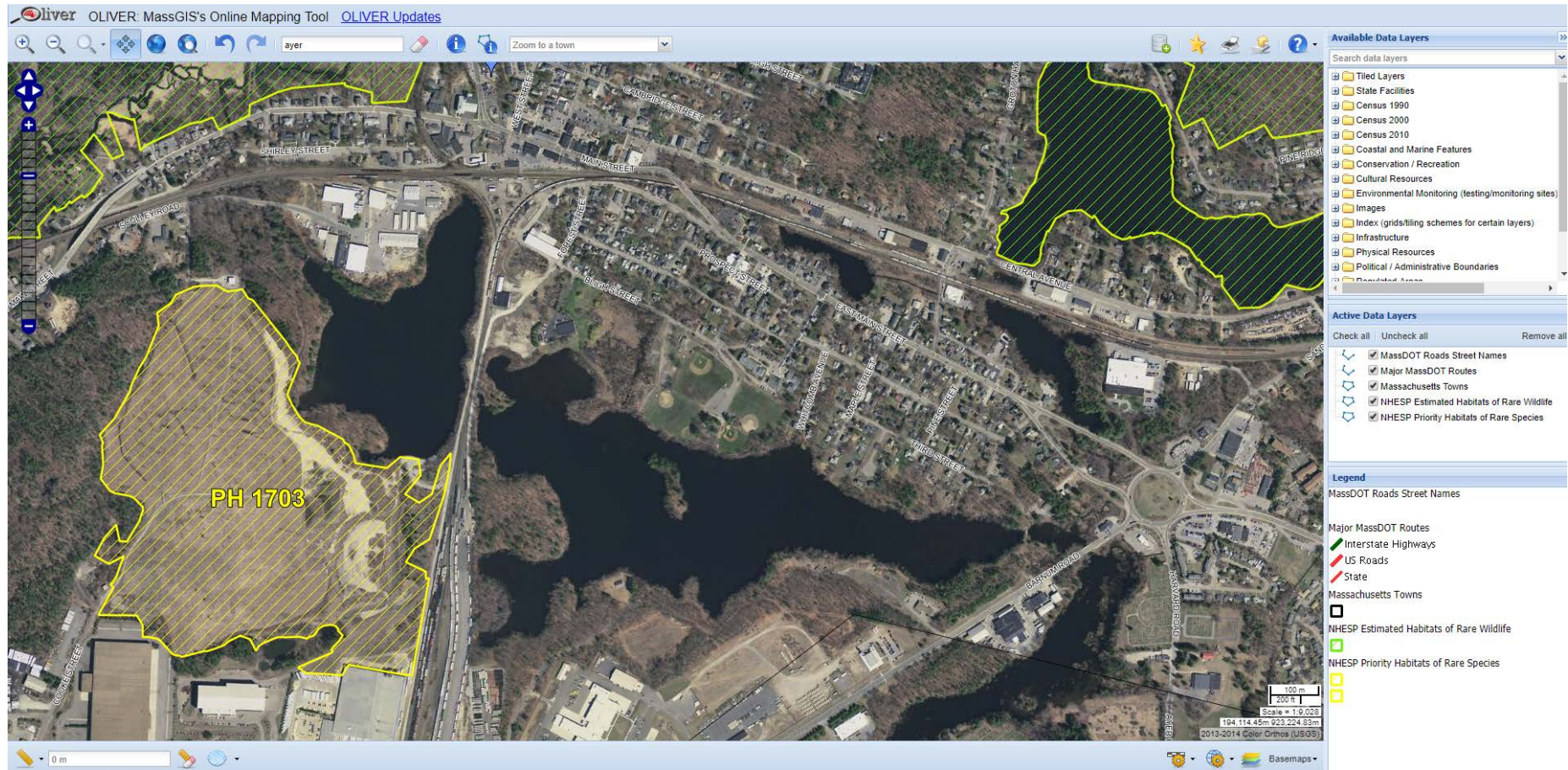
☒ **FWS Criterion A:** No endangered or threatened species or critical habitat are in proximity to the discharges or related activities or come in contact with the "action area".

☐ **FWS Criterion B:** Formal or informal consultation with the FWS under section 7 of the ESA resulted in either a no jeopardy opinion (formal consultation) or a written concurrence by FWS on a finding that the discharges and related activities are "not likely to adversely affect" listed species or critical habitat (informal consultation). Has the operator completed consultation with FWS? (check one): ☐ Yes ☐ No; if no, is consultation underway? (check one): ☐ Yes ☐ No

☐ **FWS Criterion C:** Using the best scientific and commercial data available, the effect of the discharges and related activities on listed species and critical habitat have been evaluated. Based on those evaluations, a determination is made by EPA, or by the operator and affirmed by EPA, that the discharges and related activities will have "no effect" on any federally threatened or endangered listed species or designated critical habitat under the jurisdiction of the FWS. This determination was made by: (check one) ☐ the operator ☐ EPA ☐ Other; if so, specify:

NHESP Map

Grove Pond Well No. 8



- ☐ **NMFS Criterion:** A determination made by EPA is affirmed by the operator that the discharges and related activities will have “no effect” or are “not likely to adversely affect” any federally threatened or endangered listed species or critical habitat under the jurisdiction of NMFS and will not result in any take of listed species. Has the operator previously completed consultation with NMFS? (check one): ☐ Yes ☐ No
2. Has the operator attached supporting documentation of ESA eligibility in accordance with the instructions in Appendix I, and G, above? (check one): ☒ Yes ☐ No

Does the supporting documentation include any written concurrence or finding provided by the Services? (check one): ☐ Yes ☒ No; if yes, attach.

H. National Historic Preservation Act eligibility determination

1. Indicate under which criterion the discharge(s) is eligible for coverage under this general permit:

- ☒ **Criterion A:** No historic properties are present. The discharges and discharge-related activities (e.g., BMPs) do not have the potential to cause effects on historic properties.
- ☐ **Criterion B:** Historic properties are present. Discharges and discharge related activities do not have the potential to cause effects on historic properties.
- ☐ **Criterion C:** Historic properties are present. The discharges and discharge-related activities have the potential to have an effect or will have an adverse effect on historic properties.

2. Has the operator attached supporting documentation of NHPA eligibility in accordance with the instructions in H, above? (check one): ☐ Yes ☒ No

MassGIS Online search shows no NHPA sites

Does the supporting documentation include any written agreement with the State Historic Preservation Officer (SHPO), Tribal Historic Preservation Officer (TPHO), or other tribal representative that outlines measures the operator will carry out to mitigate or prevent any adverse effects on historic properties? (check one): ☐ Yes ☐ No

I. Supplemental information

Describe any supplemental information being provided with the NOI. Include attachments if required or otherwise necessary.

Discharge is to prevent migration of PFOS, PFOA and other PFAS substances from migrating to the other town wells in the Grove Pond Wellfield

Has the operator attached data, including any laboratory case narrative and chain of custody used to support the application? (check one): ☐ Yes ☒ No

Has the operator attached the certification requirement for the Best Management Practices Plan (BMPP)? (check one): ☐ Yes ☒ No

MAG910000
NHG910000

J. Certification requirement

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

BMPP certification statement:

Notification provided to the appropriate State, including a copy of this NOI, if required. Check one: Yes ☒ No ☐

Notification provided to the municipality in which the discharge is located, including a copy of this NOI, if requested. Check one: Yes ☒ No ☐

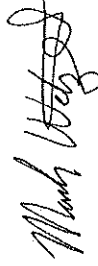
Notification provided to the owner of a private or municipal storm sewer system, if such system is used for site discharges, including a copy of this NOI, if requested. Check one: Yes ☐ No ☐ NA ☒

Permission obtained from the owner of a private or municipal storm sewer system, if such system is used for site discharges. If yes, attach additional conditions. If no, attach explanation and timeframe for obtaining permission. Check one: Yes ☐ No ☐ NA ☒

Notification provided to the owner/operator of the area associated with activities covered by an additional discharge permit(s). Additional discharge permit is (check one): ☐ RGP ☐ DGP ☐ CGP ☐ MSGP ☐ Individual NPDES permit

☐ Other; if so, specify: Check one: Yes ☐ No ☐ NA ☒

Signature:



Date: June 11, 2018

Print Name and Title: **Mark L Wetzel, P.E. Superintendent of Public Works**

GP Well 8

Nashoba Analytical, LLC

Tel: 978-391-4428

Fax: 978-391-4643

LabNumber:

155326

31A Willow Road, Ayer MA 01432

Website: <http://www.NashobaAnalytical.com>

Use this number with all correspondence

Client:

Ayer Water Department Rick Linde

25 Brook Street

Ayer, MA 01432

ReportDate: 5/26/2015

Certificate of Analysis

AYER DPW WATER DIVISION (AYER) 2019000

Parameter	Method	Result	MCL	MRL	Date of Analysis	Analyst
4 Grove Pond Well #8, RS RW-08G						
Sampled: 5/13/2015 10:15:00 AM by R. Linde						
Aluminum, MG/L	EPA 200.7	ND	0.2	0.02	5/15/2015	M-MA1118
Arsenic, Total, MG/L	SM 3113B	# 0.011	0.01	0.001	5/14/2015	M-MA1118
Calcium, MG/L	EPA 200.7	36.9	Not Spec	0.2	5/15/2015	M-MA1118
Copper, MG/L	EPA 200.7	0.007	1.3	0.003	5/15/2015	M-MA1118
Iron, MG/L	EPA 200.7	0.015	0.3	0.003	5/15/2015	M-MA1118
Magnesium, MG/L	EPA 200.7	4.1	Not Spec	0.1	5/15/2015	M-MA1118
Manganese, MG/L	EPA 200.7	# 0.28	0.05	0.002	5/15/2015	M-MA1118
Potassium, MG/L	EPA 200.7	3.3	Not Spec	0.1	5/15/2015	M-MA1118
Silver, MG/L	EPA 200.7	ND	0.1	0.003	5/15/2015	M-MA1118
Zinc, MG/L	EPA 200.7	0.003	5	0.002	5/15/2015	M-MA1118
Alkalinity, MG/L	SM 2320B	56	Not Spec	1	5/13/2015	M-MA1118
Chloride, MG/L	EPA 300.0	74.5	250	1	5/14/2015	M-MA1118
Color Apparent, CU	SM 2120B	ND	15	1	5/13/2015	M-MA1118
Hardness, Total, MG/L	SM 2340B	109	Not Spec	1	5/15/2015	M-MA1118
Nitrate as N, MG/L	EPA 300.0	0.98	10	0.05	5/14/2015	M-MA1118
Nitrite as N, MG/L	EPA 300.0	ND	1	0.02	5/14/2015	M-MA1118
Odor, TON	SM 2150B	ND	3	1	5/13/2015	M-MA1118
pH, PH AT 25C	SM 4500-H-B	6.6	6.5 - 8.5	NA	5/13/2015	M-MA1118
Sulfate, MG/L	EPA 300.0	14.4	250	1	5/14/2015	M-MA1118
Total Dissolved Solids, MG/L	SM 2540C	248	500	1	5/14/2015	M-MA1118
Turbidity, NTU	EPA 180.1	0.3	Not Spec	0.1	5/13/2015	M-MA1118

Sodium 23.5

MCL=Maximum Contaminant Level (EPA Limit), MRL = Minimum Reporting Level
 Sodium Guidelines- Mass 20, EPA 250, # = Result Exceeds Limit or Guideline
 ND = None Detected (<MRL), * = Background Bacteria Noted

Massachusetts Certified
 Laboratory #M-MA1118

David L. Knowlton
 David L. Knowlton
 Laboratory Director

Page 3 of 9

GPwell 8

VOC



Massachusetts Department of Environmental Protection - Drinking Water Program

Volatile Organic Contaminant Report

Page 1 of 2

I. PWS INFORMATION: Please refer to your DEP Water Quality Sampling Schedule (WQSS) to help complete this form.

PWS ID #:

2019000

City / Town:

AYER

PWS Name:

AYER DPW WATER DIVISION

PWS Class:

COM

☒ NTNC☐ TNC☐

DEP LOCATION (LOC) ID#	DEP Location Name	Sample Information		Sample Acidified?	Date Collected	Collected By
RW-08G	RAW WATER: WELL 8	☐ (M)ultiple ☒ (S)ingle	☒ (R)aw ☐ (F)inished	Yes ☒	9/18/2017	R. Linde
Routine or Special Sample	Original, Resubmitted or Confirmation Report	If Resubmitted Report, list below:				
		(1) Reason for Resubmission			(2) Collection Date of Original Sample	
☒ RS ☐ SS	☒ Original ☐ Resubmitted ☐ Confirmation	☐ Resample ☐ Reanalysis ☐ Report Correction				
SAMPLE NOTES - Such as, if a Manifold/Multiple sample, list the source(s) that were on-line during sample collection.						

II. ANALYTICAL LABORATORY INFORMATION

Primary Lab MA Cert #:

M-MA1118

Primary Lab Name:

Nashoba Analytical, LLC

Subcontracted? (Y/N)

Y

Analysis Lab MA Cert #:

M-NH003

Analysis Lab Name:

Granite State Analytical

Lab Method	Date Extracted (551.1 only)	Date Analyzed	Lab Sample ID #	LAB SAMPLE NOTES - Include information as to whether sample was diluted or additional contaminants detected
EPA524.2		9/18/2017	182168-4	
Was this Sample composited by the Lab?	COMPOSITE SAMPLE NOTES - Please list the composited sources by DEP Source Code (XXXXXXX-XXX), up to five individual sources			
Yes: ☐ No: ☒				

CAS #	REGULATED VOC CONTAMINANT	Results µg/L	MCL µg/L	MDL µg/L
71-43-2	BENZENE	ND	5	0.50
56-23-5	CARBON TETRACHLORIDE	ND	5	0.50
75-35-4	1,1-DICHLOROETHYLENE	ND	7	0.50
107-06-02	1,2-DICHLOROETHANE	ND	5	0.50
106-46-7	PARA-DICHLOROBENZENE	ND	5	0.50
79-01-6	TRICHLOROETHYLENE (TCE)	ND	5	0.50
71-55-6	1,1,1-TRICHLOROETHANE	ND	200	0.50
75-01-4	VINYL CHLORIDE	ND	2	0.50
108-90-7	MONOCHLOROBENZENE	ND	100	0.50
95-50-1	O-DICHLOROBENZENE	ND	600	0.50
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	100	0.50
156-59-2	CIS-1,2-DICHLOROETHYLENE	ND	70	0.50
78-87-5	1,2-DICHLOROPROPANE	ND	5	0.50
100-41-4	ETHYLBENZENE	ND	700	0.50
100-42-5	STYRENE	ND	100	0.50
127-18-4	TETRACHLOROETHYLENE (PCE)	ND	5	0.50
108-88-3	TOLUENE	ND	1000	0.50
1330-20-7	XYLENES (TOTAL)	ND	10000	0.50
75-09-2	DICHLOROMETHANE	ND	5	0.50
120-82-1	1,2,4-TRICHLOROBENZENE	ND	70	0.50
79-00-5	1,1,2-TRICHLOROETHANE	ND	5	0.50

Volatile Organic Contaminant Report

PWS ID#: 2019000

Lab Sample ID#: 182168-4

CAS#	UNREGULATED VOC CONTAMINANTS	Results ug/L	MDL µg/L
67-66-3	CHLOROFORM*	ND	0.50
75-27-4	BROMODICHLOROMETHANE	ND	0.50
124-48-1	CHLORODIBROMOMETHANE	ND	0.50
75-25-2	BROMOFORM	ND	0.50
541-73-1	M-DICHLOROBENZENE	ND	0.50
74-95-3	DIBROMOMETHANE	ND	0.50
563-58-6	1,1-DICHLOROPROPENE	ND	0.50
75-34-3	1,1-DICHLOROETHANE*	ND	0.50
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	0.50
142-28-9	1,3-DICHLOROPROPANE	ND	0.50
74-87-3	CHLOROMETHANE	ND	0.50
74-83-9	BROMOMETHANE*	ND	0.50
96-18-4	1,2,3-TRICHLOROPROPANE	ND	0.50
630-20-6	1,1,1,2-TETRACHLOROETHANE	ND	0.50
75-00-3	CHLOROETHANE	ND	0.50
594-20-7	2,2-DICHLOROPROPANE	ND	0.50
95-49-8	O-CHLOROTOLUENE	ND	0.50
106-43-4	P-CHLOROTOLUENE	ND	0.50
108-86-1	BROMOBENZENE	ND	0.50
542-75-6	1,3-DICHLOROPROPENE*	ND	0.50
95-63-6	1,2,4-TRIMETHYLBENZENE	ND	0.50
87-61-6	1,2,3-TRICHLOROBENZENE	ND	0.50
103-65-1	N-PROPYLBENZENE	ND	0.50
104-51-8	N-BUTYLBENZENE	ND	0.50
91-20-3	NAPHTHALENE*	ND	0.50
87-68-3	HEXACHLOROBUTADIENE	ND	0.50
108-67-8	1,3,5-TRIMETHYLBENZENE	ND	0.50
99-87-6	P-ISOPROPYLTOLUENE	ND	0.50
98-82-8	ISOPROPYLBENZENE	ND	0.50
98-06-6	TERT-BUTYLBENZENE	ND	0.50
135-98-8	SEC-BUTYLBENZENE	ND	0.50
75-69-4	FLUOROTRICHLOROMETHANE	ND	0.50
75-71-8	DICHLORODIFLUOROMETHANE*	ND	0.50
74-97-5	BROMOCHLOROMETHANE	ND	0.50
1634-04-4	METHYL TERTIARY BUTYL ETHER (MTBE)*	ND	0.50

[illegible]

☐ Check this box if attaching lab report to show additional VOC results/contaminants tested.

[#] Required

* DEP ORSG limit established

Surrogate Name	% Recovery (70 - 130%)
1,2-Dichlorobenzene-d4	89
Bromoflourobenzene	85

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

Date: 10-3-17

If not submitting these results electronically, mail TWO copies of this report to your DEP Regional Office no later than 10 days after the end of the month in which you received this report or no later than 10 days after the end of the reporting period, whichever is sooner.

DEP REVIEW STATUS (Initial & Date) ☐ Accepted _____ ☐ Disapproved _____	Review Comments	☐ WQTS Data Entered
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Table 3. Exposure point concentrations for Grove Pond surface water and near shore sediments (reproduced from Table 302, Gannett Fleming 2006).

Chemical of Potential Concern	Grove Pond Surface Water Exposure Point Concentration		Grove Pond Near-shore Sediment Exposure Point Concentration	
	Value	Units	Value	Units
Aluminum	0	mg/L	20300	mg/kg
Antimony	0	mg/L	11.9	mg/kg
Arsenic	0.0767	mg/L	158	mg/kg
Barium	6.99	mg/L	0	mg/kg
Benz(a)anthracene	0	mg/L	0.684	mg/kg
Benzo(a)pyrene	0	mg/L	0.729	mg/kg
Benzo(b)fluoranthene	0	mg/L	0.85	mg/kg
Benzo(k)fluoranthene	0	mg/L	0.839	mg/kg
Bis(2-ethylhexyl) phthalate	0.035	mg/L	0	mg/kg
Cadmium	0	mg/L	48.6	mg/kg
Chromium,	0.074	mg/L	144	mg/kg
Chrysene	0	mg/L	1.1	mg/kg
Copper	0	mg/L	795	mg/kg
DDD, p,p'-	0	mg/L	0.381	mg/kg
Dibenz(ah)anthracene	0	mg/L	0.263	mg/kg
Indeno(1,2,3-cd)pyrene	0	mg/L	0.641	mg/kg
Iron	0	mg/L	19100	mg/kg
Lead	0.00275	mg/L	227	mg/kg
Manganese	112	mg/L	721	mg/kg
Mercury	0	mg/L	94.4	mg/kg
Naphthalene	0	mg/L	3.84	mg/kg
Selenium	0	mg/L	9.76	mg/kg
Thallium	0	mg/L	26.4	mg/kg
total Iron	69.2	mg/L	0	mg/kg
Vanadium	0	mg/L	42.7	mg/kg
Zinc	7.19	mg/L	0	mg/kg

Table 1.2 Water Quality Sampling Results (continued)

POND (Sampling Date)	SAMPLE LOCATION	SAMPLE ID	Depth (ft)	Temp. (°C)	pH	Dissolved Oxygen (mg/L)	Dissolved Oxygen (%)	Conductivity (µS/cm)	Conductivity (µS/cm ³)	Secchi Disk (ft)	Total Phosphorus R=10 µg/L (µg/L)	Ammonia- Nitrogen RL = 0.075 mg/L (mg/L)	Chlorophyll-a (µg/L)
Grove Pond (08/26/2015)	Tributary	GP-T	0.5	19.4	7.0	3.6	39.9	395	446	5 (bottom)	21	ND	
	Deep	GP-D	5.0	19.9	6.6	0.5	5.5	329	364		34	ND	
	Middle	GP-M	2.5	20.1	6.6	2.1	19.9	329	363		18	ND	
	Surface	GP-S	0.5	22.4	6.9	7.3	84.1	341	360		ND	ND	4.82
Balch Pond (08/26/2015)	Tributary	BP-T	0.5	23.5	7.0	4.2	49.4	220	227	6 (bottom)	24	ND	
	Deep	BP-D	6.0	22.4	6.5	3.7	42.7	228	239		39	ND	
	Middle	BP-M	3.0	22.9	6.6	4.9	56.5	211	220		27	ND	
	Surface	BP-S	0.5	23.9	6.6	5.5	65.1	216	222		18	ND	9.98
Lower Long Pond (08/26/2015)	Tributary	LLP-T	0.5	22.9	6.0	2.9	33.3	114	119	8	ND	ND	
	Deep	LLP-D	22.0	7.5	6.0	1.1	9.1	264	396		18	ND	
	Middle	LLP-M	12.0	20.2	5.9	0.8	9.4	109	120		14	ND	
	Surface	LLP-S	0.5	25.0	6.3	6.1	73.5	119	119		ND	ND	ND
			20.0	9.0	6.1	0.5	4.5	171	247				
			18.5	8.4	6.1	0.5	4.6	241	357				
			17.0	9.2	6.1	0.5	4.6	176	249				
			15.5	11.6	6.0	0.5	4.9	122	164				
			14.0	13.3	5.9	0.6	5.2	114	147				
			12.5	17.1	5.8	0.5	5.5	109	129				
			11.0	19.2	5.9	0.5	5.9	108	121				
			9.5	21.0	5.9	2.3	25.0	110	119				
			8.0	21.5	6.0	3.6	35.6	110	118				
			6.5	22.3	6.1	6.5	74.4	112	118				
			5.0	24.2	6.2	6.4	76.4	118	119				
			3.5	24.8	6.3	6.6	79.7	120	120				
			2.0	25.0	6.3	6.7	78.9	120	120				
			0.5	25.2	6.3	6.8	83.5	120	120				

Table 3. General Source Water and Finished Water Quality

Parameter	Well 6			Well 7			Well 8			Finished Water		
	Minimum	Average	Maximum	Minimum	Average	Maximum	Minimum	Average	Maximum	Minimum	Average	Maximum
PFOA + PFOs, ppt	6	7	9	12	20	30	87	98	114	35	48	59
Six UCMR 3 PFAS, ppt	10	16	19	21	39	59	145	168	198	60	83	98
24 PFAS Compounds, ppt		29			119			364			N/A	

Parameter	Well 6			Well 7			Well 8			Finished Water		
	Minimum	Average	Maximum	Minimum	Average	Maximum	Minimum	Average	Maximum	Minimum	Average	Maximum
pH	6.4	6.6	6.7	6.4	6.6	6.7	6.5	6.65	6.8		N/A	
Alkalinity, mg/L as CaCO ₃	73	76	78	70	72	73	55	62	69	70	85	95
Hardness, mg/L	103	113	122	97	104	110	125	135	144	106	114	125
Calcium, mg/L	35	38	41	33	35	37	42	45	49	36	38	42
Magnesium, mg/L	4.1	4.5	4.8	3.7	4	4.3	4.8	5.2	5.6	4.1	4.4	4.9
Turbidity, NTU	4.1	6.8	9.5	2.8	12	21		ND		ND	0.11	0.23
Chlorides, mg/L	126	128	130	99	103	107	93	96	98	113	117	122
Color (apparent color units)	18	29	40	80	90	100	ND	0	0	ND	0	0
Iron (total), mg/L	6.4	7.3	8.2	3.00	3.66	4.92	0.01	<0.01	ND	ND	0.011	0.035
Manganese (total), mg/L	1.4	1.9	2.2	2.0	2.2	2.6	0.4	0.5	0.6	ND	0.007	0.015
Total Dissolved Solids, mg/L	302	321	340	248	265	282	284	299	314	290	318	348
Arsenic, mg/L	0.04	0.05	0.07	0.05	0.07	0.08	0.009	0.012	0.013	ND	0.0005	0.002
Barium, mg/L		0.044			0.024			0.021			N/A	
Copper, mg/L	0.004	0.02	0.036	0.017	0.051	0.085	0.011	0.033	0.054	0.018	0.043	0.086
Nitrate, mg/L	ND	<0.06	0.06	0.2	0.22	0.24	0.76	0.84	0.91	0	0.3	0
Nickel, mg/L		0.004			0.002			0.003			N/A	
Potassium, mg/L	3.9	4.35	4.8	3.0	3.4	3.8	3.5	3.9	4.3	13	23	31
Silver, mg/L		N/A			N/A			N/A		ND	0.001	0.006
Sodium, mg/L		62.2			48.8			36.2		7.7	9.3	12
Sulfate, mg/L	5.7	5.8	5.9	5.2	6.0	6.8	13	14	15		N/A	
Zinc, mg/L	0.005	0.08	0.15	0.012	0.096	0.18	0.005	0.07	0.14	0.003	0.008	0.011

Note: In the raw water samples, the following parameters were reported as non-detect: aluminum, antimony, beryllium, cadmium, cyanide, fluoride, mercury, odor, perchlorate, selenium, silver, thallium, and all volatile organic compounds (VOC).
In finished water samples, aluminum and color were reported as non-detect.

GPWdl 8