UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 1
5 Post Office Square, Suite 100
Boston, MA 02109-3912

VIA EMAIL

May 18, 2021

Mr. Thomas Cusick
Newburyport Water Works
City Hall
60 Pleasant Street
Newburyport, MA 01950

Re: Updated Effluent Limitation and Monitoring Requirements for NPDES Potable Water Treatment Facilities General Permit (PWTFGP) – Authorization No. MAG640018 for the Newburyport Water Treatment Plant in Newburyport, MA

Dear Superintendent Cusick:

Enclosed please find updated Effluent Limitation and Monitoring Requirements for the Newburyport Water Treatment Plant -Authorization number MAG6400018. The updates include corrections for Whole Effluent Toxicity (WET) testing, pH limits, Total Residual Chlorine (TRC) limits and elimination of monitoring requirements for aluminum and phosphorus. These changes are consistent with requirements for discharges to marine waters and are necessary corrections because the discharge from the Newburyport Water Treatment Plant is to marine waters and the previous requirements were based on freshwater standards. Thank you for informing us of this error. The updated Effluent Limitation and Monitoring Requirements included in this letter supersede the Effluent Limitation and Monitoring Requirements included in your authorization letter dated November 3, 2020. The revised requirements are summarized below in Tables 2 and 3. Please be aware that sufficiently sensitive test methods must be used for any sample analysis conducted in accordance with this permit. See Part 2.1.2 of the PWTFGP.

Please note that permittees must comply with all the applicable requirements of this General Permit such as discharge limits and monitoring requirements, state permit conditions, administrative provisions, and other additional requirements including a Best Management Practices (BMP) plan. The complete PWTFGP and other related information can be found at https://www.epa.gov/npdes-permits/potable-water-treatment-facility-general-permit-pwtf-gp-massachusetts-new-hampshire.

If you have additional questions, please contact Mark Voorhees at (617) 918-1537.

Sincerely,

TODD BORCI Digitally signed by TODD BORCI Date: 2021.05.18 10:04:44 -04'00'

Todd Borci, Acting Manager
Stormwater and Construction Permits Section
Water Division

cc: Xiaodon Ruan, MassDEP (via email: xiaodan.ruan@state.ma.us)

Summary Information: NPDES General Permit for Potable Water Treatment Facilities No. MAG640018 Newburyport Water Treatment Plant in Newburyport, MA

Table 1: Authorization Information

Permit Number	MAG640018
Receiving Water	Merrimack River (Class SB)
Outfall Number	001
Monitoring Requirements	See Table 2 below and Part 2 of the PWTFGP
Reporting Requirement	See Part 5 of the PWTFGP

Table 2: **Summary of Effluent Limitation and Monitoring Requirements for MAG640018**

Effluent Characteristics		**Discharge Limitations**		**Monitoring Requirements**	
Parameter	**Units**	**Avg. Monthly**	**Max Daily**	**Monitoring Frequency**	**Sample Type**
Flow	MGD	Report	1.0	1/Day	Meter or Estimate
TSS	mg/l	30	50	1/Week	Composite
pH (Class A and B)	S.U.	Not Applicable (N/A)		N/A	N/A
pH (Class SA and SB)	S.U.	6.5-8.3 range		1/Week	Grab
Total Residual Chlorine	µg/l	39,229	67,997	1/Week	Grab
Aluminum, Total Recoverable*	µg/l	N/A	N/A	N/A	N/A
Arsenic, Total Recoverable	µg/l	N/A	N/A	N/A	N/A
Iron, Total Recoverable	µg/l	N/A	N/A	N/A	N/A
Total Phosphorus, as P (April 1-Oct.31)	µg/l	N/A	N/A	N/A	N/A

*Not Applicable (N/A) for this discharge.

Table 3. Summary of Whole Effluent Toxicity Test Monitoring Requirements

Whole Effluent Toxicity (WET) Testing				
Parameter	**Units**	**Limitation**	**Monitoring Frequency**	**Sample Type**
LC_{50} (Acute WET Testing)	%	Report %	1/Year	Composite
C-NOEC (Chronic WET Testing)	%	Report %	1/Year	Composite
Salinity	g/kg	Report	1/Year	Composite
Total Residual Chlorine	mg/l	Report	1/Year	Grab
pH[1]	S.U.	Report	1/Year	Grab
Temperature[1]	°C	Report	1/Year	Grab
Total Solids	mg/l	Report	1/Year	Composite
Total Suspended Solids	mg/l	Report	1/Year	Composite
Ammonia Nitrogen as N	mg/l	Report	1/Year	Composite
Total Organic Carbon	mg/l	Report	1/Year	Composite
Total Recoverable Cadmium	mg/l	Report	1/Year	Composite
Total Recoverable Copper	mg/l	Report	1/Year	Composite
Total Recoverable Lead	mg/l	Report	1/Year	Composite
Total Recoverable Nickel	mg/l	Report	1/Year	Composite
Total Recoverable Zinc	mg/l	Report	1/Year	Composite
Ambient Whole Effluent Toxicity (Diluent[2]/Receiving Water)				
Salinity	g/kg	Report	1/Year	Grab
pH[3]	S.U.	Report	1/Year	Grab
Temperature[3]	°C	Report	1/Year	Grab

Ammonia Nitrogen as N	mg/l	Report	1/Year	Grab
Total Organic Carbon	mg/l	Report	1/Year	Grab
Total Recoverable Cadmium	mg/l	Report	1/Year	Grab
Total Recoverable Copper	mg/l	Report	1/Year	Grab
Total Recoverable Lead	mg/l	Report	1/Year	Grab
Total Recoverable Nickel	mg/l	Report	1/Year	Grab
Total Recoverable Zinc	mg/l	Report	1/Year	Grab

[1] A pH and temperature measurement shall be taken of each receiving water sample at the time of collection and the results reported on the appropriate DMR. These pH and temperature measurements are independent from any pH and temperature measurements required by the WET testing protocols.

[2] The diluent shall be collected from the receiving water at a location beyond the influence of the effluent discharge.

[3] A pH and temperature measurement shall be taken of each receiving water sample at the time of collection and the results reported on the appropriate DMR. These pH and temperature measurements are independent from any pH and temperature measurements required by the WET testing protocols.