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

VIA EMAIL

December 21, 2017

Michael Zylich
Eversource Energy
247 Station Drive, SE270
Westwood, MA 02090
michael.zylich@eversource.com

Re: Authorization to discharge under the Remediation General Permit (RGP) – Authorization #MAG910761, for the Eversource Electrical Transmission Line Project site located in Medford and Somerville, MA

Dear Mr. Zylich:

Based on the review of a Notice of Intent (NOI) dated November 29, 2017 submitted by Tighe & Bond, Inc. for the site referenced above, the U.S. Environmental Protection Agency, Region 1 (EPA) hereby authorizes NSTAR Electric Company d/b/a Eversource Energy, as the named owner, and as a named operator and co-permittee with Bond Brothers, to discharge in accordance with the provisions of the RGP from this site via the City of Medford, City of Somerville and/or the Massachusetts Department of Transportation (MassDOT) storm sewer systems[1] to Mystic River (MA71-02). The authorization number is listed above. The effective date of coverage is the date of this authorization letter.

Enclosed with this RGP authorization to discharge is a summary of the applicable parameters and effluent limitations for your activity category III, contaminated site dewatering discharge. A dilution factor of 5.29, approved by the Massachusetts Department of Environmental Protection, was used in calculating effluent limits applicable to the proposed discharge from this site. Please note that this summary does not represent the complete requirements of the RGP. Operators must comply with all of the applicable requirements of the RGP, including influent and effluent monitoring, record keeping, and reporting requirements. For the complete general permit, see EPA's RGP website.[2] EPA notes that this site is authorized to use eight discharge locations associated with the City of Medford, City of Somerville and MassDOT storm sewer systems. To meet the requirements of the RGP, the effluent monitoring locations must be consistent with the discharge points from the stationary treatment system (Outfall 001) and the mobile treatment system (Outfall 002), prior to co-mingling with any other waste streams.

[1] The operator is responsible for obtaining permission to discharge to these systems, prior to initiating discharges. EPA's authorization to discharge does not convey any such permission.
[2] https://www.epa.gov/npdes-permits/remediation-general-permit-rgp-massachusetts-new-hampshire.

In accordance with Part 2.2.1 of the RGP and using the calculation methodology included in Appendix V, EPA corrected the calculated water quality-based effluent limitations (WQBELs) applicable to the proposed discharge. The cause of the calculation error was identified as the incorrect entry of the downstream flow and dilution factor in the fillable electronic format submitted with the NOI. This value was corrected according to the instructions in the fillable electronic format. The reason for these corrections is to determine the WQBELs that apply to the proposed discharge. Based on the revised calculations, your authorization to discharge includes revised WQBELs of 4,111 µg/L for total recoverable iron, 56.7 µg/L for total recoverable lead, and 0.0201 µg/L for benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene. In addition, your authorization to discharge includes the following additional conditions:

1) Technology-based effluent limitations (TBELs) for benzene, 1,2 dichlorobenzene, methylene chloride, and tetrachloroethylene for Outfall 001 only. These additional TBELs are being required in accordance with Part 2.2.4 and Part 2.3.3.c of the RGP because you disclosed that these contaminants are present at the sites authorized under authorizations #MAG910758, #MAG910759 and/or #MAG910760, which will be discharged via Outfall 001 when influent is transferred from these sites to the stationary treatment system at this site.
2) WQBELs for diethylhexyl phthalate, benzo(k)fluoranthene, and dibenzo(a,h)anthracene for Outfall 001 only. These additional WQBELs are being required in accordance with Part 2.2.1 of the RGP based on the calculation methodology included in Appendix V because WQBELs apply when the influent concentrations of these parameters present at the sites authorized under authorization #MAG910758, #MAG910759 and/or #MAG910760 are discharged via Outfall 001 when influent is transferred from that site to the stationary treatment system at this site.
3) A TBEL for diethylhexyl phthalate for Outfall 002 only. This TBEL is being required in accordance with Part 2.1.1 of the RGP because this contaminant is present at this site.

This letter provides these additional conditions in writing. Monitoring for these parameters shall be conducted in conjunction with the monitoring required for the other parameters applicable in Part 2.1.1 of the RGP.

This EPA general permit and authorization to discharge will expire on **April 8, 2022**, or upon Notice of Termination (NOT), whichever occurs first. However, in accordance with Part 5.3 of the general permit, your permit coverage will be administratively continued until issuance of a new RGP. Please note that you must submit a NOT within thirty (30) days of the termination of the discharge. You have reported your discharges are expected to terminate December 2019. Because your discharge is expected to last twelve (12) months or more, you are subject to discharge monitoring requirements that begin **January 1, 2019**. See Part 4.6 and 5.2 of the RGP, and Appendix IV, Part 3 for more information regarding reporting requirements.

Please ensure that sufficiently sensitive test methods are used for all sample analyses conducted for this permit. To be considered sufficiently sensitive, test methods must achieve MLs for analysis for a given parameter that is no greater than the effluent limitation for that parameter, unless otherwise specified in the RGP for that parameter. Where no effluent limitation applies, EPA has provided the ML required with the enclosed summary. Where a compliance level applies, EPA has specified the compliance level and provided the ML required with the enclosed summary.

Thank you in advance for your cooperation in this matter. Please contact Shauna Little at (617) 918-1989 or little.shauna@epa.gov, if you have any questions.

Sincerely,

Thelma Murphy, Chief
Storm Water and Construction Permits Section

Enclosure

cc: Rick McKanas, Bond Brothers, via email
Gary W.T. Hedman, LSP, Tighe & Bond, Inc., via email
Michael E. Martin, Tighe & Bond, Inc., via email
Cathy Vakalopoulos, MassDEP, via email
City of Medford, Department of Public Works, via email
City of Somerville, Department of Public Works, via email
Massachusetts Department of Transportation

Table 1: Authorization Information

Permit Number	MAG910761
Receiving Water	Mystic River
Outfall Number	Outfalls 001 and 002 to City of Medford, City of Somerville and/or MassDOT
Monitoring Frequency	See Part 4.1.2 of the RGP
Reporting Requirement	See Part 4.6.1 of the RGP; NetDMR requirements begin Jan 1, 2019

Table 2: Chemical-Specific Effluent Limitations and Monitor-Only Requirements[1]

Parameter	Effluent Limitation
A. Inorganics	
Ammonia[2]	Report mg/L
Chloride[3]	Report µg/L
Total Suspended Solids	30 mg/L
Antimony[4]	206 µg/L
Arsenic[4]	104 µg/L
Cadmium[4]	10.2 µg/L
Chromium III[4]	323 µg/L
Chromium VI[4]	323 µg/L
Copper[4]	242 µg/L
Iron[4]	4,111 µg/L
Lead[4]	56.7 µg/L
Mercury[4]	0.739 µg/L
Nickel[4]	1,450 µg/L
Selenium[4]	235.8 µg/L
Silver[4]	35.1 µg/L
Zinc[4]	420 µg/L
B. Non-Halogenated Volatile Organic Compounds	
Total BTEX	100 µg/L
Benzene – Outfall 001 Only	5.0 µg/L
1,4 Dioxane	200 µg/L
Acetone	7.97 mg/L
C. Halogenated Volatile Organic Compounds	
1,2 Dichlorobenzene – Outfall 001 Only	600 µg/L
Methylene Chloride – Outfall 001 Only	4.6 µg/L
Tetrachloroethylene – Outfall 001 Only	5.0 µg/L
D. Non-Halogenated Semi-Volatile Organic Compounds	
Total Phthalates	190 µg/L
Diethylhexyl Phthalate – Outfall 001 Only	11.6 µg/L
Diethylhexyl Phthalate – Outfall 002 Only	101 µg/L
Total Group I Polycyclic Aromatic Hydrocarbons[5]	1.0 µg/L
Benzo(a)anthracene[5]	0.0201 µg/L
Benzo(a)pyrene[5]	0.0201 µg/L
Benzo(b)fluoranthene[5]	0.0201 µg/L

Benzo(k)fluoranthene[5] – Outfall 001 Only	0.0201 µg/L
Benzo(k)fluoranthene[5] – Outfall 002 Only	Report µg/L
Chrysene[5]	0.0201 µg/L
Dibenzo(a,h)anthracene[5] – Outfall 001 Only	0.0201 µg/L
Dibenzo(a,h)anthracene[5] – Outfall 001 Only	Report µg/L
Indeno(1,2,3-cd)pyrene[5]	0.0201 µg/L
Total Group II Polycyclic Aromatic Hydrocarbons	100 µg/L
F. Fuels Parameters	
Methyl-tert-Butyl Ether	70 µg/L
tert-Butyl Alcohol	120 µg/L

Table 2 Notes:

[1] The following abbreviations are used in Table 2, above:
- [a] mg/L = milligrams per liter
- [b] µg/L = micrograms per liter

[2] The minimum level (ML) for analysis of ammonia must be less than or equal to 0.1 mg/L.

[3] The ML for analysis of chloride must be less than or equal to 230 mg/L.

[4] The limitation for this parameter is on the basis of total recoverable metal in the water column.

[5] The compliance level for group I polycyclic aromatic hydrocarbons (PAHs) is 0.1 µg/L. The ML for analysis of group I PAHs must be less than or equal to 0.1 µg/L.

Table 3: Effluent Flow Limitation

Effluent Flow	**Effluent Limitation**
	0.504 MGD

Table 3 Notes

[1] The following abbreviations are used in Table 3, above:
- [a] MGD = million gallons per day

Table 4: pH Limitations for Discharges in Massachusetts

Receiving Water Class	**Effluent Limitation**
Freshwater	6.5 to 8.3 SU

Table 4 Notes

[1] The following abbreviations are used in Table 4, above:
- [a] SU = standard units