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

VIA EMAIL

January 30, 2019

Robert Luhrs
Raytheon Company
50 Apple Hill Drive
Tewksbury, MA 01876
Robert_C_Luhrs@raytheon.com

Re: Notice of Change under the Remediation General Permit (RGP) – Authorization #MAG910731, for the Raytheon/BBN site located in Cambridge, MA

Dear Mr. Luhrs:

Based on the review of a Notice of Change (NOC) received January 29, 2019 for the site referenced above, the U.S. Environmental Protection Agency, Region 1 (EPA) hereby provides written approval for the following change:

1. Request for change in site-specific effluent flow limitation. The effluent flow limitation is increased from 0.0288 million gallons per day (MGD) to 0.144 MGD. As a result of this increase, the authorization to discharge for this site has been revised to include revised water quality-based effluent limitations (WQBELs) for total residual chlorine, total recoverable lead, and total recoverable copper.

The effective date of these changes is the date of this letter, unless otherwise stated. Enclosed with this letter is a revised summary of the applicable parameters and effluent limitations for your activity category VII, collection structure dewatering discharge. The WQBELs that apply to the discharge were calculated in accordance with Part 2.2.1 of the RGP and using the calculation methodology included in Appendix V. A revised dilution factor of 2.4 was used in calculating the WQBELs. Please note that the remaining requirements of the authorization to discharge issued on October 5, 2017 remain unchanged. For the complete general permit, see EPA's RGP website.

EPA also acknowledges notification of the following changes:

1. Change in activity area. You have indicated the new activity area consists of dewatering/remediation associated with a stormwater diversion project intended to redirect stormwater away from the area(s) of impacted groundwater.

2. Change to a treatment system or process that adds or removes any major component. You have reported the addition of a duplex bag filter and/or two carbon vessels, which will be used on an as-needed basis.

These changes do not require written approval to be effective and, as such, are effective immediately upon notification to EPA.

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
Office of Ecosystem Protection

Enclosure

cc: Robert Moore, Raytheon Company, via email
Jarrod P. Yoder, PG, LSP, Woodard & Curran, Inc., via email
Amy Martin, Woodard & Curran, Inc., via email
Cathy Vakalopoulos, MassDEP, via email
James Wilcox, City of Cambridge Department of Public Works, via email

GENERAL PERMIT FOR REMEDIATION ACTIVITY DISCHARGES

Table 1: Authorization Information

Permit Number	MAG910731
Receiving Water	Alewife Brook
Outfall Number	Outfall 001 to City of Cambridge
Monitoring Frequency	See Part 4.1 and 4.3 of the RGP
Reporting Requirement	See Part 4.6.1 of the RGP; NetDMR requirements began Nov 1, 2018

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 Residual Chlorine[4]	26 µg/L
Total Suspended Solids	30 mg/L
Arsenic[5]	104 µg/L
Copper[5]	34.3 µg/L
Iron[5]	1,000 µg/L
Lead[5]	12.36 µg/L
Zinc[5]	420 µg/L
Cyanide[6]	Report µg/L
B. Non-Halogenated Volatile Organic Compounds	
Acetone	7.97 mg/L
C. Halogenated Volatile Organic Compounds	
Trichloroethylene	5.0 µg/L
Tetrachloroethylene	5.0 µg/L
cis-1,2-Dichloroethylene	70 µg/L
Vinyl Chloride	2.0 µg/L
D. Non-Halogenated Semi-Volatile Organic Compounds	
Total Group II Polycyclic Aromatic Hydrocarbons	100 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 ML for analysis of total residual chlorine (TRC) must be less than or equal to 50 µg/L. The compliance level for TRC is 50 µg/L.

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

[6] The ML for analysis of total cyanide must be less than or equal to 5.0 µg/L.

Table 3: Effluent Flow Limitation

Effluent Flow	Effluent Limitation
	0.144 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