PUBLIC NOTICE

Notice is hereby given that the Massachusetts Department of Environmental Protection (MassDEP), under authority granted by the Massachusetts Clean Waters Act, M.G.L. c. 21, §§ 26 – 53, is proposing to: (1) issue a federal Clean Water Act (CWA) section 401 certification for the U.S. Environmental Protection Agency's (EPA) proposed 2020 Draft NPDES Permit (Federal Permit) (MA Permit No. MA0044996) to Hollingsworth and Vose Company for their East Walpole facility's pollutant discharges to the Neponset River (MA73-01); and (2) issue the 2020 Draft Massachusetts Permit to Discharge Pollutants to Surface Waters (State Permit) for the same discharge pursuant to the Massachusetts Clean Waters Act. Hollingsworth and Vose Company is located at 112 Washington Street, East Walpole, Massachusetts. The proposed section 401 certification, proposed State Permit, and proposed Federal Permit are all available at https://www.mass.gov/service-details/massdep-public-hearings-comment- opportunities. Alternatively a copy of the documents can be obtained by contacting Xiaodan Ruan, MassDEP Surface Water Discharge Program, at 617-654-6517 or xiaodan.ruan@mass.gov. Written comments on both the proposed section 401 certification and the proposed State Permit will be accepted until 5:00 p.m. on December 7, 2020. During the state of emergency, MassDEP strongly encourages written comments to be submitted by email to massdep.npdes@mass.gov; subject line: Hollingsworth and Vose Company. If not possible, please send by mail to Xiaodan Ruan, MassDEP Surface Water Discharge Program, Bureau of Water Resources, 1 Winter Street – 5th Floor, Boston 02108.

Following the close of the comment period, MassDEP will issue a final CWA section 401 certification and final State Permit and forward copies to the applicant and each person who has submitted written comments or requested notice.

For special accommodations, please call the MassDEP Diversity Office at 617-292-5751. TTY# MassRelay Service 1-800-439-2370. This information is available in alternate format upon request.

By Order of the Department

Martin Suuberg Commissioner

MASSACHUSETTS PERMIT TO DISCHARGE POLLUTANTS TO SURFACE WATERS

In compliance with the provisions of the Massachusetts Clean Waters Act, as amended (M.G.L. Chap. 21, §§ 26 - 53) and the implementing regulations at 314 CMR 3.00 and 4.00,

Hollingsworth & Vose Company

is authorized to discharge from the facility located at

Hollingsworth & Vose Company 112 Washington Street East Walpole, MA 02032

to receiving water named

Neponset River (MA73-01) Boston Harbor Watershed

in accordance with the following effluent limitations, monitoring requirements and additional conditions:

- 1. This permit shall become effective on [DATE].1
- 2. This permit shall expire five years after the effective date.
- 3. This permit incorporates by reference Part IA., Effluent Limitations and Monitoring Requirements, Part IB., Unauthorized Discharges, Part IC., Special Conditions, Part ID. Reporting Requirements, and Part IIE., Standard Conditions, as set forth in the 2020 draft NPDES Permit No. MA0044996, issued by the United States Environmental Protection Agency (EPA), Region 1, issued to Hollingsworth & Vose Company on November 6, 2020 (the 2020 Draft NPDES Permit) and attached hereto as Appendix A; provided, however:
 - a. that the notification required by Part IA.8. shall also be provided to MassDEP;
 - b. that the reporting required by Part IB.1 shall be in accordance with 314 CMR 3.19(20)(e) (24 hour reporting);
 - c. that discharges of a new chemical or additive authorized under Part IC.1. are only authorized under this permit 30 days following written notification to MassDEP, unless otherwise notified in writing by MassDEP;
 - d. that a copy of the requests, reports, and information required by Part ID.3. to be submitted to EPA shall also be submitted to MassDEP electronically to mass.gov;
 - e. that, if there is a conflict between the definitions in 314 CMR 3.02 and/or 314 CMR 4.00 and the definitions in Part IIE, the definitions in 314 CMR 3.02 and/or 314 CMR 4.00 shall control, as applicable;
 - f. that the notifications required by 3.a. and 3.c. above shall be provided as follows:

Susannah King, NPDES Section Chief Division of Watershed Management Department of Environmental Protection

¹ If no comments objecting to the issuance or terms of the permit were received by the Department during the public comment period, then this permit shall be effective upon issuance. If comments objecting to the issuance or the terms of the permit are received by the Department during the public comment period, then this permit shall become effective 30 days after issuance.

1 Winter Street – 5th Floor Boston, MA 02108

- 4. This permit incorporates by reference the Standard Permit Conditions set forth in 314 CMR 3.19.
- 5. This permit includes the following additional conditions:
 - a. Within six (6) months of the effective date of the permit, the permittee shall submit to MassDEP an evaluation of whether the facility uses any products containing any per- and polyfluoroalkyl substances (PFAS) and whether use of those products can be reduced or eliminated. The analysis shall be submitted electronically to mass.gov.
 - b. Within six (6) months after EPA's multi-lab validated method for wastewater is made available to the public on EPA's Clean Water Act methods program website², or two (2) years from the effective date of the NPDES permit, whichever is earlier, the permittee shall conduct monitoring of the effluent for PFAS compounds as detailed in the table below. If EPA has not issued a validated test method by twenty (20) months after the effective date of the NPDES permit, the permittee shall contact MassDEP (massdep.npdes@mass.gov) for guidance on an appropriate analytical method. Notwithstanding any other provision of the 2020 Federal NPDES permit to the contrary, monitoring results shall be reported to MassDEP electronically (massdep.npdes@mass.gov) within 30 days after they are received. Those results do not need to be reported to EPA through NetDMR unless EPA establishes a requirement through a future permitting action.

Effluent (Outfall 002)

Parameter	Units	Measurement Frequency	Sample Type
Perfluorohexanesulfonic acid (PFHxS)	ng/L	Quarterly ³	24-hour Composite
Perfluoroheptanoic acid (PFHpA)	ng/L	Quarterly	24-hour Composite
Perfluorononanoic acid (PFNA)	ng/L	Quarterly	24-hour Composite
Perfluorooctanesulfonic acid (PFOS)	ng/L	Quarterly	24-hour Composite
Perfluorooctanoic acid (PFOA)	ng/L	Quarterly	24-hour Composite
Perfluorodecanoic acid (PFDA)	ng/L	Quarterly	24-hour Composite

c. After completing one year of monitoring, if four (4) consecutive samples are reported as non-detect for all six PFAS compounds, then the permittee may submit a request to discontinue PFAS monitoring. Any such request shall be made in writing and sent to: massdep.npdes@mass.gov. The permittee shall continue such monitoring pending written approval from MassDEP to discontinue it.

Signed	this		day (ot		20	
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Lealdon Langley, Director Division of Watershed Management Department of Environmental Protection

² See https://www.epa.gov/cwa-methods/other-clean-water-act-test-methods-chemical and https://www.epa.gov/cwa-methods.

³ Quarters are defined as January to March, April to June, July to September, and October to December. Samples shall be taken during the same month each quarter and shall be taken 3 months apart (e.g., an example sampling schedule could be February, May, August, and November).

MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION

FACT SHEET SUPPLEMENT

MASSACHUSETTS PERMIT TO DISCHARGE POLLUTANTS TO SURFACE WATERS

MA PERMIT NUMBER: MA0044996

NAME AND MAILING ADDRESS OF APPLICANT:

Hollingsworth & Vose Company 112 Washington Street East Walpole, MA 02032

NAME AND ADDRESS OF FACILITY WHERE DISCHARGE OCCURS:

Hollingsworth & Vose Company 112 Washington Street East Walpole, MA 02032

RECEIVING WATER AND CLASSIFICATION:

Neponset River (MA73-01) Boston Harbor Watershed Class B

SIC CODE:

2621 (Paper Mills)

PER – AND POLYFLUROALKYL SUBSTANCES

MassDEP is implementing a number of actions to address the potential health effects of exposure to per- and polyfluoroalkyl substances (PFAS).¹ According to the United States Environmental Protection Agency (EPA),² PFAS are a group of man-made chemicals that includes perfluorooctanoic acid (PFOA), perfluorooctane sulfonic acid (PFOS), GenX, and many other chemicals. PFAS have been manufactured and used in a variety of industries around the globe, including in the United States since the 1940s. PFOA and PFOS have been the most extensively produced and studied of these chemicals. Both chemicals are very persistent in the environment and in the human body – meaning they do not break down and they can accumulate over time. There is evidence that exposure to PFAS can lead to adverse human health effects.

PFAS can be found in:

• **Food** packaged in PFAS-containing materials, processed with equipment that used PFAS, or grown in PFAS-contaminated soil or water.

¹ To learn more about Per- and polyfluoroalkyl substances (PFAS) in the environment and what Massachusetts is doing to address them, go to: https://www.mass.gov/info-details/per-and-polyfluoroalkyl-substances-pfas.

² For basic information on PFAS provided by EPA, go to: https://www.epa.gov/pfas/basic-information-pfas

- Commercial household products, including stain- and water-repellent fabrics, nonstick products, polishes, waxes, paints, cleaning products, and fire-fighting foams (a major source of groundwater contamination at airports and military bases where firefighting training occurs).
- **Workplace**, including production facilities or industries (e.g., chrome plating, electronics manufacturing or oil recovery) that use PFAS.
- **Drinking water**, typically localized and associated with a specific facility (e.g., manufacturer, landfill, wastewater treatment plant, firefighter training facility).
- **Living organisms**, including fish, animals and humans, where PFAS have the ability to build up and persist over time.

Certain PFAS chemicals are no longer manufactured in the United States as a result of phaseouts including the PFOA Stewardship Program, in which eight major chemical manufacturers agreed to eliminate the use of PFOA and PFOA-related chemicals in their products and as emissions from their facilities. Although PFOA and PFOS are no longer manufactured in the United States, they are still produced internationally and can be imported into the United States in consumer goods such as carpet, leather and apparel, textiles, paper and packaging, coatings, rubber and plastics.

Scientific information and regulatory actions on PFAS are rapidly evolving. Currently, there are no enforceable federal standards for these substances in public drinking water. However, in May 2016, EPA issued a lifetime drinking water Health Advisory (HA) of 70 nanograms per liter (70 ng/L, which equals 70 parts per trillion or ppt) for any combination of PFOA and PFOS. In June 2018, MassDEP extended this advisory to include three additional related PFAS chemicals - perfluorononanoic acid (PFNA), perfluorohexanesulfonic acid (PFHxS) and perfluoroheptanoic acid (PFHpA). This Massachusetts value, called a MassDEP Office of Research and Standards Guideline (ORSG), is a maximum recommended level for drinking water. It is set to be protective against adverse health effects for all people consuming the water for a lifetime and also applies to shorter-term exposures of weeks to months during pregnancy and breast-feeding.

In December 2019, MassDEP promulgated final regulations at 310 CMR 40.0000 establishing groundwater and soil limits at waste cleanup sites for 6 PFAS compounds - PFOS, PFOA, PFHxS, PFNA, PFHpA, and perfluorodecanoic acid (PFDA). At the same time, MassDEP proposed revisions to the Massachusetts drinking water regulations that would establish a regulatory drinking water standard or Massachusetts Maximum Contaminant Level (MMCL) for PFAS. These revisions would establish a MMCL of 20 ng/L (or parts per trillion) for the sum of the concentrations of the same six PFAS included in the waste site clean up regulations. The proposed standard is supported by recent scientific developments in understanding the health effects of PFAS and is aligned with PFAS cleanup standards promulgated by the Waste Site Cleanup Program. For information on the proposed MMCL see:

https://www.mass.gov/regulations/310-CMR-22-the-massachusetts-drinking-water-regulations. The ORSG and the technical support document explain the basis of both the MassDEP revised cleanup standards and the proposed MMCL for drinking water.

In January 2020, MassDEP updated the ORGS, which is now 20 ng/L for the sum of 6 PFAS compounds. The updated ORSG replaces the June 2018 guideline for PFAS in drinking water.

See the updated ORSG and technical support document here: https://www.mass.gov/info-details/per-and-polyfluoroalkyl-substances-pfas#health-advisories-and-downloadable-fact-sheets-

Based on the current ORSG, MassDEP recommends that:

- 1) consumers in sensitive subgroups (pregnant women, nursing mothers, and infants) not consume water when the level of the six PFAS substances, individually or in combination, is above 20 ppt; and,
- 2) public water suppliers take steps expeditiously to lower levels of the six PFAS, individually or in combination, to below 20 ppt for all consumers.

Given that PFAS are persistent in the environment and may lead to adverse human health and environmental effects, MassDEP has identified a comprehensive approach for addressing PFAS in wastewater discharges. Additionally, based on review of data collected by other states for residuals produced from wastewater treatment and other processes, MassDEP has concerns regarding the levels of PFAS in residuals land applied in Massachusetts. All residuals products sold, distributed, and applied in Massachusetts are subject to an Approval of Suitability (AOS), which classifies residuals for different uses based on the chemical quality and treatment to reduce pathogens. Therefore, MassDEP began including a requirement for PFAS testing in all new or renewed AOSs in January 2019, and as of July 2020, MassDEP will be requiring all AOS holders to test their products for PFAS.

MassDEP is also concerned about the potential impacts PFAS discharges from wastewater treatment plants may have on downstream drinking water, recreational, and aquatic life uses. The Massachusetts Surface Water Quality Standards do not include numeric criteria for PFAS. However, the narrative criterion for toxic pollutants at 314 CMR 4.05(5)(e) states:

All surface waters shall be free from pollutants in concentrations or combinations that are toxic to humans, aquatic life or wildlife.

In addition, this narrative criterion is further elaborated on at 314 CMR 4.05(5)(e)2 which states:

Human Health Risk Levels. Where EPA has not set human health risk levels for a toxic pollutant, the human health-based regulation of the toxic pollutant shall be in accordance with guidance issued by the Department of Environmental Protection's Office of Research and Standards. The Department's goal is to prevent all adverse health effects which may results from the ingestion, inhalation or dermal absorption of toxins attributable to waters during their reasonable use as designated in 314 CMR 4.00.

To assess whether PFAS discharges from the Hollingsworth & Vose Company's East Walpole Facility are occurring and whether they may be contributing to a violation of the narrative toxics criteria, MassDEP is including conditions in the Massachusetts Surface Water Discharge Permit for the facility to require the permittee to monitor its discharges for PFAS and to conduct an evaluation of its use of PFAS-containing products.

DRAFT

Clean Water Act Section 401 Certification
For the Proposed 2020 Federal NPDES Permit
For the Hollingsworth & Vose Company
East Walpole Facility
MA Permit No. MA0044996

The Massachusetts Department of Environmental Protection (MassDEP), having examined Hollingsworth & Vose Company's National Pollutant Discharge Elimination System (NPDES) permit application for the Hollingsworth & Vose Company East Walpole Facility, reviewed the United States Environmental Protection Agency (EPA) – Region 1's draft 2020 Federal NPDES permit (MA Permit No. MA0044996) for the Hollingsworth & Vose Company East Walpole Facility issued November 6, 2020, and considered the public comments received on MassDEP's proposed Clean Water Section 401 Certification for the draft 2020 Federal NPDES Permit for the Hollingsworth & Vose Company East Walpole Facility, and in consideration of the relevant water quality considerations, hereby certifies:

- 1. that the following conditions, together with the terms and conditions contained in the proposed 2020 Federal NPDES permit for the Hollingsworth & Vose Company East Walpole Facility, are necessary to assure compliance with the applicable provisions of the Federal Clean Water Act Sections 208(e), 301, 302, 303, 306, and 307 and with appropriate requirements of State law, including, without limitation, the Massachusetts Clean Waters Act, M.G.L. c. 21, §§ 26-53 and the Massachusetts Water Quality Standards published at 314 CMR 4.00:
 - a. Pursuant to 314 CMR 3.11 (2)(a)6., and in accordance with MassDEP's obligation under 314 CMR 4.05(5)(e) to maintain surface waters free from pollutants in concentrations or combinations that are toxic to humans, aquatic life, or wildlife, within six (6) months of the effective date of the 2020 Federal NPDES permit, the permittee shall submit to MassDEP an evaluation of whether the facility uses any products containing any per- and polyfluoroalkyl substances (PFAS) and whether use of those products can be reduced or eliminated. The analysis shall be submitted electronically to massdep.npdes@mass.gov.
 - b. Pursuant to 314 CMR 3.11 (2)(a)6., and in accordance with MassDEP's obligation under 314 CMR 4.05(5)(e) to maintain surface waters free from pollutants in concentrations or combinations that are toxic to humans, aquatic life, or wildlife, within six (6) months after EPA's multi-lab validated method for wastewater is made available to the public on EPA's Clean Water Act methods program website¹, or two (2) years from the effective date of the 2020 Federal NPDES permit, whichever is earlier, the permittee shall conduct monitoring of the effluent for PFAS compounds as detailed in the table below. If EPA has not issued a validated test method by twenty (20) months after the effective date of the 2020 Federal NPDES permit, the

¹ See https://www.epa.gov/cwa-methods/other-clean-water-act-test-methods-chemical and https://www.epa.gov/cwa-methods.

permittee shall contact MassDEP (mass.gov) for guidance on an appropriate analytical method. Notwithstanding any other provision of the 2020 Federal NPDES permit to the contrary, monitoring results shall be reported to MassDEP electronically (massdep.npdes@mass.gov) within 30 days after they are received. Those results do not need to be reported to EPA through NetDMR, unless EPA establishes a requirement through a future permitting action.

Effluent (Outfall 002)

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Perfluorooctanesulfonic acid (PFOS)	ng/L	Quarterly	24-hour Composite
Perfluorooctanoic acid (PFOA)	ng/L	Quarterly	24-hour Composite
Perfluorodecanoic acid (PFDA)	ng/L	Quarterly	24-hour Composite

- c. Pursuant to 314 CMR 3.11 (2)(a)6., and in accordance with MassDEP's obligation under 314 CMR 4.05(5)(e) to maintain surface waters free from pollutants in concentrations or combinations that are toxic to humans, aquatic life, or wildlife, after completing one year of monitoring, if four (4) consecutive samples are reported as non-detect for all six (6) PFAS compounds, then the permittee may submit a request to MassDEP to discontinue PFAS monitoring. Any such request shall be made in writing and sent to massdep.npdes@mass.gov. The permittee shall continue such monitoring pending written approval from MassDEP to discontinue it.
- 2. that there is a reasonable assurance that the activity will be conducted in a manner which will not violate applicable state water quality standards.

To meet the requirements of Massachusetts laws, each of the conditions cited in the draft permit and this certification shall not be made less stringent unless new data or other information is presented and MassDEP determines modification of this certification is appropriate in consideration of the relevant water quality considerations.

If any condition in the draft 2020 Federal NPDES permit for the Hollingsworth & Vose Company East Walpole Facility is changed during EPA's review in any manner inconsistent with this certification, the Department reserves the right to modify this certification in consideration of the relevant water quality considerations. In addition, the Department reserves the right to modify this certification if there is a change in Massachusetts law or regulation upon which this certification is based, or if a court of competent jurisdiction or MassDEP Office of Appeals and Dispute Resolution stays, vacates or remands this certification, as provided by 40 C.F.R. § 124.55.

² Quarters are defined as January to March, April to June, July to September, and October to December. Samples shall be taken during the same month each quarter and shall be taken 3 months apart (e.g., an example sampling schedule could be February, May, August, and November).

Signed this day of, 2020.			
Lealdon Langley, Di	rector		
Massachusetts Dep	artment of Environmental Protection		
Bureau of Water Re	sources		

Division of Watershed Management



Commonwealth of Massachusetts Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

One Winter Street Boston, MA 02108 • 617-292-5500

Charles D. Baker Governor

Karyn E. Polito Lieutenant Governor Kathleen A. Theoharides Secretary

Martin Suuberg Commissioner

ANTIDEGRADATION REVIEW AND TENTATIVE DETERMINATION

Applicant and Address

Hollingsworth and Vose Company 112 Washington Street East Walpole, MA 02032 NPDES Permit MA0044996

Receiving Water and Classification

Neponset River Boston Harbor Watershed Segment: MA73-01

Classification: B, Warm Water Fishery

Introduction

Hollingsworth & Vose Company ("the Facility") has submitted an application for a new individual NPDES permit to U.S. Environmental Protection Agency ("EPA") and the Massachusetts Department of Environmental Protection ("MassDEP") for the discharge of reverse osmosis ("RO") reject water from their East Walpole facility to the Neponset River (MA73-01).

The Facility is currently engaged in the manufacture of battery separator material. To achieve the water purity level required for its manufacturing process, a RO system was installed to treat the incoming water withdrawn from the Neponset River.

The following review and determination were based upon information submitted as part of the NPDES application, the EPA draft permit and draft fact sheet, and through correspondence with the permittee. This information is paraphrased in the following discussion without further reference.

Applicability

This proposed discharge constitutes a "new discharge" (314 CMR 4.02) to a surface water of the Commonwealth. In accordance with 314 CMR 3.03, this discharge requires a NPDES permit and is subject to a review and determination by MassDEP under the Antidegradation Provisions [314 CMR 4.04 (2)].

Technology-Based Review

The technology-based review ensures that the discharge is provided with a level of treatment equal to or exceeding the requirements in 314 CMR 3.00 for technology-based effluent limitations. The Facility is seeking to discharge a new RO reject water stream to the Neponset River. In the absence of effluent guidelines for RO reject water, technology-based requirements have been made on a case-by-case basis based on best professional judgment.

The incoming water from the Neponset River is first pumped through coarse filtration and ultra-filtration units to remove all suspended solids. Aluminum sulfate is added to the water as a coagulant prior to ultra-filtration to facilitate the removal of the solids. This pretreated water is then sent to the RO unit to generate permeate/purified water for the manufacturing process and the reject water stream is discharged as effluent. Although aluminum residual may be present in the effluent, the estimated concentration of aluminum in the effluent (0.1897 mg/L) is significantly below the dilution-adjusted water quality criteria for aluminum. These criteria are 1.17 mg/L for chronic and 10.12 mg/L for acute. All wastewater generated through backwash and cleaning processes as well as all other process wastewaters are prohibited from being discharged to the Neponset River. The maximum effluent flow rate of the RO reject water is 50 gallons per minute (gpm).

Determination of Applicability of Specific Antidegradation Designations

The federal antidegradation policy established three tiers of protection. The first tier established a standard that is applicable to all waters and requires that all "existing uses" of a water body and level of water quality necessary to protect those existing uses be maintained and protected [see 40 CFR 131.12(a)(l)]. Under Massachusetts's antidegradation requirements in 314 CMR 4.04, "in all cases existing uses and the level of water quality necessary to protect the existing uses shall be maintained and protected." Existing uses are defined as, "Those designated uses and any other uses that do not impair the designated uses that are actually attained in a water body on or after November 28, 1975; except that in no case shall assimilation or transport of pollutants be considered an existing use."

The Implementation Procedures for the Antidegradation Provisions of the Massachusetts Water Surface Water Quality Standards, 314 CMR 4.00 may be found at https://www.mass.gov/doc/antidegradationimplementation-procedures-0/download and require the following:

- (1) An identification of existing uses;
- (2) A determination of water quality impact; and
- (3) A comparison with criteria.

The applicable Massachusetts Water Quality Standards (MA WQS), at 314 CMR 4.06, identify the segment MA73-01 of the Neponset River as a Class B water that is designated to support aquatic life and

recreational uses. This segment originates at the outlet of the Neponset Reservoir in Foxborough, and extends to its confluence with East Branch, Canton (through former pond segments Crackrock Pond MA73010 and Bird Pond MA73002). According to the MA WQS, these waters are designated as habitat for fish, other aquatic life and wildlife, and for primary and secondary contact recreation. These waters have consistently good water quality. In addition, Neponset River's classification includes a further qualifier as a warm water fishery, which indicates special considerations and uses that may affect the application of criteria or antidegradation provisions of 314 CMR 4.00.

The Massachusetts Year 2016 Integrated List of Waters Final Listing of the Condition of Massachusetts' Waters Pursuant to Sections 305(b), 314 and 303(d) of the Clean Water Act (the "2016 Integrated List") includes this waterbody as a Category 5 water, which are those classified as "Waters requiring a TMDL." Specifically, the 2016 Integrated List identifies Neponset River as impaired for DDT in fish tissue, dissolved oxygen, Escherichia Coli, metals, nutrient/eutrophication biological indicators, PCBs in fish tissue, and total phosphorus. A Total Maximum Daily Loads (TMDL) of Bacteria for Neponset River Basin was finalized by MassDEP in 2002, and an addendum to this TMDL was finalized in 2012. This discharge is not expected to be a source of bacteria unless it is already present in the intake water from the river.

Tier I Review

The Facility's effluent is essentially river water, containing the source water's typical chemical constituents but at higher concentrations, except for total suspended solids which are removed. The effluent also contains aluminum residual at the level below the dilution-adjusted water quality criteria. The effluent limits in the draft NPDES permit are based on the MA WQS for Class B waters. They will ensure that the discharge does not cause or contribute to lowering water quality and ensuring the water quality is maintained.

Tier II Review

High quality waters are protected and maintained for the existing level of quality. Discharges are permitted to these waters only when there will be no significant lowering of water quality, or an Antidegradation Authorization is granted to allow for the lowering of water quality. MassDEP may determine that a discharge is insignificant "because it does not have the potential to impair any existing or designated water use and does not have the potential to cause any significant lowering of water quality." See 314 CMR 4.04(2). Based on the estimated concentrations of the pollutants, MassDEP finds that the discharge will not further impair the Neponset River, and is therefore deemed insignificant.

Authorizations

In accordance with 314 CMR 4.04(5), an authorization to discharge to waters designated for protection under 314 CMR 4.04(2) may be issued by MassDEP where the applicant demonstrates that:

1. The discharge is necessary to accommodate important economic or social development in the area in which the waters are located.

The Facility serves as both the company's corporate headquarters as well as a vital manufacturing facility. H&V is a major employer in the Town of Walpole and the surrounding area and provides additional financial input to the local economy.

2. No less environmentally damaging alternative site for the activity, receptor for the disposal, or method of elimination of the discharge is reasonably available or feasible.

The Facility proposes to discharge RO reject water to the Neponset River. No other facilities owned by the company have the capacity available to produce battery separator material product. Other discharge options are not feasible or allowed. The Massachusetts Water Resources Authority (MWRA) does not allow the discharge of RO reject water into its sewer system. Based on information provided by Hollingsworth and Vose, due to the physical layout of the facility and property, neither infiltration of RO reject water into the subsurface nor spray application onto the ground surface is feasible.

3. To the maximum extent feasible, the discharge and activity are designed and conducted to minimize adverse impacts on water quality, including implementation of source reduction practices.

The design of the system utilizes RO filters that will be maintained and replaced on a scheduled basis. The membranes in the RO system will be sent off-site for cleaning. The backwash water from cleaning the filtration equipment is prohibited from being discharged to the Neponset River.

4. The discharge will not impair existing water uses and will not result in a level of water quality less than that specified for the Class.

As described above, the effluent characteristics of the RO reject water will not impair the designated uses of the Neponset River. The estimated aluminum concentration that will be in the effluent discharge is low and does not indicate a reasonable potential to exceed the dilution-adjusted water quality criteria for aluminum in the Neponset River. To the maximum extent feasible, the discharge and activity, combined with the associated effluent limitations, are designed and conducted to minimize adverse impacts on water quality.

Determination

The Department has determined that the proposed discharge meets the requirements of the Antidegradation Provisions of the MA WQS and complies with the policy document entitled Implementation Procedures for the Antidegradation Provisions of the Massachusetts Surface Water Quality Standards, 314 CMR 4.00, effective 10/21/2009.

Lealdon Langley, Director
Division of Watershed Management
Department of Environmental Protection
Commonwealth of Massachusetts
Boston, MA

Date: