

NOTICE OF INTENT

WATER TREATMENT PLAN UPGRADES CITY OF HAVERHILL DPW WATER DIVISION 131 AMESBURY ROAD HAVERHILL, MA

SUBMITTED ON BEHALF OF:

City of Haverhill DPW
Water Division
131 Amesbury Road
Haverhill, MA 01830-2801

SUBMITTED TO:

Haverhill Conservation Commission
City Hall Room 300
4 Summer Street
Haverhill, MA 01830

PREPARED BY:

Caron Environmental Consulting
247 Bragg Hill Road
Westminster, MA 01473

PROJECT ENGINEER:

Wright-Pierce
40 Shattuck Road; Suite 305
Andover, Ma 01810

October 11, 2016

TABLE OF CONTENTS

Project Narrative (October 11, 2016)

HCC Form 3- Notice of Intent Local Application Form (October 11, 2016)

Massachusetts WPA Form 3—Notice of Intent (October 11, 2016)

Attachments

- Locus Map (October 11 2016)
- NHESP Exemption Letter with MassGIS Map (October 11, 2016)
- MassGIS Maps: Orthophoto, NRCS Soils, Flood Zone (October 2016)
- Wetland Delineation Letter and Data Forms (October 11, 2016)
- City of Haverhill Parcel ID Maps (October 2016)
- Abutters' List/Abutter Notification (October 2016)
- Stormwater Management Plan (October 2016)
- Project Plans (October 2016)

PROJECT NARRATIVE

Project Introduction and Overview

This Notice of Intent (NOI) is being filed by the City of Haverhill DPW, Water Division in accordance with the Massachusetts Wetlands Protection Act (MAWPA) (M.G.L. Chapter 131, Section 40), and its implementing regulations (310 CMR 10.00) and Haverhill Municipal Ordinance Chapter 253. This NOI is being filed for work in Bordering Land Subject to Flooding, the 100-foot buffer zone and the 200-foot reservoir buffer zone.

The city's Water Treatment Plant (WTP) is located adjacent to Kenoza Lake at 131 Amesbury Road. The city will be undertaking a comprehensive upgrade of the WTP during 2017. The improvements are aimed at hydraulic and process improvements that were identified in a 2010 Comprehensive Water System Master Plan. The proposed upgrades will enable the plant to provide 12 MGD of hydraulic and treatment capacity and full operational redundancy.

Some of the components of the upgrades include:

- Upgrade of the raw water pumping capacity and electrical systems.
- An addition to the Water Treatment Plant building.
- Reconfiguration of the raw water inlet piping, chemical injection and mixing system, including the addition of an electrical room.
- Upgrade of the existing flocculation process to accommodate a dissolved air flotation process.
- Relocation and expansion of the filter system.
- Construction of an equalization and backwash tank.
- Expansion of the GAC filter system.
- Upgrade of the chemical feed systems.
- Construction of a new clearwell for improved disinfection efficiency.
- Upgrade of all major building systems.
- Site improvements to include reconfigured parking areas, truck access improvements, repaving, updates to the drainage system and site piping.

Existing Conditions and Resource Areas

The site currently contains the WTP, Maintenance Building, Garage, Raw Water Intake Pump Station and associated infrastructure including driveways, parking areas, boat ramp, drainage system, water system piping and other utilities. The areas immediately surrounding these features are mowed lawn with scattered small landscaped areas. East of the WTP the site is forested.

The WTP is located on the north side of Kenoza Lake. The lake's bank along most of the WTP site is unvegetated and rip-rapped with large stone. At the eastern end of the developed portion of the site the lake bank is more natural and contains a narrow strip of

trees between the lake and lawn. The Top of Bank of the lake was delineated based on evidence of the estimated annual high water mark. From the Top of Bank there is a 100-foot buffer zone along with the 200-foot reservoir buffer zone regulated under the local ordinance.

Within the forested area east of the WTP there is a Bordering Vegetated Wetland. The buffer zone from this area barely reaches the area of proposed work.

There is also a 100-year flood zone associated with the lake. This is a non-detailed study flood zone for which no flood elevation has been determined. The graphical representation of the flood zone shows it following closely to the top of the rip rapped slope, only slightly above the delineated top of bank. The mapping does indicate that the Raw Water Intake Pump Station is located in the flood zone, along with the slightly lower area between it and the boat ramp. It does not appear that the flood zone mapping took into account the slightly higher ground that the Raw Water Intake Pump building is located on.

Project Impacts and Mitigation

The entire project will take place on the portion of the site that is currently developed, including some areas that are currently lawn. Portions of the project are eligible to be treated as a limited project per 310 CMR 10.53 (3) d & l. We believe, however, that the current design complies with the relevant performance standards. Limited project status would only need to be claimed if it is found that some performance standard is not being met. Further, the project is within a Zone I Water Supply Protection Area where the use of stormwater best management practices are deemed unacceptable in accordance with the Massachusetts Stormwater Rules and Regulations. No new point source discharges are proposed.

Bordering Land Subject to Flooding:

Bordering Land Subject to Flooding (BLSF) is the 100-year flood zone. As described above it is confined primarily along the actual bank of the lake. It is mapped on the site in two areas where work is proposed.

Most of the Raw Water Intake Pump Station is located in BLSF, but the BLSF does not appear to extend beyond the north side of the building. Accordingly the electrical room that is being added appears to be just outside of BLSF. As a result the only work that will be required in BLSF at this location is the installation of new water pipe along the eastern side of the building. No change in grading is proposed and the surface conditions will be returned to their pre-existing condition.

In addition, a broad grass swale is proposed in the grassed area between the Raw Water Intake Pump Station and the boat ramp. The construction of this swale will require a small amount of excavation, increasing flood storage capacity.

100- Foot Buffer Zone:

Work within the 100 foot buffer zone includes the addition of the electrical room to the Raw Water Intake Pump Station, construction of Contact Chamber No. 1, the slight reconfiguration of the driveway intersection between the WTP and the Maintenance Building, the construction of a generator pad, repaving, various piping and other utility improvements.

Work is proposed within 25 feet of the resource areas only for the new piping for the Raw Water Intake Pump Station and the construction of the grass swale. Work is proposed within 50 feet of the resource areas for the construction of the electrical room addition to the Raw Water Intake Pump Station, piping and utility installation and for repaving in two areas.

Erosion control barriers are proposed between all work and the resource areas where appropriate. Runoff from the site can't reach the BVW to the east due to the topography and no erosion controls are required in that area. In addition, south of the WTP the existing paved area extends right up the rip-rapped slope, making it impractical to install erosion controls there. This area of pavement does have a berm along its edge so that runoff will not be directed to other areas where erosion controls are proposed.

200-Foot Reservoir Buffer Zone:

The Reservoir Buffer Zone provides added protection to areas adjacent to the city's surface water supplies. This entire project has the same goal of maintaining and improving the quality of the city's water supply.

Work proposed in the 200-foot Reservoir Buffer, beyond the 100-foot Buffer Zone includes portions of the addition to the WTP, a transformer pad, and additional repaving, pipe installation and utility installation.

Stormwater Management:

The attached Stormwater Management Plan details the current and proposed stormwater conditions on the site. The critical criteria determining how stormwater will be managed is that the entire developed portion of the site is located within Zone 1 of a public water supply well. Within Zone 1 most stormwater best management practices are prohibited. In addition there are no new point source discharges proposed.

Natural Heritage and Endangered Species Program:

There is an Estimated/Priority Habitat Area that slightly encroaches on the site. The main portion of the Habitat Area is located on the opposite side of Amesbury Road, but does encompass the very front of the site. The only activities proposed in the Habitat Area are the improvements to the gate area and repaving there. This work qualifies for two exemptions from the Massachusetts Endangered Species Act regulations. Per 321

CMR 10.14 (3) “the maintenance, repair, removal, or replacement, or additions that do not exceed 50% of the footprint of existing commercial and industrial buildings, multifamily and mixed use structures within existing paved areas and lawfully developed and maintained lawns or landscaped areas” are exempt. In addition, 321 CMR 10.14 (12) exempts “the maintenance, repair or replacement, but not widening, of existing paved roads, shoulder repair that does not exceed four feet from an existing travel lane, paved and unpaved driveways and paved and unpaved parking areas...”.

As required a copy of the NOI is being provided to NHESP along with a cover letter citing the exemptions the work qualifies for.



City of Haverhill Conservation Commission

HCC Form 3 – Notice of Intent Local Application Form

A. STATUTE APPLICABILITY

This application is being filed with the Commission in accordance with the following (check all that apply):

- Massachusetts Wetlands Protection Act, M.G.L. Chapter 131, Section 40
- Haverhill Municipal Ordinance Chapter 253

B. GENERAL INFORMATION

Applicant City of Haverhill DPW; Water Division

Property Owner City of Haverhill

Representative Charles Caron; Caron Environmental Consulting

Location (Street Address) 131 Amesbury Road

Assessor's Parcel Identification Map 465 Block 2 Parcel 1 and Map 466 Block 185 Parcel 14

C. APPLICATION CHECKLIST

The Commission requires the submittal of this original, completed Form; ten (10) paper copies of site plans; and one (1) paper copy of all other materials. Additionally, the Commission requires the submittal of individual PDFs of this Form and all listed application materials. If practical, related items may be combined into a single PDF. PDFs should not mix larger format sheets (e.g. site plans) with smaller sheets (e.g. letters). These submittal requirements also apply to supplemental information provided during the public hearing. The following materials shall be submitted with this form (check all that apply):

- Completed, current WPA Form 3, 3A, or 4 and NOI Wetland Fee Transmittal Form
- Project Narrative with description of resource areas & delineation methodology and demonstration of compliance with pertinent Performance Standards
- Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan
- Site Plans clearly describing the location and nature of the work, including such information as site boundaries, wetlands, topography, existing and proposed conditions, vegetation cover, soils, erosion & sedimentation controls, Title 5 compliance, flood storage calculations...(24" x 36" max. sheet size)
- MassDEP Bordering Vegetated Wetland Delineation Field Data Forms, as appropriate
- Wetland Resource Area Impact Mitigation Plan prepared in accordance with MA Inland Wetland Replication Guidelines, if applicable
- Demonstration of compliance with MA River & Stream Crossing Standards, if applicable (The HCC applies the General Standards to all resource area crossings for wildlife passage.)
- Simplified or Detailed Wildlife Habitat Evaluation (Appendix A or B), if applicable (See "MA Wildlife Habitat Protection Guidance for Inland Wetlands")
- Demonstration of compliance with MA Stormwater Management Standards, including but not limited to
 - Stormwater Report with pertinent calculations based on NOAA Atlas 14 rainfall data
 - Checklist for Stormwater Report
 - Long-Term Pollution Prevention Plan
 - Operation and Maintenance Plan
 - Illicit Discharge Compliance Statement

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City of Haverhill Conservation Commission

HCC Form 3 – Notice of Intent Local Application Form

- 8½" x 11" sections of the following maps with project location clearly identified
 - USGS Quadrangle
 - MassGIS Orthophoto
 - City of Haverhill Parcel ID Map, also identifying properties within 300' of subject property
 - NRCS Soils Map and Resource Report
 - FEMA Flood Insurance Rate Map, if applicable
 - MA NHESP Estimated Habitats of Rare Wildlife and Priority Habitats of Rare Species, if applicable
 - MassDEP/UMass-Amherst Habitat of Potential Regional or Statewide Importance, if applicable
- Proof of NOI filing with the MA Natural Heritage & Endangered Species Program, if applicable
- Appropriate Filing Fees, payable to the City of Haverhill, under the Act and Ordinance
- Other: _____

D. LOCAL PERMIT DOCUMENTATION

In accordance with 310 CMR 10.05(4)(e), list all obtainable permits, variances, and approvals required by local ordinance with respect to the proposed activity and status of same: _____

E. APPLICATION CERTIFICATION

I have read the Department of Environmental Protection's "Instructions for Completing Application" and the City's Municipal Ordinance under Chapter 253, with all applicable regulations and policies, for the filing of this application with the Haverhill Conservation Commission and agree to its terms and conditions, as amended. I understand the submitted NOI, its plans, and all its supporting materials are public records and may be uploaded to the City's website for public review. As required by the Commission, the wetland resource area(s) are flagged, the corners of proposed structures are staked, and the centerline of proposed roadway(s) and/or driveway(s) are marked, as appropriate, to facilitate site inspections by Commissioners and Conservation Staff.

Signed: [Signature]
(APPLICANT)

10/12/16
(DATE)

F. SITE ACCESS ACKNOWLEDGEMENT

I hereby grant the Haverhill Conservation Commission and its officials permission to enter upon my property at 131 Amesbury Rd 965-2-1 to review the filed Notice of Intent and (STREET ADDRESS AND ASSESSOR'S PARCEL ID) 466-185-14 future site conditions for compliance with the issued Order of Conditions. The sole purpose of this acknowledgement is to allow the Commission and its officials to perform their duties under the Massachusetts Wetlands Protection Act and the City's wetlands protection ordinance.

Signed: [Signature]
(PROPERTY OWNER)

10/12/16
(DATE)

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City of Haverhill Conservation Commission

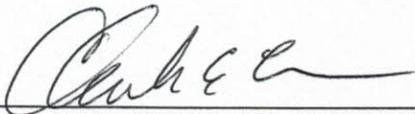
HCC Form 3 – Notice of Intent Local Application Form

G. AFFIDAVIT OF SERVICE FOR ABUTTER NOTIFICATION

I, Charles E. Caron, hereby certify under the pains and penalties of perjury that on
(NAME OF PERSON MAKING AFFIDAVIT)
October 12, 2016 I gave notification to all abutters pursuant to the requirements of the second
(DATE)
paragraph of Massachusetts General Laws Chapter 131, Section 40, the DEP Guide to Abutter Notification dated April 8, 1994, and Haverhill Municipal Ordinance Chapter 253, Section 5 in connection with the following matter:

A Notice of Intent filed under the Massachusetts Wetlands Protection Act and said ordinance by
City of Haverhill DPW; Water Division with the Haverhill Conservation Commission on
(NAME OF APPLICANT)
October 12, 2016 for property located at 131 Amesbury Road: Assessors Map 465 Block 2
Parcel 1 and Assessors Map 466 Block 185 Parcel 14

The list of the abutters to whom the Abutter Notification Form sent, with their addresses and Assessor's parcel identification information that corresponds with the submitted map section, are attached to this application.

Signed: 
(NAME OF PERSON MAKING AFFIDAVIT)

10/12/16
(DATE)

A. ABUTTER NOTIFICATION FORM

In accordance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40 (the Wetlands Protection Act) and Haverhill Municipal Ordinance Chapter 253, Section 5, you are hereby notified of the following:

1. The name of the applicant is City of Haverhill; Water Works Department
2. Brief Project Description: Upgrades and improvements to the existing water treatment plant including an addition.
3. The applicant has filed a Notice of Intent ("NOI") with the Haverhill Conservation Commission seeking permission to remove, fill, dredge or alter an Area Subject to Protection Under the Wetlands Protection Act and/or Haverhill Municipal Ordinance Chapter 253 and/or to perform work within the buffer zone of such an Area.
4. The address of the lot where the activity is proposed is 131 Amesbury Road and Kenoza Street, Assessors Map 465 Block 2 Parcel 1 and Assessors Map 466 Block 184 Parcel 14.
(INCLUDE ASSESSOR'S
MAP/BLOCK/LOT)
5. Copies of the NOI may be examined at *the Haverhill Conservation Department Office* between the hours of *8am and 4pm* from *Monday through Friday*. Contact information is below. You may also find helpful application materials on the "Projects Under Review" section of the Commission's website.
6. Copies of the NOI may be obtained from either (check one) the applicant _____, or the applicant's representative X, by calling this telephone number (978) 874-5469 between the hours of 8 am and 4 pm on the following days of the week, Monday through Friday.
7. Information regarding the *date, time, and place* of the public hearing may be obtained from the *Haverhill Conservation Department Office* between the hours of *8am and 4pm* from *Monday through Friday*. Contact information is below. You may also consult the "Agenda" section of the Commission's website.

NOTE: Notice of the public hearing, including its date, time and place, will be published at least five (5) days in advance in the *Haverhill Gazette newspaper*.

NOTE: Notice of the public hearing, including its date, time, and place, will be posted in Haverhill City Hall not less than forty-eight (48) hours in advance.

NOTE: You may contact the Haverhill Conservation Department for more information about this application, the Wetlands Protection Act, and Haverhill Municipal Ordinance Chapter 253. Please note the Department has only one staff person; every effort will be made to assist you in a timely manner.

Website:

http://www.cityofhaverhill.org/departments/conservation_commission/index.php.

Email: conservation@cityofhaverhill.com

Phone: 978.374.2334

NOTE: For additional information about this application and the Act, you may contact the MA Department of Environmental Protection Northeast Regional Office Service Center.

Website: <http://www.mass.gov/eea/agencies/massdep/about/contacts/northeast-region.html>

Phone: 978.694.3200



City of Haverhill Conservation Commission

HCC Form 3 – Notice of Intent Local Application Form

I. LOCAL ORDINANCE FEE CALCULATION FORM

ACTIVITY	LOCAL ORDINANCE FEE	# of Activities or Measurement	Subtotal
*Abbrev. Notice of Resource Area Delineation (ANRAD)			
Single Family House Project	\$1/linear foot, first 100'; \$0.50/lf, second 100'; \$0.10/lf, each additional foot		
All Other Projects	***\$1/linear foot, first 1000'; \$0.50/lf, second 1000'; \$0.10/lf, each additional foot		
***Notices of Intent (NOI)			
Category 1 Activity	\$100		
Category 2 Activity	\$250		
Category 3 Activity	\$525		
Category 4 Activity	\$725		
Category 5 Activity	\$2/foot		
Category 6 Activity - If no ANRAD was filed for the project site, then a local Cat. 6 fee must be paid in accordance with the ANRAD fee schedule	See ANRAD fee schedule		
Resource Area Alterations			
Buffer Zone, 75'-100' from resource area boundary	\$0.05 / square foot		
Buffer Zone, 35'-75' from resource area boundary	\$0.10 / square foot		
Buffer Zone, 0'-35' from resource area boundary	\$0.25 / square foot		
Bordering Vegetated Wetland	\$0.50 / square foot		
Bank	\$5 / linear foot		
Land Under Water	\$0.50 / square foot		
Land Subject to Flooding	\$0.05 / square foot		
Riverfront Area	\$0.05 / square foot		
Riverfront Area with the watershed of a potable water supply	\$0.50 / square foot		
Land within 100' of a Certified Vernal Pool	\$0.25 / square foot		
Local-only Jurisdictional Resource Area	\$0.25 / square foot		
Land within 200' of a potable water supply	\$0.50 / square foot		
ADVERTISING FEE*			\$45
LOCAL ORDINANCE FEE TOTAL			0
For filings resulting from enforcement action, double the Local Ordinance Fee Total			
NOTES:			
*Application is subject to an additional \$45 Local Advertising Fee payable to the City of Haverhill prior to EACH advertising			
***Local Ordinance Fee maximum of \$100, if, when determined necessary by Commission, applicant agrees to ANRAD review by outside consultant under M.G.L. Ch. 44, sec. 53G			
%Local Ordinance Fees for RDA, NOI, & RMOC increase 50% when project is also proposed within a Riverfront Area			
Local Ordinance Fees passed by a 7-0 vote of the Commission on October 28, 2010, effective January 1, 2011			



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Haverhill

City/Town

Important:
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



Note:
Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance.

A. General Information

1. Project Location (**Note:** electronic filers will click on button to locate project site):

131 Amesbury Road` _____ Haverhill _____ 01830
a. Street Address b. City/Town c. Zip Code
Latitude and Longitude: 42 deg 47.616' N 71 deg 03.622' W
d. Latitude e. Longitude
465/466 _____ Block 2 Parcel 1/Block 185 Parcel 14
f. Assessors Map/Plat Number g. Parcel /Lot Number

2. Applicant:

John _____ D'Aoust _____
a. First Name b. Last Name
City of Haverhill DPW; Water Division
c. Organization
131 Amesbury Road
d. Street Address
Haverhill _____ MA _____ 01830-2801
e. City/Town f. State g. Zip Code
978-374-2385 _____ jdaoust@haverhillwater.com
h. Phone Number i. Fax Number j. Email Address

3. Property owner (required if different from applicant): Check if more than one owner

a. First Name b. Last Name

c. Organization

d. Street Address

e. City/Town f. State g. Zip Code

h. Phone Number i. Fax Number j. Email address

4. Representative (if any):

Charles _____ Caron _____
a. First Name b. Last Name
Caron Environmental Consulting
c. Company
247 Bragg Hill Road
d. Street Address
Westminster _____ MA _____ 01473
e. City/Town f. State g. Zip Code
978-874-5469 _____ caronenv@aol.com
h. Phone Number i. Fax Number j. Email address

5. Total WPA Fee Paid (from NOI Wetland Fee Transmittal Form):

Exempt _____
a. Total Fee Paid b. State Fee Paid c. City/Town Fee Paid



WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

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Haverhill

City/Town

A. General Information (continued)

6. General Project Description:

The comprehensive upgrade of existing water treatment plant.

7a. Project Type Checklist: (Limited Project Types see Section A. 7b.)

- 1. Single Family Home
- 2. Residential Subdivision
- 3. Commercial/Industrial
- 4. Dock/Pier
- 5. Utilities
- 6. Coastal engineering Structure
- 7. Agriculture (e.g., cranberries, forestry)
- 8. Transportation
- 9. Other

7b. Is any portion of the proposed activity eligible to be treated as a limited project (including Ecological Restoration Limited Project) subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?

- 1. Yes No If yes, describe which limited project applies to this project. (See 310 CMR 10.24 and 10.53 for a complete list and description of limited project types)

10.53 (3) d & l : This status is not required as work meets the performance standards.

2. Limited Project Type

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR10.24(8), 310 CMR 10.53(4)), complete and attach Appendix A: Ecological Restoration Limited Project Checklist and Signed Certification.

8. Property recorded at the Registry of Deeds for:

a. County

b. Certificate # (if registered land)

c. Book

d. Page Number

B. Buffer Zone & Resource Area Impacts (temporary & permanent)

- 1. Buffer Zone Only – Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.
- 2. Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).

Check all that apply below. Attach narrative and any supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.



WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

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Document Transaction Number

Haverhill

City/Town

B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

For all projects affecting other Resource Areas, please attach a narrative explaining how the resource area was delineated.

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input type="checkbox"/> Bank	1. linear feet	2. linear feet
b. <input type="checkbox"/> Bordering Vegetated Wetland	1. square feet	2. square feet
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	1. square feet 3. cubic yards dredged	2. square feet

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
d. <input checked="" type="checkbox"/> Bordering Land Subject to Flooding	2,800 1. square feet 0 3. cubic feet of flood storage lost	2,800 restored in place 2. square feet 0 4. cubic feet replaced

e. <input type="checkbox"/> Isolated Land Subject to Flooding	1. square feet 2. cubic feet of flood storage lost	3. cubic feet replaced
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f. Riverfront Area
1. Name of Waterway (if available) - **specify coastal or inland**

2. Width of Riverfront Area (check one):

25 ft. - Designated Densely Developed Areas only

100 ft. - New agricultural projects only

200 ft. - All other projects

3. Total area of Riverfront Area on the site of the proposed project: _____ square feet

4. Proposed alteration of the Riverfront Area:

a. total square feet _____ b. square feet within 100 ft. _____ c. square feet between 100 ft. and 200 ft. _____

5. Has an alternatives analysis been done and is it attached to this NOI? Yes No

6. Was the lot where the activity is proposed created prior to August 1, 1996? Yes No

3. Coastal Resource Areas: (See 310 CMR 10.25-10.35)

Note: for coastal riverfront areas, please complete **Section B.2.f.** above.



WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

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Document Transaction Number

Haverhill

City/Town

B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

Check all that apply below. Attach narrative and supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

Online Users:
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. <input type="checkbox"/> Land Under the Ocean	1. square feet _____	
	2. cubic yards dredged _____	
c. <input type="checkbox"/> Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. <input type="checkbox"/> Coastal Beaches	1. square feet _____	2. cubic yards beach nourishment _____
e. <input type="checkbox"/> Coastal Dunes	1. square feet _____	2. cubic yards dune nourishment _____
	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
f. <input type="checkbox"/> Coastal Banks	1. linear feet _____	
g. <input type="checkbox"/> Rocky Intertidal Shores	1. square feet _____	
h. <input type="checkbox"/> Salt Marshes	1. square feet _____	2. sq ft restoration, rehab., creation _____
i. <input type="checkbox"/> Land Under Salt Ponds	1. square feet _____	
	2. cubic yards dredged _____	
j. <input type="checkbox"/> Land Containing Shellfish	1. square feet _____	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	
	1. cubic yards dredged _____	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	1. square feet _____	
4. <input type="checkbox"/> Restoration/Enhancement	If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here.	
	a. square feet of BVW _____	b. square feet of Salt Marsh _____
5. <input type="checkbox"/> Project Involves Stream Crossings		
	a. number of new stream crossings _____	b. number of replacement stream crossings _____



WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

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C. Other Applicable Standards and Requirements

- This is a proposal for an Ecological Restoration Limited Project. Skip Section C and complete Appendix A: Ecological Restoration Limited Project Checklists – Required Actions (310 CMR 10.11).

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

1. Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the *Massachusetts Natural Heritage Atlas* or go to http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm.

- a. Yes No

If yes, include proof of mailing or hand delivery of NOI to:

Natural Heritage and Endangered Species Program
Division of Fisheries and Wildlife
1 Rabbit Hill Road
Westborough, MA 01581

Online 10/11/16

b. Date of map

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.c, and include requested materials with this Notice of Intent (NOI); OR complete Section C.2.f, if applicable. *If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below).*

- c. Submit Supplemental Information for Endangered Species Review*

1. Percentage/acreage of property to be altered:

(a) within wetland Resource Area

_____ percentage/acreage

(b) outside Resource Area

_____ percentage/acreage

2. Assessor's Map or right-of-way plan of site

2. Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work **

(a) Project description (including description of impacts outside of wetland resource area & buffer zone)

(b) Photographs representative of the site

* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/>). Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

** MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are not required as part of the Notice of Intent process.



WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Haverhill

City/Town

C. Other Applicable Standards and Requirements (cont'd)

(c) MESA filing fee (fee information available at http://www.mass.gov/dfwele/dfw/nhosp/regulatory_review/ mesa/ mesa_fee_schedule.htm).
Make check payable to "Commonwealth of Massachusetts - NHESP" and **mail to NHESP** at above address

Projects altering 10 or more acres of land, also submit:

(d) Vegetation cover type map of site

(e) Project plans showing Priority & Estimated Habitat boundaries

(f) OR Check One of the Following

1. Project is exempt from MESA review.
Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, http://www.mass.gov/dfwele/dfw/nhosp/regulatory_review/ mesa/ mesa_exemptions.htm; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

2. Separate MESA review ongoing.

a. NHESP Tracking # _____

b. Date submitted to NHESP _____

3. Separate MESA review completed.

Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.

3. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?

a. Not applicable – project is in inland resource area only b. Yes No

If yes, include proof of mailing, hand delivery, or electronic delivery of NOI to either:

South Shore - Cohasset to Rhode Island border, and the Cape & Islands:

North Shore - Hull to New Hampshire border:

Division of Marine Fisheries -
Southeast Marine Fisheries Station
Attn: Environmental Reviewer
1213 Purchase Street – 3rd Floor
New Bedford, MA 02740-6694

Email: DMF.EnvReview-South@state.ma.us

Division of Marine Fisheries -
North Shore Office
Attn: Environmental Reviewer
30 Emerson Avenue
Gloucester, MA 01930

Email: DMF.EnvReview-North@state.ma.us

Also if yes, the project may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional Office.



WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
MassDEP File Number
Document Transaction Number
Haverhill
City/Town

Online Users:
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

C. Other Applicable Standards and Requirements (cont'd)

4. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?
- a. Yes No If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). **Note:** electronic filers click on Website.
- b. ACEC
5. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?
- a. Yes No
6. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?
- a. Yes No
7. Is this project subject to provisions of the MassDEP Stormwater Management Standards?
- a. Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:
1. Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)
 2. A portion of the site constitutes redevelopment
 3. Proprietary BMPs are included in the Stormwater Management System.
- b. No. Check why the project is exempt:
1. Single-family house
 2. Emergency road repair
 3. Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

D. Additional Information

- This is a proposal for an Ecological Restoration Limited Project. Skip Section D and complete Appendix A: Ecological Restoration Notice of Intent – Minimum Required Documents (310 CMR 10.12).

Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

Online Users: Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department.

1. USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
2. Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.



WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Haverhill

City/Town

D. Additional Information (cont'd)

3. Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.

4. List the titles and dates for all plans and other materials submitted with this NOI.

Haverhill, Massachusetts, Water Treatment Plant Upgrades

a. Plan Title

Wright-Pierce

Amy Coppers Costantino

b. Prepared By

c. Signed and Stamped by

October 2016

1"=20'

d. Final Revision Date

e. Scale

Stormwater Management Plan

October 2016

f. Additional Plan or Document Title

g. Date

5. If there is more than one property owner, please attach a list of these property owners not listed on this form.

6. Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.

7. Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.

8. Attach NOI Wetland Fee Transmittal Form

9. Attach Stormwater Report, if needed.

E. Fees

1. Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

2. Municipal Check Number

3. Check date

4. State Check Number

5. Check date

6. Payor name on check: First Name

7. Payor name on check: Last Name



WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Haverhill

City/Town

F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

1. Signature of Applicant

10/12/16

2. Date

3. Signature of Property Owner (if different)

4. Date

10/12/16

5. Signature of Representative (if any)

6. Date

For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a **copy** of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other:

If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.

LOCUS MAP: HAVERHILL WATER TREATMENT PLANT

71°05.000' W

71°04.000' W

71°03.000' W

WGS84 71°02.000' W

42°49.000' N

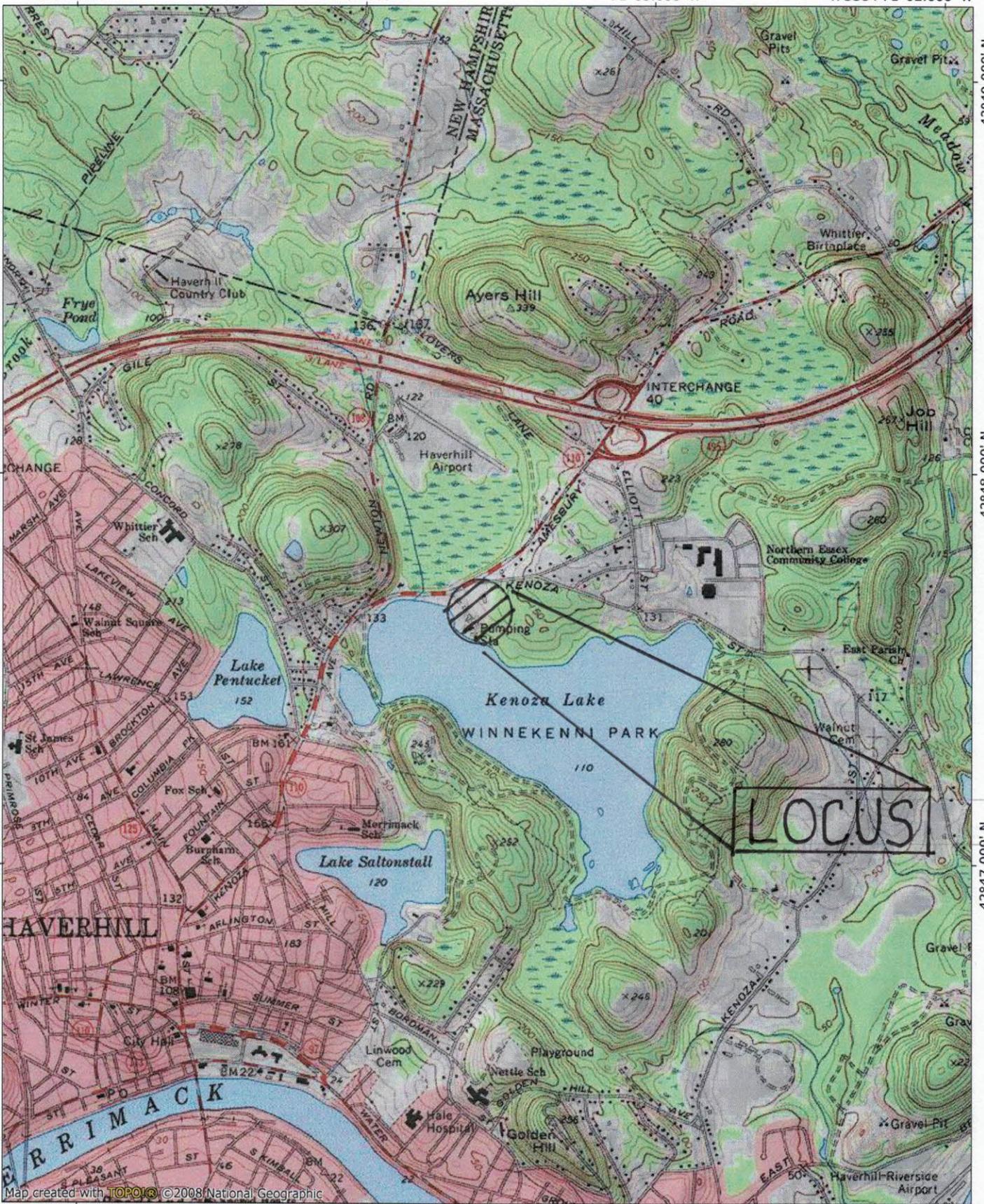
42°49.000' N

42°48.000' N

42°48.000' N

42°47.000' N

42°47.000' N



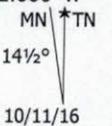
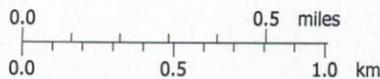
Map created with TOPO! © 2008 National Geographic

71°05.000' W

71°04.000' W

71°03.000' W

WGS84 71°02.000' W





Caron Environmental Consulting

978-874-5469

Wetlands • Forestry • Permitting • Habitat Studies

October 11, 2016

Natural Heritage and Endangered Species Program
Division of Fisheries and Wildlife
1 Rabbit Hill Road
Westborough, MA 01581

Re: Notice of Intent
City of Haverhill DPW; Water Division
Water Treatment Plant
131 Amesbury Road/Haverhill

Dear Sir or Madam:

Enclosed please find a Notice of Intent, plans and supporting documents for comprehensive upgrade of a water treatment plant. The western edge of the site along Amesbury Road is located in an Estimated/Priority Habitat Area. As described below, it appears that the work is exempt from NHESP review per 321 CMR 10.14 (3 and 12).

The only portion of the work proposed within the Habitat Area is the improvement of the island and gate along the entrance driveway, and the repaving of the immediately adjacent section of the driveway. The extent of pavement is not expanding and all of the work is within currently paved, grassed or landscaped areas. Accordingly we believe that the project is exempt per 321 CMR 10.14 (12).

In addition, all of the work on the site outside of the Habitat Area will be taking place in currently developed areas; existing buildings, paved driveways and parking areas, or lawn. An addition is proposed to the water treatment plant building and a 200 foot section of driveway is being added. Accordingly, the extent of developed areas on the site are being expanding by less than 50% and should be exempt per 321 CMR 10.14 (3).

We have provided the Program with a full copy of the filing to assist it in confirming the exemption. Please do not hesitate to contact us if you have any questions.

Very truly yours,
CARON ENVIRONMENTAL CONSULTING

By:

Charles E. Caron

Enc.

c.c. Wright-Pierce
City of Haverhill DPW: Water Division
Haverhill Conservation Commission

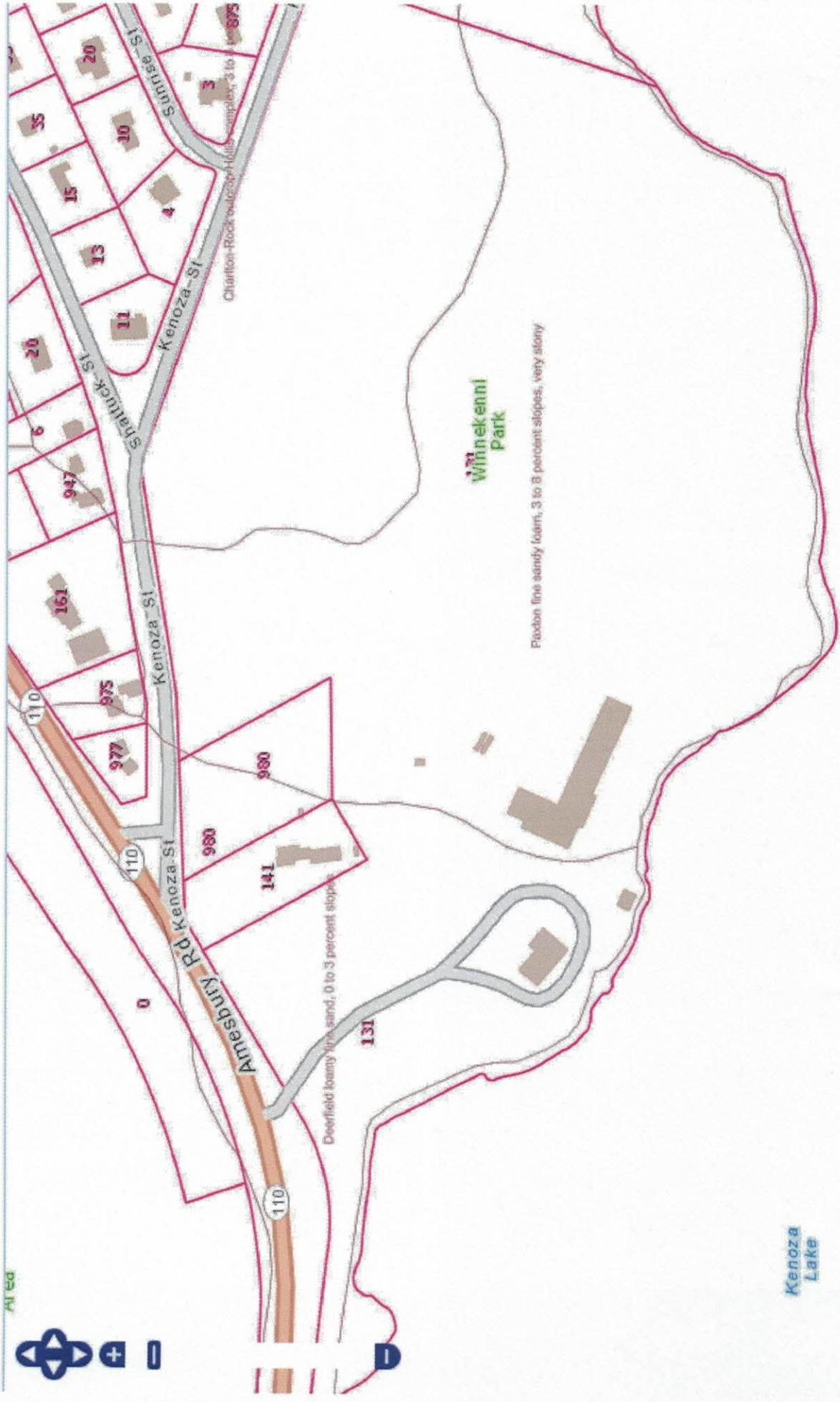
Search for a location

Zoom to a town



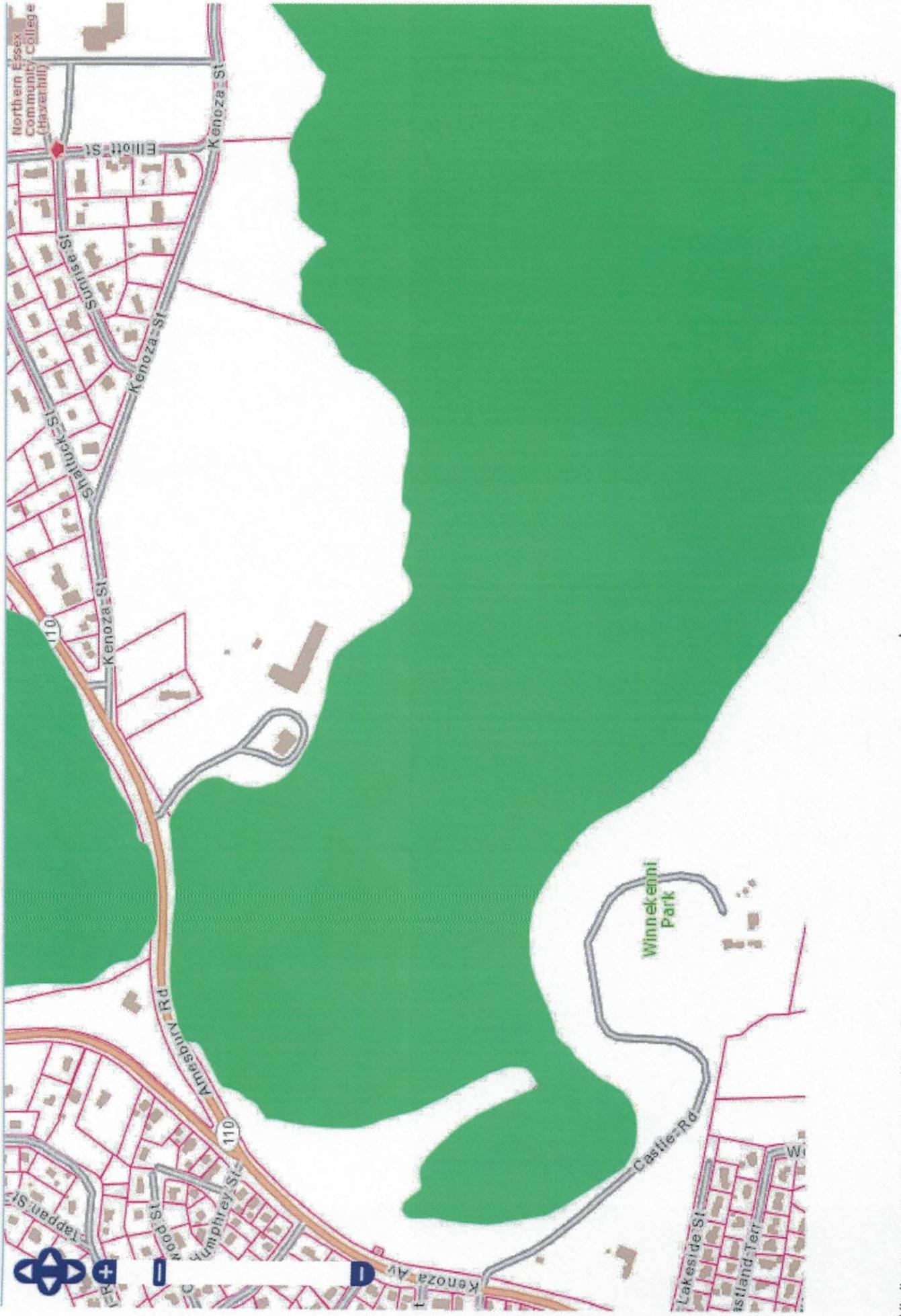
Search for a location

Zoom to a town



Search for a location

Zoom to a town





Caron Environmental Consulting

978-874-5469

Wetlands • Forestry • Permitting • Habitat Studies

October 11, 2016

Ms. Amy Coppers Costantino, P.E.
Wright-Pierce, Inc.
40 Shattuck Road; Suite 305
Andover, MA 01810

Re: Wetland Delineation
City of Haverhill
Water Treatment Plant
Amesbury Road

Dear Ms. Costantino:

As requested, we have delineated the wetlands in the vicinity of the water treatment plant on Amesbury Road in Haverhill. The delineation was conducted on January 20, 2015 at which time there was no snowcover. The delineation was based on observations of the plant communities, hydrology, soil conditions and bank characteristics. In addition on July 29, 2015 we returned to the site to confirm conditions in the Bordering Vegetated Wetland (BVW) and to establish a set of delineation data plots.

The Top of Bank along Kenoza Lake was delineated with blue flagging labeled A1 to A31. In addition the edge of a BVW to the east was delineated with blue flagging labeled B1 to B16.

Along most of the site the bank of the lake is rip-rapped with large stone, with lawn or pavement landward from the bank. At the very eastern end of the delineation the bank is not rip-rapped and there is a narrow strip of trees and shrubs between the bank and the adjacent lawn. The Top of Bank is defined as the first break in slope or the annual high water level, whichever is lower. In this location the rip-rapped bank clearly extends well above the annual high water level. Accordingly the A-series flags were placed along the estimated annual high water mark of the lake. The estimated annual high water mark was based on observations of changes in the color of the rip rap and evidence of the deposition of debris. The delineated high water mark was two to three feet above the lake's water level at the time.

Where the bank is not rip-rapped there is little vegetation established on it. Only a few river birches were observed. In this area the vegetation between the bank and lawn is dominated by red oak, red maple, shagbark hickory, pepperbush, Morrow honeysuckle and bittersweet.

There is a BVW in the forest east of the water treatment plant. The dominant species observed in the BVW include red maple, American elm, green ash, common buckthorn, arrow-wood and poison ivy. The most abundant species in the adjacent uplands include red, black and scarlet oaks, red maple, black locust, red pine, chokecherry, common buckthorn, Morrow honeysuckle,

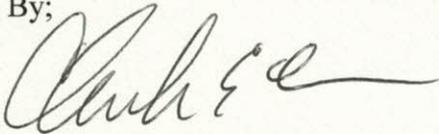
bittersweet and poison ivy. The attached Delineation Data Forms include details on the soil and hydrologic conditions along with more detailed information on the vegetation.

The MassGIS online viewer indicates that there is an Estimated/Priority Habitat Area that encompasses a narrow strip of the site along Amesbury Road. No Certified Vernal Pools are mapped on the site.

If you should have any questions in regards to this matter, please feel free to contact us.

Very truly yours,
CARON ENVIRONMENTAL CONSULTING,

By;

A handwritten signature in black ink, appearing to read "Charles E. Caron", with a long horizontal flourish extending to the right.

Charles E. Caron

Enc.

DEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: City of Haverhill Prepared by: Caron Environmental Consulting Project location: Kenoza WTP DEP File #: _____

Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I. Vegetation	Observation Plot Number: B10-W	Transect Number: B10	Date of Delineation: 7/29/15	
A. Sample Layer and Plant Species (by common/scientific name)	B. Percent Cover (or basal area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
<u>Herbs & Seedlings</u>				
Arrow-wood/ <i>Virburnum dentatum</i>	18	56	Yes	FAC*
Poison Ivy/ <i>Toxicodendron radicans</i>	14	44	Yes	FAC*
<u>Shrubs</u>				
Arrow-wood	2	100	No	FAC*
<u>Saplings</u>				
Red Maple/ <i>Acer rubrum</i>	32	52	Yes	FAC*
American Elm/ <i>Ulmus Americana</i>	19	31	Yes	FAC*
Norway Maple/ <i>Acer platanoides</i>	10	16	No	UPL
<u>Trees</u>				
Green Ash/ <i>Fraxinus pennsylvanica</i>	5.551	98	Yes	FACW*
American Elm	0.136	2	No	FAC*

* Use an asterisk to mark wetland indicator plants

Vegetation conclusion:
 Number of dominant wetland indicator plants: 5 Number of dominant non-wetland indicator plants: 0
 Is the number of dominant wetland indicator plants equal to or greater than the number of dominant non-wetland indicator plants? Yes

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent.

Section II. Indicators of Hydrology Plot B10-W

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? Yes No

Title/date: Soil Survey of Essex County Massachusetts, Northern Part

Map number: 10

Soil type mapped: Paxton Fine Sandy Loam

Hydric soil inclusions: Yes

Are field observations consistent with soil survey? Yes No

Remarks:

2. Soil Description

Horizon	Depth (inches)	Matrix Color	Mottles Color
A	0"-14"+	10 YR 4/2	7.5 YR 5/6 10 YR 5/1

Remarks:

Other:

Conclusion: Is soil hydric: Yes No

Other Indicators of Hydrology: (check all that apply and describe)

Site inundated: groundwater at surface nearby (not river flooding)

Depth to free water in observation hole:

Depth to soil saturation in observation hole: 8"

Water marks:

Drift lines:

Sediment deposits:

Drainage patterns in BVW:

Oxidized rhizospheres:

Water-stained leaves:

Recorded data (stream, lake, or tidal gauge; Aerial photo; other):

Other: Butressing

Vegetation and Hydrology Conclusion

Yes No

Number of wetland indicator plants

>/= number of non-wetland indicator plants

Wetland hydrology present:

Hydric soil present

Other indicators of hydrology

present

Sample location is in a BVW

Submit this form with the Request for Determination of Applicability or Notice of Intent.

DEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: City of Haverhill Prepared by: Caron Environmental Consulting Project location: Kenoza WTP DEP File #: _____

Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I. Vegetation		Observation Plot Number: B10-U	Transect Number: B10	Date of Delineation: 7/29/15
A. Sample Layer and Plant Species (by common/scientific name)	B. Percent Cover (or basal area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
Herbs & Seedlings				
Chokeberry/ <i>Gaultheria procumbens</i>	21	53	Yes	FACU
Bittersweet/ <i>Celastrus orbiculatus</i>	11	27	Yes	UPL
Arrow-wood	7	18	No	FAC*
Canada Mayflower/ <i>Maianthemum Canadensis</i>	1	2	No	FAC-
Shrubs				
Chokecherry/ <i>Prunus virginiana</i>	23	53	Yes	FACU
Hawthorn/ <i>Crataegus spp.</i>	6	14	No	NC
Shadbush/ <i>Amelachier canadensis</i>	4	9	No	FAC*
Red Maple	4	9	No	FAC*
White Oak/ <i>Quercus alba</i>	3	7	No	FACU
Arrow-wood	2	5	No	FAC*
Common Buckthorn/ <i>Rhamnus cathartica</i>	1	2	No	FAC*
Saplings				
Sugar Maple/ <i>Acer saccharum</i>	7	54	Yes	FACU
Red Maple	6	46	Yes	FAC*
Trees				
Red Oak/ <i>Quercus rubra</i>	5.502	45	Yes	FACU
Black Oak/ <i>Q. velutina</i>	5.457	45	Yes	UPL
Green Ash	0.565	5	No	FACW*
Red Maple	0.413	3	No	FAC*
Shagbark Hickory/ <i>Carya ovata</i>	0.196	2	No	FACU

* Use an asterisk to mark wetland indicator plants

Vegetation conclusion:
 Number of dominant wetland indicator plants: 1 Number of dominant non-wetland indicator plants: 6
 Is the number of dominant wetland indicator plants equal to or greater than the number of dominant non-wetland indicator plants? No

Section II. Indicators of Hydrology Plot B10-U

Other Indicators of Hydrology: (check all that apply and describe)

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? Yes No

Title/date: Soil Survey of Essex County Massachusetts, Northern Part

Map number: 10

Soil type mapped: Paxton Fine Sandy Loam

Hydric soil inclusions: yes

Are field observations consistent with soil survey? Yes No

Remarks:

Other:

2. Soil Description

Horizon	Depth (inches)	Matrix Color	Mottles Color
A	0"-4"	10 YR 4/3	None
Bw	4"-16"+	10 YR 5/6	None

Remarks:

Other:

Conclusion: Is soil hydric: Yes No

- Site inundated:
- Depth to free water in observation hole:
- Depth to soil saturation in observation hole:
- Water marks:
- Drift lines:
- Sediment deposits:
- Drainage patterns in BVW:
- Oxidized rhizospheres:
- Water-stained leaves:
- Recorded data (stream, lake, or tidal gauge; Aerial photo; other):
- Other:

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants	<input type="checkbox"/>	<input checked="" type="checkbox"/>
>/= number of non-wetland indicator plants	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Wetland hydrology present:	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Hydric soil present	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other indicators of hydrology present	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sample location is in a BVW	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.



Wetland at Plot B10-W



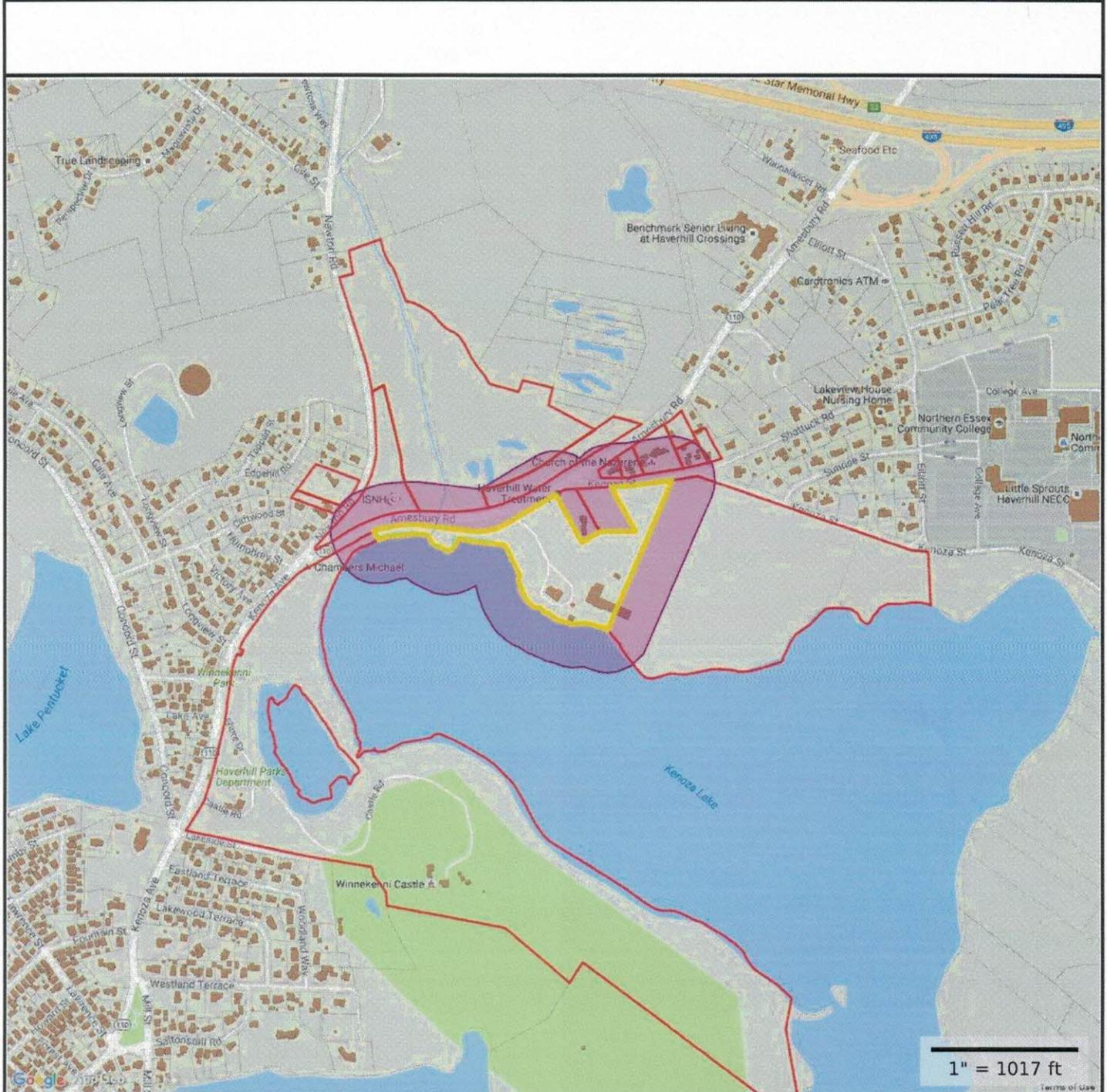
Upland at Plot B10-U



Soil at Plot B10-W



Soil at Plot B10-U



Property Information

Property ID 465-2-1
Location 131 AMESBURY RD
Owner CITY OF HAVERHILL



**MAP FOR REFERENCE ONLY
 NOT A LEGAL DOCUMENT**

City of Haverhill, MA makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Parcels updated March 1, 2016
 Properties updated March 1, 2016



Property Information	
Property ID	466-185-14
Location	KENOZA ST
Owner	CITY OF HAVERHILL



**MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT**

City of Haverhill, MA makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Parcels updated March 1, 2016
Properties updated March 1, 2016

1" = 508 ft

Terms of Use

A. ABUTTER NOTIFICATION FORM

In accordance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40 (the Wetlands Protection Act) and Haverhill Municipal Ordinance Chapter 253, Section 5, you are hereby notified of the following:

1. The name of the applicant is City of Haverhill; Water Works Department
2. Brief Project Description: Upgrades and improvements to the existing water treatment plant including an addition.
3. The applicant has filed a Notice of Intent ("NOI") with the Haverhill Conservation Commission seeking permission to remove, fill, dredge or alter an Area Subject to Protection Under the Wetlands Protection Act and/or Haverhill Municipal Ordinance Chapter 253 and/or to perform work within the buffer zone of such an Area.
4. The address of the lot where the activity is proposed is 131 Amesbury Road and Kenoza Street, Assessors Map 465 Block 2 Parcel 1 and Assessors Map 466 Block 184 Parcel 14.
(INCLUDE ASSESSOR'S
MAP/BLOCK/LOT)
5. Copies of the NOI may be examined at *the Haverhill Conservation Department Office* between the hours of *8am and 4pm* from *Monday through Friday*. Contact information is below. You may also find helpful application materials on the "Projects Under Review" section of the Commission's website.
6. Copies of the NOI may be obtained from either (check one) the applicant _____, or the applicant's representative X, by calling this telephone number (978) 874-5469 between the hours of 8 am and 4 pm on the following days of the week, Monday through Friday.
7. Information regarding the *date, time, and place* of the public hearing may be obtained from the *Haverhill Conservation Department Office* between the hours of *8am and 4pm* from *Monday through Friday*. Contact information is below. You may also consult the "Agenda" section of the Commission's website.

NOTE: Notice of the public hearing, including its date, time and place, will be published at least five (5) days in advance in the *Haverhill Gazette newspaper*.

NOTE: Notice of the public hearing, including its date, time, and place, will be posted in Haverhill City Hall not less than forty-eight (48) hours in advance.

NOTE: You may contact the Haverhill Conservation Department for more information about this application, the Wetlands Protection Act, and Haverhill Municipal Ordinance Chapter 253. Please note the Department has only one staff person; every effort will be made to assist you in a timely manner.

Website:

http://www.cityofhaverhill.org/departments/conservation_commission/index.php

Email: conservation@cityofhaverhill.com

Phone: 978.374.2334

NOTE: For additional information about this application and the Act, you may contact the MA Department of Environmental Protection Northeast Regional Office Service Center.

Website: <http://www.mass.gov/eea/agencies/massdep/about/contacts/northeast-region.html>

Phone: 978.694.3200

Property ID	Site Address	Owner	Owner 2	Owner Address	Owner City	Owner Owner Zip
441-1-1A	975 KENOZA ST	BEYMER DENNIS		975 KENOZA STREET	HAVERHILL	MA 01830
441-1-1B	977 KENOZA ST	KELLEY MARK P ETUX	KELLEY PATRICIA A	977 KENOZA STREET	HAVERHILL	MA 01830
441-1-2	171 AMESBURY RD	LELIS ALBERT P JR-ETAL	CROTEAU JENNIFER L	P.O. BOX 610	WINDHAM	NH 03087
441-1-2A	947 KENOZA ST	ETHIER DONALD A ETUX	ETHIER JOY A	947 KENOZA ST	HAVERHILL	MA 01830
441-1-2C	167 AMESBURY RD	FIRST CHURCH OF NAZARENE		167 AMESBURY RD	HAVERHILL	MA 01830
441-1-4	6 SHATTUCK ST	GALLANT ERIC J ETUX	GALLANT PAULA A	6 SHATTUCK ST	HAVERHILL	MA 01830
465-1-1	259 KENOZA AVE	CITY OF HAVERHILL	WATER WORKS DEPT	4 SUMMER ST ROOM 300	HAVERHILL	MA 01830
465-2-1A	980 KENOZA ST	CITY OF HAVERHILL		4 SUMMER ST	HAVERHILL	MA 01830
465-2-2	141 AMESBURY RD	ROBERT & JOANN CONRAD FAMILY TRUS	CONRAD ROBERT J-TRUSTEE	141 AMESBURY RD	HAVERHILL	MA 01830
465-3-1	36 AMESBURY RD	LONE TREE COUNCIL INC	C/O ALFRED MORIN, SEC.	36 AMESBURY RD	HAVERHILL	MA 01830
465-3-2	AMESBURY RD	ESSEX COUNTY GREENBELT ASSOC		82 EASTERN AVE (B-05)	ESSEX	MA 01929
465-3-2A	AMESBURY RD	JPG REALTY TRUST	GIORDANO JOHN P-TRUSTEE	29 CLARKE'S ROAD	AMESBURY	MA 01913
466-185-14	KENOZA ST	CITY OF HAVERHILL	WATER WORKS DEPT	4 SUMMER ST	HAVERHILL	MA 01830
665-1-5	36 NEWTON RD	GEORGE DIANA E		36 NEWTON RD	HAVERHILL	MA 01830
665-1-6	14 NEWTON RD	O'LEARY SEAN M		14 NEWTON RD	HAVERHILL	MA 01830

Property ID	Site Address	Owner	Owner 2	Owner Address	Owner City	Owner Zip
441-3-19	3 SUNRISE ST	LAUBNER DENNIS		3 SUNRISE ST	HAVERHILL MA	01830
441-3-4	155 ELLIOTT ST	PERREAULT DONNA A		155 ELLIOTT ST	HAVERHILL MA	01830
441-3-5	165 ELLIOTT ST	HOWARD JR MERTON ETUX	HOWARD PATRICIA	165 ELLIOTT ST	HAVERHILL MA	01830
441-3-6	863 KENOZA ST	LAITSAS CHRIS-ETUX	LAITSAS MARIA	863 KENOZA ST	HAVERHILL MA	01830
459-2-13	100 ELLIOTT ST	COMMONWEALTH OF MASS	BOARD OF REG COMM COLL	100 ELLIOTT ST	HAVERHILL MA	01830
459-2-13A	KENOZA ST	CITY OF HAVERHILL		4 SUMMER ST	HAVERHILL MA	01830
441-1-1A	975 KENOZA ST	BEYMER DENNIS		975 KENOZA STREET	HAVERHILL MA	01830
441-1-2	171 AMESBURY RD	LELIS ALBERT P JR-ETAL	CROTEAU JENNIFER L	P.O. BOX 610	WINDHAM NH	03087
441-1-2A	947 KENOZA ST	ETHIER DONALD A ETUX	ETHIER JOY A	947 KENOZA ST	HAVERHILL MA	01830
441-1-2C	167 AMESBURY RD	FIRST CHURCH OF NAZARENE		167 AMESBURY RD	HAVERHILL MA	01830
441-1-4	6 SHATTUCK ST	GALLANT ERIC J ETUX	GALLANT PAULA A	6 SHATTUCK ST	HAVERHILL MA	01830
441-1-5B	189 AMESBURY RD	DESJARDINS MARK A ETUX	DESJARDINS CYNTHIA	189 AMESBURY RD	HAVERHILL MA	01830
441-1-5C	20 SHATTUCK ST	EDWARDS LEIGH A-ETAL	JONES KEVIN M	20 SHATTUCK ST	HAVERHILL MA	01830
441-1-5E	AMESBURY RD	TAKESIAN DAVID G		183 AMESBURY RD	HAVERHILL MA	01830
441-2-10	15 SHATTUCK ST	MOSES JOHN B		15 SHATTUCK STREET	HAVERHILL MA	01830
441-2-5	20 SUNRISE ST	LAW JR ROBERT C ETUX	LAW CARRIE A	20 SUNRISE ST	HAVERHILL MA	01830
441-2-6	10 SUNRISE ST	DANEAU BRIAN M-ETUX	DANEAU DEANNE L	10 SUNRISE ST	HAVERHILL MA	01830
441-2-7	4 SUNRISE ST	FOUR SUNRISE STREET RLTY TRU	TI VALHOULI MARIAN THE ETAL	4 SUNRISE ST	HAVERHILL MA	01830
441-2-8	11 SHATTUCK ST	PASTRANA DIANA		11 SHATTUCK ST	HAVERHILL MA	01830
441-2-9	13 SHATTUCK ST	MURPHY JR LAWRENCE D ETUX	MURPHY JENNIFER A	25 SHATTUCK ST	HAVERHILL MA	01830
441-3-1	45 SUNRISE ST	SCHMIDT FREDERICK W		45 SUNRISE ST	HAVERHILL MA	01830
441-3-14	35 SUNRISE ST	QUATRALE WANDA		35 SUNRISE ST	HAVERHILL MA	01830
441-3-15	865 KENOZA ST	BERGMAN ERIC D-ETUX	BERGMAN VIRGINIA M	865 KENOZA ST	HAVERHILL MA	01830
441-3-16	KENOZA ST	KENOZA STREET REALTY TRUS	BERGMAN PAUL A TRUSTEE	875 KENOZA ST	HAVERHILL MA	01830
441-3-17	875 KENOZA ST	875 KENOZA STREET RLTY TRU	S BERGMAN ANN MARIE TRUSTEE	875 KENOZA STREET	HAVERHILL MA	01830
441-3-18	25 SUNRISE ST	BERGMAN MARION F-LIFE EST.	BERGMAN PAUL A-ETAL	25 SUNRISE ST	HAVERHILL MA	01830
465-2-1	131 AMESBURY RD	CITY OF HAVERHILL	WATER WORKS DEPT	4 SUMMER ST	HAVERHILL MA	01830
465-2-1A	980 KENOZA ST	CITY OF HAVERHILL		4 SUMMER ST	HAVERHILL MA	01830