

ENF Environmental Notification Form

For Office Use Only
 Executive Office of Environmental Affairs

EOEA No.: 13211
 MEPA Analyst: Bill GAGE
 Phone: 617-626-1025

The information requested on this form must be completed to begin MEPA Review in accordance with the provisions of the Massachusetts Environmental Policy Act, 301 CMR 11.00.

Project Name: Limited Removal of Wetland Soil/Sediment and Restoration of Approximately 0.2 acres of Wetland.		
Street: 50 Fordham Road		
Municipality: Wilmington- with wetland in North Reading	Watershed: Ipswich	
Universal Transverse Mercator Coordinates:	Latitude: 42 33 38	Longitude: 71 08 10
Estimated commencement date: 3/1/04	Estimated completion date: 5/1/04	
Approximate cost: To be determined	Status of project design: 100	%complete
Proponent: TRC Environmental Corporation		
Street: 31 Milk Street, Suite 1104		
Municipality: Boston	State: MA	Zip Code: 02109
Name of Contact Person From Whom Copies of this ENF May Be Obtained: Paola Macchiaroli		
Firm/Agency: TRC	Street: 31 Milk Street, Suite 1104	
Municipality: Boston	State: MA	Zip Code: 02109
Phone: (617) 350-9997	Fax: (617) 350-3443	E-mail: paola@trcsolutions.com

- Does this project meet or exceed a mandatory EIR threshold (see 301 CMR 11.03)?
 Yes No
- Has this project been filed with MEPA before?
 Yes (EOEA No. _____) No
- Has any project on this site been filed with MEPA before?
 Yes (EOEA No. _____) No
- Is this an Expanded ENF (see 301 CMR 11.05(7)) requesting:
- a Single EIR? (see 301 CMR 11.06(8)) Yes No
 - a Special Review Procedure? (see 301 CMR 11.09) Yes No
 - a Waiver of mandatory EIR? (see 301 CMR 11.11) Yes No
 - a Phase I Waiver? (see 301 CMR 11.11) Yes No

Identify any financial assistance or land transfer from an agency of the Commonwealth, including the agency name and the amount of funding or land area (in acres): None

Are you requesting coordinated review with any other federal, state, regional, or local agency?
 Yes (Specify _____) No

List Local or Federal Permits and Approvals
 Order of Conditions, North Reading Conservation Commission (DEP File # 245 1029)
 401 Water Quality Certification, Major Project
 Army Corps Programmatic General Permit – Category II

Which ENF or EIR review threshold(s) does the project meet or exceed (see 301 CMR 11.03):

- | | | |
|---------------------------------|---------------------------------------|----------------------------------------------------------------------|
| <input type="checkbox"/> Land | <input type="checkbox"/> Rare Species | <input checked="" type="checkbox"/> Wetlands, Waterways, & Tidelands |
| <input type="checkbox"/> Water | <input type="checkbox"/> Wastewater | <input type="checkbox"/> Transportation |
| <input type="checkbox"/> Energy | <input type="checkbox"/> Air | <input type="checkbox"/> Solid & Hazardous Waste |
| <input type="checkbox"/> ACEC | <input type="checkbox"/> Regulations | <input type="checkbox"/> Historical & Archaeological Resources |

Summary of Project Size & Environmental Impacts	Existing	Change	Total	State Permits & Approvals
LAND				<input checked="" type="checkbox"/> Order of Conditions <input type="checkbox"/> Superseding Order of Conditions <input type="checkbox"/> Chapter 91 License <input checked="" type="checkbox"/> 401 Water Quality Certification <input type="checkbox"/> MHD or MDC Access Permit <input type="checkbox"/> Water Management Act Permit <input type="checkbox"/> New Source Approval <input type="checkbox"/> DEP or MWRA Sewer Connection/Extension Permit <input type="checkbox"/> Other Permits (including Legislative Approvals) – Specify:
Total site acreage	3.91 (N. Reading)			
New acres of land altered		0		
Acres of impervious area	0	0	0	
Square feet of new bordering vegetated wetlands alteration		9,637.8 s.f.		
Square feet of new other wetland alteration		0		
Acres of new non-water dependent use of tidelands or waterways		0		
STRUCTURES				
Gross square footage	0	0	0	
Number of housing units	0	0	0	
Maximum height (in feet)	0	0	0	
TRANSPORTATION				
Vehicle trips per day	0	NA	NA	
Parking spaces	0	0	0	
WATER/WASTEWATER				
Gallons/day (GPD) of water use	NA	NA	NA	
GPD water withdrawal	NA	NA	NA	
GPD wastewater generation/treatment	NA	NA	NA	
Length of water/sewer mains (in miles)	NA	NA	NA	

CONSERVATION LAND: Will the project involve the conversion of public parkland or other Article 97 public natural resources to any purpose not in accordance with Article 97?

- Yes (Specify _____) No

Will it involve the release of any conservation restriction, preservation restriction, agricultural preservation restriction, or watershed preservation restriction?

- Yes (Specify _____) No

RARE SPECIES: Does the project site include Estimated Habitat of Rare Species, Vernal Pools, Priority Sites of Rare Species, or Exemplary Natural Communities?

Yes (Specify _____) No

HISTORICAL /ARCHAEOLOGICAL RESOURCES: Does the project site include any structure, site or district listed in the State Register of Historic Place or the inventory of Historic and Archaeological Assets of the Commonwealth?

Yes (Specify _____) No

If yes, does the project involve any demolition or destruction of any listed or inventoried historic or archaeological resources?

Yes (Specify _____) No

AREAS OF CRITICAL ENVIRONMENTAL CONCERN: Is the project in or adjacent to an Area of Critical Environmental Concern?

Yes (Specify _____) No

PROJECT DESCRIPTION: The project description should include (a) a description of the project site, (b) a description of both on-site and off-site alternatives and the impacts associated with each alternative, and (c) potential on-site and off-site mitigation measures for each alternative (You may attach one additional page, if necessary.)

This Project involves the limited removal of wetland soil and restoration of approximately 0.2 acres of wetland at three Areas of Concern (AOC) located within onsite wetlands as shown on the attached Figure 2A (taken from the NOI, January 2004). Two areas are located at storm water outfalls 001 and 002 (Areas A and B), and the third area is located down-gradient of outfall 002 (Area C). This work is being conducted in accordance with the requirements of the Massachusetts Department of Environmental Protection (MA DEP) per the Massachusetts Contingency Plan (MCP) in order to eliminate risk posed by inorganic contaminants (e.g. copper, lead and zinc) to ecological receptors in the area. A no action alternative was considered for these AOCs. However, no action would allow risk to ecological receptors to persist. Therefore, MADEP has required the removal of these impacted sediments and wetland soils. It is estimated that the remedial excavation and restoration activities will take approximately 3 weeks to complete. In addition, in order to minimize impacts and maximize the potential for a rapid restoration of wetland flora and fauna, the work activities are anticipated to be conducted in late winter/early spring prior to the 2004 growing season. The Project will remove approximately one foot of soil within a 0.2-acre area (350 cubic yards); and restore the disturbed wetland area.

Wetlands Protection Act Performance Standards will be met through the following methods:

- There will be no permanent hydrological changes;
- Best Management Practices will be utilized;
- Mitigating measures will be employed to protect the interests of the Wetlands Protection Act;
- There will be no permanent loss of flood storage capacity;
- There will be no permanent obstruction to flow by access road, assessment, or monitoring devices;
- Temporary structures will be removed within 30 days of the completion of the work. Temporary alterations to resource areas will be substantially restored to preexisting topography and hydrology. The disturbed areas will exhibit 75% vegetated cover within two seasons. Exposed soils will be stabilized in accordance with USDA standards.

The following describes the general sequence of construction activity and mitigation measures proposed to reduce any potential adverse effects associated with the work activity.

Prior to excavation activities, hay bales and silt fence will be installed to control potential erosion and sedimentation and protect adjacent or down-gradient wetland areas. Traffic controls such as cones, caution tape and orange snow fence will be used to define the work and staging areas, the excavated soils, and the dewatering area. Construction equipment will be routed around the work zones.

The staging area for the construction trailer and equipment storage will be located on the existing parking lot. In

order to minimize the extent of adverse effects of equipment access on bordering vegetated wetland and buffer zone, two access points were identified during the course of the wetland delineation and site surveys. Temporary equipment access routes will be limited to a gravel road approximately twelve feet wide and 4-inches thick. Temporary access in the wetland will be accomplished with the use of "Swamp Mats" to ensure safe and stable operation of equipment and to avoid ruts and sedimentation. These swamp mats distribute the load of the equipment and decrease the bearing pressure, thereby allowing the equipment to work on the surface of the soils without sinking.

Minor cutting activities will take place in the buffer zone of the wetland. We anticipate that all hardwoods and shrub species will regenerate basal sprouts following the cutting.

Prior to excavation of Areas A and B, berms will be constructed at the outfall areas to create a sump from which storm water can be pumped and re-directed to a downstream wetland location during excavation activities. A berm will also be constructed at the downstream limit of contaminated sediments in order to prevent water from the surrounding wetland from draining back into the area of sediment removal. In order to facilitate the removal of sediments, the standing water within the bermed area will be removed and pumped through a particulate filter prior to discharge at a downstream location in the wetland. Water will be pumped at a maximum rate of 50 gallons per minute. Engineering controls will be utilized to dissipate the energy of the water and prevent soil erosion or other disturbance of the wetland.

Prior to excavation of Area C, an "excavation containment berm" will be constructed around Area C in order to contain potentially sediment-laden water from leaving the excavation, and to prevent surrounding wetland water from draining back into the excavation. In order to facilitate the removal of soil, the standing water within the bermed area will be removed and pumped through a particulate filter prior to discharge at a downstream location in the wetland. Engineering controls will be utilized to dissipate the energy of the water and prevent soil erosion.

With erosion and sedimentation controls and dewatering provisions installed and functional, the top 12 inches of wetland soil will be excavated and transferred to the Excavated Material Staging Area for dewatering. Methods for sediment and soil dewatering/handling may include, but are not limited to "Filter Boxes", stockpiling in a temporary bermed area, and stabilizing with reagent. All water that is collected by the dewatering procedures will be transferred to a temporary holding tank (frac tank) to be located outside of the 100-foot buffer zone. This will allow for additional settling of sediment. It will then be transferred by pump through particulate filters to remove any remaining suspended sediment, and routed to the existing on-site groundwater treatment system.

The wetland restoration plan for the project has the goal of restoring the wetland with similar functional attributes of the undisturbed adjacent wetland. It is proposed that the planting of the wetland restoration area will take place in the early spring and that all wetland plant nursery stock and seed mix will be selected on basis of the existing vegetation species composition and density of the adjacent wetland. The restored wetland grade will be determined by an onsite pre-construction ground survey that will identify the appropriate base depth of the wetland with respect to hydrology. Wetland soil replacement will replicate the existing hummock-hollow topography observed throughout the wetland. In addition to the creation of the hummocks, decomposed woody debris will be placed in the wetland restoration area, to provide structure composition and germination substrate for plant species and potential wildlife habitat. The seed mix will be applied using a hydro-seeder in the early spring. Once the seed has been applied, a light mulch of clean straw mulch will be applied to the restoration surface.

A post-construction monitoring program of the restored wetland area for a period of two years is proposed to ensure that the area is responding positively to the restoration efforts, and to take measures to correct or enhance the area, if needed.

For a more detailed project description, including existing wetland community, best management practices, wetland planting plan, and post-construction monitoring plan, please see the attached Notice of Intent filed in North Reading, MA.