

# Environmental

# Notification Form

# ENF

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.

*For Office Use Only*  
Executive Office of Environmental Affairs  
EOEA No.: 13288  
MEPA Analyst: Bill GAGE  
Phone: 617-626-1025

Project Name: <b>Shawmut Avenue Landfill Phase III Landfill Closure Project</b>		
Street: <b>Shawmut Avenue</b>		
Municipality: <b>New Bedford</b>	Watershed: <b>Buzzards Bay</b>	
Universal Transverse Mercator Coordinates: <b>19 03 37 188E 46 14 149N</b>	Latitude: <b>41 39' 51.07"N</b>	Longitude: <b>70 57' 20.36"W</b>
Estimated commencement date: <b>Sept. 1 2004</b>	Estimated completion date: <b>Nov. 1 2004</b>	
Approximate cost: <b>\$400,000</b>	Status of project design: <b>80% complete</b>	
Proponent: <b>City of New Bedford</b>		
Street: <b>133 William Street</b>		
Municipality: <b>New Bedford</b>	State: <b>MA</b>	Zip Code: <b>02740</b>
Name of Contact Person From Whom Copies of this ENF May Be Obtained: <b>Dwight R. Dunk, PWS</b>		
Firm/Agency: <b>CDM, Inc.</b>	Street: <b>50 Hampshire Street</b>	
Municipality: <b>Cambridge</b>	State: <b>MA</b>	Zip Code: <b>02139</b>
Phone: <b>617-452-6000</b>	Fax: <b>617-452-8000</b>	E-mail: <b>dunkdr@cdm.com</b>

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. 7537)  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): N/A

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

List Local or Federal Permits and Approvals: ACOE PGP II, Notice of Intent, EPA Toxicity Substance Control Act, Cap Plan Approval (EPA) NPDES Construction General Plan.

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

- Land
- Water
- Energy
- ACEC

- Rare Species
- Wastewater
- Air
- Regulations

- Wetlands, Waterways, & Tidelands
- Transportation
- Solid & Hazardous Waste
- Historical & Archaeological Resources

Summary of Project Size & Environmental Impacts	Existing	Change	Total	State Permits & Approvals
<b>LAND</b>				<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 checked="" type="checkbox"/> Other Permits (including Legislative Approvals) – Specify:  <u>Solid Waste Approvals-Corrective Action</u> <u>Design, Comprehensive Site Assessment</u>
Total site acreage	3 acres*			
New acres of land altered		0.6 acres		
Acres of impervious area	0	0	0	
Square feet of new bordering vegetated wetlands alteration		29,120 s.f. (perm.) 7,400 s.f. (temp.)		
Square feet of new other wetland alteration		0		
Acres of new non-water dependent use of tidelands or waterways		N/A		
<b>STRUCTURES</b>				
Gross square footage	N/A	N/A	N/A	
Number of housing units	N/A	N/A	N/A	
Maximum height (in feet)	N/A	N/A	N/A	
<b>TRANSPORTATION</b>				
Vehicle trips per day	N/A	N/A	N/A	
Parking spaces	N/A	N/A	N/A	
<b>WASTEWATER</b>				
Gallons/day (GPD) of water use	N/A	N/A	N/A	
GPD water withdrawal	N/A	N/A	N/A	
GPD wastewater generation/treatment	N/A	N/A	N/A	
Length of water/sewer mains (in miles)	N/A	N/A	N/A	

\* Phase III area is 3 acres, total Shawmut Avenue landfill area is 62 acres.

**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

The project site abuts an area labeled WH 1111 on the Estimated habitats map and PH 1616 on the Priority Habitats Map. Based on review of the Natural Heritage and Endangered Species Program Natural Heritage Atlas 11<sup>th</sup> edition dated July 1, 2003. The proposed work for the project will take place in the vicinity of estimated habitat identified for Spotted Turtle (*Clemmys guttata*) and Eastern Box Turtle (*Terrapene carolina*). A letter was sent to the Massachusetts Natural Heritage and Endangered Species Program (NHESP) on March 23, 2004 requesting review. Correspondence will be forwarded upon receipt.

**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

Based on review of the 2002 State Register of Historic Places, there are no listings of historic sites or structures within the project area. A letter was sent to the Massachusetts Historical Commission on April 19, 2004 requesting review. Correspondence will be forwarded to MEPA upon receipt.

**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.)

**(a) Project and Site Description:** The Shawmut Avenue Landfill, Phase III Landfill Capping Project involves the final closure of the polychlorinated biphenyls (PCB) capacitor area of the Shawmut Avenue Landfill site in accordance with an Administrative Consent Order between the City of New Bedford (the City) and EPA. The purpose of this project is to cap a portion of the landfill contaminated by PCBs and to relocate and dispose of contaminated soils from a 7,400 sq. ft. area northeast of the capacitor area (Phase III) landfill under the proposed cap.

The Shawmut Avenue Landfill site covers a 62-acre area of which 55 acres were used for landfill operations. The landfill is located off Shawmut Avenue near the intersection of Interstate 195 and Route 140 and the New Bedford Municipal Airport. Figure 1 presents the Project Location Map. The landfill site is owned by the City and is managed by the City Department of Public Works. The Phase III landfill site is an approximately 3 acre portion of the landfill and is located to the east of the main body of the existing landfill. Wetlands surrounding the capacitor pile were delineated on September 3, 1999. The wetland delineations located on Sheet C-1 were previously reviewed and approved by the New Bedford Conservation Commission for the Interim Material Stockpiling Notice of Intent (NOI) (DEP File No. SE49-427). An Order of Conditions was issued for that NOI on June 27, 2003. This

project will require the filling of approximately 29,120 sq. ft. of BVW to cap contaminated soils. Two on-site replication areas are proposed totaling approximately 28,750 sq. ft. This is the maximum extent practicable on this site and correlates to an approximate 1:1 ratio of replication wetlands to lost wetlands.

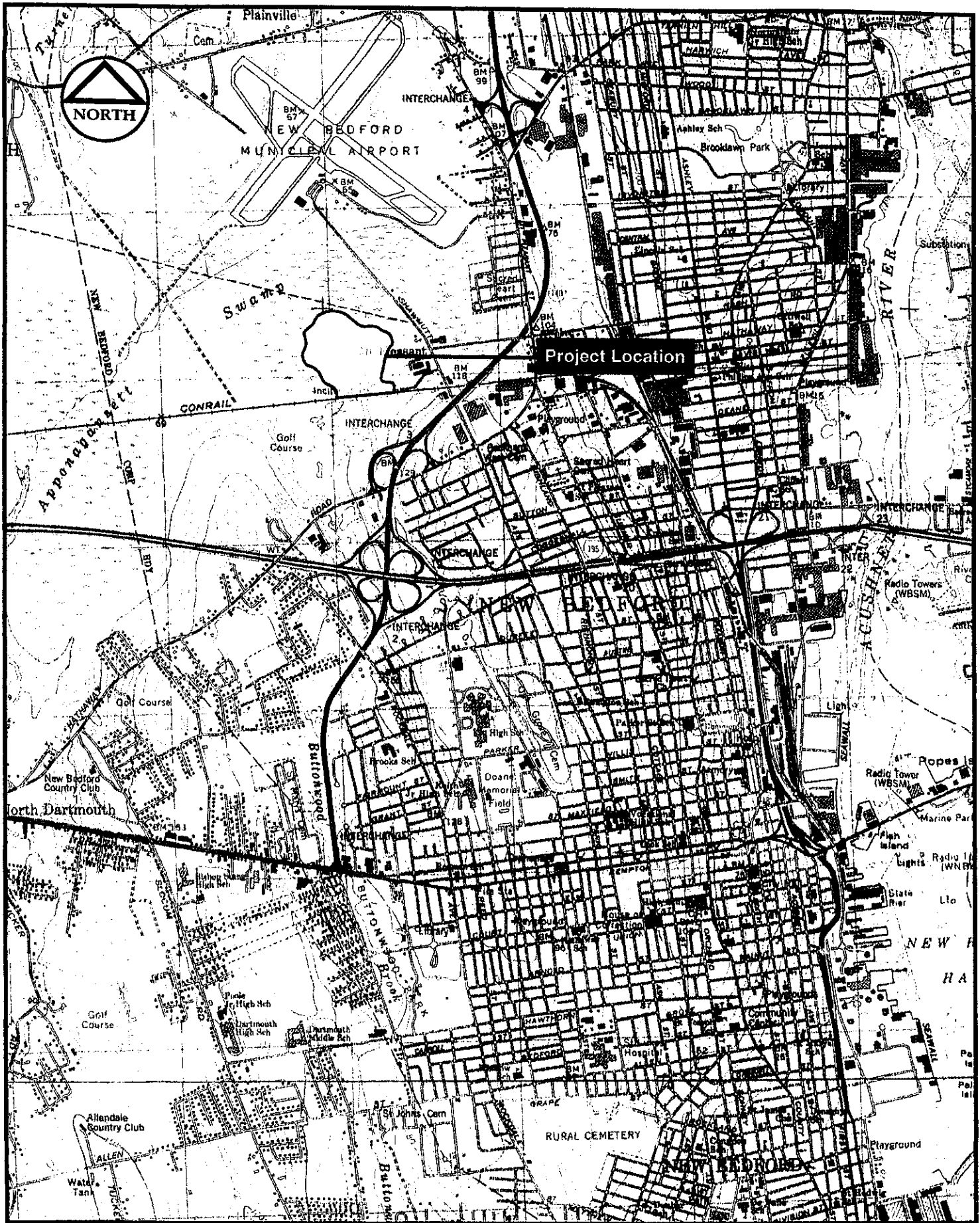
An approximately 7,400 sq. ft. area of wetland from which PCB contaminated soils will be removed is located immediately east of the Shawmut Avenue Landfill and northeast of the Phase III landfill. This temporary wetland alteration area will be restored in place.

**(b) Alternatives:** The City has completed the environmental assessment for the landfill site. The conclusions of that assessment is that capping of the site with an impervious cap pursuant to the Mass. DEP Solid Waste Management Regulations (310 CMR 19.000) is appropriate for regulatory compliance and protection of human health, safety and the environment. Potential alternatives to remediate this site are: 1) the “no action” alternative, 2) excavation of all contaminated soils containing 1 part per billion (ppb) or greater of PCBs, or 3) use of imported soils to fill and shape the area with a soil cap.

Because of the various regulatory and enforcement programs that are in-place at the site, the no-action alternative was not considered a viable option for this project and therefore was rejected from further consideration. Excavation of all soils containing 1 ppb of PCBs is not financially viable. The alternative of using imported soils to shape and cover the area with a soil cap does not conform to the landfill capping standards set forth in 310 CMR 19.000. The final alternative considered was an impervious cap per DEP regulations. Although this option requires filling approximately 29,120 s.f. of Bordering Vegetated Wetland (BVW), it is the only option listed above that meets the project goal of isolating PCB contamination from the environment and also meets regulatory requirements. Contaminants will be contained within the capped area and will not leach out of the landfill, thus isolating the PCB contaminated material from the environment.

**(c) Mitigation Measures:** This Project was designed to close and cap the Phase III Landfill in accordance with appropriate state and federal requirements. Through proposed wetland replication and restoration areas on-site, wetland mitigation has been maximized to the extent practicable and approaches a 1:1 ratio of replicated to fill wetland.

This project is being filed with the MEPA unit because remediation of a PCB contaminated area at the Shawmut Avenue Landfill will require the alteration of more than 5,000 sq. ft. of BVW per 310 CMR 11.03(3)(b)(1.d). To minimize the need for dewatering, excavation will be performed during periods of low flow to minimize water headloss and associated potential impacts to the greatest extent possible. Appropriate erosion and sedimentation control measures will be implemented until the area is stabilized. To mitigate for the filling of approximately 29,120 sq. ft. of BVW to cap contaminated soils, two replication areas totaling approximately 28,750 sq. ft. are proposed. This represents the maximum practicable extent of mitigation/replication available at this site. A more detailed discussion of the project and proposed mitigation measures is presented in the ENF sections.



City of New Bedford, Massachusetts  
Shawmut Avenue Landfill

**Figure 1**  
Project Location Map

**CDM**