

**State of Connecticut, Department of Public Health
Drinking Water Section, Drinking Water State Revolving Fund (DWSRF)
ENVIRONMENTAL ASSESSMENT SUMMARY**

Date: February 6, 2013		Staff Contact: Cam Walden
Applicant PWS Name: Meriden Water Division		Town: Meriden
DPH DWSRF Project #: 2010 0117		PWSID: CT0800011
Project Name: Broad Brook WTP & Pump Station Improvements		
Funding Source: Drinking Water State Revolving Fund (DWSRF)		
State Funds: \$ 14,600,000.00		

This assessment is being conducted in conformance to the generic Environmental Classification Document for Connecticut state agencies to determine Connecticut Environmental Policy Act (CEPA) obligations

Project Description: The project within the Broad Brook Water Treatment Facility consists of replacement of the following components: sedimentation basins, filters, and chemical feed systems. The project also includes the installation of high efficiency motors and an emergency generator, modifications to the HVAC, and SCADA and laboratory upgrades. The work within the Broad Brook Pump Station consists of replacement of pumps, valves, motors and HVAC upgrades.

Regulations of Connecticut State Agencies (RCSA) Section 22a-1a-3 Determination of environmental significance (direct/indirect)

1. Impact on air and water quality or on ambient noise levels
 - a. Air Quality – The proposed project is not expected to cause significant adverse air quality effects.
 - b. Water Quality - The proposed project is not expected to cause significant adverse water quality effects to the adjacent watercourses.
 - c. Ambient Noise Levels - The proposed project is not expected to cause significant noise in the immediate area;
2. Impact on a public water supply or serious effects on groundwater, flooding, erosion, or sedimentation
 - a. Water Supply - The water treatment facility is located on a parcel in the Town of Cheshire which includes Class I and II water company land associated with the Broad Brook Reservoir. The parcel also includes Class III water company land as defined in Connecticut General Statutes Section 25-37b. The Meriden Water Division should consult with the Department of Public Health Drinking Water Section's Source Water Protection Unit concerning potential water company land permitting requirements should any work be proposed within the Class I or II water company land.

- b. Groundwater - The proposed project is not expected to cause significant impacts to neighboring groundwater.
- c. Flooding - Portions of the water treatment facility, including two of the lagoons, are within the 100-year flood zone on the community's Flood Insurance Rate Map. If any project elements are within the 100-year flood zone, they must be certified as being in compliance with flood and storm water management standards specified in section 25-68d of the Connecticut General Statutes (CGS) and section 25-68h-1 through 25-68h-3 of the Regulations of Connecticut State Agencies (RCSA) and receive approval from the Department of Energy and Environmental Protection (DEEP) Inland Water Resources Division.

The flood management certification requirement will be discussed with the project consultant (Black & Veatch) and Meriden Water Division. The DPH will submit the completed documentation form for flood management certification to DEEP and approval will be obtained prior to starting the project construction.

- d. Erosion or Sedimentation - A soil management plan should be developed for the project to deal with soil erosion during construction.
3. Effect on natural land resources and formations, including coastal and inland wetlands, and the maintenance of in-stream flows – No significant impact expected.
 4. Disruption or alteration of an historic, archeological, cultural or recreational building, object, district, site or surroundings - No significant impact expected.
 5. Effect on natural communities and upon critical species of animal or plant and their habitats - interference with the movement of any resident or migratory fish or wildlife species - The Natural Diversity Data Base, maintained by DEEP, contains no records of extant populations of Federally listed endangered or threatened species or species listed by the State, pursuant to section 26-306 of the CGS, as endangered, threatened or special concern at either project area.
 6. Use of pesticides, toxic or hazardous materials or any other substance in such quantities as to create extensive detrimental environmental impact - No significant impact expected.
 7. Substantial aesthetic or visual effects - The project is not expected to cause substantial aesthetic or visual impacts in the area.
 8. Inconsistency with the written and/or mapped policies of the statewide Plan of Conservation and Development and such other plans and policies developed or coordinated by the Office of Policy and Management or other agency - No significant impact expected.
 9. Disruption or division of an established community or inconsistency with adopted municipal or regional plans- No significant impact expected.
 10. Displacement or addition of substantial numbers of people - No significant impact expected.

11. Substantial increase in congestion (traffic, recreational, other) – The proposed project is not expected to create substantial traffic congestion in the area.
12. A substantial increase in the type or rate of energy use as a direct or indirect result of the action - No significant impact expected.
13. The creation of a hazard to human health or safety - The project is not expected to create significant public hazard and safety.
14. Any other substantial impact on natural, cultural, recreational or scenic resources - No significant impact expected.

Conclusions:

Based on DPH's environmental assessment of this project which includes the comments provided by the Department of Energy & Environmental Protection (DEEP) dated December 9, 2011, and the DPH Drinking Water Section's Source Water Protection (SWP) Unit dated December 8, 2011, it has been determined that the proposed project does not require the preparation of Environmental Impact Evaluation under CEPA. The DPH will coordinate the project with the Meriden Water Division to ensure that the DEEP's and the DPH's recommendations will be implemented. Copies of comments from the DEEP and DPH during the public scoping period for this project are attached.

Recommendations:

Prior to starting the project construction, the following best management practices should be considered:

1. **Construction Maintenance:** No construction should take place before erosion and sedimentation controls are installed. These controls should be properly installed, maintained, inspected regularly, and remain in place until the project construction is completed. During construction and until a vegetative cover is reestablished, the project area should be inspected daily and after rainfall to verify erosion control measures are properly functioning. Any defects on the structure must be immediately repaired.
2. **Emergency Response Plan:** Develop an Emergency Spill Response Plan before construction begins. Spill response equipment should be available on-site at all times along with personnel trained in the proper use of such equipment.
3. **Hazardous Materials Storage:** Hazardous materials should be removed from the site during non-work hours or otherwise stored in a secure area to prevent vandalism. Place covered trashcans and recycling receptacles around the site. Cover and maintain dumpsters. Check frequently for leaks. Place dumpsters under a roof or cover with tarps or plastic sheeting. Never clean a dumpster by hosing it down on site.

4. **Vehicles and Machinery:** Methods and locations of refueling, servicing, and storage of vehicles and machinery should be addressed and included as notes on the final site plans. All equipment fueling or minor repairs should occur on a fueling pad. Onsite fuel storage for heavy equipment should have containment and be located in a secure area where it will not be vandalized or struck by equipment or vehicles on the job site.