



# Project Memo - Level I Site Alteration Application

---

Portland Public Works – Water Resource

**To:** Barbara Barhydt, Development Review Services Manager

**From:** Justin Pellerin, P.E. Project Engineer

**Date:** February 22, 2017

**Re:** Woodford Street Storm Drain Outfall into Back Cove

## Project Need / Description

The City of Portland has been implementing a multi-year Combined Sewer Overflow (CSO) Long Term Control Plan (LTCP) since the original LTCP prepared by CH2M Hill was submitted and approved by the State in 1993. We are now implementing what is termed the “Tier III” action plan. A number of specific abatement projects are completed and some are currently under construction or design, with more programmed to be completed over the coming years.

The referenced project is being undertaken to comply with the requirements laid out in our Tier III action plan. The plan identified the a sewer separation project of State Street, State Street Extension and parts of Forest Avenue and High Street extension as projects that would be required to mitigate CSO activity at CSO 17 which outfall into Back Cove just to the south of the Back Cove Trail parking area. The project will separate approximately 145 acres of watershed area.

The City of Portland has hired the firm of Gorrill Palmer to produce design plans and construction documents for construction to be started late this spring. As such we are looking to bid the project in March of 2017. Per our tier III action plan this project is to be completed as soon as possible.

The City of Portland is also under a timing restriction with the Maine Department of Marine Resources to complete all construction activity within Back Cove by July 15, 2017 making the time for the start of the project critical to the bidding process in Mid-March.

The project involves the installation of an 84” storm drain outfall into Back Cove. The storm drain will run across the back cove trail and park and turn onto Preble street extension towards the 295 overpass. Once the storm drain is complete across this area, the surfaces will be put back together as they currently exist. As part of the project, the storm drain will run across the existing Deering Oaks gravel parking lot near the castle building. In conjunction with the parks and recreation department’s desires to improve the parking area, our design consultant has designed a new parking area which will feature pervious paver green infrastructure parking stalls to treat the stormwater runoff generated by the parking area, along with pavement and permanent striped parking lines. This ancillary part of the

project is currently undergoing historic preservation review. The project is also looking at implementing traffic calming measures and pedestrian improvements where the Deering Oaks road merges with State Street extension. This application is for a level one site alteration for the construction of the 84” storm drain outfall into back cove to ensure that the project complies with the shore land zone requirements.

As part of the project DPW was required to submit a National Resource Protection Act (NRPA) permit by rule application to the Maine DEP for the construction of the storm drain outfall. The permit is attached with this submission. The outfall location has been identified as a tidal wadding zone for birds. The Department of Public Works was required to notify the department of Marine Resources and receive timing approval associated with installation of the outfall. The DMR timing approval is attached with this submission. DPW was also required to submit a Category 2 Army Corp of Engineers permit for work to be done in tidal and inland wetland areas. DPW will adhere to any environmental timing restrictions required for the project.

#### General Written Submissions Checklist

Please see the attached items

1. Evidence of right, title and interest – being developed by City or Portland Corporation Counsel
2. Evidence of state and/or federal approvals – see attached for following:
  - a. Army Corp of Engineer Maine General permit application
  - b. Maine Natural Resource Protection Act Permit By Rule Application and permit
  - c. Maine Department of Marine Resources timing approval
  - d. State Revolving Loan Fund- Environmental Review- Application submitted.
3. Written assessment of proposed project’s compliance with applicable zoning requirements – efforts have been made to place the new storm drain adjacent to the existing twin 84” CSO outfall pipes thus minimizing the impact to the tidal zones of Back Cove. The project outfall falls within a ROS recreational and open space zone. The project will adhere to requirements of this land use zone.
4. Flood Plain: The proposed storm drain with discharge into a FEMA Flood plain AE zone. The AE zone elevation is 10.00. The storm-drain outfall will be set below this elevation at -4.10. The storm drain outfall is being installed with a tide-flex gate to prohibit tidal waters from surcharging the upstream storm drain system.
5. Summary of existing or proposed easements, covenants, public or private rights-of-ways, or other burdens on the site:
  - a. Land Bank Commission - determination of exemption of approval by the Land Bank Commission due to being a state mandated project.
  - b. Portland Historical Preservation – Have public meeting scheduled with H.P. board for Feb. 22. Early meetings with H.P. have indicated that there is no issue with the 84” storm drain outfall into back cove. The initial H.P. report is attached to this application.
6. There are no requests for waivers.
7. Evidence of financial and technical capacity: On the City’s FY18 CIP list.
8. Boundary survey – see attached Plan Sheet 12.
9. Preliminary Site Plan – see attached Plan Sheet 12.

