

IMPLEMENTATION PLAN

10.1 PROJECT SCHEDULE

The preliminary project schedule for the proposed Barton GSI project is summarized in Table 10.1. The preliminary project schedule for the proposed Murray project is summarized in Table 10.2.

| Table 10.1 Preliminary Project Schedule for Proposed Barton CSO Project | |
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| Activity | Anticipated Dates |
| Facility Plan Development | November 2010 – December 2010 |
| State Environmental Policy Act Threshold Determination | April 2011 |
| Facility Plan Approval | June 2011 |
| Permitting | June 2011 – September 2012 |
| Final Design Consultant Selection | January 2011 – August 2011 |
| Final Design | September 2011 – October 2012 |
| Construction | October 2013 – September 2015 |
| Commissioning | November 2015 – January 2017 (2 wet seasons) |

| Table 10.2 Preliminary Project Schedule for Proposed Murray CSO Project | |
|--|---|
| Activity | Anticipated Dates |
| Facility Plan Development | November 2010 – December 2010 |
| State Environmental Policy Act Threshold Determination | April 2011 |
| Facility Plan Report Approval | June 2011 |
| Property Acquisition | June 2011 – September 2012 |
| Permitting | June 2011 – September 2012 |
| Final Design Consultant Selection | January 2011 – September 2011 |
| Final Design | September 2011 – December 2012 |
| Construction | March 2013 – August 2015 |
| Commissioning | October 2015 – May 2016 (2 wet seasons) |

10.2 REQUIRED PERMITS

The following construction-related permits are anticipated for the proposed Barton CSO project:

- Washington Department of Ecology:
 - NPDES Construction Stormwater General Permit.
- Seattle Department of Transportation:
 - Street Use Permit.
 - Street Improvement Permit.

The following construction-related permits are anticipated for the proposed Murray CSO project:

- Washington Department of Ecology:
 - NPDES Construction Stormwater General Permit.
- Revision of West Point NPDES Operating Permit # WA-002918-1
- Seattle Department of Planning and Development:
 - Master Use Permit:
 - i) Shoreline Permit
 - ii) Clear and Grade Permit
 - iii) Demolition Permit
 - iv) Construction Permit
 - v) City Council Conditional Use Approval
- Seattle Department of Transportation:
 - Street Use Permit.
 - Utility or Street Improvement Permit.
- King County:
 - Industrial Waste Discharge Permit.
- Puget Sound Clean Air Agency:
 - Air Quality Permit.

Environmental review will be completed for the proposed project in accordance with the State Environmental Policy Act (SEPA) and State Environmental Review Process (SERP)

10.3 NEXT STEP RECOMMENDATIONS

The following items are recommended as initial next steps in the implementation of the Barton GSI alternative:

- Contributing Area Analysis – Conduct block scale field reconnaissance and flow monitoring to refine assumptions made regarding the amount of runoff contributed by the study area (right-of-way only vs parcel plus right-of-way).
- Modeling – During design, consider using an EPA-SWMM or other appropriate network basin model that is suitable for GSI implementation on a block scale which can take in to account the routing of each block.
- Location Selection – Selection of rain garden locations should start with a detailed in-field assessment of the locations identified on the Location Feasibility Map (See Appendix A - Overview Update Report, November 22, 2010, SvR Design Company). Location assessment should be prioritized starting with the most feasible locations. The following considerations should be taken in to account;
 - Planting strip longitudinal slope;
 - Variations in projected subsurface soil infiltration rates and in-field infiltration tests;
 - Parking constraints;
 - Existing utility services and mature trees to preserve in the planting strip;
 - Adjacent property owner/occupant acceptance;
 - The presence of disconnected downspouts within the block and Seattle’s Rainwise program implementation;
 - Pedestrian, bike and vehicle traffic safety issues such as sight lines.
- Develop and implement a public involvement and outreach plan throughout the design and construction phases of the project.

The following items are recommended as initial next steps in the implementation of the Murray 1F Storage Alternative:

- Conduct field geotechnical investigation to obtain site specific geotechnical data to confirm shoring and foundation requirements.
- Determine additional footprint requirements to provide standby power and odor control capacity for the Murray Pump Station from the storage facility site.
- Confirm existing overflow weir elevations within the Murray Pump Station in order to verify maximum allowable water surface elevation within the storage facility (elevations are shown from record drawings, but it is recommended they be field verified during site survey).
- Develop and implement a public involvement and outreach plan throughout the design and construction phases of the project.