# Method 11: Seawall Repair and Maintenance

**Project Title:**

**Project CIP Number:**

*See Section 3 of the SBE, Method* ***11A*** *and* ***11B*** *for a complete description of the activity and conservation measures for this method. You need this information to fill out this form.*

**A, Remove and replace damaged concrete, wood, or steel**

1. Identify the type of seawall where maintenance will occur:

Pre-cast concrete face panels resting on steel piles driven into underlying sediment

Pre-cast concrete face panels resting on steel sheet piles that extend up through the intertidal water column.

Timber-pile-supported unreinforced concrete gravity wall.

Concrete-pile-supported reinforced concrete sidewalk frame wall.

Concrete face panels and support columns

1. What type of facing will be repaired?

Concrete

Steel

Wood

1. Size of seawall to be repaired?
2. Will damaged concrete be removed:  No  Yes, if yes, how will it be removed?

Jack-hammer

Air driven chipping gun

Other:

1. Will wooden panels be removed from the seawall?  No  Yes
2. Type of wood:

Ekki

Other:

1. Upon removing any panels or portions of the seawall, will any fill behind the seawall fall into marine waters?  No  Yes If so, how much?
2. Provide additional information:

**B. Backfilling of voids in seawall**

1. Will backfilling of voids be needed during maintenance of the seawall?  No  Yes

2. Quantity of fill needed?

3. Provide additional information:

**C. Cathodic protection and electronic monitoring system maintenance**

1. Identify the work that will be conducted:

Replacement of anode(s)

Replacement of conduits

1. Provide additional information:

**D. Riprap repair**

1.Will riprap be replaced along the seawall?  No  Yes, if yes, fill out SPIF for Method 7F.

**Conservation Measures**

The following table contains the conservation measures identified for Method 11A and 11B. The table only provides a brief summary of the conservation measures. Please see Section 4 of the SBE for a complete description of each conservation measure. To get programmatic coverage by the Corps and Services for projects using this method, all conservation measures identified below must be included with the project (see Section 10 of the SBE). If, for some reason, a conservation measure is not applicable, or will not be used, you MUST provide a reason the conservation measure is not applicable or will not be used in the “Provide additional information” section below. Provide any additional conservation measures that may be implemented but are not listed. These may be found in Section 4: Conservation Measures of the SBE or in the City Standard Specifications.

| **Conservation Measures** | **Description** | **Included in**  **Project?** |
| --- | --- | --- |
| 1 | Approved work windows |  |
| 3 | Onsite Spill Prevention and Control Plan |  |
| 4 | Maintain a spill kit onsite |  |
| 15 | Clean equipment that will work below the OHW or MHHW lines or in riparian or shoreline areas |  |
| 16 | Fuel equipment in staging areas |  |
| 17 | Onsite oil absorbing floating booms |  |
| 18 | Use vegetable-based hydraulic fluid when equipment operates in sensitive areas |  |
| 27 | Place erosion and water quality control devices prior to beginning of work |  |
| 28 | If mechanized equipment is used within the OHW or MHHW, only an extension arm with bucket or similar attachment shall enter the water. Conduct debris removal and work below OHW or MHHW during low water levels (fresh waters) or at low tide (marine waters) |  |
| 29 | Confine use of equipment operating below OHW or MHHW to designated access corridors |  |
| 57 | Perform all work in the dry when possible |  |
| 58 | Conduct work during minus tides or low water levels |  |
| 59 | Use clean, washed material |  |
| 61 | Equipment and materials are mobilized to and from the site via upland access or construction barge |  |
| 62 | Do not ground or rest construction barge on substrate or on vegetation |  |
| 65 | Retrieve and remove debris that enters waterbody |  |
| 74 | Cover riprap with habitat mix to fill voids |  |

Please provide any additional information on Conservation Measures used or not used for this Method: