

MEMORANDUM FOR: RECORD

June 30, 2016

SUBJECT: TIER 1 DETERMINATION REGARDING THE SUITABILITY OF PROPOSED DREDGED MATERIAL FROM ASH GROVE CEMENT, DUWAMISH RIVER, WASHINGTON.

- 1. Introduction.** This memorandum reflects the consensus determination of the Dredged Material Management Program (DMMP) agencies (U.S. Army Corps of Engineers, Washington State Department of Ecology, Washington State Department of Natural Resources, and the Environmental Protection Agency) regarding the testing status and suitability of up to 600 cubic yards (cy) of dredged aggregate material from Ash Grove Cement.
- 2. Project History and Background.** Ash Grove Cement has been manufacturing cement at its facilities on the Duwamish River since the 1920's. Aggregate is brought in by barge and unloaded onto a conveyor belt system that carries the aggregate to the onshore manufacturing plant. Spillage off the conveyor belt occurs and aggregate builds up on the riverbed, decreasing the navigable water depths at the barge dock. Since approximately 2003, dredging has occurred approximately every two years to remove the spilled aggregate and restore the project to its operating depth of -25 ft MLLW.

Ash Grove Cement is located along the Duwamish Waterway (see **Sheet 1**), within the northern extent of the Lower Duwamish Waterway Superfund Site (LDW). Sampling as part of the RI/FS has indicated that the sediments in the area are likely contaminated, therefore all previous dredging events have required a minimum 1 ft. buffer of aggregate be left in place to isolate the potentially contaminated riverine sediments from the environment.

- 3. Proposed project.** Ash Grove Cement is currently proposing a one-time maintenance dredging event to remove spilled aggregate and restore the area to its operating depth of -25 ft MLLW. See **Sheets 2 through 4** for project details. The dredged aggregate will be dewatered on a barge and re-used on site to make cement. A minimum 1 ft. buffer of aggregate will be left in place to isolate contaminated sediments from the water column.
- 4. Tier 1 Determination.** The DMMP agencies reviewed the project information and determined that chemical testing of the aggregate material is not required. The material is being taken upland (re-used on site). Since a minimum 1 foot layer of aggregate will be left in place, there is no concern that the sediment surface exposed after dredging will be degraded relative to the currently exposed surface.

This determination does **not** constitute final agency approval of the project. During the public comment period that follows a public notice, resource agencies will provide input on the overall project. A final decision will be made after full consideration of agency input, and after an alternatives analysis is done under section 404(b)(1) of the Clean Water Act.

6. Signatures.

The signed copy is on file in the Dredged Material Management Office

Date Kelsey van der Elst - Seattle District Corps of Engineers

Date Erika Hoffman - Environmental Protection Agency

Date Laura Inouye, Ph.D. - Washington Department of Ecology

Date Celia Barton - Washington Department of Natural Resources

Copies furnished:

DMMP signatories

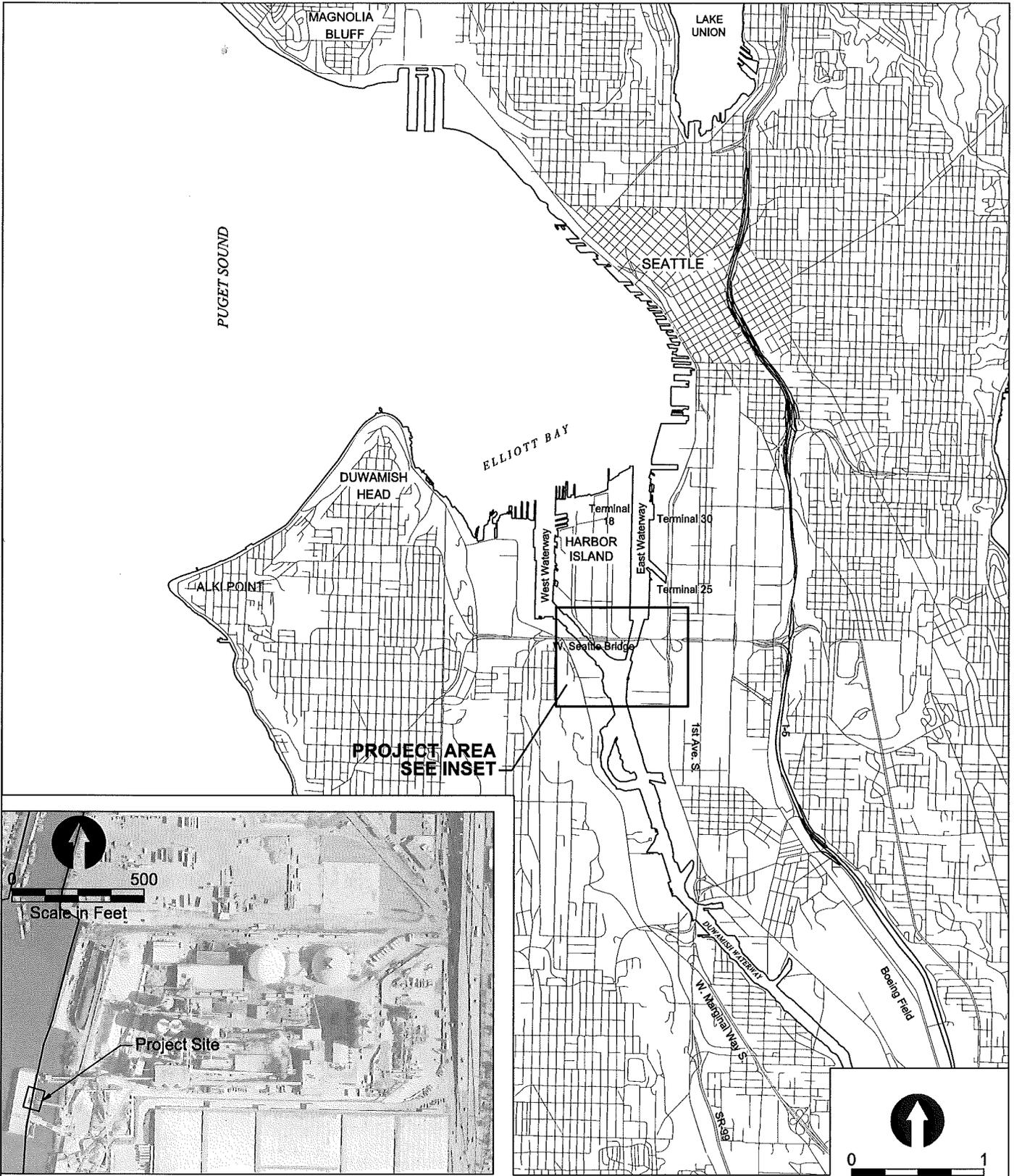
Darren Habel, USACE Regulatory Project Manager

Elly Hale, US EPA RPM for LDW Site

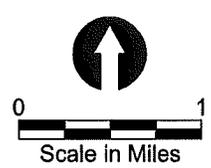
Jason McKinney, Anchor QEA

Mike Begley, Ash Grove Cement

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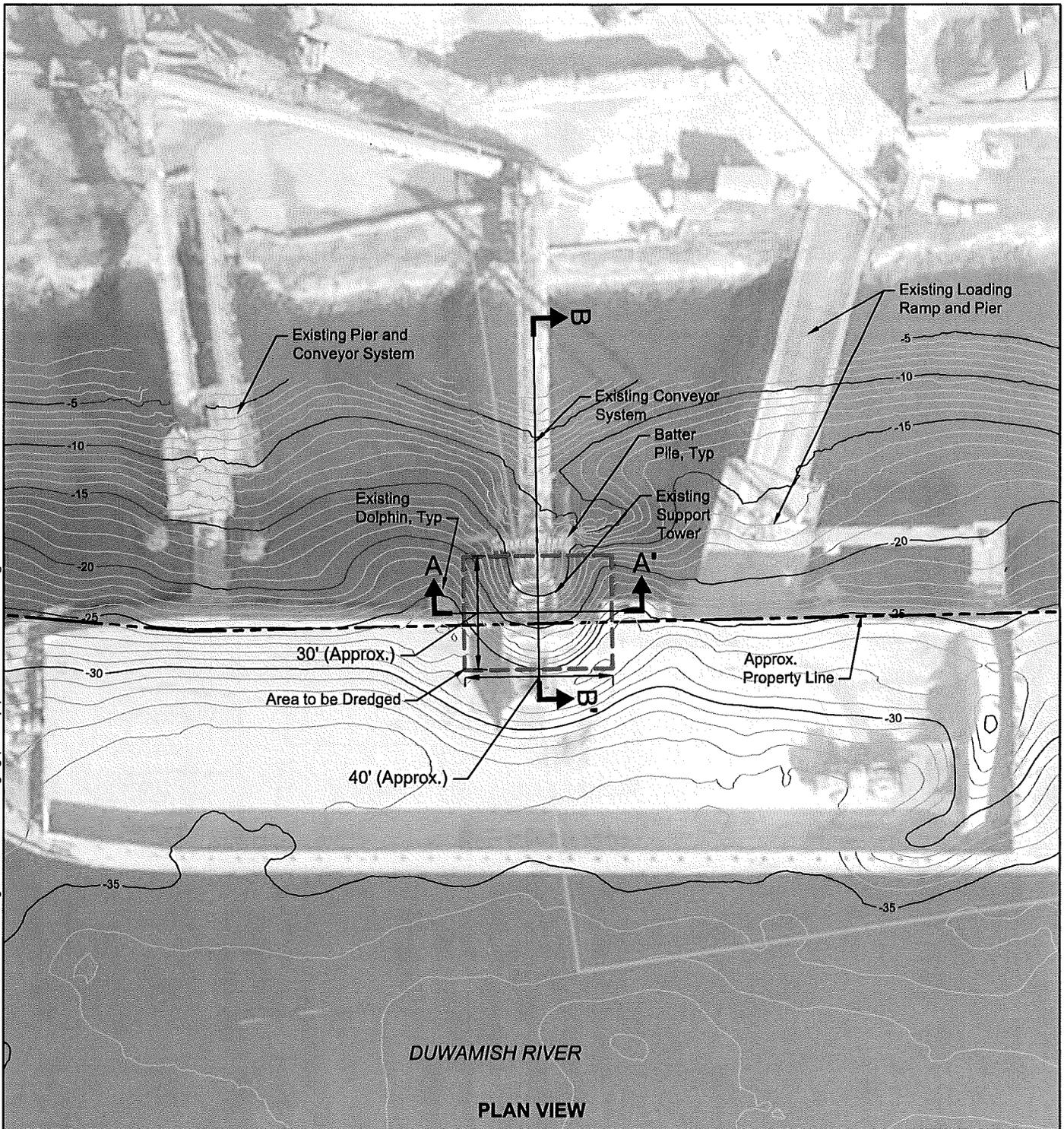
VICINITY MAP



<p>PURPOSE: REMOVE EXCESS MATERIAL</p> <p>DATUM: MLLW 0.0' LATITUDE: 47°32'55.09"N LONGITUDE: -122°20'24.95"W S-T-R: 18-24N-04E</p> <p>SITE LOCATION ADDRESS: 3801 EAST MARGINAL WAY SOUTH SEATTLE, WASHINGTON 98134</p>	<p>NAME: ASH GROVE CEMENT COMPANY MAINTENANCE DREDGING</p> <p>ADJACENT PROPERTY OWNERS: 1 - PORT OF SEATTLE</p>	<p>PROPOSED: MAINTENANCE DREDGING</p> <p>IN: LOWER DUWAMISH WATERWAY NEAR/AT: SEATTLE COUNTY OF: KING STATE: WASHINGTON</p> <p>DATE: APRIL 2016</p>	<p>ANCHOR OEA</p> <p>720 Olive Way, Suite 1900 Seattle, WA 98101 206-287-9130</p>
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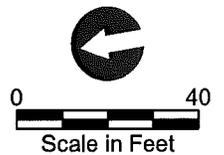
DUWAMISH RIVER

PLAN VIEW

SOURCE: Aerial from Bing Maps.
HORIZONTAL DATUM: Washington State Plane North, NAD83.
VERTICAL DATUM: Mean Lower Low Water (MLLW).
NOTES:
 MLLW = 0.0' MLLW.
 MHW = 10.24' MLLW.
 MHHW = 11.1' MLLW.

LEGEND:

- Contours, 1' And 5'
- Project Limits
- Parcel Boundary



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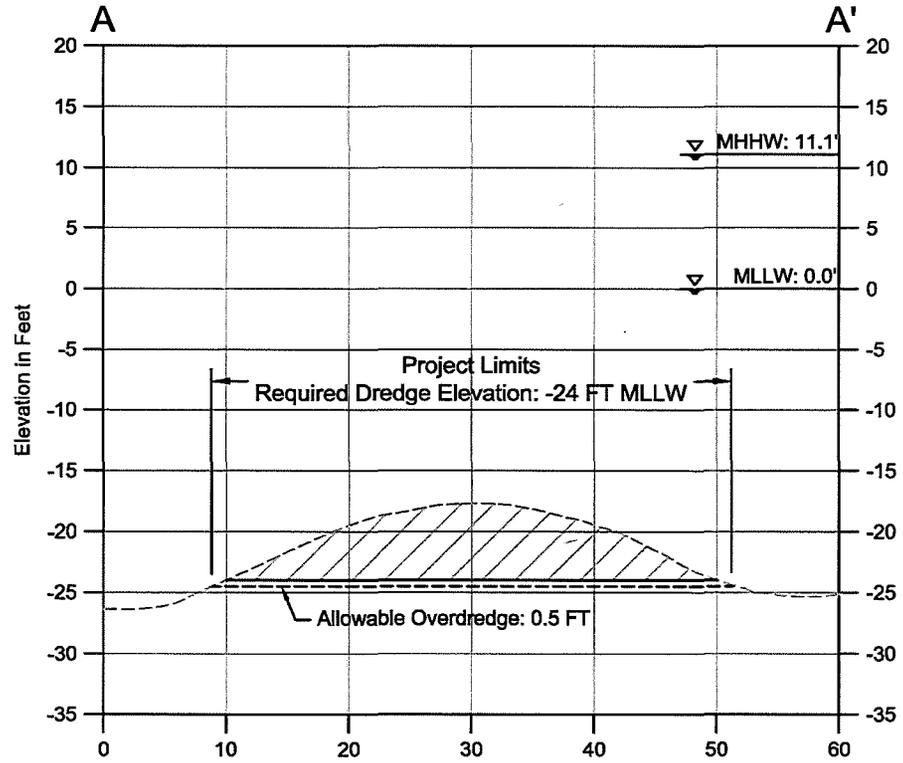
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 1 - PORT OF SEATTLE

PROPOSED: MAINTENANCE
 DREDGING
IN: LOWER DUWAMISH
 WATERWAY
NEAR/AT: SEATTLE
COUNTY OF: KING
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CROSS SECTION A-A'



LEGEND:

- EXISTING GRADE
- DREDGE CUT
- ALLOWABLE OVERDREDGE
- MATERIAL TO BE REMOVED

Dredge Volume (Including Overdredge): 600 CY (Approx.)
 Dredge Area: 3,100 SF (Approx.)

SOURCE: BATHYMETRY FROM eTrac, DATED OCTOBER 15, 2015
HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH, NAD83, U.S. FEET.
VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW).

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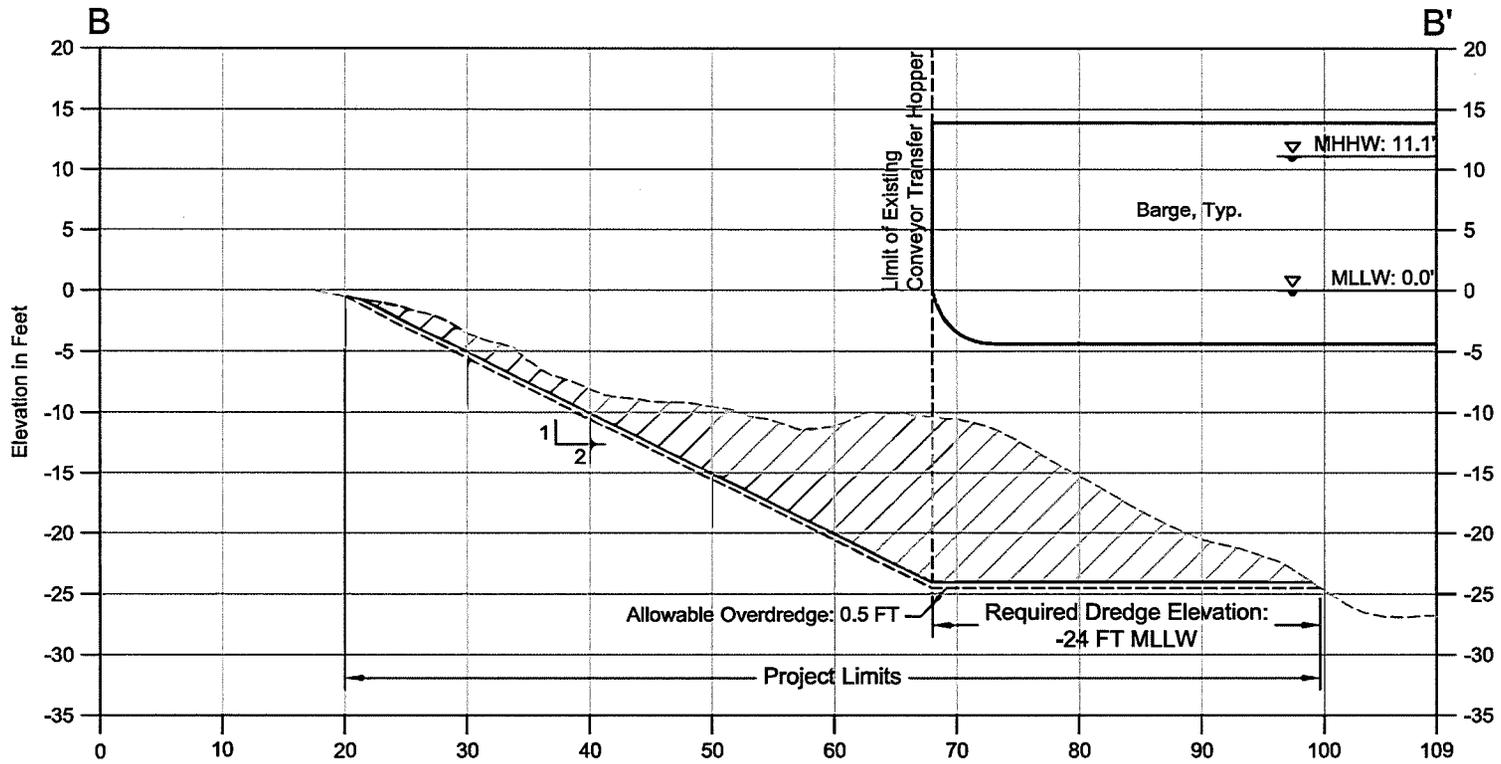
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LEGEND:

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CROSS SECTION B-B'



Dredge Volume (Including Overdredge): 600 CY (Approx.)
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SHEET: 4 OF 4