LEGEND:

- Existing Contours (1' & 5')(October 2016)
- Maintenance Dredge Limits
- Area above -40' CRD
- Area above -43' CRD
- Federal Navigation Channel Boundary
- Approximate Ordinary High Water Mark (OHWM, 11' CRD)
- 200-Foot Shoreline Jurisdiction

BATHYMETRIC SURVEY: Solmar Hydro dated October 18 and 24, 2016
VERTICAL DATUM: Columbia River Datum (CRD)
NOTE: The location of all port facilities and docks displayed on this drawing were provided by the Port of Longview. The linework for all docks and port features displayed here is for informational purposes only and should not be considered survey-grade accuracy.

Applicant Name: Port of Longview
Project Name: Maintenance Dredging Project
Location: Longview, Cowlitz County, Washington
Lat/Long: 46°6'12.97"N/122°56'52.11"W
Date: June 12, 2020
Sheet Number: 2 of 15
BATHYMETRIC SURVEY: Solmar Hydro dated October 18 and 24, 2016
VERTICAL DATUM: Columbia River Datum (CRD)
NOTE: The location of all port facilities and docks displayed on this drawing were provided by the Port of Longview. The linework for all docks and port features displayed here is for informational purposes only and should not be considered survey-grade accuracy.

LEGEND:

- Existing Contours (1’ & 5’)(October 2016)
- Maintenance Dredge Limits
- Area above -40’ CRD
- Area above -43’ CRD
- Federal Navigation Channel Boundary
- Approximate Ordinary High Water Mark (OHWM, 11’ CRD)
- 200-Foot Shoreline Jurisdiction

Applicant Name: Port of Longview
Project Name: Maintenance Dredging Project
Location: Longview, Cowlitz County, Washington
Lat/Long: 46°6’12.97"N/122°56’52.11"W
Date: June 12, 2020
Sheet Number: 3 of 15
BATHYMETRIC SURVEY: Solmar Hydro dated October 18 and 24, 2016
VERTICAL DATUM: Columbia River Datum (CRD)
NOTE: The location of all port facilities and docks displayed on this drawing were provided by the Port of Longview. The linework for all docks and port features displayed here is for informational purposes only and should not be considered survey-grade accuracy.

LEGEND:
- Existing Contours (1′ & 5′)(October 2016)
- Maintenance Dredge Limits
- Area above -40′ CRD
- Area above -43′ CRD
- Federal Navigation Channel Boundary
- Approximate Ordinary High Water Mark (OHWM, 11′ CRD)
- 200-Foot Shoreline Jurisdiction

Applicant Name: Port of Longview
Project Name: Maintenance Dredging Project
Location: Longview, Cowlitz County, Washington
Lat/Long: 46°6′12.97″N/122°56′52.11″W
Date: June 12, 2020
Sheet Number: 4 of 15
BATHYMETRIC SURVEY: Solmar Hydro dated October 18 and 24, 2016
VERTICAL DATUM: Columbia River Datum (CRD)
NOTE: The location of all port facilities and docks displayed on this drawing were provided by the Port of Longview. The linework for all docks and port features displayed here is for informational purposes only and should not be considered survey-grade accuracy.
BATHYMETRIC SURVEY: Solmar Hydro dated March 14, 2019
VERTICAL DATUM: Columbia River Datum (CRD)
NOTE: The location of all port facilities and docks displayed on this drawing were provided by the Port of Longview. The linework for all docks and port features displayed here is for informational purposes only and should not be considered survey-grade accuracy.

LEGEND:
- Existing Contours (1' & 5')(March 2019)
- Maintenance Dredge Limits
- Area above -6.3' CRD
- Approximate Ordinary High Water Mark (OHWM, +10' CRD)
- 200-Foot Shoreline Jurisdiction
- Floodplain Elevation (+14' CRD)
- Existing Riprap (Approximate)

Applicant Name: Port of Longview
Project Name: Maintenance Dredging Project
Location: Longview, Cowlitz County, Washington
Lat/Long: 46°6'12.97"N/122°56'52.11"W
Date: June 12, 2020
Sheet Number: 6 of 15

Figure 2e
Willow Grove Boat Basin Dredge Site Plan
JARPA
Port of Longview Maintenance Dredge, Port of Longview

Enclosure 1
**LEGEND:**
- Proposed Placement Site W-56.1-IW (5,000 cy)
- Proposed Placement Site O-56.2-SW (17,000 cy)
- Existing Bathymetric Contour (2' & 10')
- Extent of Bathymetric Survey
- Existing Pile Dikes
- Washington State/Oregon State Line
- Federal Navigation Channel
- River Mile Marker

**SOURCE:** Bathymetry, Federal Navigation Channel boundary, river mile markers, pile dikes, and dredged material placement boundaries provided by U.S. Army Corps of Engineers (USACE).


**HORIZONTAL DATUM:** Oregon State Plane North Zone, North American Datum of 1983 (NAD83), U.S. Survey Feet

**VERTICAL DATUM:** Columbia River Datum (CRD)

**Applicant Name:** Port of Longview
**Project Name:** Maintenance Dredging Project
**Location:** Longview, Cowlitz County, Washington and Mayger, Columbia County, Oregon
**Lat/Long:** 46°6'12.97"N/122°56'52.11"W
**Date:** June 12, 2020

**Placement Site Corner Location**

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**Figure 3a**

Placement Sites (1 of 4)

JARPA

Port of Longview Maintenance Dredge, Port of Longview

Enclosure 1
LEGEND:
- Proposed Placement Site O-57.8-SW (60,000 cy)
- Existing Bathymetric Contour (2' & 10')
- Extent of Bathymetric Survey
- Existing Pile Dikes
- Washington State/Oregon State Line
- Federal Navigation Channel
- River Mile Marker

SOURCE: Bathymetry, Federal Navigation Channel boundary, river mile markers, pile dikes, and dredged material placement boundaries provided by U.S. Army Corps of Engineers (USACE).


HORIZONTAL DATUM: Oregon State Plane North Zone, North American Datum of 1983 (NAD83), U.S. Survey Feet

VERTICAL DATUM: Columbia River Datum (CRD)

Applicant Name: Port of Longview
Project Name: Maintenance Dredging Project
Location: Longview, Cowlitz County, Washington and Mayger, Columbia County, Oregon
Lat/Long: 46°6'12.97"N/122°56'52.11"W
Date: June 12, 2020
Sheet Number: 8 of 15

Figure 3b
Placement Sites (2 of 4)

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LEGEND:
- Proposed Placement Site O-59.9-SW (20,000 cy)
- Existing Bathymetric Contour (2' & 10')
- Extent of Bathymetric Survey
- Existing Pile Dikes
- Washington State/Oregon State Line
- Federal Navigation Channel
- River Mile Marker

Placement Site Corner Location
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SOURCE: Bathymetry, Federal Navigation Channel boundary, river mile markers, pile dikes, and dredged material placement boundaries provided by U.S. Army Corps of Engineers (USACE).
HORIZONTAL DATUM: Oregon State Plane North Zone, North American Datum of 1983 (NAD83), U.S. Survey Feet
VERTICAL DATUM: Columbia River Datum (CRD)

Applicant Name: Port of Longview
Project Name: Maintenance Dredging Project
Location: Longview, Cowlitz County, Washington and Mayger, Columbia County, Oregon
Lat/Long: 46°6'12.97"N/122°56'52.11"W
Date: June 12, 2020
Sheet Number: 9 of 15

Figure 3c
Placement Sites (3 of 4)
JARPA
Port of Longview Maintenance Dredge, Port of Longview

Placement Site Corner Location
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LEGEND:
- Proposed Placement Site Willow Grove (24,433 cy)
- Existing Bathymetric/Topographic Contour (2’ & 10’)
- Approximate Ordinary High Water Mark (OHWM, +8.5’ CRD)
- 200-Foot Shoreline Jurisdiction Zone
- 100-Year Floodplain Zone
- Existing Pile Dikes
- Federal Navigation Channel
- Cowlitz County Tax Parcels

Placements Site Corner Location

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Applicant Name: Port of Longview
Project Name: Maintenance Dredging Project
Location: Longview, Cowlitz County, Washington and Mayger, Columbia County, Oregon
Lat/Long: 46°6’12.97”N/122°56’52.11”W
Date: June 12, 2020
Sheet Number: 10 of 15

Figure 3d
Placement Sites (4 of 4)

JARPA
Port of Longview Maintenance Dredge, Port of Longview

NWP-2000-39-5

Page 10 of 15

Enclosure 1
BATHYMETRIC SURVEY SHOWN ON SECTIONS: Sections 1-7: Solmar Hydro dated July 3, 2015
Section 8: Solmar Hydro dated July 30, 2019
VERTICAL DATUM: Columbia River Datum (CRD)
SOURCE: Drawing prepared from CAD file provided by Port of Longview dated July 12, 2016.
NOTE: Sections are conceptual. Actual dredge prism to be confirmed prior to each dredge event.

Applicant Name: Port of Longview
Project Name: Maintenance Dredging Project
Location: Longview, Cowlitz County, Washington
Lat/Long: 46°6'12.97"N/122°56'52.11"W
Date: June 12, 2020
Sheet Number: 11 of 15

Figure 4a
Port Berth Typical Sections
JARPA
Port of Longview Maintenance Dredge, Port of Longview

LEGEND:
- Dredge Material Above the Required Elevation
- Assumed Area of Sloughing

Scale in Feet
LEGEND:
- Dredge Material Above the Required Elevation
- Assumed Area of Sloughing

BATHYMETRIC SURVEY SHOWN ON SECTIONS:
Sections 1-7: Solmar Hydro dated July 3, 2015
Section 8: Solmar Hydro dated July 30, 2019
VERTICAL DATUM: Columbia River Datum (CRD)
SOURCE: Drawing prepared from CAD file provided by Port of Longview dated July 12, 2016.
NOTE: Sections are conceptual. Actual dredge prism to be confirmed prior to each dredge event.

Applicant Name: Port of Longview
Project Name: Maintenance Dredging Project
Location: Longview, Cowlitz County, Washington
Lat/Long: 46°6'12.97"N/122°56'52.11"W
Date: June 12, 2020
Sheet Number: 12 of 15

Figure 4b
Port Berth Typical Sections
MATCH EXISTING MUDLINE AT ELEV. -4.4' CRD
MATCH EXISTING MUDLINE AT ELEV. 1.2' CRD
MATCH MUDLINE AT ELEV. 4.5' CRD
MATCH EXISTING MUDLINE AT ELEV. -6.3' CRD

ELEVATION (FEET CRD) ELEVATION (FEET CRD)
MATCH EXISTING MUDLINE
MATCH EXISTING MUDLINE
REQUIRED DREDGE ELEV. -6.3' CRD
EXISTING RIPLE
MATCH MUDLINE 1.2' CRD

LIMIT OF DREDGE PRISM
142.5'

Scale in Feet
0 40
HORIZONTAL DISTANCE (FEET)
0 20 40 60 80 100 120 140 160 180 200 220

LEGEND:
- Dredge Material Above the Required Elevation
- Assumed Area of Sloughing

BATHYMETRIC SURVEY SHOWN ON SECTIONS: Solmar Hydro dated July 3, 2015
VERTICAL DATUM: Columbia River Datum (CRD)
SOURCE: Drawing prepared from CAD file provided by Port of Longview dated July 12, 2016.
NOTE: Sections are conceptual. Actual dredge prism to be confirmed prior to each dredge event.

Applicant Name: Port of Longview
Project Name: Maintenance Dredging Project
Location: Longview, Cowlitz County, Washington
Lat/Long: 46°6'12.97"N/122°56'52.11"W
Date: June 12, 2020
Sheet Number: 13 of 15

Figure 4c
Willow Grove Boat Launch Typical Sections
JARPA
Port of Longview Maintenance Dredge, Port of Longview

Enclosure 1
LEGEND:
- Existing Mudline or Ground Surface
- Proposed Material Placement

HORIZONTAL DATUM: Oregon State Plane North Zone, North American Datum of 1983 (NAD83), U.S. Survey Feet
VERTICAL DATUM: Columbia River Datum (CRD)

NOTES:
1. Actual depth of placed material to be determined by site conditions during pre-placement survey. Pre-placement survey to be performed prior to each placement action.
2. In-water sections 10, 11, and 12 show representative conditions, but do not show the full extent of the placement site.

Applicant Name: Port of Longview
Project Name: Maintenance Dredging Project
Location: Longview, Cowlitz County, Washington and Mayger, Columbia County, Oregon
Lat/Long: 46°6’12.97"N/122°56’52.11"W
Date: June 12, 2020
Sheet Number: 15 of 15

Figure 4e
Placement Site Typical Sections
JARPA
Port of Longview Maintenance Dredge, Port of Longview

NWP-2000-39-5