



US Army Corps
of Engineers
Portland District



WASHINGTON STATE
DEPARTMENT OF
E C O L O G Y

Joint Public Notice

Application for a Department of the Army Permit, and an Oregon Department of State Lands and a Washington Department of Ecology Water Quality Certification and/or Coastal Zone Management Consistency Concurrence

US Army Corps of Engineers
Regulatory Branch
Post Office Box 2946
Portland, OR 97208-2946
Telephone (503) 808-4386
Attn: Tom Taylor, Project Manager

WA Department of Ecology
SEA Program
Post Office Box 47600
Olympia, WA 98504-7600
Telephone (360) 407-6068
Attn: SEA Program, Federal Permit
Coordinator

Public Notice Date: April 08, 2013
Expiration Date: May 08, 2013

Reference No.: NWP-1994-462-1
Oregon Department of State Lands
No: 52951-RF
Name: Port of Kalama

Interested parties are hereby notified that the U.S. Army Corps of Engineers (Corps) and the Washington Department of Ecology (Ecology) have received an application to perform work in waters of the United States as described below and shown on the enclosed drawings.

The Corps will review the work in accordance with Section 10 of the Rivers and Harbors Act and Section 404 of the Clean Water Act (CWA). Ecology will review the work pursuant to Section 401 of the CWA, with applicable provisions of State water pollution control laws.

APPLICANT: Port of Kalama, 380 West Marine Drive, Kalama, Washington 98625

LOCATION: The project is located in and adjacent to the Columbia River, River Miles (RM) 72 to 77, near Kalama, Washington, in sections 1, 6, 20, 31 and 36, Township 6 and 7 North, Range 1 and 2 West.

PROJECT DESCRIPTION: The Port of Kalama (Port) proposes the following:

1. Conducting (a) maintenance dredging at the TEMCO [formerly United Harvest] , and North Port terminals to -48 feet Columbia River Datum (CRD) with a 2-foot overdredge allowance and at Kalama Export to -43 feet CRD with a 3-foot overdredge allowance; (b) maintenance dredging at the public marina to maintain the authorized depth of -10 + 3 feet CRD; and (c) placement of the dredged material at approved Port-owned upland placement sites for re-use (i.e., Knife River, Marina, or Southport sites), and at the Ross Island Sand and Gravel (RISG) disposal site in Portland, Oregon.
2. Increasing the authorized dredge quantity from the present 630,000 cubic yards (cy) through 2019 to a total of 2.1 million cy for the four Port sites for a 10-year Corps permit (2013-2023);
3. In addition to currently authorized upland placement site(s), authorizing dredged material placement at the following locations: (a) flow-lane placement at an Oregon site to restore sediment at a deep scour

hole associated with pile dike 77.53 M; (b) flow-lane placement at Washington site to restore sediment at a deep scour hole associated with pile dike 75.63; and (c) beneficial reuse as beach nourishment at the Port's shoreline park (Louis Rasmussen Day Use Park) at RM 76. The latter activity generally consists of placing dredged material at the location of an actively eroding beach and below the Corps Ordinary High Water Mark (OHWM) (i.e., elevation 12.0 feet CRD) via hydraulic dredge pipeline.

4. Extending work hours to allow nighttime activities to offset possible schedule limitations resulting from a modified in-water work window period.

5. Conducting work (i.e., dredging and dredge material placement) between approximately August 1 and August 31 at the TEMCO berth and between October 1 and December 31 at all remaining sites – all beginning in 2013.

Maintenance dredging and dredge material placement likely will continue to be completed using pipeline hydraulic (cutterhead) dredging methods. Mechanical (clamshell) bucket dredging methods also may be employed. For all methods, dredged materials will be placed on a barge and transported to the in-water, beach nourishment, or approved upland sites.

Best Management Practices

The following Best Management Practices (BMPs) and conservation measures will be implemented to minimize environmental impacts during the project:

Endangered Species Act BMPs

- Work will be done during the approved fish protection or “in-water” work window.
- Work will be conducted to ensure no impingement of juvenile salmonids by dredging equipment, clamshell or hydraulic dredge. Regular observation of sediment aboard the barge or at the placement areas will be conducted. If impingement is occurring, clamshell operations would be adjusted (slowed) to increase opportunity for juveniles to avoid the bucket and/or suction head. For hydraulic dredge operations, the suction head will be lowered deeper into the sand to minimize water entrainment.

Turbidity BMPs

- Construction activities will be performed in compliance with Surface Water Quality Standards for Washington (1730201A WAC) and Oregon (OAR 340-041-0036), or other conditions as specified in each state Water Quality Certificate (WQC).
- Appropriate BMPs will be employed to minimize sediment loss and turbidity generation during dredging and may include, but not be limited to, the following:
 - Smoothly close bucket when at the river bottom
 - Avoid stockpiling of dredged material on the riverbed
 - Maintain suction head of hydraulic dredge at the river bed to the extent practicable
 - Use a buffer plate or other means to reduce flow discharge of the hydraulic dredge at the placement area
 - Follow other conditions as specified in the WQC
- Enhanced BMPs may be implemented to control turbidity and may include, but not be limited to, the following:

- Slow the velocity (i.e., cycle time) of the ascending loaded clamshell bucket through the water column
- Pause the dredge bucket near the bottom while descending and near the water line while ascending
- Place filter material over the barge scuppers to clear return water

If sediment is placed on a barge for delivery to the placement area, no spill of sediment from the barge will be allowed. The barge will be managed such that the dredged sediment load does not exceed the capacity of the barge. The load will be placed in the barge to maintain an even keel and avoid listing.

Hay bales and/or filter fabric may be placed over the barge scuppers to help filter suspended sediment from the barge effluent, if needed, based on sediment testing results.

Hazmat/SPCC BMPs

Dredge vessel personnel will be trained in hazardous material handling and spill response, and will be equipped with appropriate response tools, including adsorbent oil booms. If a spill occurs, spill cleanup and containment efforts will begin immediately and will take precedence over normal work.

The dredging contractor shall be responsible for the preparation of a Spill, Prevention, Control, and Countermeasure (SPCC) Plan to be used for the duration of the project. The SPCC Plan shall be submitted to the project engineer prior to the commencement of any construction activities. A copy of the SPCC Plan with any updates will be maintained at the work site by the contractor.

The SPCC Plan shall identify construction planning elements and recognize potential spill sources at the site. The SPCC Plan shall outline responsive actions in the event of a spill or release and shall describe notification and reporting procedures. The SPCC Plan shall outline contractor management elements, such as personnel responsibilities, project site security, site inspections, and training.

The SPCC Plan will outline what measures shall be taken by the contractor to prevent the release or spread of hazardous materials, either found on site and encountered during construction but not identified in contract documents, or any hazardous materials that the contractor stores, uses, or generates on the construction site during construction activities. These items include, but are not limited to, gasoline, oils, and chemicals.

Placement Site BMPs

The following BMPs and conservation measures will be implemented to minimize environmental impacts during dredged material transport and placement:

The contractor will be required to use a tightly sealing bucket and to monitor for spillage during transfer operations.

Visual water quality monitoring and, if necessary, follow-up measurements will be conducted around the barge at the removal and upland transfer area to confirm that material is not being released.

Sediment that is dredged by hydraulic dredge and placed in-water by hydraulic pipeline will be discharged at the riverbed to the extent practicable to minimize turbidity in the water column.

Material used as beach nourishment will be placed by hydraulic dredge within the limits of the boundaries and below the OHWM.

The slope for beach nourishment will be 3 Horizontal:1 Vertical (33%) without any swales to avoid fish stranding.

- Sediment placement will occur using methods that minimize sediment loss and turbidity to the maximum extent possible.
- The placement activities will be visually monitored to ensure placed sediment is contained inside of the specified boundaries. Enhanced BMPs may be implemented to control sediment migration and turbidity and may include the following:
 - Selectively place sediment at areas with low dispersion
 - Lower the discharge pipeline toward the bottom elevation
 - Place sediment to build confinement dikes followed by placing the sediment into them
 - Install a silt curtain or similar equipment, if available and appropriate
- If upland stockpiling of dredged material becomes necessary, BMPs will be employed as appropriate to control runoff and erosion. Such BMPs may include:
 - Installing silt fences, hay bales, and/or containment berms
 - Managing runoff and elutriate water
 - Routinely inspecting the stockpile areas to ensure BMPs are functioning properly

MITIGATION: There is no mitigation proposed for this project.

PURPOSE: The purpose of the project is to allow continued maintenance of navigational depth clearance required for shipping and marina vessels docking at Port berths.

ADDITIONAL INFORMATION: Additional information may be obtained from Mr. Tom Taylor, Project Manager, U.S. Army Corps of Engineers at 503-808-4386 or e-mail thomas.j.taylor@usace.army.mil

AUTHORITY: This permit will be issued or denied under the following:

Section 10, Rivers and Harbors Act 1899 (33 U.S.C. 403), for work in or affecting navigable waters of the United States.

Section 404, Clean Water Act (33 U.S.C. 1344), for discharge of dredged or fill material into waters of the United States.

WATER QUALITY CERTIFICATION: A permit for the described work will not be issued until certifications, as required under Section 401 of the Clean Water Act (P.L. 95-217), have been received or are waived from the certifying states. Below is information regarding certifications and the Washington Department of Ecology's certification process. Attached is the Oregon Department of Environmental Quality's notice advertising the request for certification in that state.

SECTION 404(b)(1) EVALUATION: The impact of the activity on the public interest will be evaluated in accordance with the U.S. Environmental Protection Agency guidelines pursuant to Section 404(b)(1) of the Clean Water Act.

SEDIMENT EVALUATION FRAMEWORK (SEF) FOR THE PACIFIC NORTHWEST: A Sampling and Analysis Plan (SAP) has been submitted to the interagency Portland Sediment Evaluation Team (PSET) for review to ensure compliance with the SEF and to determine the approved fate of the dredged

materials (i.e., upland, in-water, or approved landfill) and appropriate management of the post-dredge or leave surfaces. Dredge prisms and leave surfaces will be managed to ensure that berth maintenance does not result in adverse effects to aquatic organisms and their habitat.

ENDANGERED SPECIES: Preliminary determinations indicate that the proposed activity may affect endangered or threatened species or their critical habitat. Consultation under Section 7 of the Endangered Species Act of 1973 (87 Stat. 844) will be reinitiated with the National Marine Fisheries Service (NMFS) and U.S. Fish and Wildlife Service (USFWS). A permit for the proposed activity will not be issued until the consultation process is completed.

ESSENTIAL FISH HABITAT: The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act of 1996, requires all Federal agencies to consult with the NMFS on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH). The proposed action would impact EFH in the project area. The Corps has determined that the proposed action will adversely affect designated EFH for federally managed fisheries in Oregon and Washington waters. The Corps has initiated EFH consultation with the NMFS.

CULTURAL RESOURCES: An initial evaluation of the proposed project area indicates that to the best of our knowledge, the described activity is not located on property registered or eligible for registration in the latest published version of the National Register of Historic Places. At this time the Corps is unaware of any cultural resource surveys of the project area.

This notice has been provided to the Oregon State Historic Preservation Office (SHPO) and Washington Department of Archeology and Historic Places (DAHP), interested Native American Indian Tribes, and other interested parties. If you have information pertaining to cultural resources within the permit area, please provide this information to the Corps project manager (identified on page 1 of this notice) to assist in a complete evaluation of potential effects.

ADDITIONAL REQUIREMENTS: State law requires that leases, easements, or permits be obtained for certain works or activity in the described waters. These State requirements must be met, where applicable, and a Department of the Army permit must be obtained before any work within the applicable Statutory Authority, previously indicated, may be accomplished. Other local governmental agencies may also have ordinances or requirements, which must be satisfied before the work is accomplished.

PUBLIC HEARING: Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

EVALUATION – CORPS - The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts, of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain

values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and, in general, the needs and welfare of the people.

The Corps is soliciting comments from the public; Native American Nations or tribal governments; Federal, State, and local agencies and officials; and other interested parties in order to consider and evaluate the impacts of this activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition or deny a permit for the work. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the activity.

EVALUATION—ECOLOGY: The Washington Department of Ecology is soliciting comments from the public; Federal, Native American Nations or tribal governments, State, and local agencies and officials; and other interested parties in order to consider and evaluate the impacts of this activity. Ecology will be considering all comments to determine whether to recertify or deny certification for the proposed project.

COMMENT AND REVIEW PERIOD: Conventional mail or e-mail comments on this public notice will be accepted and made part of the record and will be considered in determining whether it would be in the public interest to authorize this proposal. In order to be accepted, e-mail comments must originate from the author's e-mail account and must include on the subject line of the e-mail message the permit applicant's name and reference number as shown below. Either conventional mail or e-mail comments must include the permit applicant's name and reference number, as shown below, and the commenter's name, address, and phone number. All comments whether conventional mail or e-mail must reach this office, no later than the expiration date of this public notice to ensure consideration.

CORPS COMMENTS: All e-mail comments should be sent to thomas.j.taylor@usace.army.mil. Conventional mail comments should be sent to U.S. Army Corps of Engineers, Regulatory Branch, Attn: Tom Taylor, Post Office Box 2946, Portland, OR 97208-2946.

ECOLOGY COMMENTS: Any person desiring to present views on the project pertaining to a request for water quality certification in the state of Washington under Section 401 of the CWA may do so by submitting written comments to the following address: Department of Ecology, Attn: SEA program – Federal Permit Coordinator, P.O. Box 47600, Olympia, Washington, 98504-7600, or e-mail to ecyrefedpermit@ecy.wa.gov

To ensure proper consideration of all comments, responders must include the following name and reference number in the text of their comments: Port of Vancouver, NWP-1994-462-1.

Encl: Fifteen (15) drawings on 15 sheets, labeled NWP-1994-462-1

PUBLIC NOTICE
Oregon Department of Environmental Quality (DEQ)
Water Quality 401 Certification

Corps of Engineers No: NWP-1994-462-1
Oregon Department of State Lands No: 52951-RF

Notice Issued: April 08, 2013
Written Comments Due: May 08, 2013

WHO IS THE APPLICANT: Port of Kalama
380 West Marine Drive
Kalama, Washington 98625

LOCATION OF CERTIFICATION ACTIVITY: See attached U.S. Army Corps of Engineers public notice.

WHAT IS PROPOSED: See attached U.S. Army Corps of Engineers public notice on the proposed project.

NEED FOR CERTIFICATION: Section 401 of the Federal Clean Water Act requires applicants for Federal permits or licenses to provide the Federal agency a water quality certification from the State of Oregon if the proposed activity may result in a discharge to waters of the state.

DESCRIPTION OF DISCHARGES: See attached U.S. Army Corps of Engineers public notice on the proposed project.

WHERE TO FIND DOCUMENTS: Documents and materials related to water quality issues in the state of Oregon as a result of the proposal are available for examination and copying at Oregon Department of Environmental Quality, 401 Water Quality Certification Coordinator, Northwest Region, 2020 S.W. 4th Avenue, Suite 400, Portland, Oregon 97201-4953. Other project materials are available by contacting the Corps per the attached public notice.

While not required, scheduling an appointment will ensure that water quality documents are readily accessible during your visit. To schedule an appointment please call DEQ Water Quality at Northwest Region at (503) 229-5552.

Any questions on the water quality certification process in Oregon may be addressed to the 401 Program Coordinator at (503) 229-6030 or toll free within Oregon at (800) 452-4011. People with hearing impairments may call the Oregon Telecommunications Relay Service at 1-800-735-2900.

PUBLIC PARTICIPATION:

Public Hearing: Oregon Administrative Rule (OAR) 340-48-0032 (2) states that “ The Corps provides public notice of and opportunity to comment on the applications, including the application for certification, provided that the department (DEQ), in its discretion, may provide additional opportunity for public comment, including public hearing.”

Written comments:

Written comments on project elements related to water quality in the state of Oregon must be received at the Oregon Department of Environmental Quality by 5 p.m. on the date specified in the upper right section on page one of this notice. Written comments may be emailed, mailed or faxed as described below:

Email - 401publiccomments@deq.state.or.us

Mail - Oregon Department of Environmental Quality, Northwest Region
2020 S.W. 4th Avenue, Suite 400
Portland, Oregon 97201-4953
Attn: 401 Water Quality Certification Coordinator

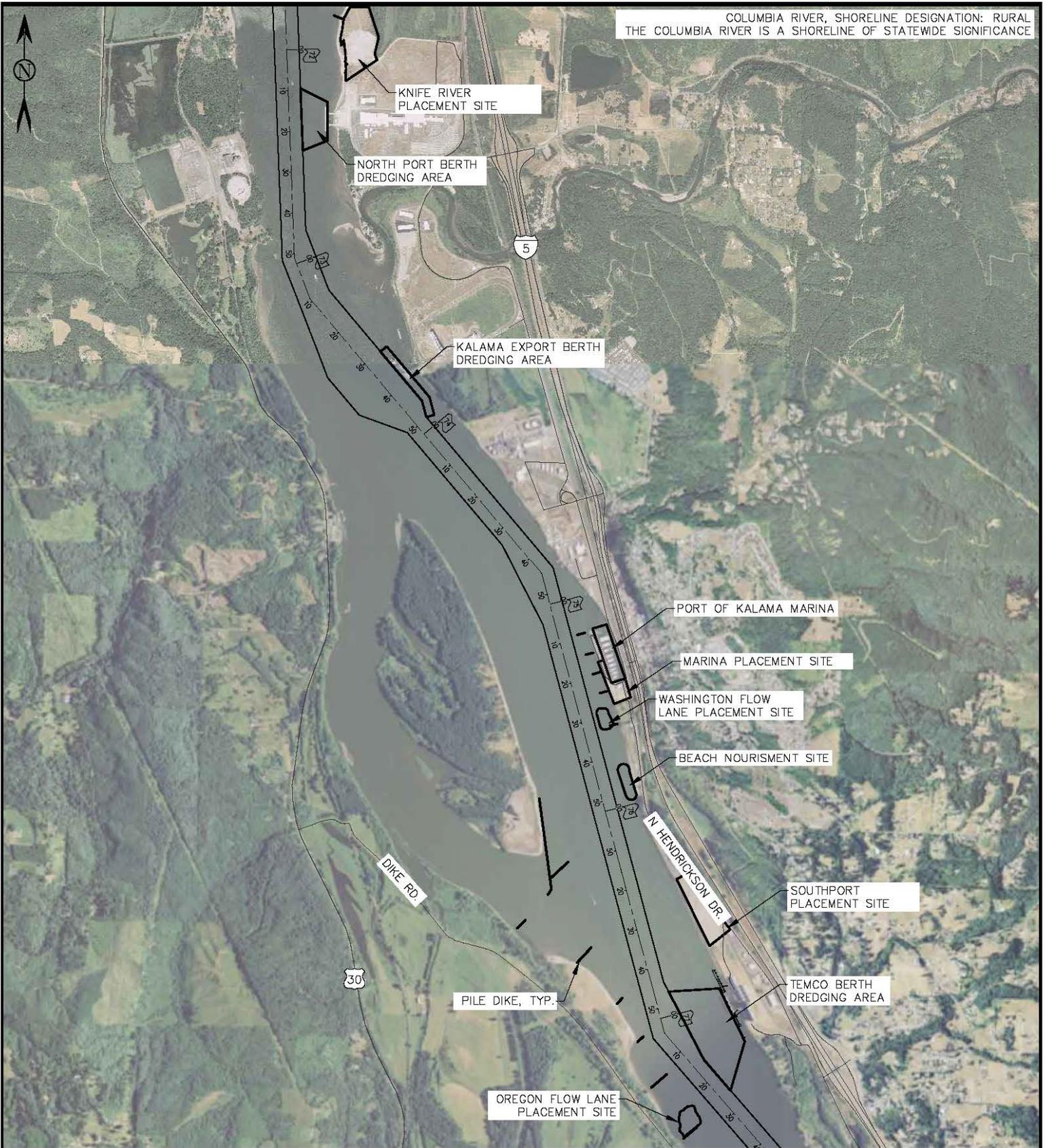
Fax - (503) 229-6957

People wishing to send comments via e-mail should send them in Microsoft Word (through version 7.0), WordPerfect (through version 6.x), or plain text format. Otherwise, due to conversion difficulties, DEQ recommends that comments be mailed in hard copy.

WHAT HAPPENS NEXT: DEQ will review and consider all comments received during the public comment period. Following this review, certification of the proposal may be issued as proposed, issued with conditions, or denied. You will be notified of DEQ's final decision if you submit comments during the comment period. Otherwise, if you wish to receive notification, please call or write DEQ at the above address.

ACCESSIBILITY INFORMATION: This publication is available in alternate format (e.g. large print, Braille) upon request. Please contact DEQ Office of Communications and Outreach at (503) 229-5317 or toll free within Oregon at 1-800-452-4011 to request an alternate format. People with a hearing impairment can receive help by calling the Oregon Telecommunications Relay Service at 1-800-735-2900.

COLUMBIA RIVER, SHORELINE DESIGNATION: RURAL
THE COLUMBIA RIVER IS A SHORELINE OF STATEWIDE SIGNIFICANCE



LOCATION MAP
N.T.S.

**PORT OF KALAMA
MAINTENANCE DREDGING
VICINITY MAP**

APPLICATION BY: PORT OF KALAMA

PROPOSED: PORT OF KALAMA
MAINTENANCE DREDGING
IN: COLUMBIA RIVER
AT: PORT OF KALAMA
COUNTY: COWLITZ

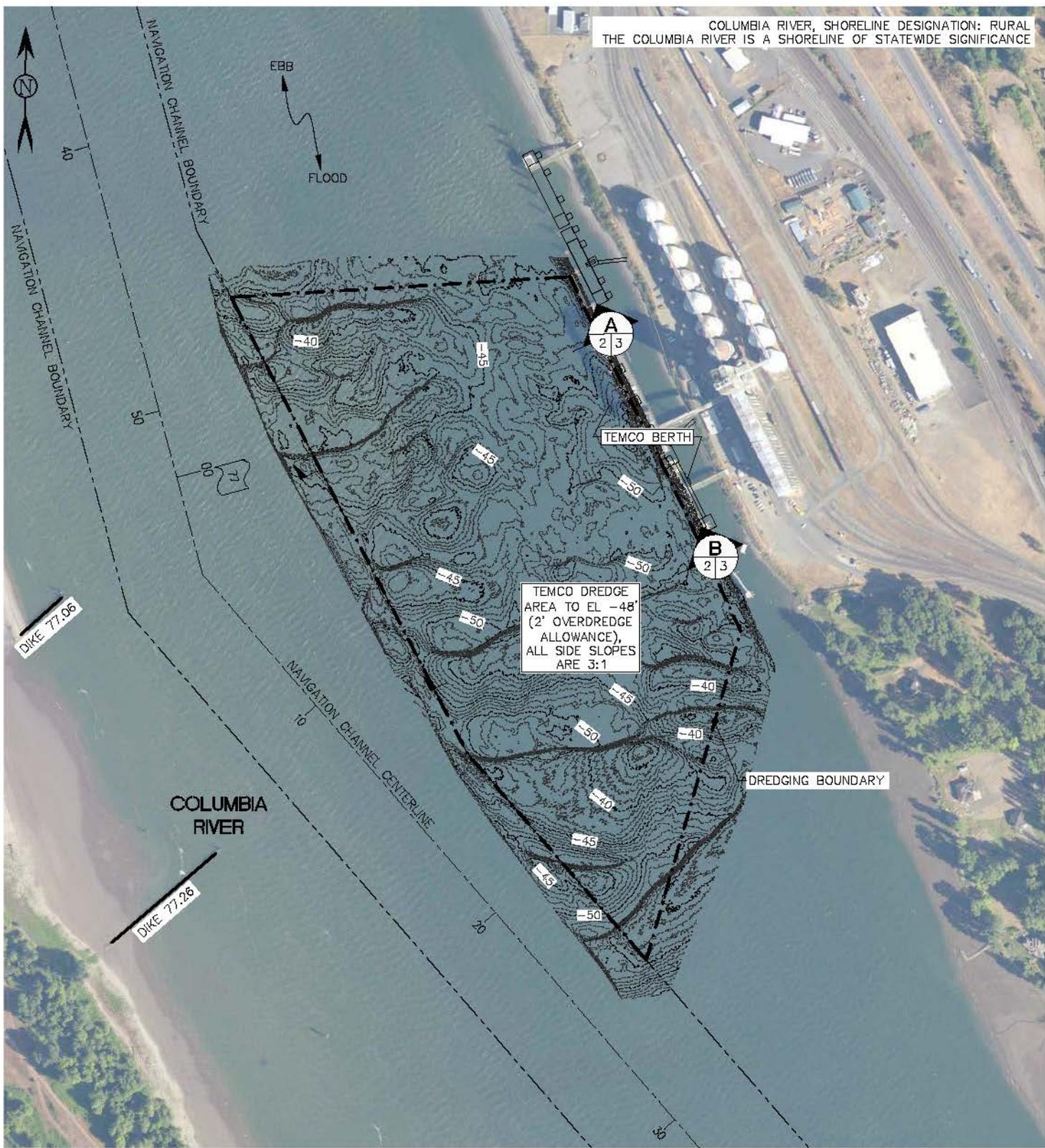
SHEET 1 OF 14 **DATE:** FEBRUARY 2013

PURPOSE: MAINTENANCE DREDGING

LOCATION: LAT: 46° 0' 27.78" LONG: 122° 50' 51.49"

ADJACENT PROPERTY OWNERS: **DATUM:** CRD
PORT OF KALAMA

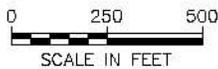
COLUMBIA RIVER, SHORELINE DESIGNATION: RURAL
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NOTE:

1. SURVEY CONDUCTED ON AUGUST 24, 2012 BY NORTHWEST HYDRO, INC.

SITE PLAN



PURPOSE: MAINTENANCE DREDGING

LOCATION: LAT: 45° 59' 03.87" LONG: 122° 50' 08.25"

ADJACENT PROPERTY OWNERS: DATUM: CRD

TOTTEFF, SERLS, JS KALAMA LLC,
 ARCHWOOD PROTECTION INC, WHITE,
 DNR AND PORT OF KALAMA

**PORT OF KALAMA
 MAINTENANCE DREDGING
 SITE PLAN - TEMCO BERTH**

APPLICATION BY: PORT OF KALAMA

PROPOSED: MAINTENANCE DREDGING FOR TEMCO BERTH

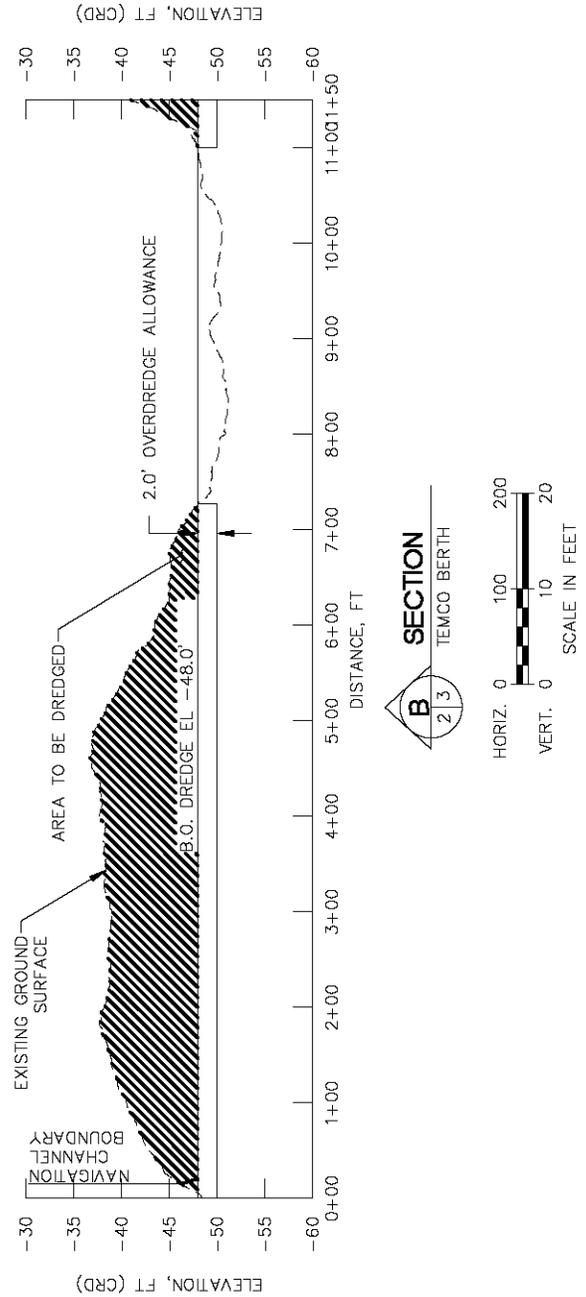
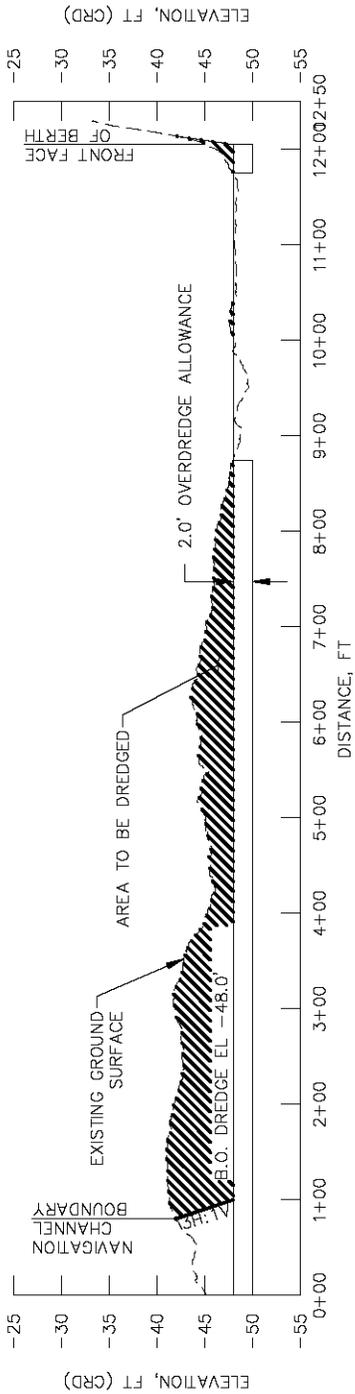
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AT: TEMCO BERTH (FORMERLY UNITED HARVEST)

COUNTY: COWLITZ

SHEET 2 OF 14

DATE: FEBRUARY 2013



PURPOSE: MAINTENANCE DREDGING

LOCATION: LAT: 45° 59' 03.87" LONG: 122° 50' 08.25"

ADJACENT PROPERTY OWNERS: DATUM: CRD

TOTTEFF, SERLS, JS KALAMA LLC,
 ARCHWOOD PROTECTION INC, WHITE,
 DNR AND PORT OF KALAMA

**PORT OF KALAMA
 MAINTENANCE DREDGING
 SECTIONS - TEMCO BERTH**

APPLICATION BY: PORT OF KALAMA

PROPOSED: MAINTENANCE DREDGING
 TEMCO BERTH

IN: COLUMBIA RIVER, RIVER MILE 77

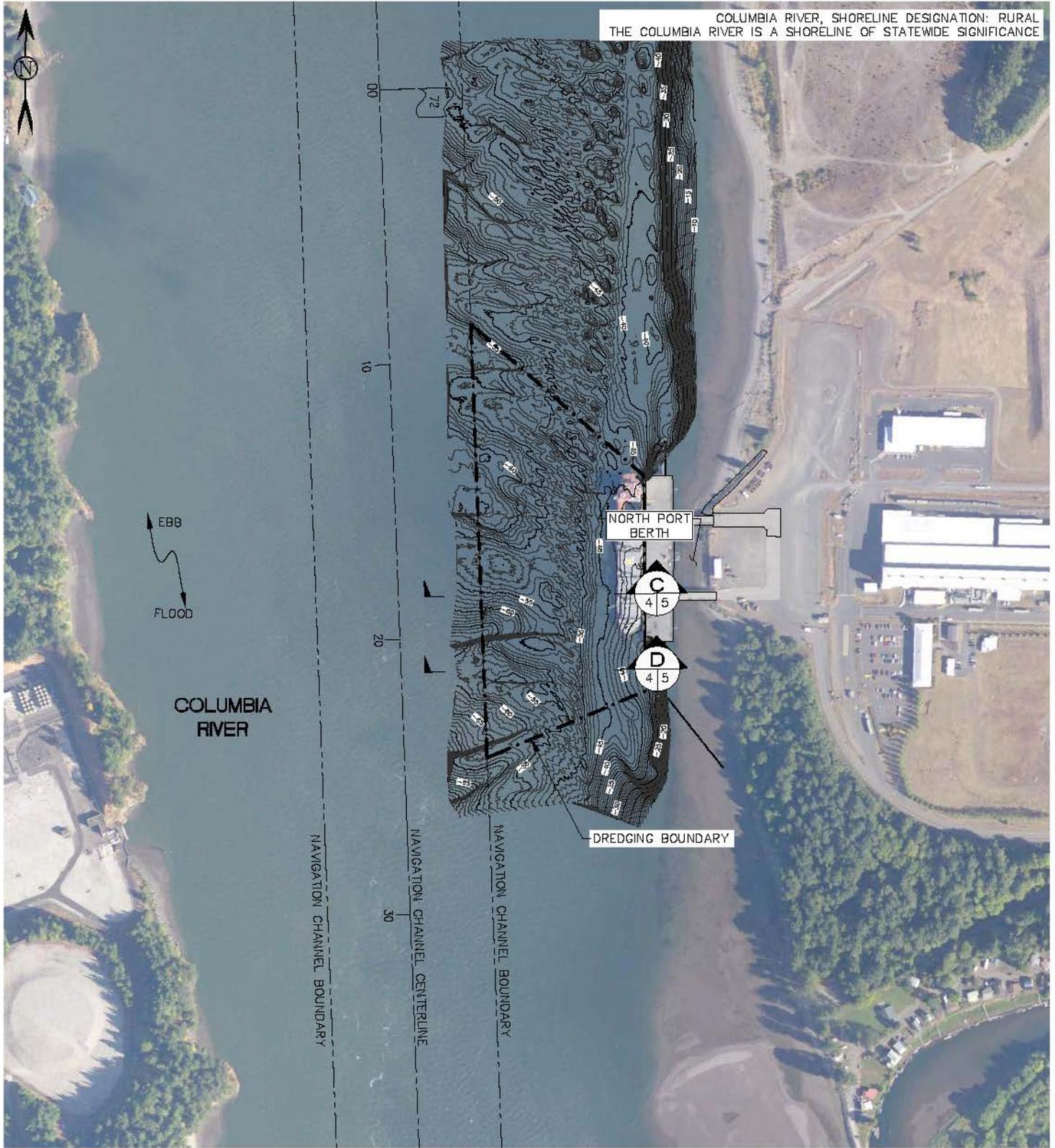
AT: TEMCO BERTH (FORMERLY UNITED HARVEST)

COUNTY: COWLITZ

SHEET 3 OF 14

DATE: FEBRUARY 2013

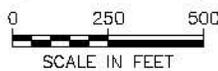
COLUMBIA RIVER, SHORELINE DESIGNATION: RURAL
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NOTE:

- 1. SURVEY CONDUCTED IN AUGUST 2010 BY NORTHWEST HYDRO, INC.

SITE PLAN



PURPOSE: MAINTENANCE DREDGING

LOCATION: LAT: 45° 59' 03.87" LONG: 122° 50' 08.25"

ADJACENT PROPERTY OWNERS: DATUM: CRD

TOTEFF, SERLS, JS KALAMA LLC,
 ARCHWOOD PROTECTION INC, WHITE,
 DNR AND PORT OF KALAMA

**PORT OF KALAMA
 MAINTENANCE DREDGING**

SITE PLAN - NORTH PORT BERTH

APPLICATION BY: PORT OF KALAMA

PROPOSED: MAINTENANCE DREDGING FOR NORTH PORT BERTH

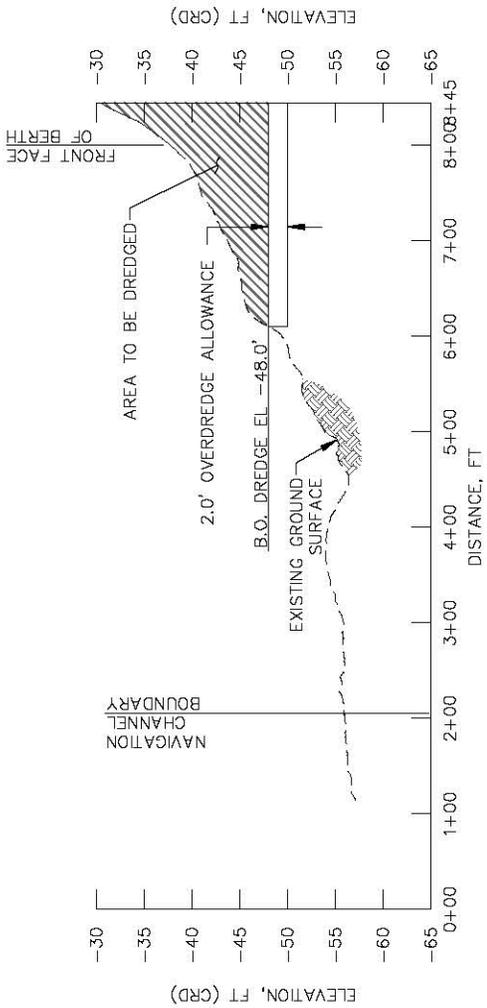
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AT: NORTH PORT BERTH

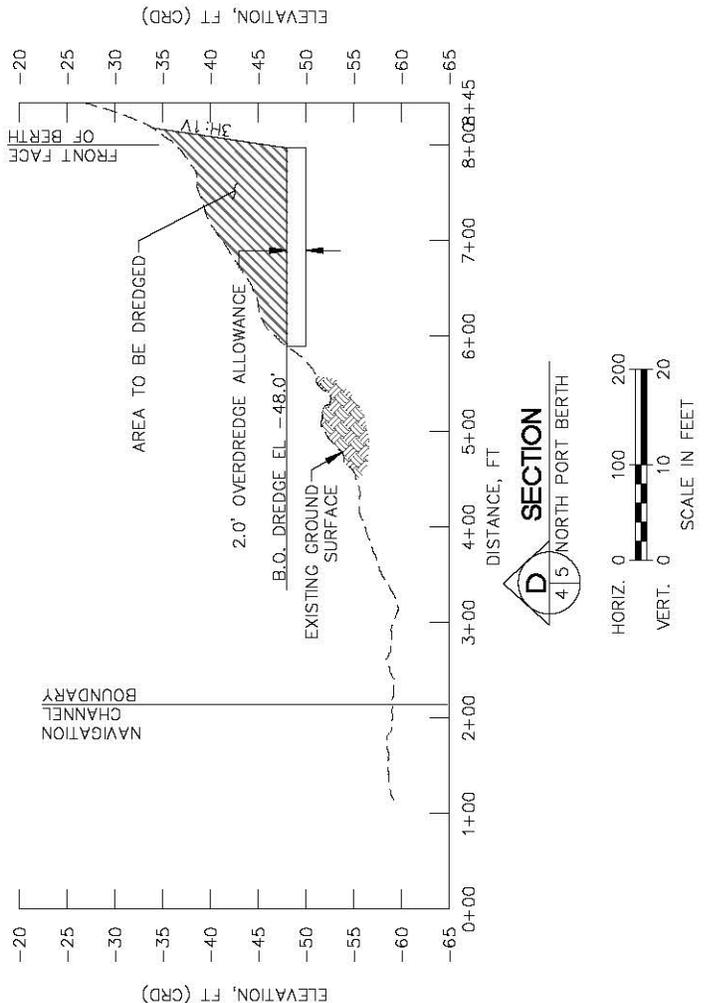
COUNTY: COWLITZ

SHEET 4 OF 14

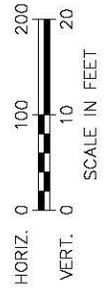
DATE: FEBRUARY 2013



C
 SECTION
 4 | 5 NORTH PORT BERTH



D
 SECTION
 4 | 5 NORTH PORT BERTH



PURPOSE: MAINTENANCE DREDGING

LOCATION: LAT: 45° 59' 03.87" LONG: 122° 50' 08.25"

ADJACENT PROPERTY OWNERS: DATUM: CRD

TOTTEFF, SERLS, JS KALAMA LLC,
 ARCHWOOD PROTECTION INC, WHITE,
 DNR AND PORT OF KALAMA

**PORT OF KALAMA
 MAINTENANCE DREDGING**

SECTIONS - NORTH PORT BERTH

APPLICATION BY: PORT OF KALAMA

PROPOSED: MAINTENANCE DREDGING
 FOR NORTH PORT BERTH

IN: COLUMBIA RIVER, RIVER MILE 72

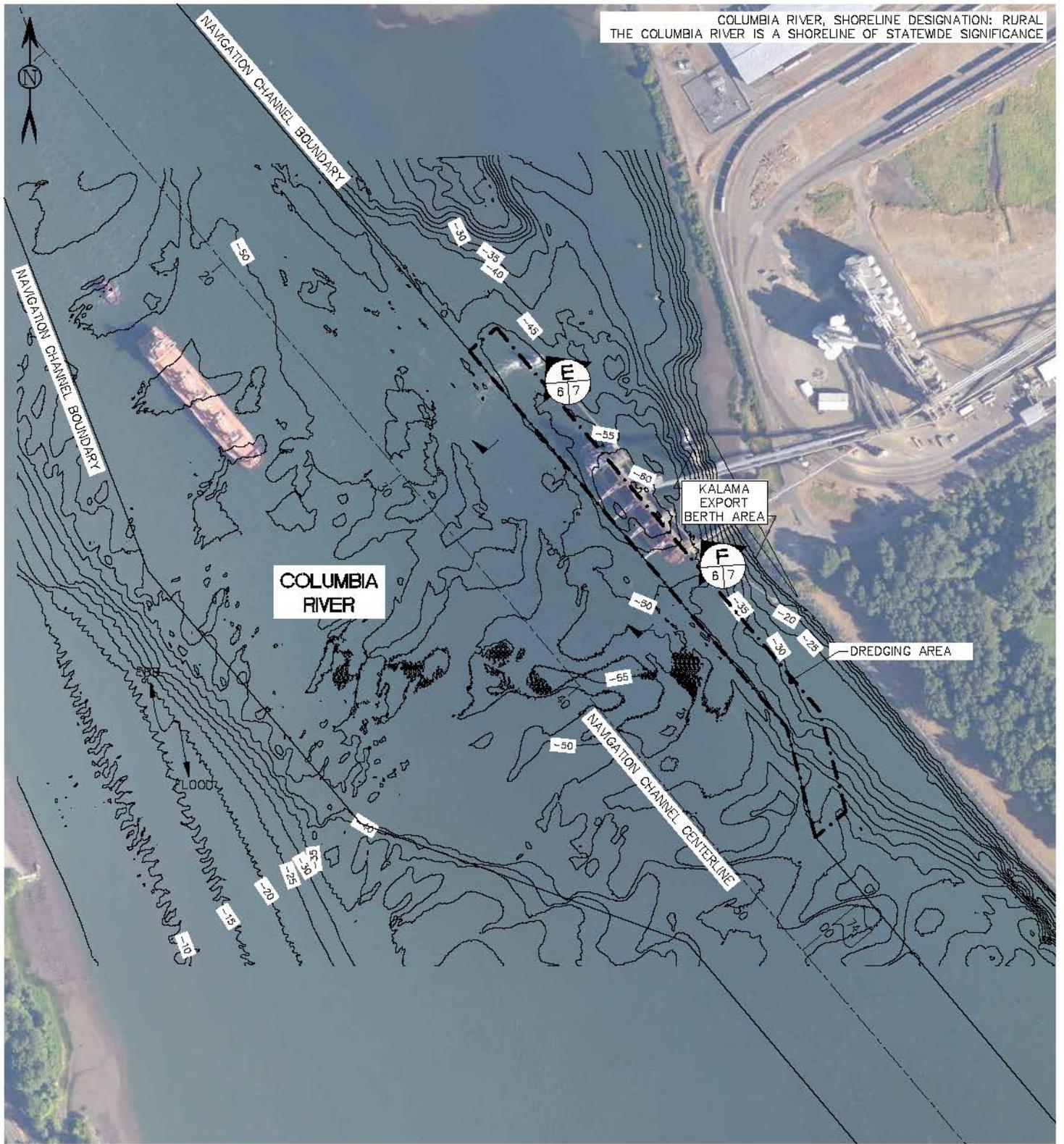
AT: NORTH PORT BERTH

COUNTY: COWLITZ

SHEET 5 OF 14

DATE: FEBRUARY 2013

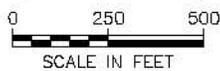
COLUMBIA RIVER, SHORELINE DESIGNATION: RURAL
THE COLUMBIA RIVER IS A SHORELINE OF STATEWIDE SIGNIFICANCE



NOTE:

- 1. SURVEY CONDUCTED BETWEEN SEPT 2008 AND FEB 2009 BY NOAA

SITE PLAN



PURPOSE: MAINTENANCE DREDGING

LOCATION: LAT: 46° 1' 36.60" LONG: 122° 52' 0.74"

ADJACENT PROPERTY OWNERS: PORT OF KALAMA
DATUM: CRD

**PORT OF KALAMA
MAINTENANCE DREDGING
SITE PLAN - KALAMA EXPORT
BERTH DREDGING AREA**

APPLICATION BY: PORT OF KALAMA

PROPOSED: MAINTENANCE DREDGING AT
KALAMA EXPORT BERTH

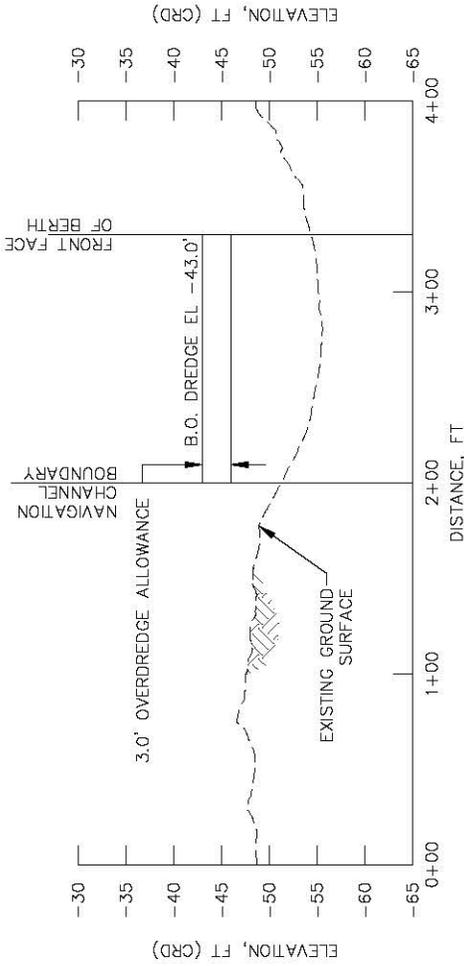
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AT: KALAMA EXPORT BERTH

COUNTY: COWLITZ

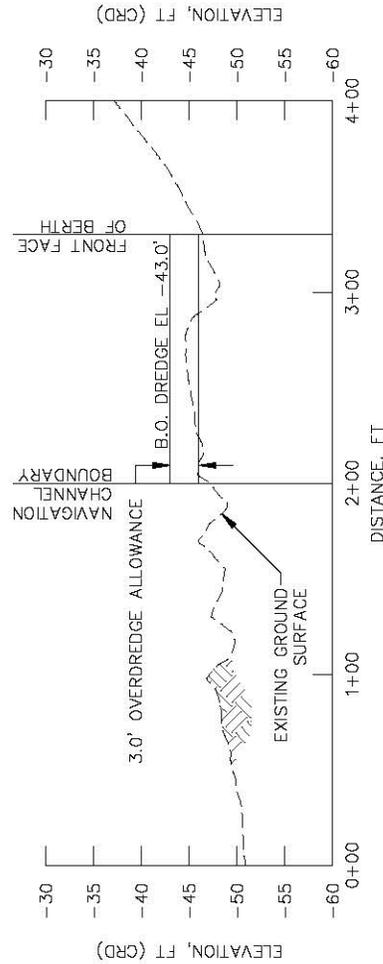
SHEET 6 OF 14

DATE: FEBRUARY 2013



E SECTION
 67 KALAMA EXPORT

HORIZ. 0 50 100
 VERT. 0 10 20
 SCALE IN FEET



F SECTION
 67 KALAMA EXPORT

HORIZ. 0 50 100
 VERT. 0 10 20
 SCALE IN FEET

PURPOSE: MAINTENANCE DREDGING

LOCATION: LAT: 46° 1' 36.60" LONG: 122° 52' 0.74"

ADJACENT PROPERTY OWNERS: PORT OF KALAMA
DATUM: CRD

**PORT OF KALAMA
 MAINTENANCE DREDGING
 SECTIONS - KALAMA EXPORT
 BERTH**

APPLICATION BY: PORT OF KALAMA

PROPOSED: MAINTENANCE DREDGING AT
 KALAMA EXPORT BERTH

IN: COLUMBIA RIVER, RIVER MILE 74

AT: KALAMA EXPORT BERTH

COUNTY: COWLITZ

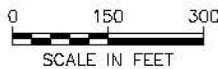
SHEET 7 OF 14

DATE: FEBRUARY 2013

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SITE PLAN



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LOCATION: LAT: 46° 0' 27.78" LONG: 122° 50' 51.49"

ADJACENT PROPERTY OWNERS: PORT OF KALAMA
DATUM: CRD

**PORT OF KALAMA
MAINTENANCE DREDGING**

**SITE PLAN - PORT OF KALAMA
MARINA**

APPLICATION BY: PORT OF KALAMA

PROPOSED: PORT OF KALAMA
MAINTENANCE DREDGING

IN: COLUMBIA RIVER, RIVER MILE 75

AT: PORT OF KALAMA MARINA

COUNTY: COWLITZ

SHEET 8 OF 14

DATE: FEBRUARY 2013

COLUMBIA RIVER, SHORELINE DESIGNATION: RURAL
THE COLUMBIA RIVER IS A SHORELINE OF STATEWIDE SIGNIFICANCE



COLUMBIA RIVER

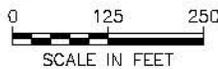
DIKE 71.87

KNIFE RIVER
PLACEMENT SITE

EBB

FLOOD

SITE PLAN



NOTE:

- 1. USACE OHW = 11.6' CRD AT RM 72.0

PURPOSE: MAINTENANCE DREDGING

LOCATION: LAT: 45° 59' 25.60" LONG: 122° 50' 17.84"

ADJACENT PROPERTY OWNERS: PORT OF KALAMA
DATUM: CRD

**PORT OF KALAMA
MAINTENANCE DREDGING**

**SITE PLAN - KNIFE RIVER
PLACEMENT SITE**

APPLICATION BY: PORT OF KALAMA

PROPOSED: UPLAND PLACEMENT OF DREDGED MATERIAL

IN: COLUMBIA RIVER, RIVER MILE 72

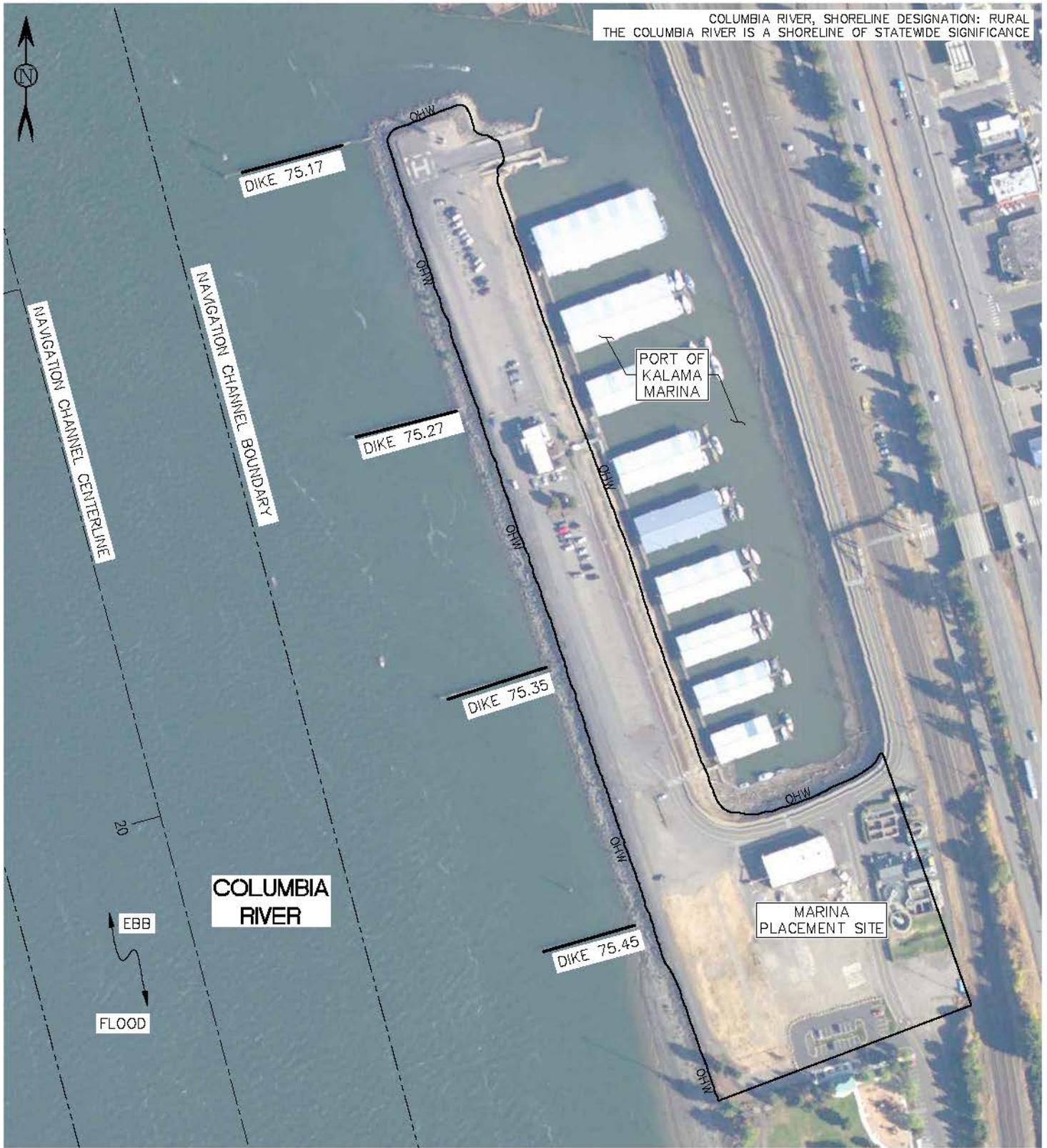
AT: KNIFE RIVER PLACEMENT SITE

COUNTY: COWLITZ

SHEET 9 OF 14

DATE: FEBRUARY 2013

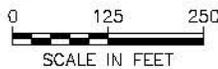
COLUMBIA RIVER, SHORELINE DESIGNATION: RURAL
THE COLUMBIA RIVER IS A SHORELINE OF STATEWIDE SIGNIFICANCE



NOTE:

1. USACE OHW = 12.0' CRD AT RM 75.0

SITE PLAN



PURPOSE: MAINTENANCE DREDGING

LOCATION: LAT: 45° 59' 25.60" LONG: 122° 50' 17.84"

ADJACENT PROPERTY OWNERS: PORT OF KALAMA
DATUM: CRD

**PORT OF KALAMA
MAINTENANCE DREDGING**

**SITE PLAN - MARINA
PLACEMENT SITE**

APPLICATION BY: PORT OF KALAMA

PROPOSED: UPLAND PLACEMENT OF DREDGED MATERIAL
IN: COLUMBIA RIVER, RIVER MILE 75
AT: MARINA PLACEMENT SITE
COUNTY: COWLITZ

SHEET 10 OF 14 DATE: FEBRUARY 2013

COLUMBIA RIVER, SHORELINE DESIGNATION: RURAL
THE COLUMBIA RIVER IS A SHORELINE OF STATEWIDE SIGNIFICANCE



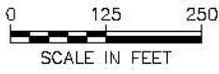
COLUMBIA RIVER

SOUTHPORT PLACEMENT SITE

NOTE:

- 1. USACE OHW = 12.0' CRD AT RM 76.0

SITE PLAN



PURPOSE: MAINTENANCE DREDGING
LOCATION: LAT: 45° 59' 25.60" LONG: 122° 50' 17.84"
ADJACENT PROPERTY OWNERS: PORT OF KALAMA
DATUM: CRD

**PORT OF KALAMA
MAINTENANCE DREDGING**

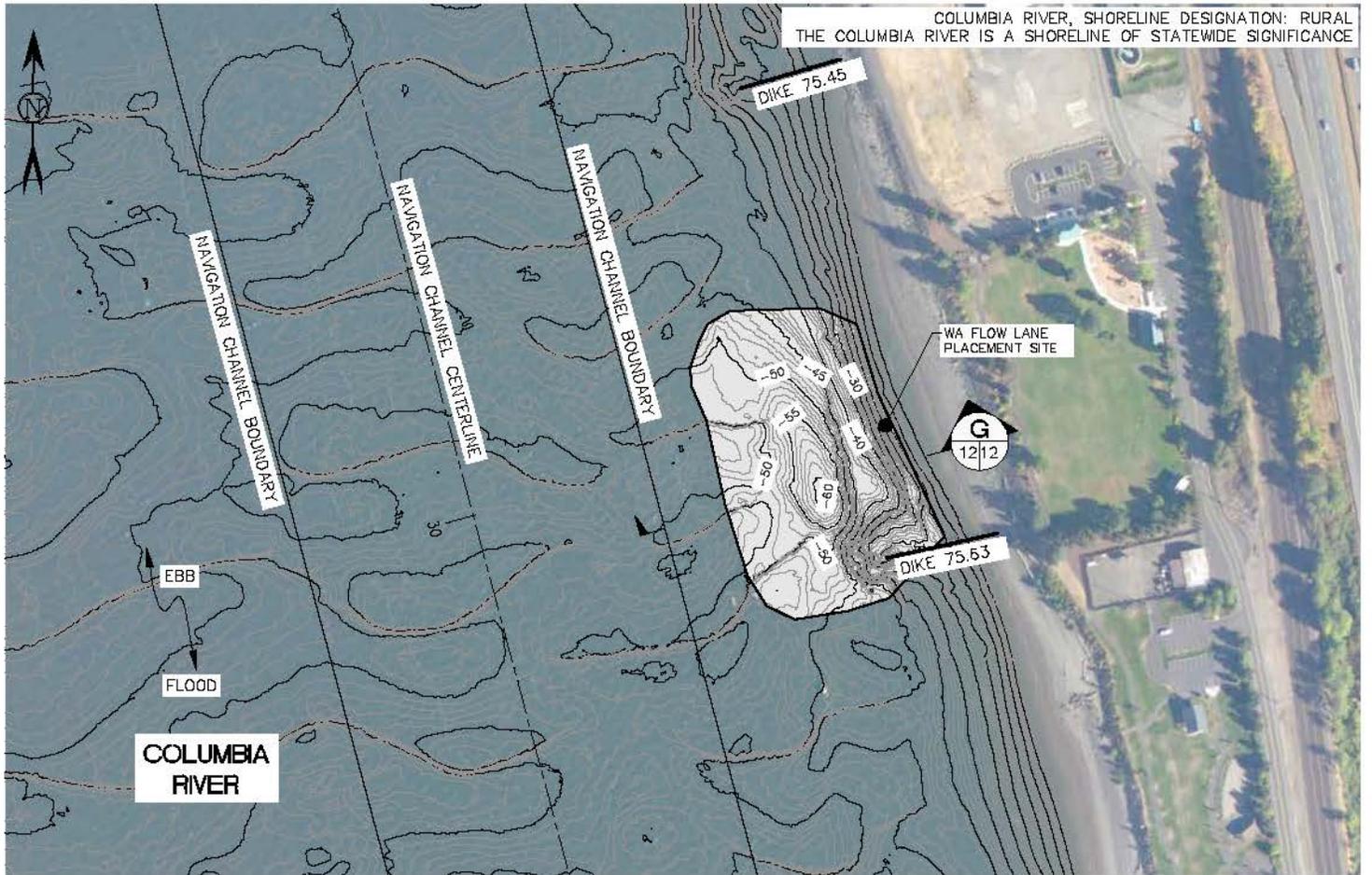
**SITE PLAN - SOUTHPORT
PLACEMENT SITE**

APPLICATION BY: PORT OF KALAMA

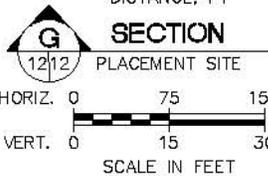
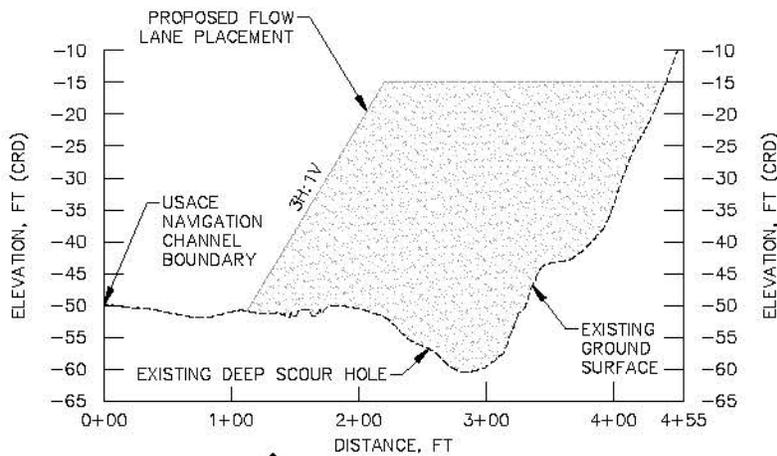
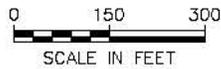
PROPOSED: UPLAND PLACEMENT OF DREDGED MATERIAL
IN: COLUMBIA RIVER, RIVER MILE 77
AT: SOUTHPORT PLACEMENT SITE
COUNTY: COWLITZ

SHEET 11 OF 14 DATE: FEBRUARY 2013

COLUMBIA RIVER, SHORELINE DESIGNATION: RURAL
 THE COLUMBIA RIVER IS A SHORELINE OF STATEWIDE SIGNIFICANCE



SITE PLAN



NOTE:

1. SURVEY CONDUCTED BETWEEN SEPT 2008 AND FEB 2009 BY NOAA

PURPOSE: MAINTENANCE DREDGING

LOCATION: LAT: 46° 00' 11.00" LONG: 122° 50' 50.00"

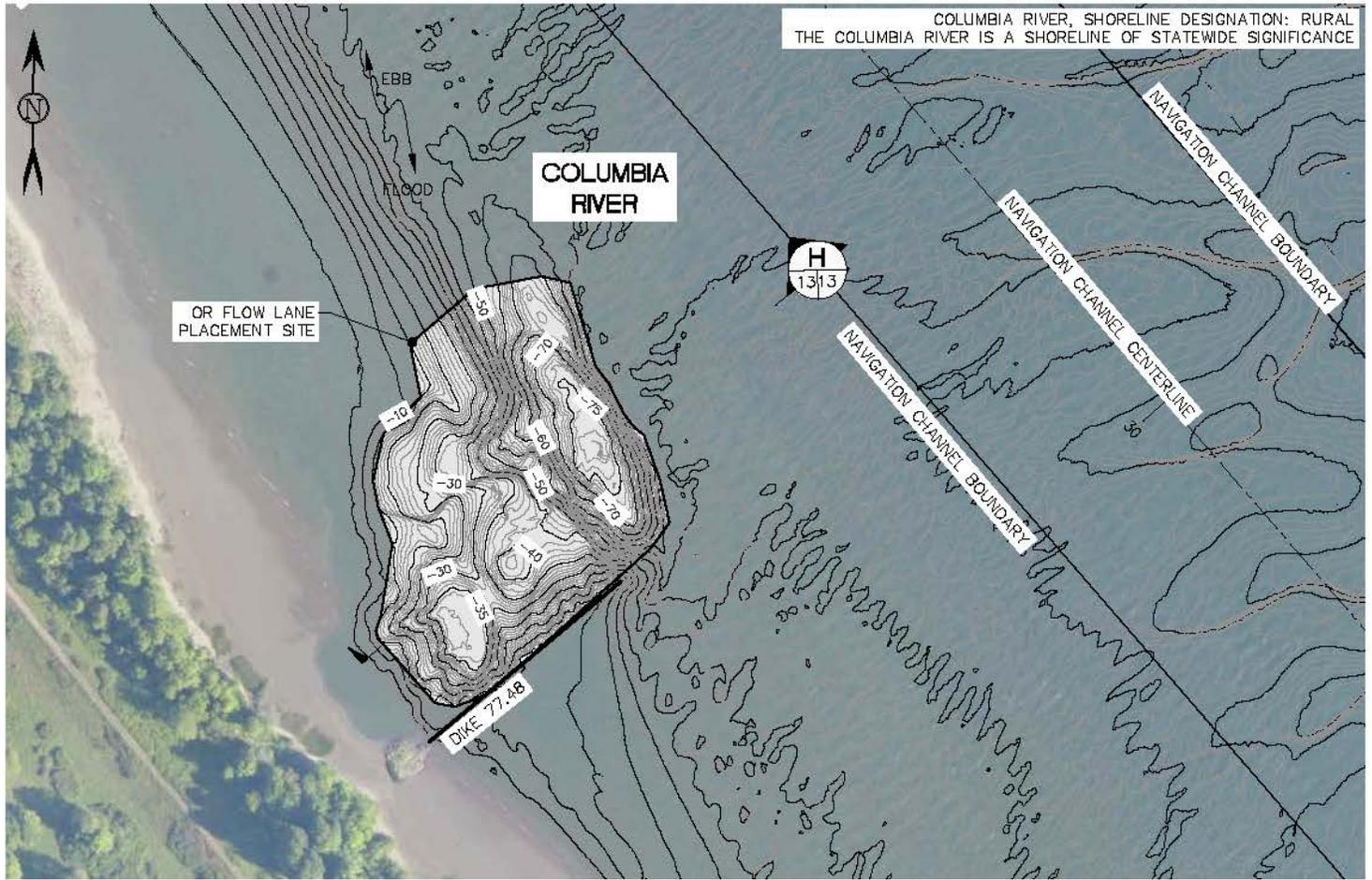
ADJACENT PROPERTY OWNERS: PORT OF KALAMA
DATUM: CRD

**PORT OF KALAMA
 MAINTENANCE DREDGING
 WASHINGTON FLOW LANE
 PLACEMENT SITE**

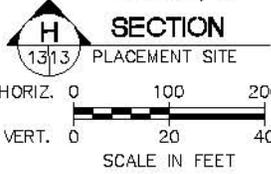
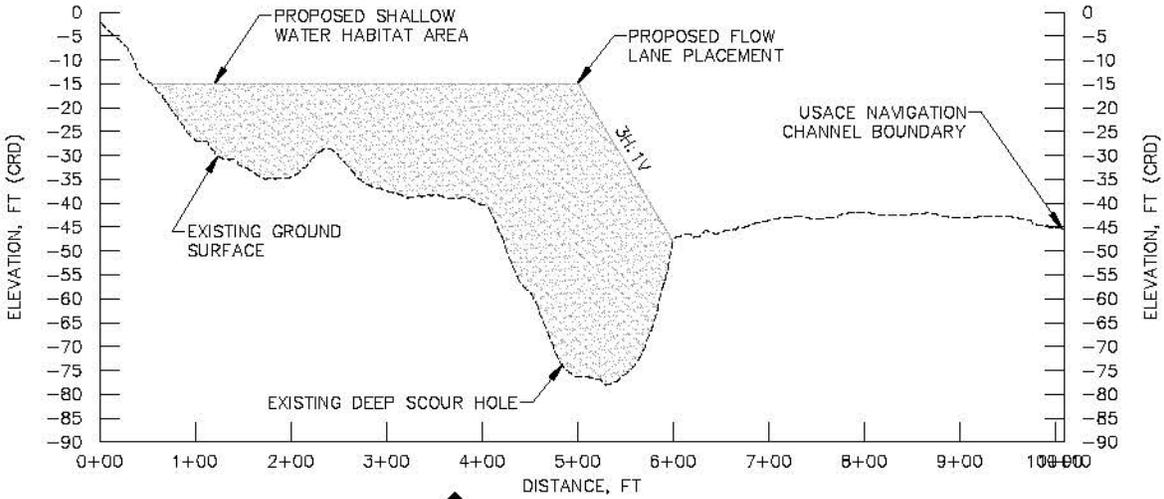
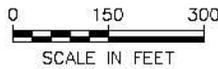
APPLICATION BY: PORT OF KALAMA

PROPOSED: FLOW LANE PLACEMENT OF DREDGED MATERIAL
IN: COLUMBIA RIVER, RIVER MILE 75
AT: WA FLOW LANE PLACEMENT SITE
COUNTY: COWLITZ

SHEET 12 OF 14 DATE: FEBRUARY 2013



SITE PLAN



NOTE:

1. SURVEY CONDUCTED BETWEEN SEPT 2008 AND FEB 2009 BY NOAA

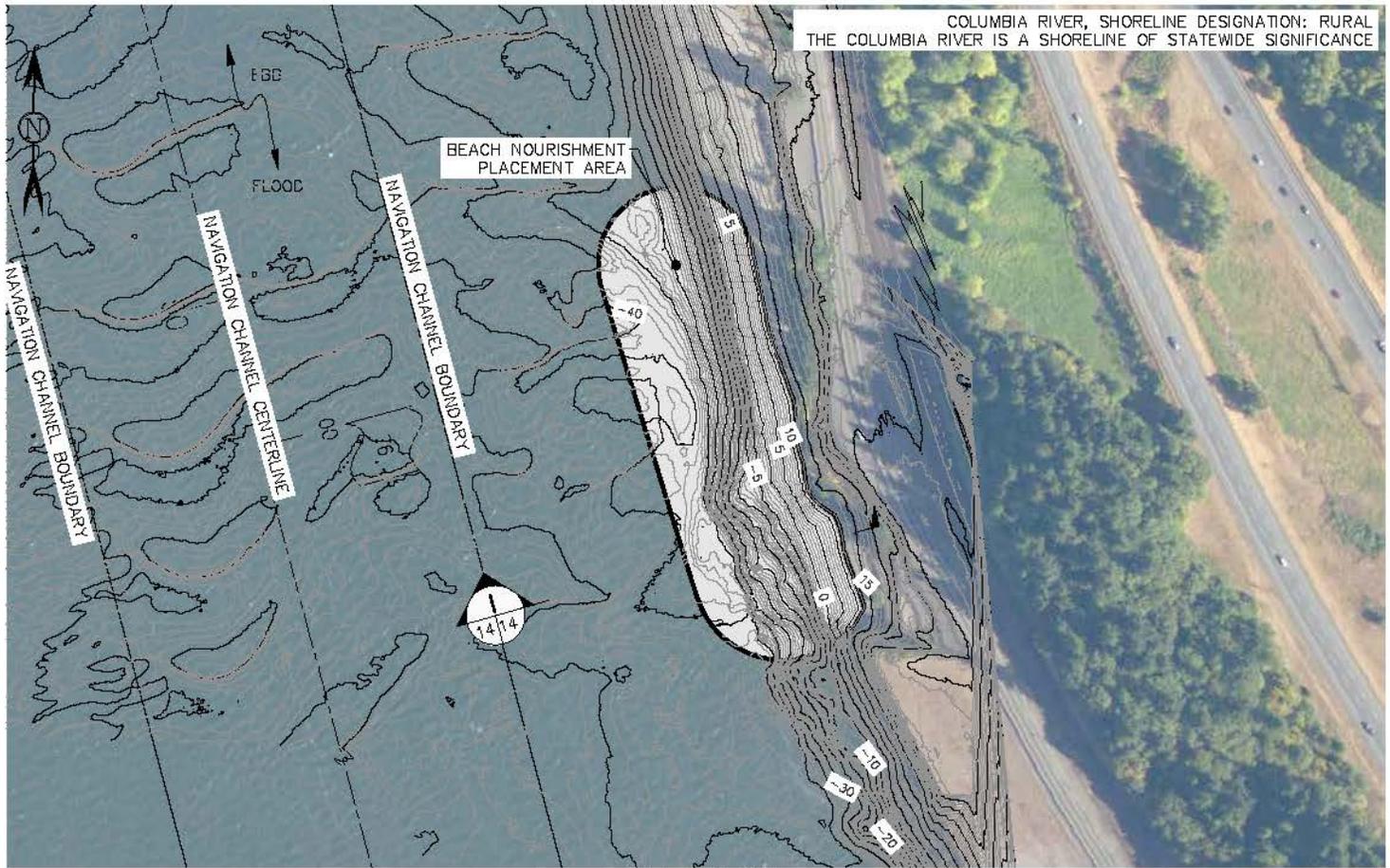
PURPOSE: MAINTENANCE DREDGING
LOCATION: LAT: 45° 58' 48.00" LONG: 122° 50' 28.00"
ADJACENT PROPERTY OWNERS: PORT OF KALAMA
DATUM: CRD

**PORT OF KALAMA
MAINTENANCE DREDGING
OREGON FLOW LANE
PLACEMENT SITE**
APPLICATION BY: PORT OF KALAMA

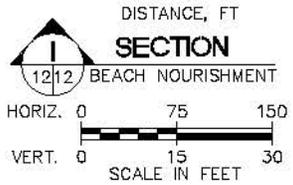
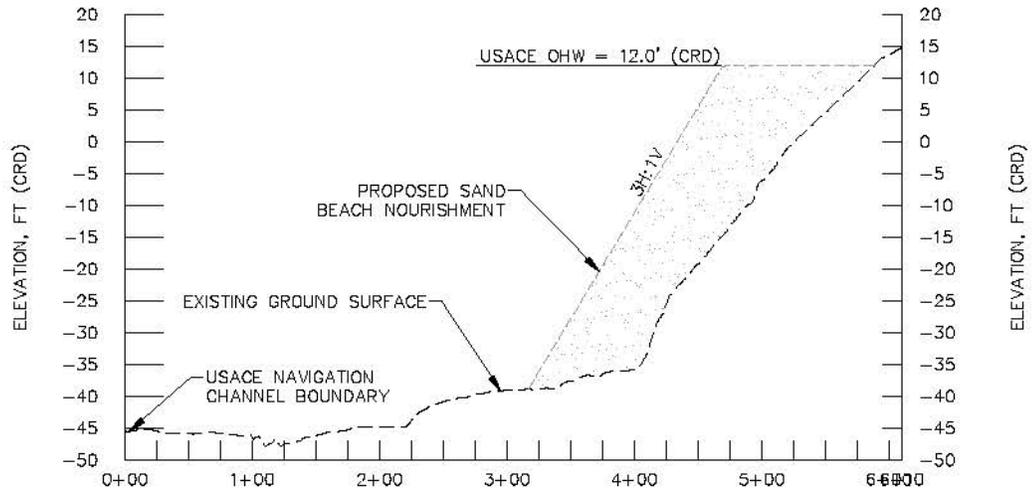
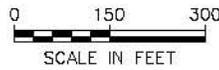
PROPOSED: FLOW LANE PLACEMENT OF DREDGED MATERIAL
IN: COLUMBIA RIVER, RIVER MILE 77.5
AT: OR FLOW LANE PLACEMENT SITE
COUNTY: COWLITZ

SHEET 13 OF 14 DATE: FEBRUARY 2013

COLUMBIA RIVER, SHORELINE DESIGNATION: RURAL
 THE COLUMBIA RIVER IS A SHORELINE OF STATEWIDE SIGNIFICANCE



SITE PLAN



NOTE:

1. SURVEY CONDUCTED BETWEEN SEPT 2008 AND FEB 2009 BY NOAA

PURPOSE: MAINTENANCE DREDGING

LOCATION: LAT: 45° 59' 46.85" LONG: 122° 50' 37.90"

ADJACENT PROPERTY OWNERS: PORT OF KALAMA
DATUM: CRD

**PORT OF KALAMA
 MAINTENANCE DREDGING
 BEACH NOURISHMENT SITE**

APPLICATION BY: PORT OF KALAMA

PROPOSED: BEACH NOURISHMENT

IN: COLUMBIA RIVER, RIVER MILE 76

AT: BEACH NOURISHMENT SITE

COUNTY: COWLITZ

SHEET 14 OF 14

DATE: FEBRUARY 2013

Willamette River

North

PORTLAND

Ross Island Sand and Gravel
Dredge Material Placement Site

ENCLOSURE

NWP-1994-462-1

