SEPA Environmental Checklist

A. Background Find help answering background questions

1. **Name of proposed project, if applicable:**

   Al Helenberg Memorial Boat Launch Maintenance Dredging

2. **Name of applicant:**

   Dave Vorse, City of Castle Rock Director of Public Works

3. **Address and phone number of applicant and contact person:**

   Address: 360 A Street SW – P.O. Box 370 Castle Rock, WA 98611
   E-mail: crpwd@ci.castle-rock.wa.us
   Phone Number: 360-274-7478

4. **Date checklist prepared:**

   June 10, 2025

5. **Agency requesting checklist:**

   City of Castle Rock

6. **Proposed timing of schedule (including phasing, if applicable):**

   After all permits are received. In-water dredging is anticipated to be August 2026.

7. **Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.**

   This is a proposal for maintenance dredging, so activities will occur until the approval's expiration date.

8. **List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.**

   JARPA, mitigation plan, shoreline narrative, critical areas report, NMFS and USFWS biological assessment, cultural resources report.

9. **Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.**

   No.

List any government approvals or permits that will be needed for your proposal, if known.

- Suitability Determination – Dredged Material Management Program
- Shoreline Substantial Development Permit – City of Castle Rock
- Hydraulic Project Approval - Washington Department of Fish and Wildlife
- Endangered Species Act Consultations – National Marine Fisheries Service, U.S. Fish and Wildlife Service.
- Section 10 Permit - U.S. Army Corps of Engineers
- Section 401 Water-Quality Certification - Washington Department of Ecology

10. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

The City proposes to remove a total of approximately 500 cubic yards per year of accumulated sediment in up to six events each year from two areas: 1) above the waterline on the boat ramp and floating docks with river water pumped through a spray nozzle, with skid steer, excavator, or hand tools, and 2) below the waterline within the dredging prism by hydraulic dredging.

Dewatering associated with hydraulic dredging will occur in a temporary structure and filtered water will drain back to the river through a hose. Heavy equipment will transfer sediment into trucks that will haul the material to City property that is already used for stockpiles, and the material will be used for City landscaping.

11. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

Accessed from 5040 Westside Highway. Site address is 240 North County Drive, Castle Rock, Washington, 98611. Section 10, T9N, R2W. See the attached vicinity map.

B.Environmental Elements

1. Earth

Find help answering earth questions[1]

a. General description of the site:

Circle or highlight one: Flat, rolling, hilly, steep slopes, mountainous, other:

[1] https://ecology.wa.gov/regulations-permits/sepa/environmental-review/sepa-guidance/sepa-checklist-guidance/sepa-checklist-section-b-environmental-elements/environmental-elements-earth

b. What is the steepest slope on the site (approximate percent slope)?

Approximately 35%.

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them, and note any agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.

Dredged material: sandy.

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

No.

e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill.

No fill is proposed waterward of the ordinary high water mark (OHWM), but this is a dredging project, so sediment will be removed from the Cowlitz River in the proposed dredging prism. Upland material placement will be seeded with a native seed mix.

f. Could erosion occur because of clearing, construction, or use? If so, generally describe.

No clearing is necessary. There is no potential for erosion.

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

No impervious surfaces are proposed.

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any.

Return water from the dewatering area will be released to the river through a hose.

2. Air

Find help answering air questions[2]

a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.

[2] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-Air

During dredging in August, heavy-equipment diesel emissions will be necessary to dredge in the water, and diesel equipment will remove sediment from the ramp after high-water events. Haul trucks will move the sediment from the dewatering area to the onsite placement areas.

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

No.

c. Proposed measures to reduce or control emissions or other impacts to air, if any:

Equipment will have the required air-emissions reduction measures and will operate according to manufacturers' instructions.

3. Water

Find help answering water questions[3]

a. Surface:

Find help answering surface water questions[4]

1. Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

The Cowlitz River.

2. Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

Yes. Dredging will occur in the Cowlitz River.

3. Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

No fill will occur in the river, and there are no other waterbodies present. Dredge material volumes are estimated at 500 cubic yards per year.

4. Will the proposal require surface water withdrawals or diversions? Give a general description, purpose, and approximate quantities if known.

[3] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-3-Water
[4] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-3-Water/Environmental-elements-Surface-water

Water from the river will be used to wash sediment from the ramp and dock. The sediment removed from hydraulic dredging will be dewatered in the temporary structure, and the water will be filtered allowed to drain back into the river.

5. **Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.**

   Yes, dredging will occur in the river. Upland placement will not occur in the 100-year floodplain.

6. **Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.**

   No.

b. Ground:

Find help answering ground water questions[5]

1. **Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? Give a general description, purpose, and approximate quantities if known.**

   No.

2. **Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (domestic sewage; industrial, containing the following chemicals…; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.**

   No waste materials will be discharged to the ground from any sources.

c. Water Runoff (including stormwater):

1. **Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.**

   There will be no changes to stormwater management. Water from the temporary dewatering structure will be returned to the river through a hose.

2. **Could waste materials enter ground or surface waters? If so, generally describe.**

   No.

3. **Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.**

[5] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-3-Water/Environmental-elements-Groundwater

No.

d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any:

None.

4. Plants

Find help answering plants questions

a. Check the types of vegetation found on the site:

☐ **deciduous tree: alder, maple, aspen, other**

☐ **evergreen tree: fir, cedar, pine, other**

☐ **shrubs**

☒ **grass and forbs**

☐ **pasture**

☐ **crop or grain**

☐ **orchards, vineyards, or other permanent crops.**

☐ **wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other**

☐ **water plants: water lily, eelgrass, milfoil, other**

☐ **other types of vegetation**

b. What kind and amount of vegetation will be removed or altered?

A few weedy herbaceous plants may be buried by dredged material placement.

c. List threatened and endangered species known to be on or near the site.

None.

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any.

None.

e. List all noxious weeds and invasive species known to be on or near the site.

None.

5. Animals

Find help answering animal questions[6]

a. List any birds and other animals that have been observed on or near the site or are known to be on or near the site.

Examples include:

- **Birds: hawk, heron, eagle, songbirds, other:** osprey
- **Mammals: deer, bear, elk, beaver, other:**
- **Fish: bass, salmon, trout, herring, shellfish, other:** pikeminnow

b. List any threatened and endangered species known to be on or near the site.

4 ESUs/DPSs of salmon and steelhead, eulachon.

c. Is the site part of a migration route? If so, explain.

Pacific Flyway.

d. Proposed measures to preserve or enhance wildlife, if any.

Impact avoidance and minimization measures listed in the project description will be implemented.

e. List any invasive animal species known to be on or near the site.

None.

6. Energy and natural resources

Find help answering energy and natural resource questions[7]

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

None.

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

No.

c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any.

Diesel-powered equipment will be used according to manufacturers' instructions.

[6] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-5-Animals
[7] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-6-Energy-natural-resou

7. Environmental health

Health Find help with answering environmental health questions[8]

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur because of this proposal? If so, describe.

No.

1. **Describe any known or possible contamination at the site from present or past uses.**

   None.

2. **Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity.**

   None.

3. **Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project.**

   No toxic or hazardous chemicals will be stored, used, or produced during construction or operation.

4. **Describe special emergency services that might be required.**

   None.

5. **Proposed measures to reduce or control environmental health hazards, if any.**

   None.

b. Noise

1. **What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?**

   Boat motors, vehicles.

2. **What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site)?**

   A barge used for hydraulic dredging, dump trucks, and excavator will be used during daylight hours.

3. **Proposed measures to reduce or control noise impacts, if any:**

[8] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-7-Environmental-health

Diesel-powered equipment will be used according to manufacturers' instructions.

8. Land and shoreline use

Find help answering land and shoreline use questions[9]

a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe.

The site is used as a boat launch with a ramp and dock.

b. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses because of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to nonfarm or non-forest use?

No.

1. **Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how?**

   No.

c. Describe any structures on the site.

Parking lot, boat ramp, dock.

d. Will any structures be demolished? If so, what?

None.

e. What is the current zoning classification of the site?

Parks, Recreation, and Open Space

f. What is the current comprehensive plan designation of the site?

Public/Quasi Public.

g. If applicable, what is the current shoreline master program designation of the site?

Recreation.

h. Has any part of the site been classified as a critical area by the city or county? If so, specify.

Fish and wildlife habitat.

[9] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-8-Land-shoreline-use

i. Approximately how many people would reside or work in the completed project?

There are no residences on the site. The same number of people will work at this site.

j. Approximately how many people would the completed project displace?

None.

k. Proposed measures to avoid or reduce displacement impacts, if any.

No one will be displaced.

l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any.

None are necessary – dredging will only maintain the existing use.

m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term commercial significance, if any:

There is no agricultural or forestry adjacent to the property.

9. Housing

Find help answering housing questions[10]

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

None.

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

None.

c. Proposed measures to reduce or control housing impacts, if any:

None.

10. Aesthetics

Find help answering aesthetics questions[11]

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

No new structures are proposed.

[10] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-9-Housing
[11] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-10-Aesthetics

b. What views in the immediate vicinity would be altered or obstructed?

None.

c. Proposed measures to reduce or control aesthetic impacts, if any:

Not applicable.

11. Light and glare

Find help answering light and glare questions[12]

a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

There will be no changes to lighting.

b. Could light or glare from the finished project be a safety hazard or interfere with views?

No.

c. What existing off-site sources of light or glare may affect your proposal?

None.

d. Proposed measures to reduce or control light and glare impacts, if any:

None.

12. Recreation

Find help answering recreation questions

a. What designated and informal recreational opportunities are in the immediate vicinity?

The public uses the site to launch boats for fishing and recreation.

b. Would the proposed project displace any existing recreational uses? If so, describe.

No.

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

Dredging will only occur below the waterline for 4 to 5 days in August.

[12] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-11-Light-glare

13. Historic and cultural preservation

Find help answering historic and cultural preservation questions[13]

a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers? If so, specifically describe.

No.

b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.

No excavation will occur on upland areas of the project site. The project area and mitigation sites are on dredged material placed by the Corps in the early 1980s when they dredged the river after the Mt. St. Helens eruption. A professional archaeology company submitted a report in 2008 that detailed the investigation and is provided in the application package.

c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.

See answer above.

d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.

If there is an inadvertent discovery, operations will stop until proper authorities are consulted and give permission to continue.

14. Transportation

Find help with answering transportation questions[14]

a. Identify public streets and highways serving the site or affected geographic area and describe proposed access to the existing street system. Show on site plans, if any.

There will be no changes to public access.

[13] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-13-Historic-cultural-p
[14] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-14-Transportation

b. Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop?

No.

c. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle, or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private).

No.

d. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

No.

e. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and non-passenger vehicles). What data or transportation models were used to make these estimates?

There will be no changes to vehicular trips.

f. Will the proposal interfere with, affect, or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe.

No.

g. Proposed measures to reduce or control transportation impacts, if any:

This project is not anticipated to cause transportation impacts of any kind.

15. Public services

Find help answering public service questions[15]

a. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? If so, generally describe.

No.

b. Proposed measures to reduce or control direct impacts on public services, if any.

There will be no direct impacts to public services.

[15] https://ecology.wa.gov/regulations-permits/sepa/environmental-review/sepa-guidance/sepa-checklist-guidance/sepa-checklist-section-b-environmental-elements/environmental-elements-15-public-services

16. Utilities

Find help answering utilities questions[16]

a. **Circle utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other:**

Electricity, water, and a septic system are available at the boat launch facility.

b. **Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.**

None.

C. Signature

Find help about who should sign[17]

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

X

Type name of signee: Dave Vorse

Position and agency/organization: Director of Public Works, City of Castle Rock

Date submitted: June 10, 2025

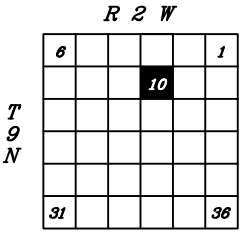
[16] https://ecology.wa.gov/regulations-permits/sepa/environmental-review/sepa-guidance/sepa-checklist-guidance/sepa-checklist-section-b-environmental-elements/environmental-elements-16-utilities

[17] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-C-Signature

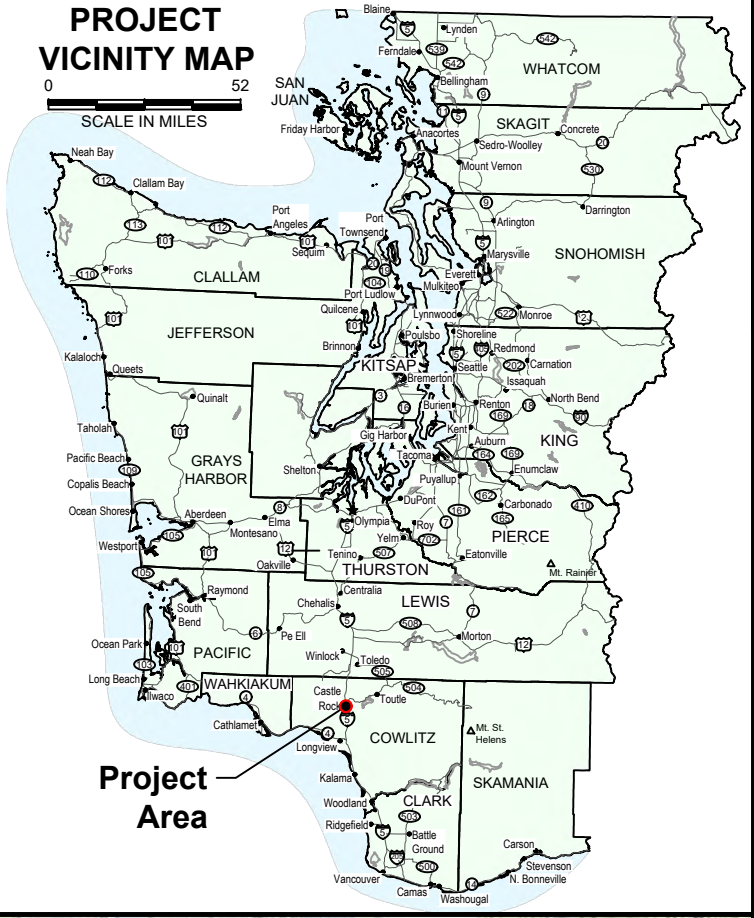
WASHINGTON

46.2784° Latitude
-122.9125° Longitude

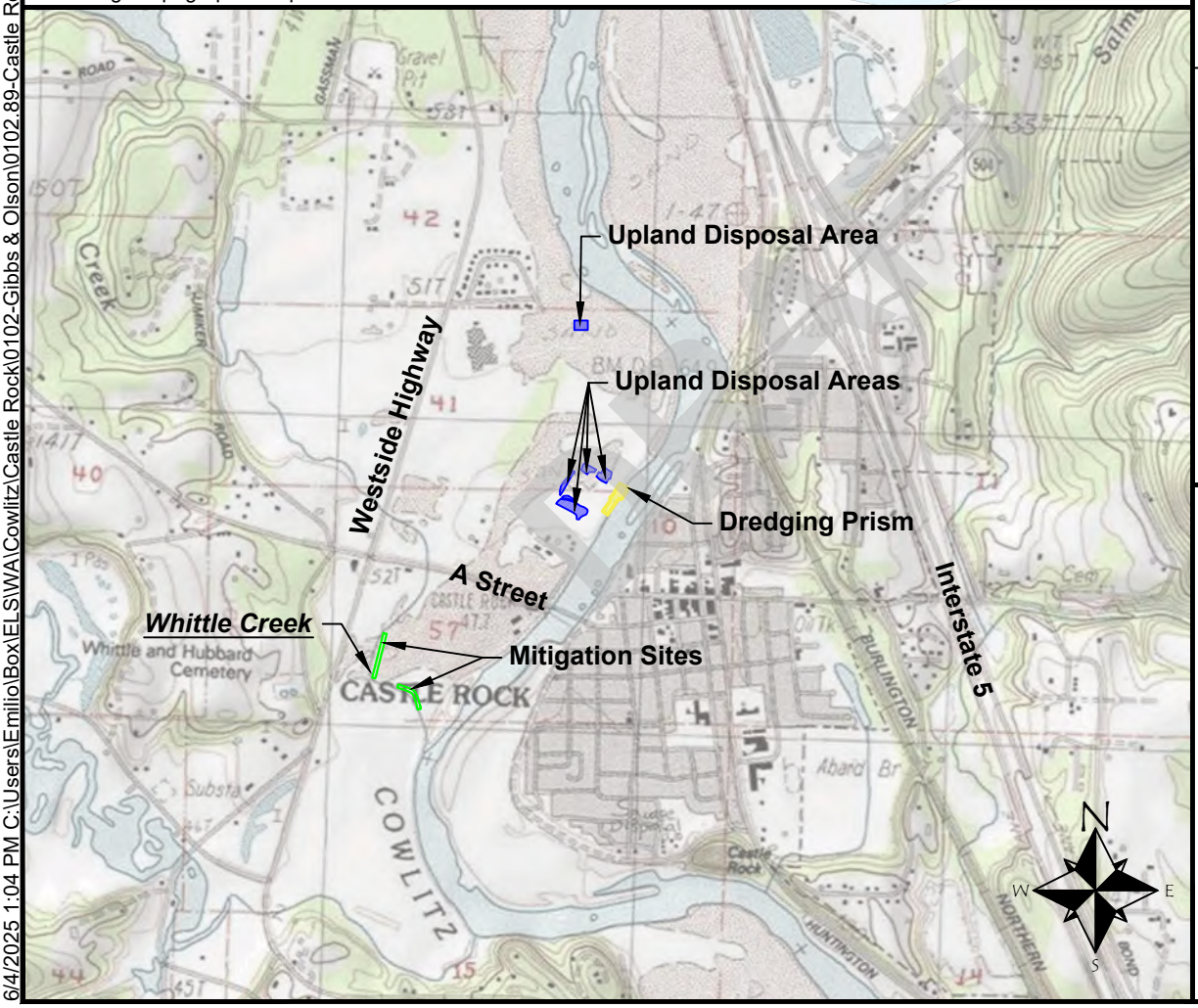
LOCATION MAP



PROJECT VICINITY MAP



NOTE:
Quadrangle topographic map from USGS.



PROPOSED: Maintenance Dredging

IN Cowlitz River
NEAR: Castle Rock
COUNTY: Cowlitz **STATE:** WA
SHEET 1 **OF** 7
DATE: 6/4/25

VICINITY MAP
APPLICANT: City of Castle Rock
PROJECT NAME: Castle Rock Boat Launch Dredging
REFERENCE #: Not Yet Assigned.
SITE LOCATION ADDRESS:
RM 17.6 - Access Rd 5040 Westside Hwy

PURPOSE: Maintain Water Depth at Boat Launch.

DATUM: NAD83
ADJACENT PROPERTY OWNERS:
See JARPA

SCALE IN FEET
0
2000
4000

1157 3rd Ave., Suite 220A
Longview, WA 98632
Phone: (360) 578-1371

Ecological Land Services

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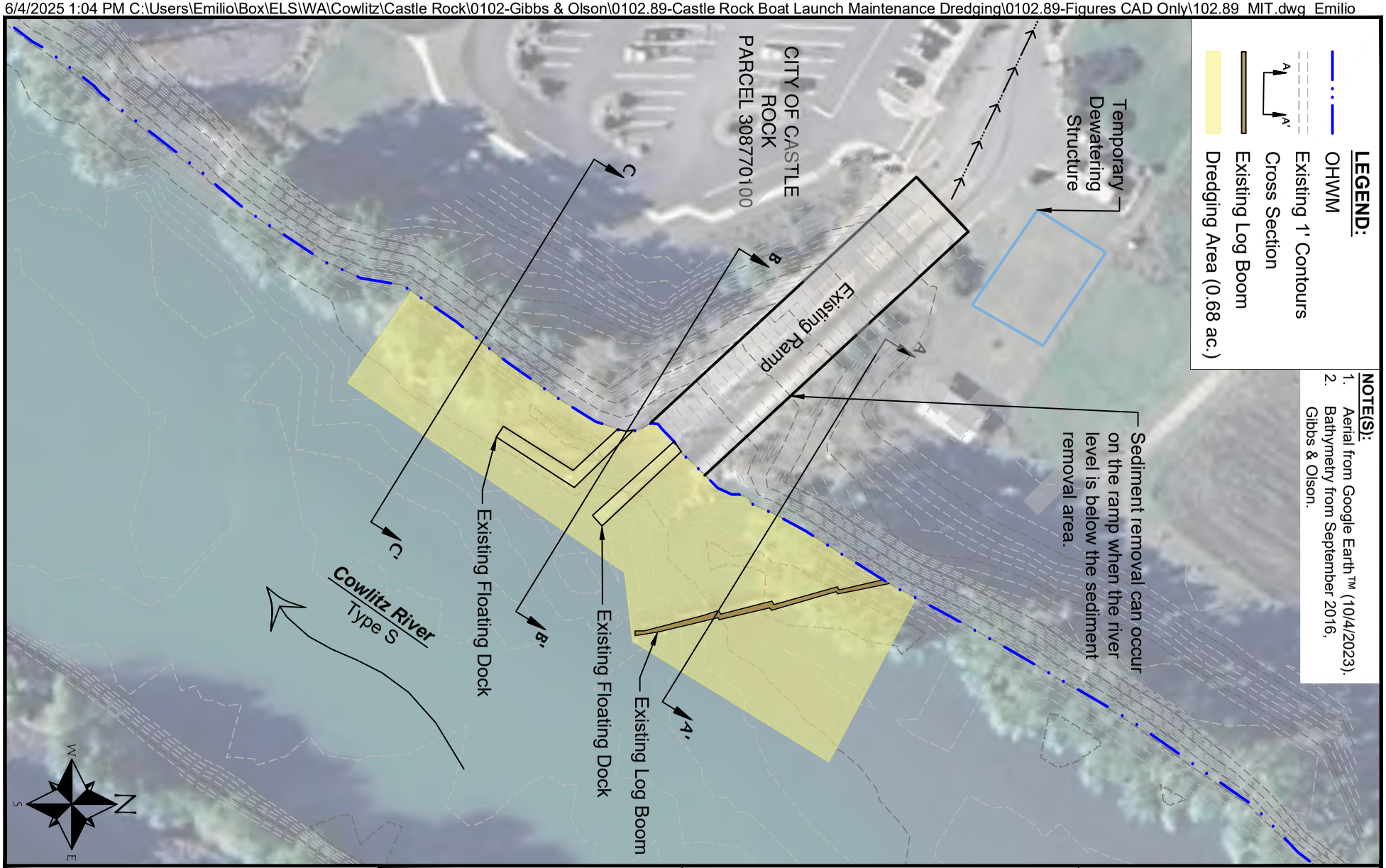

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SCALE IN FEET

Ecological Land Services
1157 3rd Ave., Suite 220A
Longview, WA 98632
Phone: (360) 578-1371

PURPOSE: Maintain Water Depth at Boat Launch.

DATUM: NAD83

ADJACENT PROPERTY OWNERS: See JARPA

DREDGING PRISM

APPLICANT: City of Castle Rock

PROJECT NAME: Castle Rock Boat Launch Dredging

REFERENCE #: Not Yet Assigned.

SITE LOCATION ADDRESS: RM 17.6 - Access Rd 5040 Westside Hwy

PROPOSED: Maintenance Dredging

IN Cowlitz River
NEAR: Castle Rock
COUNTY: Cowlitz **STATE:** WA
SHEET 2 **OF** 7
DATE: 6/4/25

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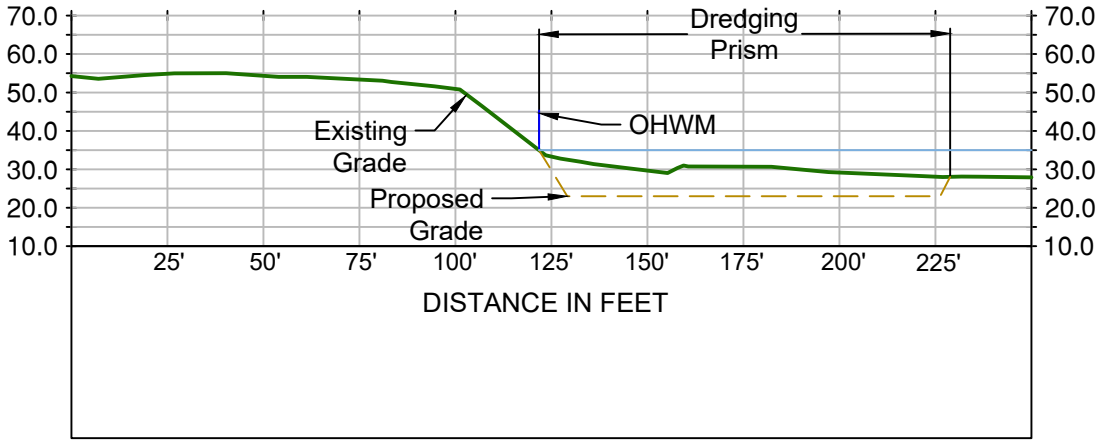
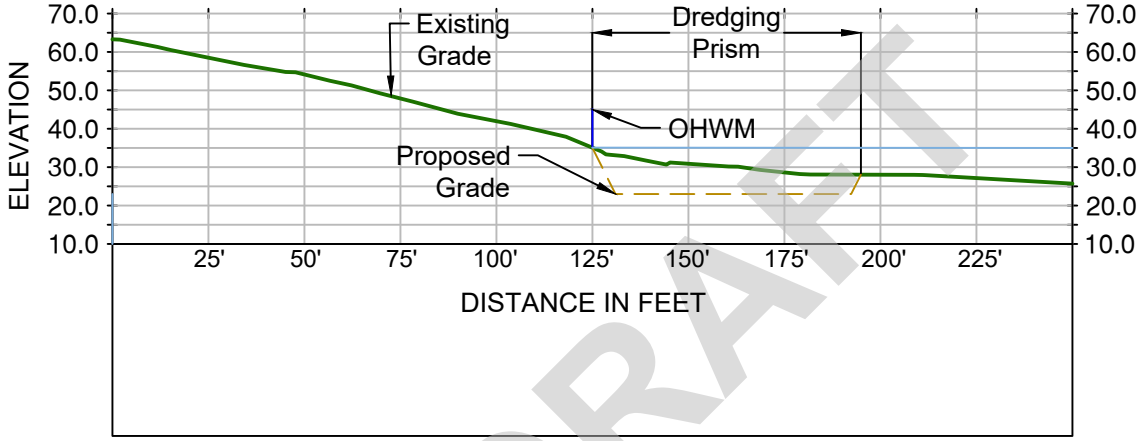
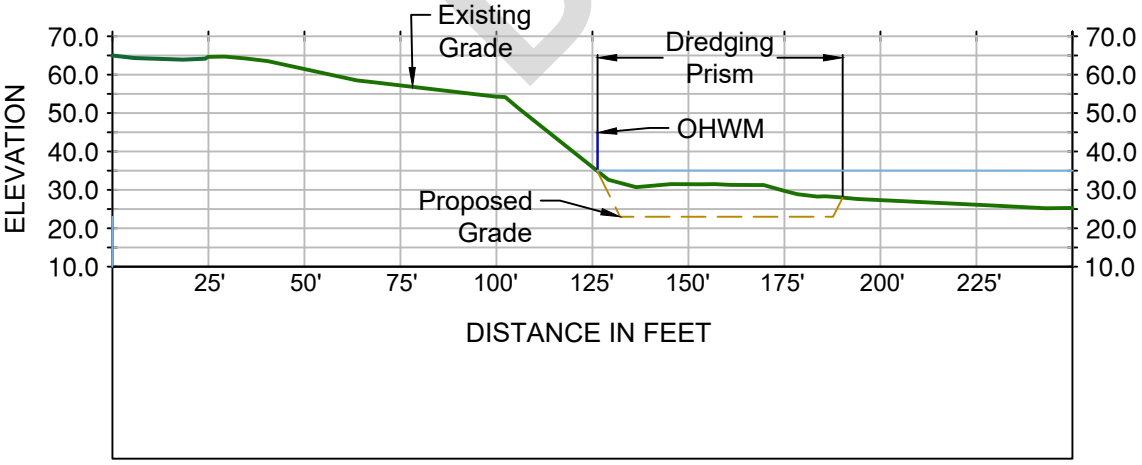
Cross Section A-A'



Cross Section B-B'



Cross Section C-C'



DRAFT

NOTE(S):

1. Green lines indicate existing grade from 2016 bathemetric survey.

CROSS SECTIONS

APPLICANT: City of Castle Rock
PROJECT NAME: Castle Rock Boat Launch Dredging
REFERENCE #: Not Yet Assigned.
SITE LOCATION ADDRESS: RM 17.6 - Access Rd 5040 Westside Hwy

PURPOSE: Maintain Water Depth at Boat Launch.

DATUM: NAD83
ADJACENT PROPERTY OWNERS: See JARPA

PROPOSED: Maintenance Dredging
IN Cowlitz River
NEAR: Castle Rock
COUNTY: Cowlitz **STATE:** WA
SHEET 3 **OF** 7
DATE: 6/4/25

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SCALE IN FEET

1157 3rd Ave., Suite 220A
Longview, WA 98632
Phone: (360) 578-1371
Ecological Land Services

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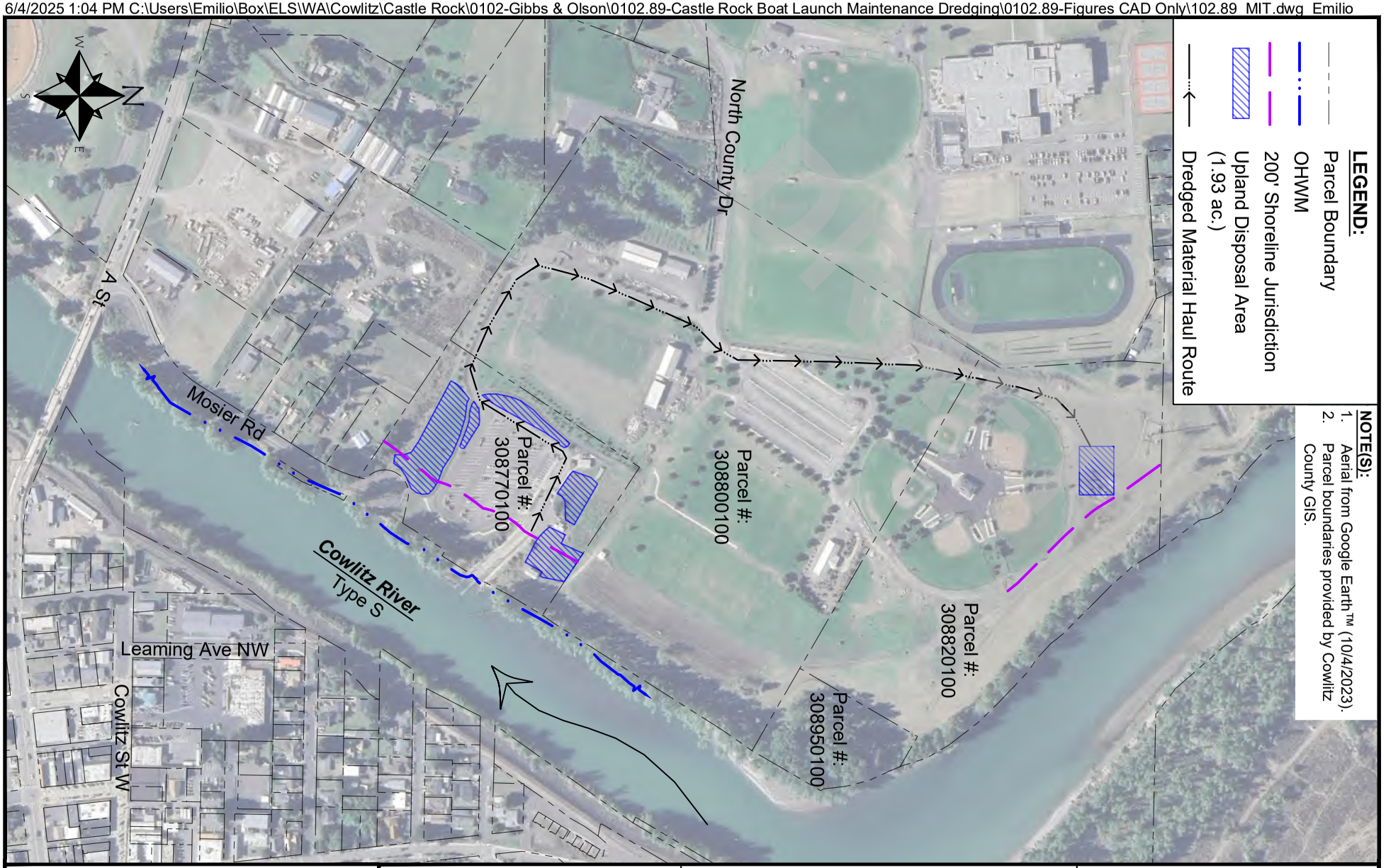

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SCALE IN FEET

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PURPOSE: Maintain Water Depth at Boat Launch.

DATUM: NAD83

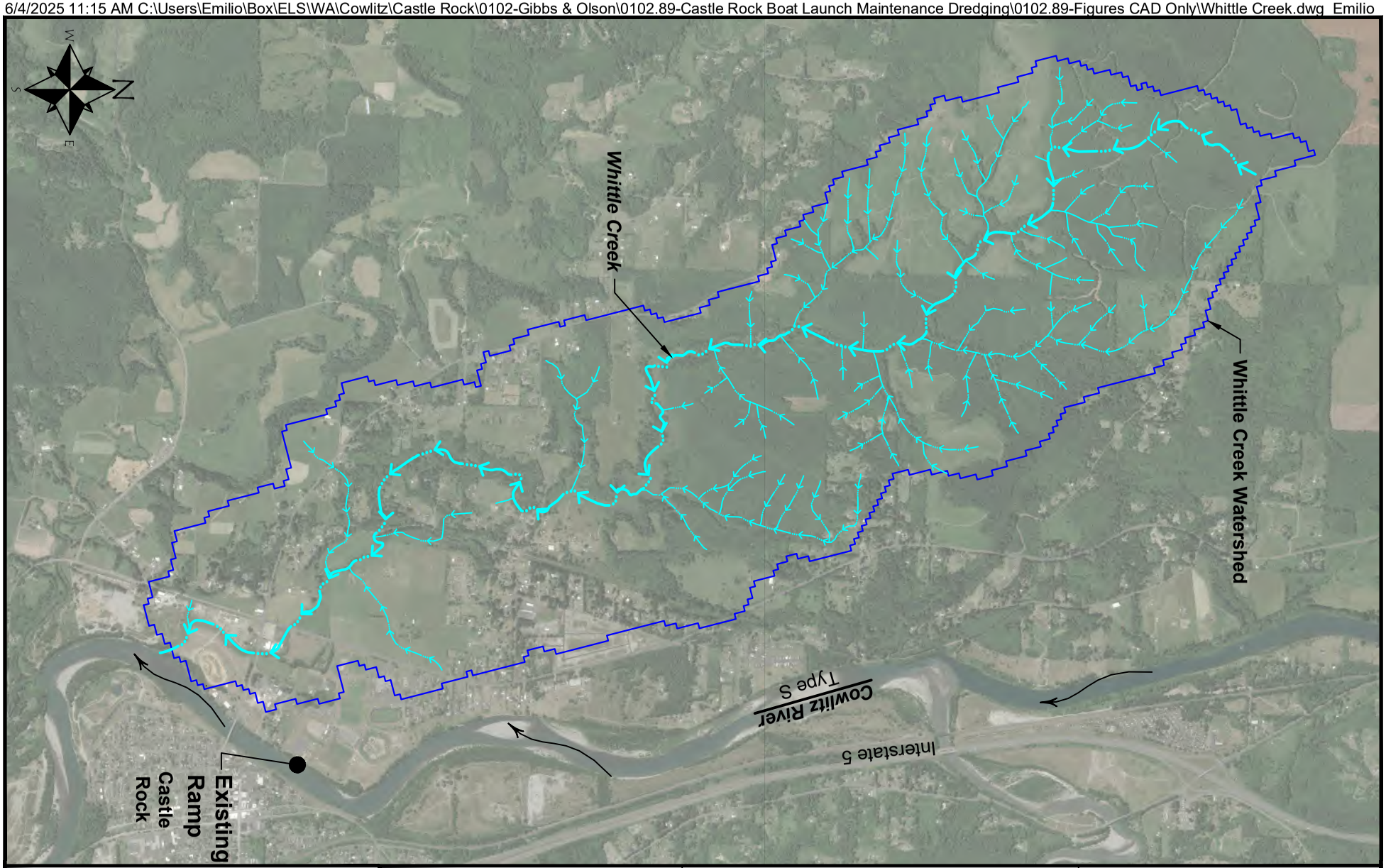
ADJACENT PROPERTY OWNERS: See JARPA

UPLAND DISPOSAL AREAS

APPLICANT: City of Castle Rock
PROJECT NAME: Castle Rock Boat Launch Dredging
REFERENCE #: Not Yet Assigned.
SITE LOCATION ADDRESS: RM 17.6 - Access Rd 5040 Westside Hwy

PROPOSED: Maintenance Dredging

IN Cowlitz River
NEAR: Castle Rock
COUNTY: Cowlitz **STATE:** WA
SHEET 4 **OF** 7
DATE: 6/4/25



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PURPOSE: Maintain Water Depth at Boat Launch.

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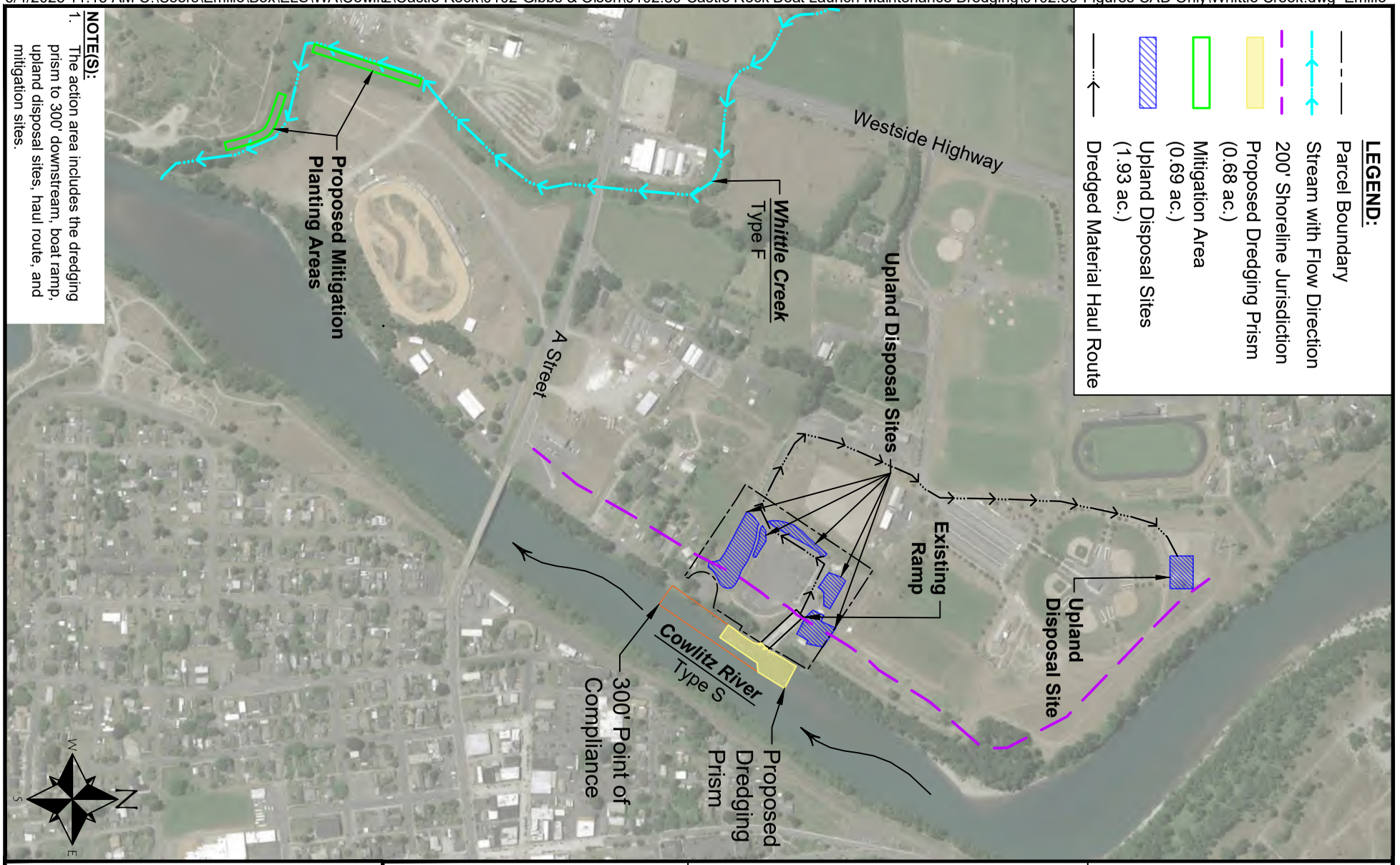
ADJACENT PROPERTY OWNERS: See JARPA

WHITTLE CREEK WATERSHED
APPLICANT: City of Castle Rock
PROJECT NAME: Castle Rock Boat Launch Dredging
REFERENCE #: Not Yet Assigned.
SITE LOCATION ADDRESS: RM 17.6 - Access Rd 5040 Westside Hwy

PROPOSED: Maintenance Dredging

IN Cowlitz River
NEAR: Castle Rock
COUNTY: Cowlitz **STATE:** WA
SHEET 5 **OF** 7
DATE: 6/4/25



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PURPOSE: Maintain Water Depth at Boat Launch.

DATUM: NAD83
ADJACENT PROPERTY OWNERS: See JARPA

ACTION AREA MAP
APPLICANT: City of Castle Rock
PROJECT NAME: Castle Rock Boat Launch Dredging
REFERENCE #: Not Yet Assigned.
SITE LOCATION ADDRESS: RM 17.6 - Access Rd 5040 Westside Hwy

PROPOSED: Maintenance Dredging

IN Cowlitz River
NEAR: Castle Rock
COUNTY: Cowlitz **STATE:** WA
SHEET 6 **OF** 7
DATE: 6/4/25

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Plant Specifications (0.69 acres).

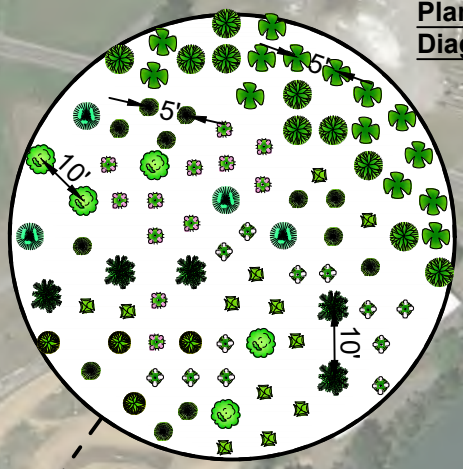
Species	Spacing (feet)		Minimum Size and Type	Quantity
Plant Near the Water – lower 11' (0.23 acres – 10,019 sf)				
Sitka Willow (*Salix sitchensis*)	5		3' cuttings	200
Red-Osier Dogwood (*Cornus sericea*)	5		3' cuttings or 1-gallon container or larger	200
Plant In Drier Soils Higher up the Bank – upper 24' (0.46 acres – 20,038 sf)				
Black Cottonwood (*Populus balsamifera*)	10' from other trees		3' cuttings, bareroot, or 1-gallon container or larger	67
Douglas Fir (*Pseudotsuga menziesii*)	10' from other trees		Bareroot or 1-gallon container minimum	67
Grand Fir (*Abies grandis*)	10' from other trees		Bareroot or 1-gallon container or larger	67
Vine Maple (*Acer circinatum*)	10' from other trees		1-gallon container or larger	67
Oceanspray (*Holodiscus discolor*)	5' from other shrubs and trees		1-gallon container or larger	150
Nootka Rose (*Rosa nutkana*)	5' from other shrubs and trees		1-gallon container or larger	150
Snowberry (*Symphoricarpos albus*)	5' from other shrubs and trees		1-gallon container or larger	150
Salal (*Gaultheria shallon*)	5' from other shrubs and trees		1-gallon container or larger	150
			Total Plants	1,286

LEGEND:

- Parcel Boundary
- Stream with Flow Direction
- Mitigation Area (0.69 ac.)

Whittle Creek
Type F

Planting Diagram:



490' x 35'
17,150 sq.ft.
0.39 ac.

370' x 35'
12,950 sq.ft.
0.30 ac.

Cowlitz River
Type S

N
W
E
S

0 400 800
SCALE IN FEET

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Ecological Land Services

PURPOSE: Maintain Water Depth at Boat Launch.

DATUM: NAD83

ADJACENT PROPERTY OWNERS: See JARPA

PLANTING PLAN

APPLICANT: City of Castle Rock

PROJECT NAME: Castle Rock Boat Launch Dredging

REFERENCE #: Not Yet Assigned.

SITE LOCATION ADDRESS: RM 17.6 - Access Rd 5040 Westside Hwy

PROPOSED: Maintenance Dredging

IN Cowlitz River
NEAR: Castle Rock
COUNTY: Cowlitz **STATE:** WA
SHEET 7 **OF** 7
DATE: 6/4/25

Photo 1. Taken June 2020. Dock at boat launch on the Cowlitz River facing downstream.

Photo 2. Taken June 2025. Looking downstream at dock shown in Photo 1. Both photos were taken at similar river levels. Photo 2 shows significant sediment accumulation.

Photo 3. Taken June 2025 from end of dock looking upstream at ramp and log boom.

Photo 4. Looking upstream at log boom. Photo taken June 2025.

Ecological Land Services

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Longview, WA 98632
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Fax: (360) 414-9305

DATE: 06/02/25
DWN: LS
PRJ. MGR: LS
PROJ.#: 102.89

Photoplate 1
Castle Rock Boat Launch Maintenance Dredging
Castle Rock, Washington
Section 10, Township 9N, Range 2W, W.M.