



**US Army Corps  
of Engineers®**  
Seattle District

**NOTICE OF PREPARATION/CLEAN WATER ACT PUBLIC  
NOTICE**

Planning, Environmental and Cultural  
Resources Branch  
P.O. Box 3755  
Seattle, WA 98124-3755  
ATTN: Amanda Ogden (PMP-C)

Public Notice Date: April 1, 2021  
Expiration Date: May 3, 2021  
Reference: PMP-21-01  
Name: Skagit River Diking Districts 3 and 12  
Levee Rehabilitation

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Interested parties are hereby notified that the U.S. Army Corps of Engineers, Seattle District (Corps) plans to prepare, pursuant to the National Environmental Policy Act (NEPA), an environmental assessment (EA) for proposed and previously completed levee repairs to the Skagit Diking District (DD) 3 and 12 Levees, Skagit County, Washington. Emergency work was completed to the DD 12 levee in February 2020, and further repair is expected to be conducted in 2021. Repairs are intended to rehabilitate existing flood control works that address damage caused during storm events and flooding occurring in February 2020 on the Skagit River. The purpose of this Notice is to solicit comments from interested persons, groups, and agencies on the Corps’ proposed action under NEPA.

A further purpose of this Notice is to solicit comments on the proposed disposal of fill material into the waters of the U.S. under the Clean Water Act. This Public Notice is being issued in accordance with rules and regulations published as 33 CFR 335 “*Operation and Maintenance of Army Corps of Engineers Civil Works Projects Involving the Discharge of Dredged or Fill Material into Waters of the U.S. or Ocean Waters*”; 33 CFR 336 “*Factors to be Considered in Evaluation of Army Corps of Engineers Dredging Projects Involving the Discharge of Dredged Material into Waters of the U.S. and Ocean Waters*”; 33 CFR 337 “*Practice and Procedure*”; and 33 CFR 338 “*Other Corps Activities Involving the Discharge of Dredged Material or Fill into Waters of the U.S.*”

**AUTHORITY**

The proposed levee repair is authorized by Public Law 84-99 (33 U.S. Code Section 701n), Flood Control and Coastal Emergency Act. The Corps’ rehabilitation and restoration work under this authority is limited to flood control works damaged or destroyed by floods. The statute authorizes rehabilitation to the condition and level of protection exhibited by the flood control work prior to the damaging event.

**PROJECT LOCATION AND DESCRIPTION**

The Skagit County DD 3 Main levee is located on the left bank of the Skagit River near Mt. Vernon, Washington. It is roughly 43,800 feet long and is the upstream portion of a 3-segment system. In its undamaged state, the levee provides a 50-year level of protection (LOP) to the City of Mt. Vernon and surrounding agricultural areas. The Skagit County DD 12 levee is located on the right bank of the Skagit River near the town of Burlington, in Skagit County, Washington. It is approximately 6.4 miles long and is the upstream segment of a 3-segment system that

protects urban, residential, commercial, agricultural, and public lands. In its undamaged state, it provides a 50-year level of protection to the town of Burlington and surrounding areas. Skagit County DD 3 and DD 12 are the local non-Federal sponsors for the proposed levee repair projects.

The first week of February 2020 brought an atmospheric river event into the Pacific Northwest. Not only did this event bring copious amounts of rain to Washington, but it brought with it warmer temperatures and higher snow levels. Combining the heavy rainfall with rapid snowmelt caused flooding issues across Washington, with some places exceeding record values. While the Skagit River was spared the more extreme flooding, a smaller discrete event occurred. The Skagit River exceeded flood stage in early February 2020. Significant precipitation resulted in a sustained river levels above Phase 1 flood stage for 1 day (February 1 into February 2). Based on flow analysis at the USGS gage on the Skagit River near Mt. Vernon (USGS 12200500), this was approximately a 40 percent annual chance exceedance (ACE) event (2.5-year return period).

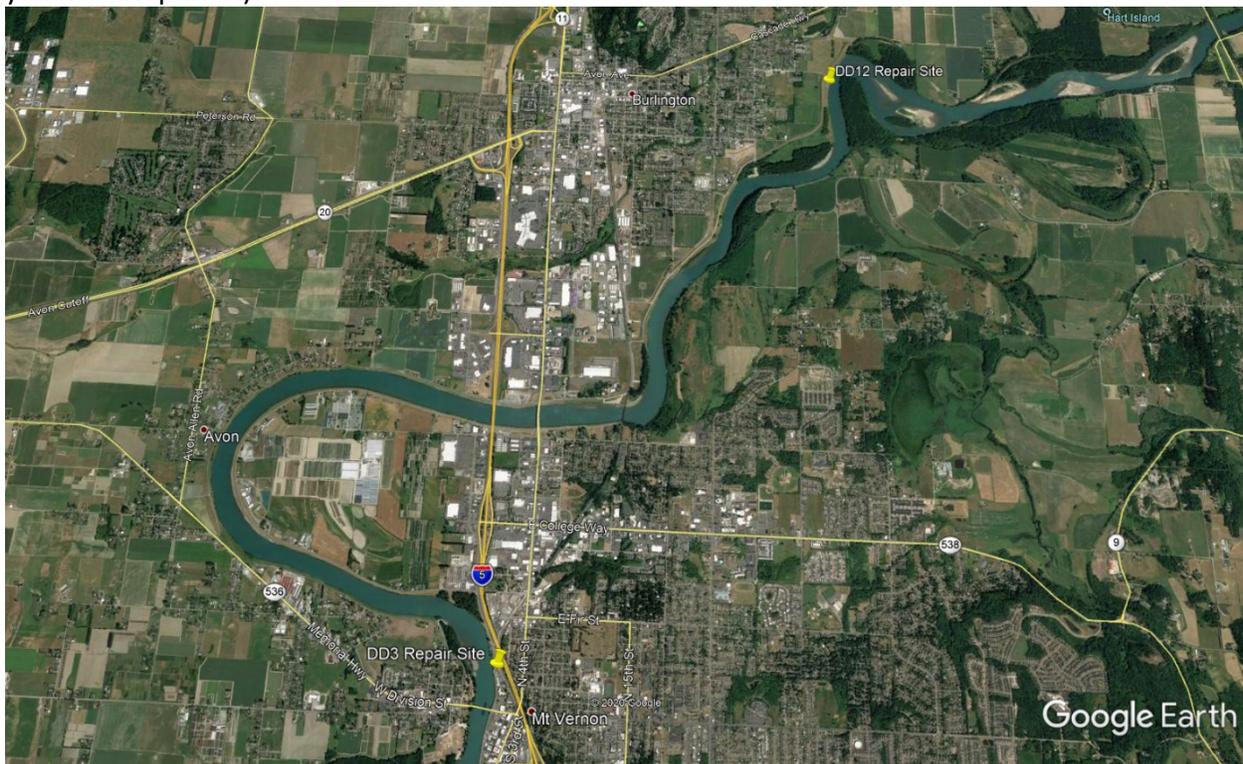


Figure 1. Project Locations.

### **PURPOSE AND NEED**

The purpose of the project is to repair the levees and restore the 50-year level of flood protection exhibited prior to the damaging event in order to protect lives and property from subsequent flooding.

At DD 3 a slope failure occurred near Station 429+00 along approximately 60 linear feet (LF) of the levee due to a combination of riprap being scoured from the riverward toe and slope failure

due to saturated conditions of the embankment material (Appendix B, Figures 1 and 2). The failure created a near-vertical head scarp roughly 15 feet tall. This failure threatens the sheetpile cutoff and the approximately 3.5-foot tall floodwall constructed along the landward edge of the levee crest. In the damaged condition, the DD 3 levee is providing a 1-year flood (100% ACE) level of protection.

At DD 12, the Sponsor noted cracking in the bench between the levee and the river during the February flood event (Appendix B, Figures 3 and 4). This bench and the associated riprap armoring is critical to the levee performance and has been evaluated as an appurtenant levee component in previous levee inspections. The purpose of the emergency repair was to temporarily provide supplemental protection to prevent levee failure. During the flood event, the Sponsor began emergency construction of an access road to reach the damaged section, using quarry spalls and geofabric. The Corps took over the flood fight response and constructed emergency bank stabilization over approximately 300 LF of the bench, between roughly Stations 300+00 and 303+00 (Appendix B, Figure 3). After floodwaters receded, the sponsor observed additional cracking in the silt bench extending approximately 200 feet on either side of the repair. This cracking indicated that the riverward slope of the bench is unstable and continues to slide into the river. In all, the damaged area is approximately located between Stations 298+00 and 305+00. In the damaged condition, the DD 12 levee is providing a 1-year flood (100% ACE) level of protection.

#### **ACTIONS ADDRESSED UNDER NEPA**

The Corps conducted temporary emergency repairs to the DD 12 levee between February 1 and 2, 2020 to supplement local efforts during the 2020 flood. Shoreline and river impacted by construction activities was restricted to the areas of the damaged levee. The temporary measures executed in February 2020 involved work from the top of the bench, placing material by bucket load in a controlled manner to provide a blanket of armor to reduce the impacts from the high-velocity flows and high water levels. The emergency repairs involved placing riprap along approximately 300 LF of the riverward bench. The riprap that was placed reduced erosion from the high river velocities and reduced the risk of levee failure from cracking and slope instability. The flood fight emergency response efforts were necessary to prevent catastrophic levee failure.

For the proposed levee repairs, four alternatives are being considered as follows:

- **Alternative 1 – No Action Alternative**

Under this alternative, the levee would remain in its current damaged state. This alternative would not meet the project purpose because the levee would likely be further damaged in future flood events and could fail, which would endanger protected homes, businesses, and public infrastructure during future flood events. During any flood event threatening the integrity of the levee system, the Corps or other Federal and non-Federal agencies may act under emergency authorities to preserve the levee system and, to the extent possible, maintain protection of life and property behind the levee. Responding to damages during a flood event, however, would be temporary, less certain of success, potentially more expensive, and could be less protective of environmental and cultural resources. A response would also take time to

activate and execute, so there is risk that it would not prevent levee failure, such as overtopping or breaching.

The No Action Alternative is not recommended because it would risk failure of the levee systems and would present unacceptable risk to life and property. It does not meet the project purpose. While the No Action Alternative is not recommended, it is carried forward for further evaluation to serve as a base condition for evaluation of other alternatives.

- **Alternative 2 – Nonstructural Alternative**

This alternative consists of floodplain management strategies generally involving changes in land use offered by other Federal and state programs. Such strategies would include zoning, easements, flood warning, floodplain evacuation, and flood insurance. Nonstructural strategies involve acquisition, relocation, elevation, and flood proofing existing structures. The costs and timeframe for implementing this alternative makes it impractical. The participation of the non-Federal sponsors would be required to implement a nonstructural alternative, and DD 3 and DD 12 have not agreed to meet their various obligations as described above in executing a nonstructural alternative. Therefore, this alternative has been eliminated from detailed consideration.

- **Alternative 3 – Levee Setback Alternative**

This alternative would shift the alignment of the levee embankment landward by the necessary distance in order to avoid or minimize direct contact with the river current. Typically, the setback is a newly constructed earth embankment structure and abandons the existing levee located on the riverbank. In this instance, a setback levee may be more costly than other alternatives due to more extensive embankment material and real estate requirements. Such an approach could also encroach on existing structures, privately-owned land, and public infrastructure. The anticipated costs and time required for this alternative make implementation impracticable. This alternative would also require participation of the non-Federal sponsors to implement, and DD 3 and DD 12 have not agreed to meet their various obligations, including land acquisition and additional cost share funding in executing a setback alternative. Therefore, this alternative has been eliminated from detailed consideration.

- **Alternative 4 – Repair In-Place Alternative (Preferred Alternative)**

This alternative would repair the levee at each damaged site. At DD 3, repairing the levee in-place is recommended to restore the levee to its pre-damaged level of protection. Any sloughed material would be removed from the slope. The downstream extent of the repair would incorporate a buried toe with 4 feet of Class III riprap embedded into the foundation. The damaged riverward slope would be re-armored with a 2.5-foot thick blanket of Class III riprap placed over a quarry spalls. The upstream and downstream ends would be smoothly transitioned into the existing slopes. All repairs would occur within the pre-damage footprint as confirmed by historical records of the most recent prior repair to this site. Total rehabilitation construction length is 150 LF, which includes any necessary transitions. Topsoil and native hydroseed would be placed in all areas indicated on the plans to restore the project to the existing condition prior to construction.

Repairing the DD 12 levee in-place is recommended to restore the levee to its pre-damaged level of protection. However, extensive cracking along the riverward bench slope indicates that the toe erosion has destabilized the 2H:1V slope. The damaged slope would be laid back to 3H:1V resulting in both increased stabilization and high-water refuge habitat. Any sloughed material would be removed from the slope and suitable flood fight material would be salvaged for reuse into the final repair. The downstream extent of the repair would incorporate a launchable toe using 4 feet of Class V riprap. The damaged riverward slope would be re-armored with a 4-foot thick blanket of Class V riprap placed over a 12-inch layer of quarry spalls which is an increase in size from the existing Class IV riprap. The upstream and downstream ends would be smoothly transitioned into the existing slopes. All repairs would occur within the pre-damage footprint. Total rehabilitation construction length is 700 LF, which includes any necessary transitions. Topsoil and native hydroseed would be placed in all areas indicated on the plans to restore the project to the existing condition prior to construction.

The Corps proposes implementing the Repair In-Place Alternative. Design plans for repairs to the DD 3 and DD 12 levees under this alternative are in Appendix A.

Equipment to be utilized would be similar to those employed during previous rehabilitation projects and include: hydraulic excavator, dump truck, and bulldozer. Construction is expected to occur during the June 15 – August 31 work window established by the Washington Department of Fish and Wildlife (WDFW) when juvenile salmonids are least likely to be in the area. Construction vehicles would access the site by existing levee access ramps and the levee crown, which are accessible from public rights-of-way at several locations throughout the length of the project. Excavated materials would be staged within the levee footprint and at designated staging areas. Repairs to DD 3 and DD 12 would occur concurrently and are expected to take approximately six weeks. Best management practices would be employed to minimize project impacts.

#### **ENVIRONMENTAL MITIGATION MEASURES**

Because of the long history of modification of riverbanks within the lower Skagit valley, the edge habitat is quite degraded, yet the Skagit River remains critical for threatened salmonids. Due to the extent of necessary repairs to the Skagit River levees and the time lag for newly repaired sites to provide edge habitat functions, and also to avoid impacting salmon recovery, the Corps is proposing environmental measures to mitigate for lost habitat function of the riverine edge habitat.

For the 2011 Skagit River Levee Rehabilitation Project, the Corps formed a Technical Working Group to develop a strategy for assessing the impacts of the levee repairs and developing measures to offset those impacts. The Technical Working Group includes representatives from the DDs, National Marine Fisheries Service (NMFS), US Fish and Wildlife Service (USFWS), the Skagit River System Cooperative, and the Corps. Through multiple meetings and discussions as well as site visits, Corps staff created a tool, the Habitat Capacity Mitigation Tool (HCMT), which was then further developed by the Technical Working Group.

The parameters for HCMT development were to accurately assess impacts of levee repairs, provide options that could be combined to provide the greatest on-site compensation for impacts, and evaluate off-site mitigation options while relying heavily on published scientific data of current fish populations and fish usage of different bank habitat types to define potential mitigation options such as slope laybacks, large woody debris, and plantings. The result is a new assessment tool that focuses on habitat capacity degradation due to levee repairs.

To provide compensatory mitigation for detrimental effects of levee repair on edge habitat, many mitigation offset options were considered that can be applied in various combinations to achieve the greatest on-site reduction of effects, and evaluate off-site mitigation options. For these proposed 2020 repairs, the mitigation offset options as determined by the HCMT include:

- Two rows of willows will be placed, the first starting at ordinary high water with willows spaced every 12-inches along the full repair at both levees and the second will start approximately 3 feet above the first lift.
- Placement of topsoil and native hydroseed along upper slope along the full repair at both levees.
- A slope layback to create a 3H:1V slope along 700 LF at the DD 12 repair site.
- Placement of 7 anchored rootwads at a location downstream of the DD 3 repair site at river mile (RM) 10. See Appendix A for location, configuration and design details.

## **IMPACTS OF THE PROJECT**

The Corps' preliminary analyses of the principal effects of the (a) February 2020 DD 12 emergency repair activities and (b) the prospective DD 3 and DD 12 permanent repairs are summarized below.

Wetlands: No wetlands are located within or immediately adjacent to the project areas. (a) Access roads and staging areas were not located in jurisdictional wetlands during the February 2020 DD 12 temporary emergency repair. (b) Access roads and staging areas are not projected to be located in jurisdictional wetlands during the permanent repairs.

Water Quality: (a) The February 2020 DD 12 temporary emergency repair occurred when the river was already highly turbid. Although no turbidity monitoring was conducted, the work was unlikely to cause turbidity greater than the already high background conditions. The emergency repair only utilized clean rock free of contaminants. Best management practices, including restrictions on fueling and prevention of fluid leaks from construction equipment were in place to minimize discharge of pollutants into the river.

(b) There are no water quality exceedances at the DD 12 project site. However, downstream of the project site, water quality in the Skagit River is considered impaired for bacteria (category 4A). A Total Maximum Daily Load (TMDL) was established for the lower Skagit River and a Water Cleanup Plan was written by the Washington State Department of Ecology (Ecology) in 2000. The DD 3 repair site is within a category 2 listing for ammonia-N. The proposed repairs

would not contribute to these water quality impairments. Construction activities related to the repairs could cause short term impacts to local water quality. Placement of rip rap would cause a small temporary increase in turbidity. Dissolved oxygen levels should not be impacted because the material is relatively clean. Materials for construction would be obtained from an established borrow pit and rock quarry. No contaminants are known or suspected to be present in the construction materials. Turbidity during project construction would be monitored; if state water quality standards for maximum turbidity are exceeded, project work would be halted until the standards are met and construction methods changed to avoid future exceedances.

Biological Resources: (a) Impacts to aquatic resources from the completed flood fight included possible injury or displacement of aquatic species as a result of placing riprap into the water along the slope of the damaged levee. Since the construction work occurred during the peak of a flood, any impact from construction was minimized due to the flood conditions of rapidly moving, noisy and highly turbid waters. Most species of fish would not be expected to occur in waters immediately adjacent to the levee during the short duration of the emergency repair. This is due to the fact that this was a high energy and turbulent location that was actively eroding which are conditions that most species of fish avoid. If fish were present in the vicinity during the flood, they would more likely occur on the opposite bank which is the inside of bend in the river that has a lower velocity and less turbulent flows.

(b) Repair work on these levees would cause short-term impacts to fish and wildlife. The primary impacts would be a temporary increase in turbidity due to fill placement and an increase in noise and human activity during construction. Because the work would be accomplished during the established work window (June 15 – August 31), the potential disruption of salmonid movement in the area would be minimized. If present, adult and juvenile salmonids would be temporarily displaced from this area. Temporary impacts as a result of construction include vibration and noise associated with construction equipment, minor localized increases in turbidity from excavation of embankment material and placement of riprap, and a time lag for willows to become established. The construction of the levee rehabilitation will also take place during the in-water work window to ensure minimal disturbances only to the adults migrating in, and will not take place during spawning or out migration of juveniles.

The following listed and proposed threatened species and/or their critical habitat, as applicable, are expected to be found in the project area:

- Puget Sound Chinook salmon (*Oncorhynchus tshawytscha*)
- Puget Sound steelhead (*Oncorhynchus mykiss*)
- Coastal/Puget Sound bull trout (*Salvelinus confluentus*)
- Southern Resident killer whale (*Orcinus orca*)

Bald eagles may be present at the project sites. These birds have been removed from the Endangered Species Act (ESA) but remain protected under the Bald and Golden Eagle Protection Act so caution would be taken to avoid significant harm to the birds or their habitat.

Air Quality: (a) Construction vehicles and heavy equipment used during the temporary repair resulted in a short term localized increase in gasoline and diesel exhaust fumes. The small area of construction and the short duration of the work would limit the impact to air quality. Emissions generated by the activity were minor and short-term and well below the *de minimis* threshold. Unquantifiable but insignificant exacerbation of effects of carbon dioxide (CO<sub>2</sub>) emissions on global climate change would be anticipated from the completed flood fight activities.

(b) Construction vehicles and heavy equipment used during the proposed construction would temporarily and locally generate increased gasoline and diesel exhaust fumes. The small area of construction and the short duration of the work would limit the impact to air quality. The activity would constitute routine repair of an existing facility, generating an increase in direct emissions of a criteria pollutant or its precursors that would be clearly *de minimis*, and would therefore be exempted by 40 CFR Section 93.153(c)(2)(iv) from the conformity determination requirements. Emissions generated by the construction activity are expected to be minor, short-term, and well below the *de minimis* threshold. Unquantifiable but insignificant exacerbation of effects of CO<sub>2</sub> emissions on global climate change would be anticipated.

Cultural Resources: Skagit Levee DD-3 and Skagit Levee DD-12 were constructed in the late 1800s, therefore are of historic age and would need to be evaluated by the Corps archaeologist for integrity and significance to the National Register of Historic Places. Prior to repairs, a Corps archaeologist would conduct a cultural resources survey of the project area to determine whether there is potential for the preliminarily recommended repair to cause effects to historic properties. The Corps would evaluate the project and prepare documentation necessary pursuant to compliance with Section 106 of the National Historic Preservation Act (NHPA). The report would include the findings of the investigations, recommendations for archaeological monitoring during construction, and a determination of effects to archaeological and historic properties. The Corps' determinations of effects to historic properties, the investigation report, and monitoring plan if necessary, would be coordinated with the Washington State Historic Preservation Office (SHPO), affected Indian Tribes, and other consulting parties prior to approval of the proposed action.

Noise: (a) During construction of the 2018 emergency repair, localized ambient noise levels within the levee Right of Way were slightly increased. However, given the urban location of the repair, any potential disturbance resulting from slightly elevated short-term ambient noise levels from construction activities were negligible. No long-term change in noise levels occurred as a result of the project. (b) Effects to noise of the proposed repairs would be the same as those described above from the emergency repair.

Traffic: (a) Construction-related traffic may have caused temporary increases to, and disruption of, local traffic. Flaggers and signs were used, as needed, to direct traffic safely around the construction site. (b) Effects to traffic from the proposed repairs would be the same as those described above. No long-term change in traffic would occur as a result of the project.

Recreation: (a) The DD 12 temporary emergency repair had short-term impacts to informal recreation use. The project site is not used extensively for recreation, but walkers from nearby communities use the gravel access road located on the top of the levee for recreation and recreational anglers are likely to access the river via the levee trail or by boat.

(b) Recreational use at DD 12 would be disrupted temporarily during construction similarly to the effects of the emergency repair. The DD 3 project site is adjacent to a heavily used pedestrian walkway. Cyclists, and pedestrians use the walkway to traverse between Lions Park and downtown Mount Vernon. A picnic area on the north side of the project site includes a restroom and parking lot.

## **EVALUATION**

The Corps has made a preliminary determination that the environmental impacts of the proposal and the completed flood fight activities can be adequately evaluated under the NEPA through preparation of an EA. Preparation of an EA addressing potential environmental impacts associated with the levee rehabilitation project is currently underway.

The purpose of the Federal Water Pollution Control Act (33 U.S.C § 1252 et seq.), commonly referred to as Clean Water Act (CWA) is to restore and maintain the chemical, physical, and biological integrity of the nation's waters by preventing point and nonpoint pollution sources, providing assistance to publicly owned treatment works for the improvement of wastewater treatment, and maintaining the integrity of wetlands. The Corps has determined that the proposed DD 3 repair is not subject to regulation under Sections 401 and 404 of the CWA. The exemption from the requirement to evaluate the effects of discharges of fill material into waters of the United States under 33 USC 1344(f)(1)(B) applies because all riverward work at the repair sites will be conducted within the pre-damaged levee footprint and the character, scope, and size of the resulting structure will not change as compared to the original fill design. Therefore, the proposed repairs do not require a 404 (b)(1) evaluation.

The DD 12 repair and offsite mitigation for DD 3 (placement of anchored rootwads at RM 10) would involve a discharge of fill material into waters of the United States that will be evaluated for substantive compliance with guidelines promulgated by the Environmental Protection Agency (EPA) under authority of Section 404(b)(1) of the CWA.

The Corps does not issue permits for its own Civil Works activities. Nevertheless, the Corps accepts responsibility for the compliance of its Civil Works project with Sections 401 and 404 of the Federal Water Pollution Control Act. The proposed DD 12 repair is analogous to a Nationwide Permit (NWP) 3, which authorizes the repair, rehabilitation, or replacement of any currently serviceable structure, provided that the structure or fill is not to be put to a different use. The proposed repairs will be within the existing footprint of a currently serviceable structure with minor deviations due to construction techniques as required by regulatory agencies. Though NWP 3 does not directly apply to Corps Civil Works activities, the effects of the repairs to the DD 12 Levee on Waters of the U.S. and water quality are functionally analogous to the Waters of the U.S. and water quality effects caused by repairs authorized

under NWP 3. Therefore, the Corps has concluded that repairs to the DD 12 Levee would generate effects that are functionally analogous to the effects of an authorized (NWP 3 permitted) repair.

The proposed anchored rootwad placement at RM 10 is analogous to a NWP 27, which authorizes restoration, enhancement, and establishment of tidal and non-tidal wetlands and riparian areas, the restoration and enhancement of non-tidal streams and other non-tidal open waters, and the rehabilitation or enhancement of tidal streams, tidal wetlands, and tidal open waters, provided those activities result in net increases in aquatic resource functions and services. NWP 27 can be used to authorize compensatory mitigation projects. Though NWP 27 does not directly apply to Corps Civil Works activities, the effects of the offsite mitigation for DD 3 on Waters of the U.S. and water quality are functionally analogous to the Waters of the U.S. and water quality effects caused by compensatory mitigation authorized under NWP 27. Therefore, the Corps has concluded that offsite mitigation for the DD 3 Levee would generate effects that are functionally analogous to the effects of an authorized (NWP 27 permitted) repair. A memorandum detailing the Corps' analysis will be provided to the Washington State Department of Ecology (Ecology) for their review.

The Corps has determined that the proposed work is consistent to the maximum extent practicable with the enforceable policies of the approved Washington Coastal Management Program. State concurrence with this determination has been requested.

The Corps will coordinate the proposed action with the USFWS and the NMFS concerning effects of the emergency repair and proposed repair activities on threatened and endangered species and their critical habitat, and submit a Biological Assessment pursuant to Section 7(a)(2) of the ESA.

The Corps is consulting with the Washington SHPO, Indian tribes, and other consulting parties about the project in accordance with Section 106 of the NHPA as implemented in the regulations at 36 CFR Part 800.

In preparation of the environmental documentation for this project, coordination has been conducted or is ongoing with the following public agencies:

- (1) USFWS;
- (2) NMFS;
- (3) EPA;
- (4) Ecology; and
- (5) SHPO.

No significant unmitigated impact to Tribal Treaty Rights is expected as a result of the proposed activities. The emergency repair and proposed repairs will be analyzed with respect to its effects on the Tribal Treaty Rights or rights reserved to tribes through Executive Order or other legal instrument. The proposed action area is within the area of interest for the following Tribes and they will be coordinated and consulted with prior to making a final decision:

- (1) Sauk-Suiattle Indian Tribe;
- (2) Swinomish Indian Tribal Community;
- (3) Skagit River System Cooperative;
- (4) Upper Skagit Indian Tribe;
- (5) Samish Indian Nation; and
- (6) Tulalip Tribes

### **PUBLIC INTEREST EVALUATION**

The decision to proceed with this action involving the discharge of dredged or fill material would be preceded by a determination of whether the proposed activity would be in the public interest. All factors which may be relevant to the proposal's public interest will be considered; among those are navigation and the Federal standard for dredged material disposal; water quality; coastal zone consistency; wetlands; endangered species; historic resources; scenic and recreation values; fish and wildlife; marine sanctuaries; applicable state/regional/local land use classifications, determinations, and/or policies; conservation; economics; shoreline erosion and accretion; safety; and considerations of property ownership.

As a foundation for its public interest determination the Corps would consider, on an equal basis, all alternatives that are both reasonable and practicable, i.e., available and capable of being done after taking into consideration cost, existing technology, and logistics in light of overall project purposes. The Corps typically selects the alternative that represents the least costly alternative, constituting the discharge of dredged or fill material into waters of the United States in the least costly manner and at the least costly and most practicable location, that is consistent with sound engineering practices, and that meets the environmental standards established by the CWA Section 404(b)(1) evaluation process.

### **COMMENT AND REVIEW PERIOD**

The Corps invites submission of comments on the environmental impact of the proposed action. Comments would be considered in determining whether it would be in the best public interest to proceed with the proposed project. The Corps would consider all submissions received before the expiration date of this notice. Comments not received within the comment period are deemed unexhausted and therefore forfeited. The nature or scope of the proposal may be changed upon consideration of the comments received. The Corps would initiate an Environmental Impact Statement (EIS) and would afford all the appropriate public participation opportunities attendant to an EIS, if significant effects on the quality of the human environment are identified and cannot be mitigated.

### **PUBLIC HEARING**

Any person may request within the comment period specified in this Notice, that a public hearing be held to consider this proposal. Requests for a public hearing must clearly set forth the following: the interest that may be affected, the manner in which the interest may be affected by this activity, and the particular reason for holding a public hearing regarding this activity.

**COMMENTS TO THE U.S. ARMY CORPS OF ENGINEERS**

Submit comments to this office, Attn: Planning, Environmental, and Cultural Resources Branch, PO Box 3755, Seattle, WA, 98124-3755, no later than 30 days after the posting of this notice to ensure consideration. Comments not received within the comment period are deemed unexhausted and therefore forfeited. In addition to sending comments via mail to the above address, comments may be e-mailed to [Amanda.Ogden@usace.army.mil](mailto:Amanda.Ogden@usace.army.mil).

This Notice of Preparation can be found online at the link below.

Project Name: Skagit River Diking Districts 3 and 12 Levee Rehabilitation Project

<http://www.nws.usace.army.mil/Missions/Environmental/Environmental-Documents/>

Posting Date: April 1, 2021    End of Comment Period: May 3, 2021

**Appendix A – Project Designs**



US Army Corps  
of Engineers  
Seattle District

# FY20 P2-489170 DD3 SKAGIT DD3 MAIN LEVEE 2020 LEVEE REHAB SKAGIT COUNTY, WA

SHEET ID	TITLE
GENERAL	
G-001	TITLE, VICINITY MAP, PROJECT MAP, AND INDEX
CIVIL	
CS-100	ACCESS AND HAUL ROUTE
CS-101	PROPOSED SITE PLAN
C-301	CROSS SECTIONS
LANDSCAPE	
L-100	MITIGATION AREA ACCESS ROUTE
L-101	MITIGATION SITE PLAN / DETAILS



PROJECT VICINITY MAP  
NTS



PROJECT LOCATION MAP  
NTS

SAFETY PAYS

IF SHEET MEASURES LESS THAN 22" X 34" IT IS  
A REDUCED PRINT. REDUCE SCALE ACCORDINGLY.



US Army Corps  
of Engineers  
Seattle District

Date: 02 OCT 2020  
Revision No.:  
File No.: E-6-7-52

Recommended by:  
GUY L. GREEN, P.E.  
Chief, Design Branch

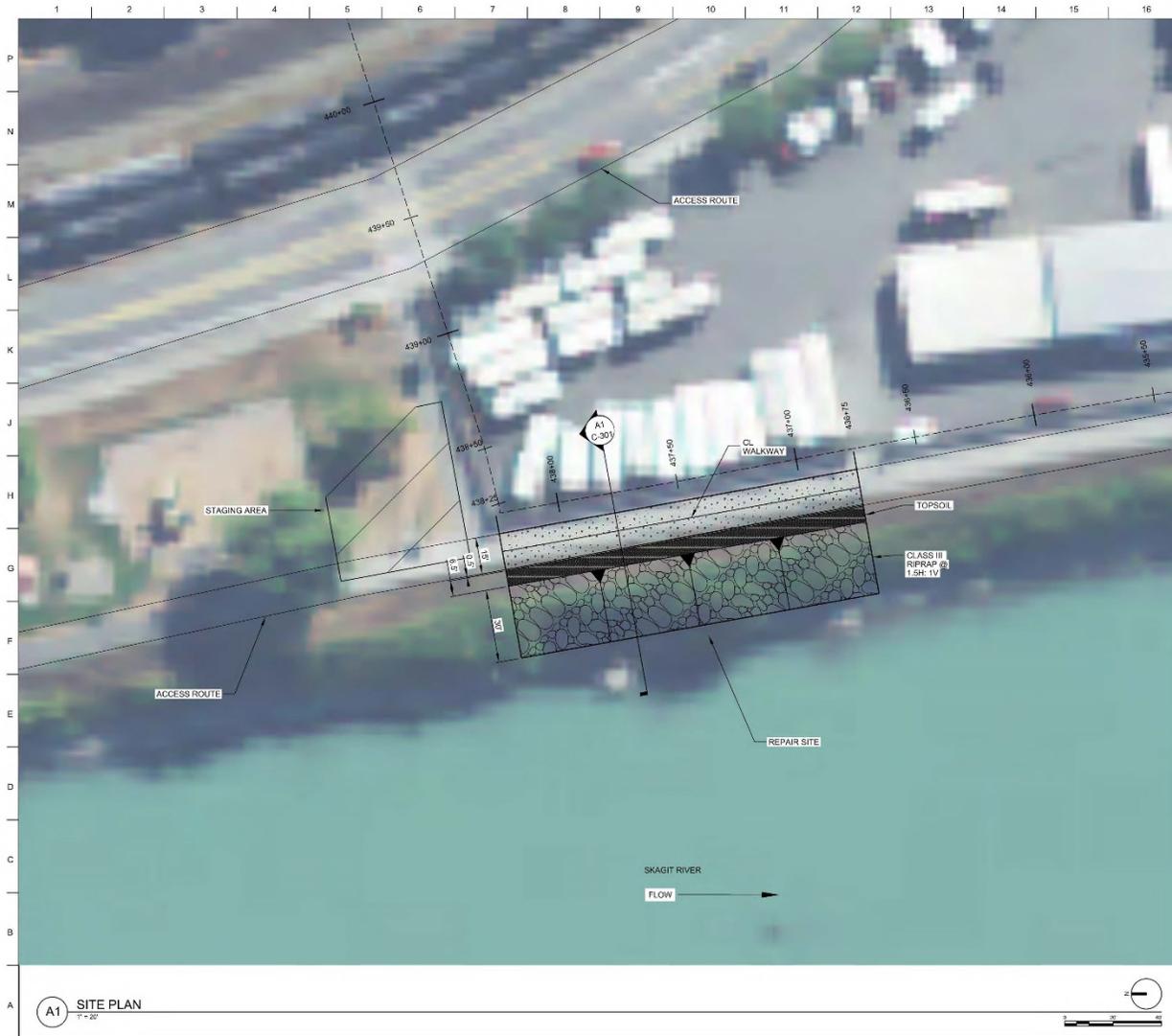
Submitted by:  
PROJECT MANAGER  
Project Manager

U.S. ARMY CORPS OF ENGINEERS  
SEATTLE DISTRICT  
SEATTLE, WASHINGTON  
Prepared by:  
GUY L. GREEN, P.E.  
Chief, Design Branch

FY20 P2-489170 DD3  
SKAGIT COUNTY, WA  
2020 LEVEE REHAB  
COVER SHEET

SHEET  
IDENTIFICATION  
G-001





**GENERAL NOTES:**

1. STATIONING DERIVED FROM THE NATIONAL LEVEE DATABASE (NLD). LEVEE REPAIR FROM ST. 430+15 TO 430+25.
2. EDGES OF NEW LEVEE MUST TRANSITION SMOOTHLY TO EXISTING SURROUNDINGS.
3. ALL IN-WATER WORK SHALL OCCUR BETWEEN JUNE 15 - AUGUST 31 TO MINIMIZE ECOLOGICAL IMPACT TO WILDLIFE HABITAT.
4. ASSOCIATED ENVIRONMENTAL MITIGATION SHALL OCCUR AT APPROXIMATELY ST. 330+00. SEE SHEETS L-100 AND L-101.



DATE	DESCRIPTION

DESIGNED BY: SKAGIT RIVER DISTRICT 4000 UNIVERSITY AVENUE SEATTLE, WASHINGTON 98148	ISSUE DATE: 05/01/2024 CONTRACT NO.: W-18-00000001-001 PROJECT NUMBER: 18-00000001-001	PROJECT NAME: SKAGIT RIVER SHEET NUMBER: DD3
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PROJECT NUMBER:  
 W-18-00000001-001  
 SHEET NUMBER:  
 DD3

SHEET ID  
 DD3  
 CS-101

File Path: I:\ACCS\proj\F03\_18-00000001-001\F03\_18-00000001-001\_DD3.dwg; Download: 05/01/2024 10:00:00 AM; User: jk...

FINAL DESIGN SUBMITTAL









US Army Corps  
of Engineers  
Seattle District

# FY20 P2-489172 DD12 DIKING DISTRICT 12 (DD12) LEVEE REHAB 2020 BURLINGTON, WASHINGTON



**PROJECT VICINITY MAP**  
NTS



**PROJECT LOCATION MAP**  
NTS

### INDEX OF DRAWINGS

SHEET ID	TITLE
GENERAL	
G-001	TITLE, VICINITY MAP, PROJECT MAP, AND INDEX
CIVIL	
CS100	ACCESS AND HAUL ROUTE
CS101	SITE PLAN
C-301	CROSS SECTIONS

**SAFETY PAYS**

	US Army Corps of Engineers Seattle District
Date:	08 OCTOBER 2020
Simulation No.:	-
File No.:	E-6-7-53
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PROJECT TITLE DIKING DISTRICT 12 (DD12) LEVEE REHAB 2020	SHEET NO. G-001
SHEET IDENTIFICATION <b>G-001</b>	







**Appendix B: Project photos.**



**Figure 1. DD 3 repair site showing slope failure.**



**Figure 2. DD 3 damaged segment scour.**

**Skagit DD12 Flood  
fight due to slope in-  
stability and cracking**



**Figure 3. DD 12 300 LF flood fight segment looking upstream.**

Skagit DD12  
11 MAR 2020



Figure 4. DD 12 cracking along the riverward bench.