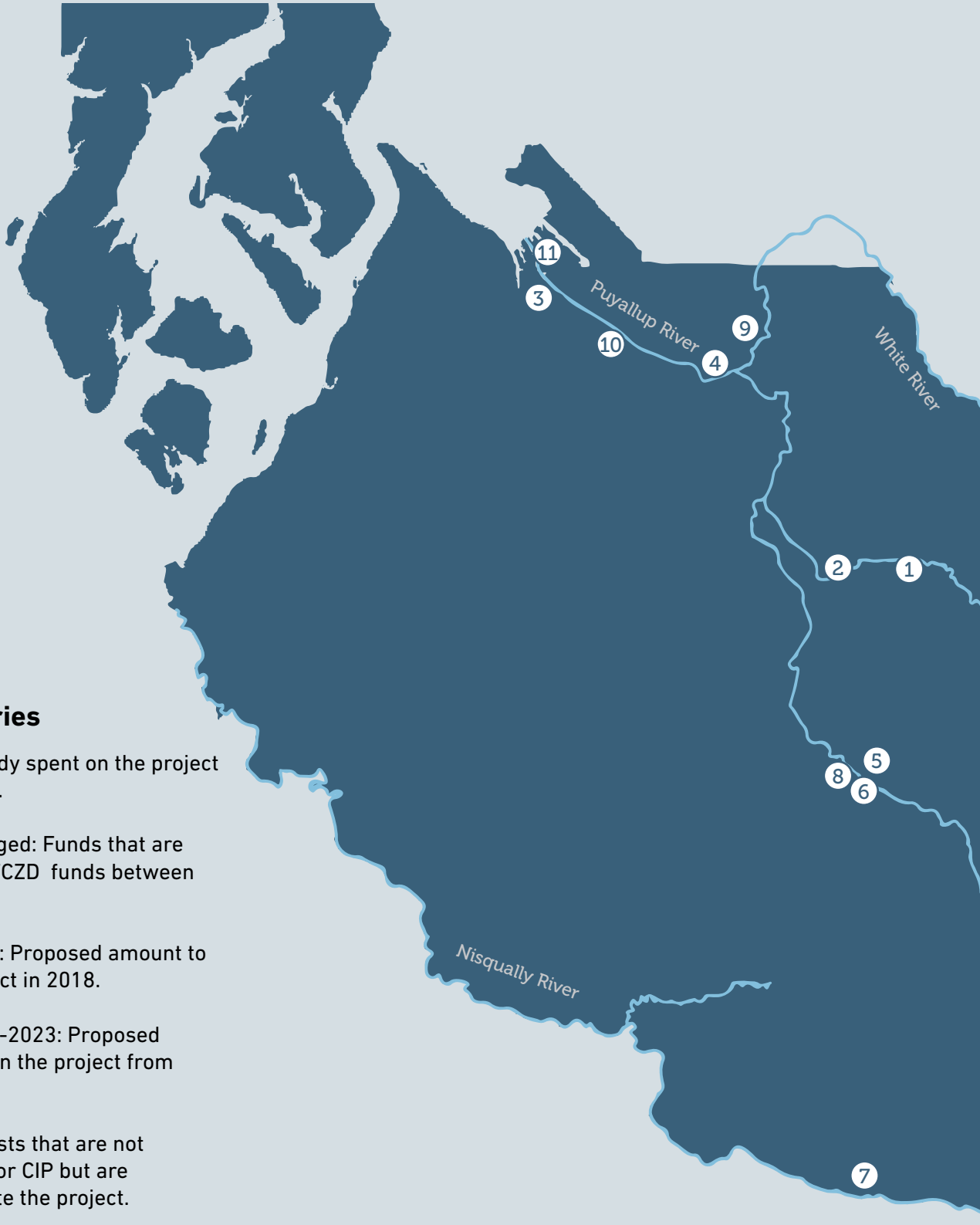


Capital Improvement Program
2018-2023

PIERCE COUNTY
FLOOD CONTROL
ZONE DISTRICT

Projects

Pierce County Flood Control Zone District (FCZD) projects are selected based on a number of criteria including public safety, level of benefit to the region, economic and environmental risks from flooding, frequency of flooding, ability to leverage funds, and readiness to construct.



Funding Categories

Funded: Money already spent on the project from charter to 2017.

Future Funds Leveraged: Funds that are budgeted from non-FCZD funds between 2018-2023.

Proposed FCZD 2018: Proposed amount to be spent on the project in 2018.

Proposed FCZD 2019-2023: Proposed amount to be spent on the project from 2019-2023.

Unfunded: Project costs that are not budgeted in the CFP or CIP but are necessary to complete the project.

PIERCE COUNTY
FLOOD CONTROL
ZONE DISTRICT

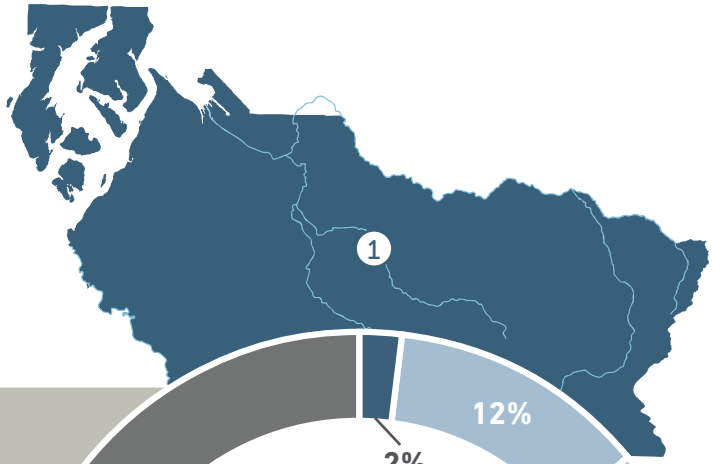
1. Alward Road Acquisition and Setback Levee
2. Carbon River Levee Bank Stabilization
3. Clear Creek Acquisition and Levee
4. Habitat and Flood Capacity Creation Project
5. Neadham Road Acquisition and Revetment
6. Orville Road Revetment (Phase 2A and 2B)
7. Upper Nisqually Revetment Retrofit
8. Orville Road Revetment at Kapowsin Creek
9. Lower White River 24th Street Setback Levee
10. Puyallup Wastewater Treatment Plant Flood Protection
11. Tacoma Wastewater Treatment Plant Flood Wall



Glossary

RCO: Recreation and Conservation Office
REET: Real Estate Excise Tax
SWM: Surface Water Management
HCP: Habitat Conservation Plan
CFP: Capital Facilities Plan
CIP: Capital Improvement Program
ELJ: Engineered Log Jam

Alward Road Acquisition and Setback Levee

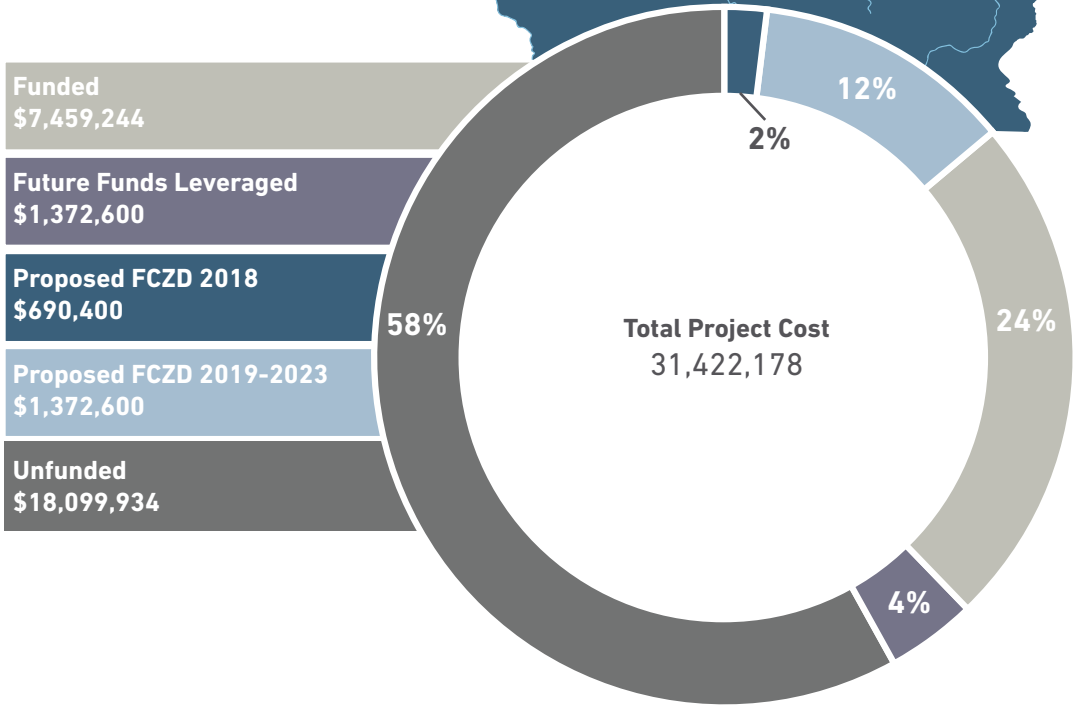


Description
This project will require acquiring property along Alward Road and removing existing structures (Phase1). Constructing a setback levee and engineered log jams (ELJs) is planned once all properties are acquired (Phase 2).

Location
Carbon River, left bank
River Mile 6.4 - 8.3

Current Phase
Acquistion phase

Notes
Funding for this project is a part of the FCZD Property Acquisition budget category. Funding for this project is also coming from RCO, REET, and SWM.



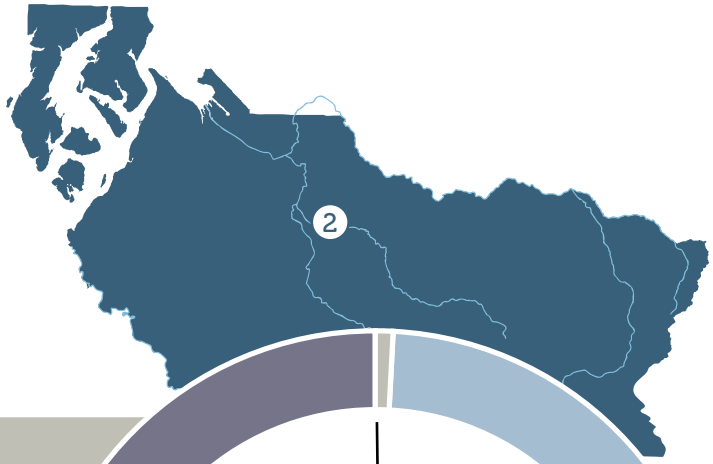






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Carbon River Levee Bank Stabilization

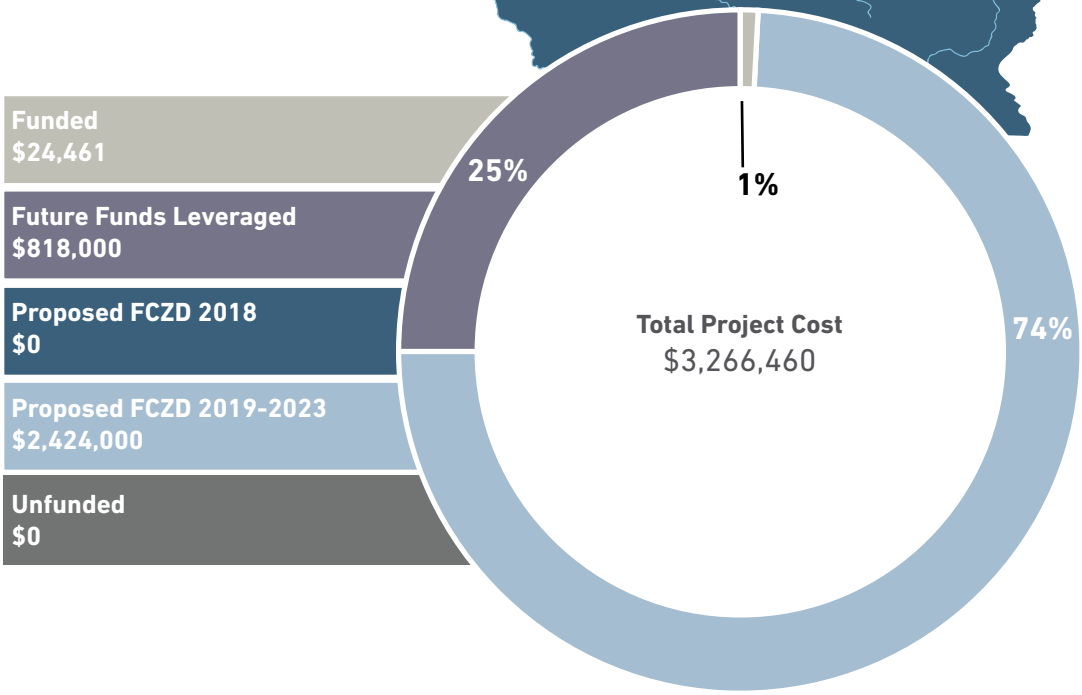


Description
This project will place ELJs to engage partial river flow into the disconnected floodplain on the right bank. The project will also implement measures to reduce channel erosion to the left bank levee.

Location
Right and left bank of Carbon River on Voights Creek.

Current Phase
Preliminary engineering

Notes
Project construction is estimated to begin in 2021. This project is also identified for HCP credit.



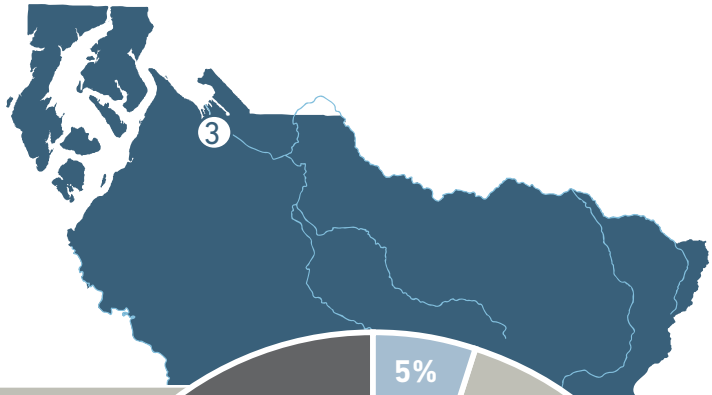






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Clear Creek Acquisition and Levee

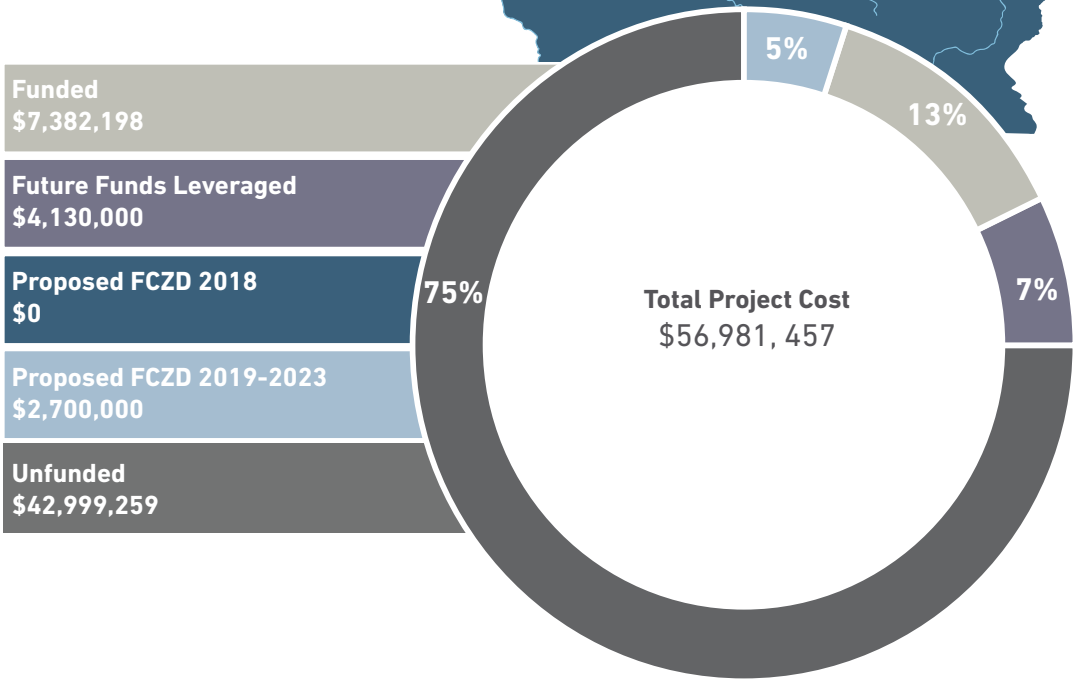


Description
This project will acquire property and remove structures (Phase 1), construct a new levee along Clear Creek, and remove flood gates on the Puyallup River.

Location
Clear Creek, left and right bank; river mile 0.0 - 2.9.

Current Phase
Phase 1: preliminary design and property acquisition

Notes
Currently this project is still in preliminary design for modeling of potential impacts of the ring levee and flood gate removal. This modeling effort includes the influences of climate change on the floodplain reconnection. Funding for this project is a part of the FCZD Property Acquisition budget category.



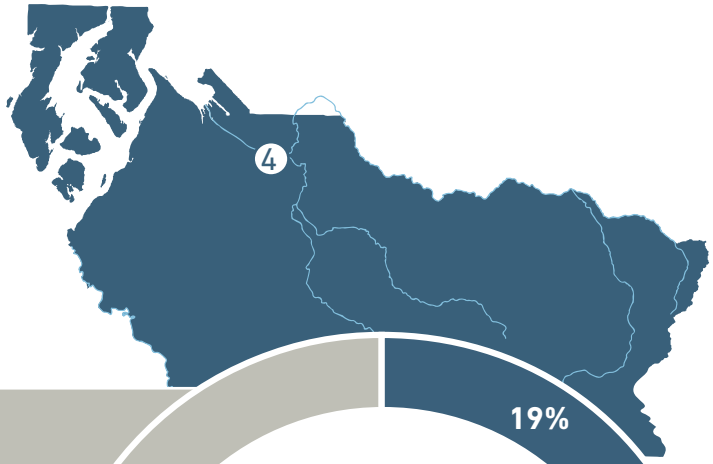






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Habitat and Flood Capacity Creation Project

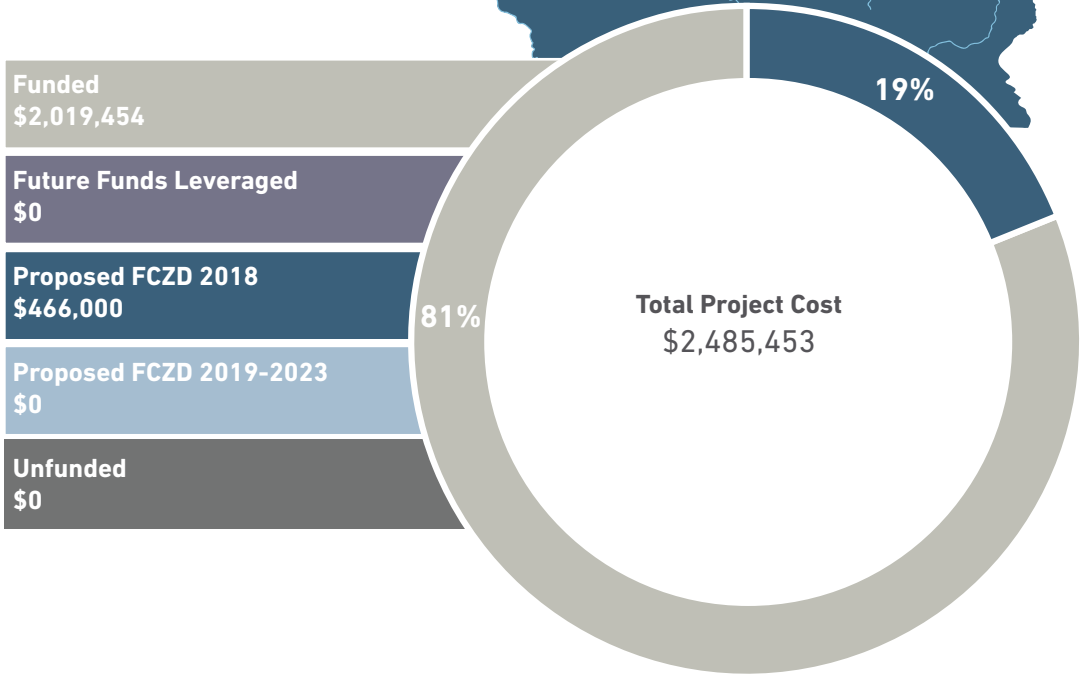


Description
This pilot project will explore sediment removal as a potential short-term strategy for enhancing degraded river habitat and reducing the risk of damage from moderate flood events.

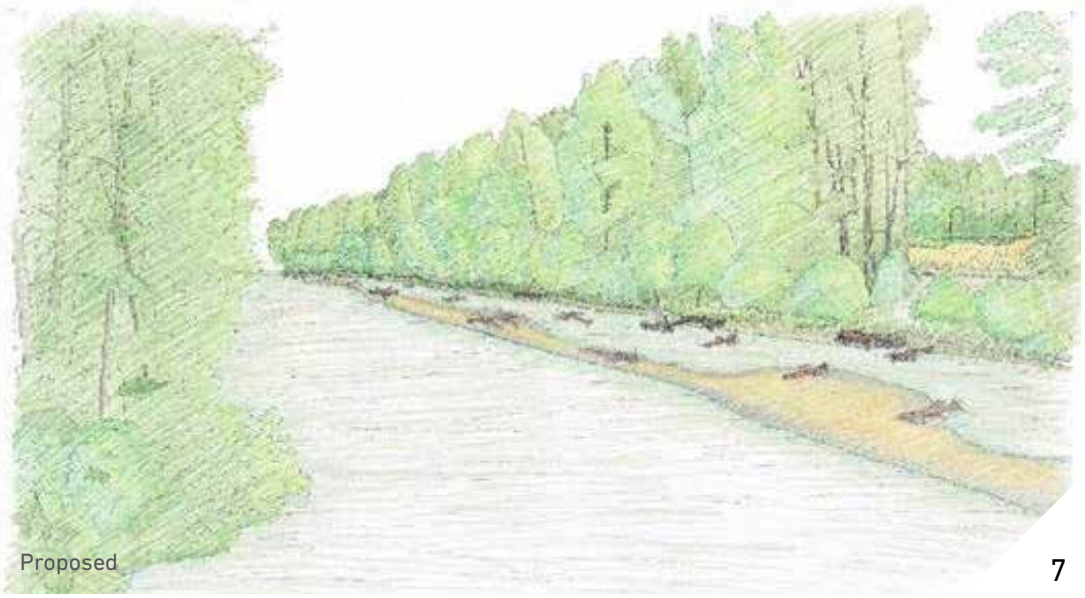
Location
Confluence of the Puyallup and White rivers.

Current Phase
Final engineering

Notes
Continuing technical and environmental analysis of the preferred reach for the pilot project. Preparing for permit submittal Fall 2017.

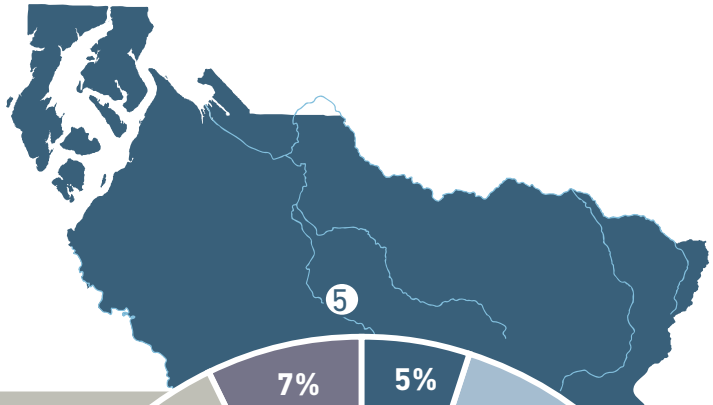



Existing


Proposed

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Neadham Road Acquisition and Revetment

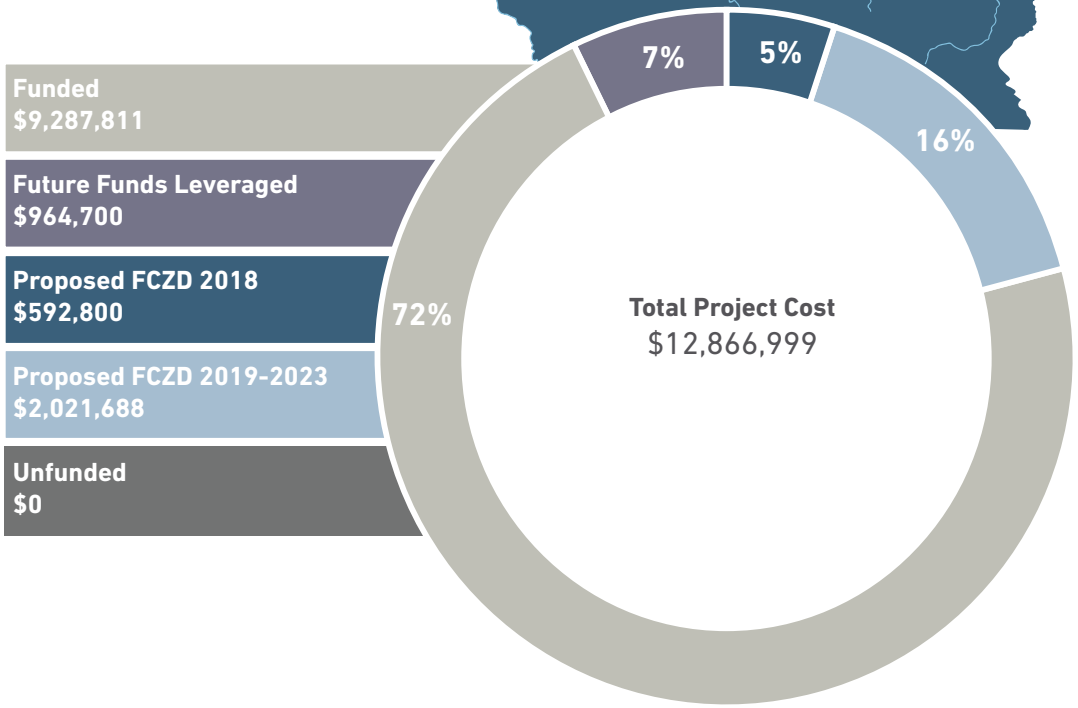


Description
This project will acquire property along Neadham Road and will remove the road, residental structures, and the remnant levee. ELJs and a revetment will also be installed along Brooks Road.

Location
Puyallup River, right bank
River Mile 25.3 - 26.9

Current Phase
Acquisition phase

Notes
Funding for this project is a part of the FCZD Property Acquisition budget category. All but three properties have been acquired for this project.



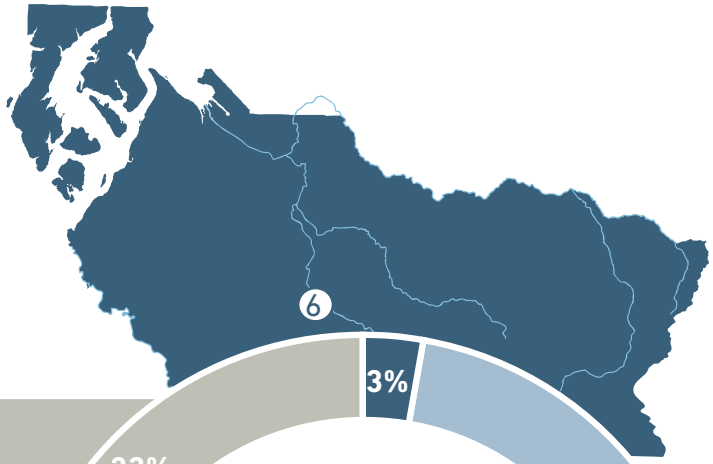






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Orville Road Revetment (Phase 2A & 2B)

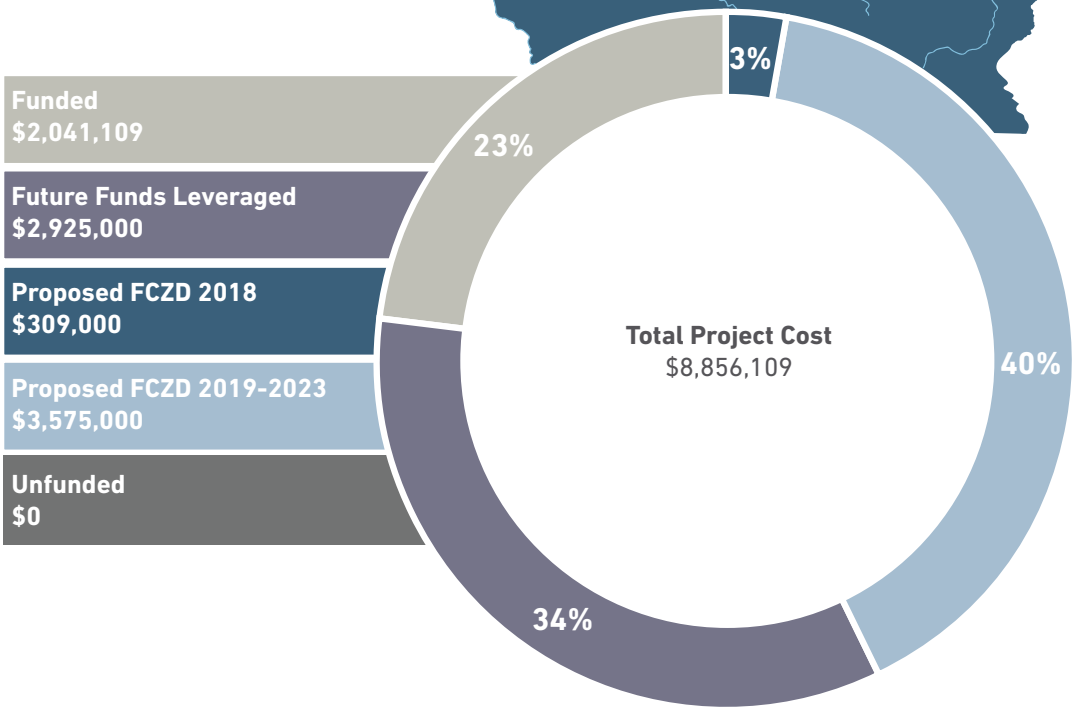


Description
This project will require constructing ELJs and a revetment to protect Orville Road from channel migration.

Location
Puyallup River, left bank
River Mile 27.6 - 28.4

Current Phase
Phase 2A construction completed in Spring 2018. Phase 2B design completed in 2018. Land acquistion completed in 2018.

Notes
Funding for this project is a part of the FCZD Property Acquisition budget category. Phase 2B construction is anticipated to start in 2019 and completed in 2020.



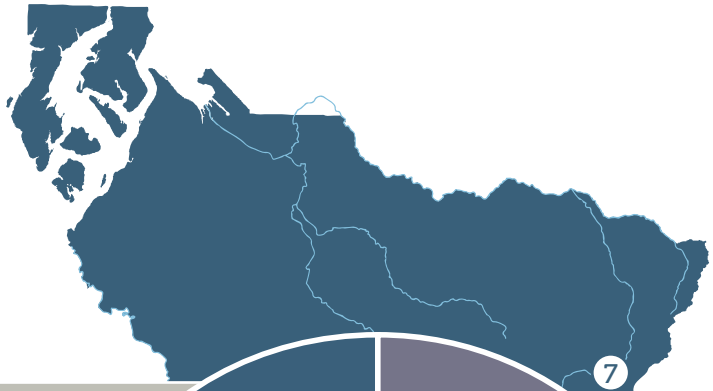






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hsmelt@co.pierce.wa.us
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Upper Nisqually Revetment Retrofit

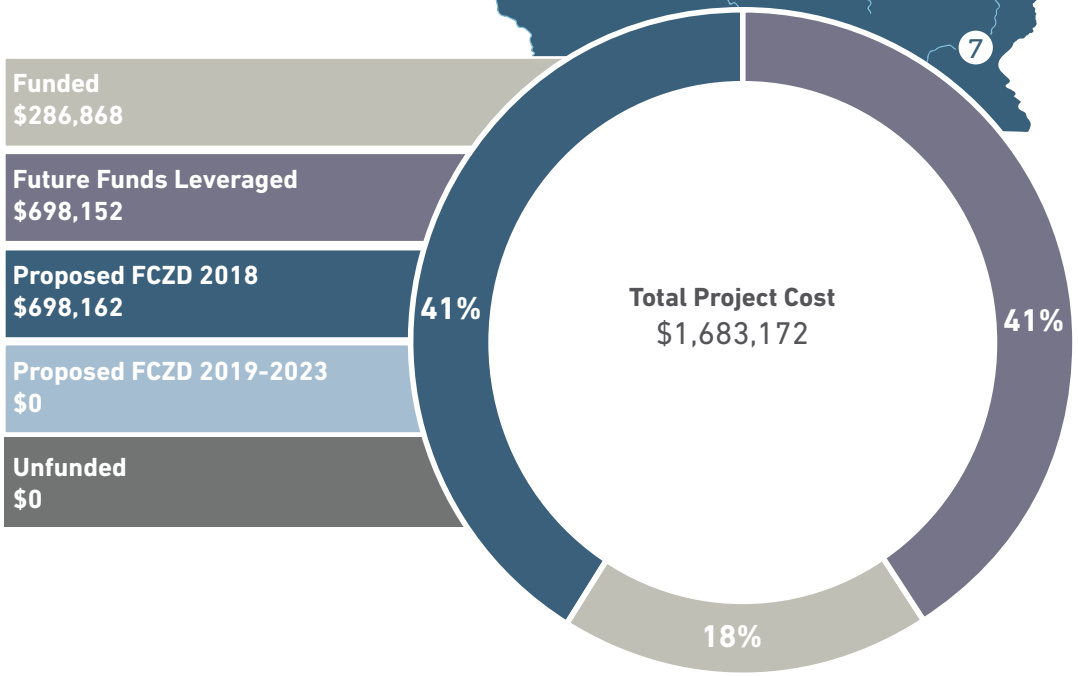


Description
This project involves constructing 28 deflectors which are adjacent to a revetment and levee to deflect high energy flows from the face of the levee.

Location
Nisqually River, right bank
River Mile 64.9 - 65.3

Current Phase
60% plan design and permitting

Notes
The project protects the entrance road to Mount Rainier National Park and the Nisqually Park subdivision. Additionally the project reduces the recurring damage to the revetment/ levee by deflecting high energy flows away from the levee face.



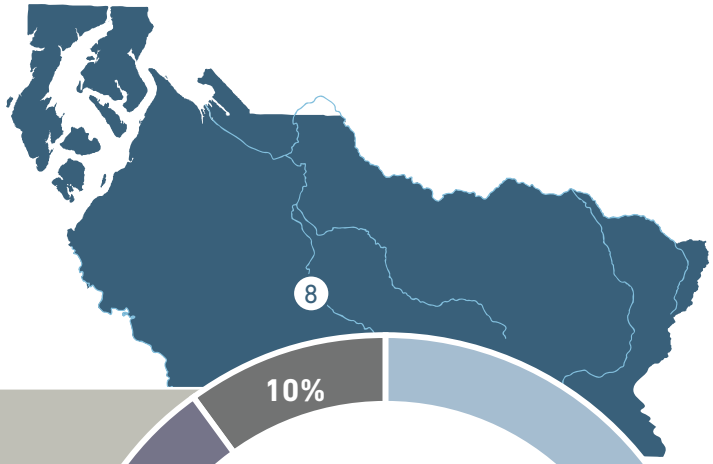






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Orville Road Revetment at Kapowsin Creek

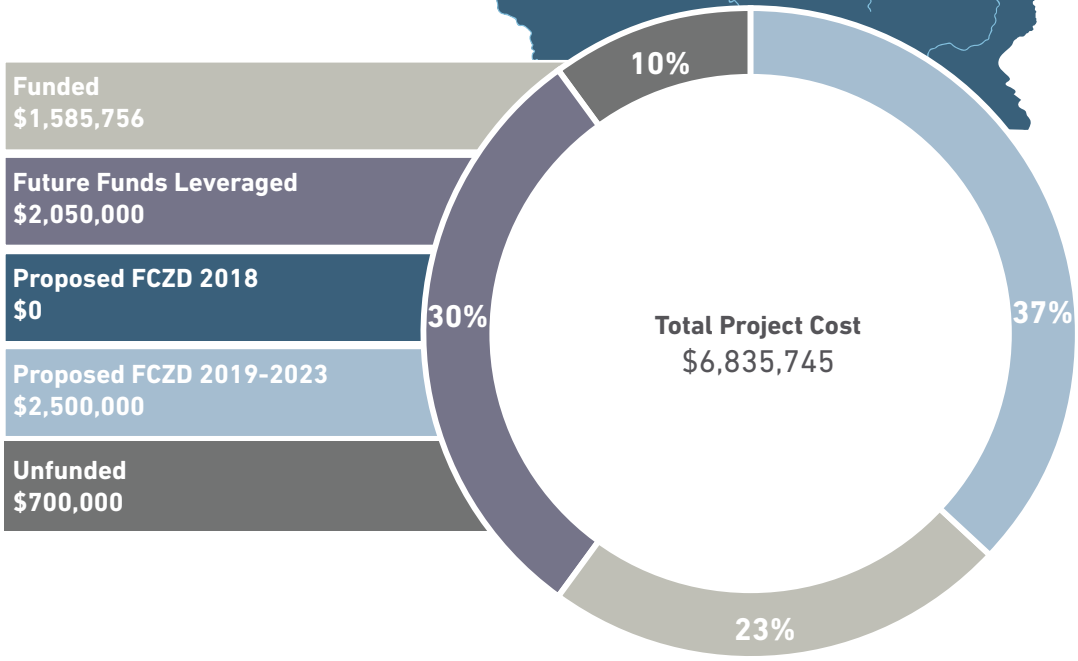


Description
This project will involve constructing a revetment along Orville Road and installing ELJs. The last property has been purchased in this area.

Location
Puyallup River, left bank
River Mile 26.2 - 26.6

Current Phase
This project is currently in the monitoring phase.

Notes
Funding for this project is proposed in 2021 and 2022. Install structures, such as ELJs, to resist channel migration in the left bank of the floodplain of the Puyallup River between the river and Kapowsin Creek.



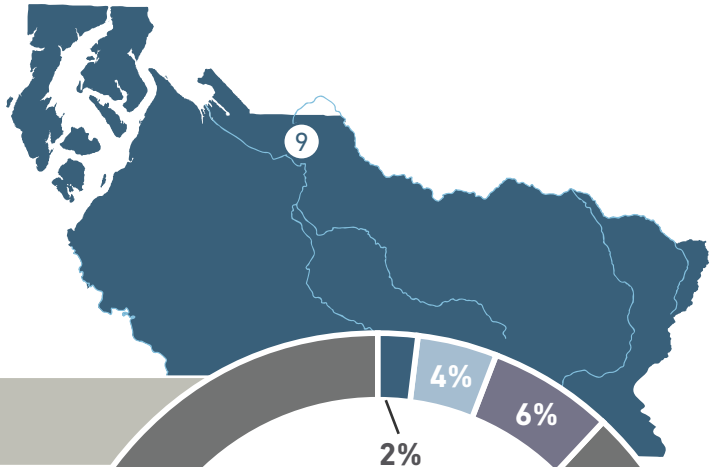






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Lower White River 24th Street Setback

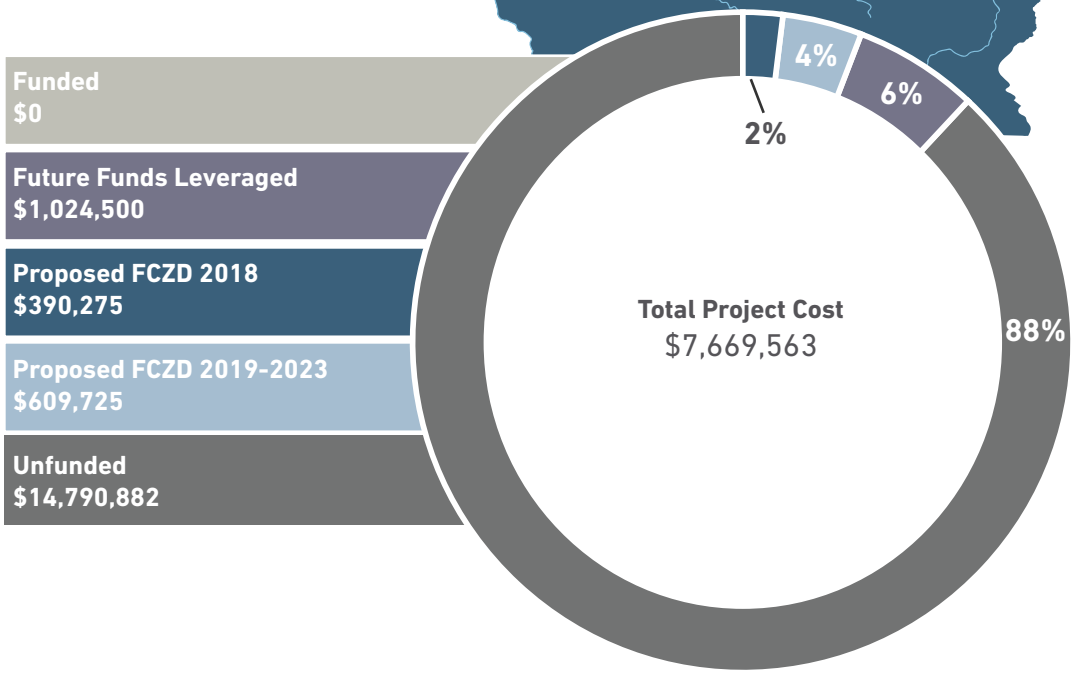


Description
This project will provide flood control and habitat benefits on the White River.

Location
White River, vicinity of 24th Street East.

Current Phase
Preliminary design and modeling.

Notes
Funding is proposed in the 2018-2023 Capital Improvement Projects budget. This project will receive $1 million over two years.



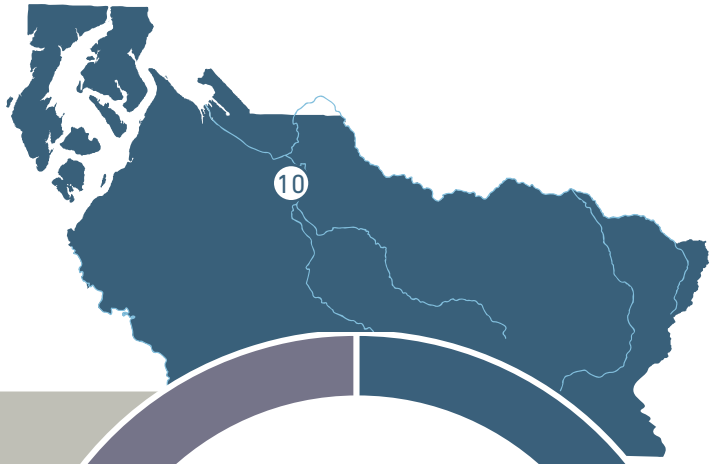






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Puyallup Wastewater Treatment Plant and Flood Protection

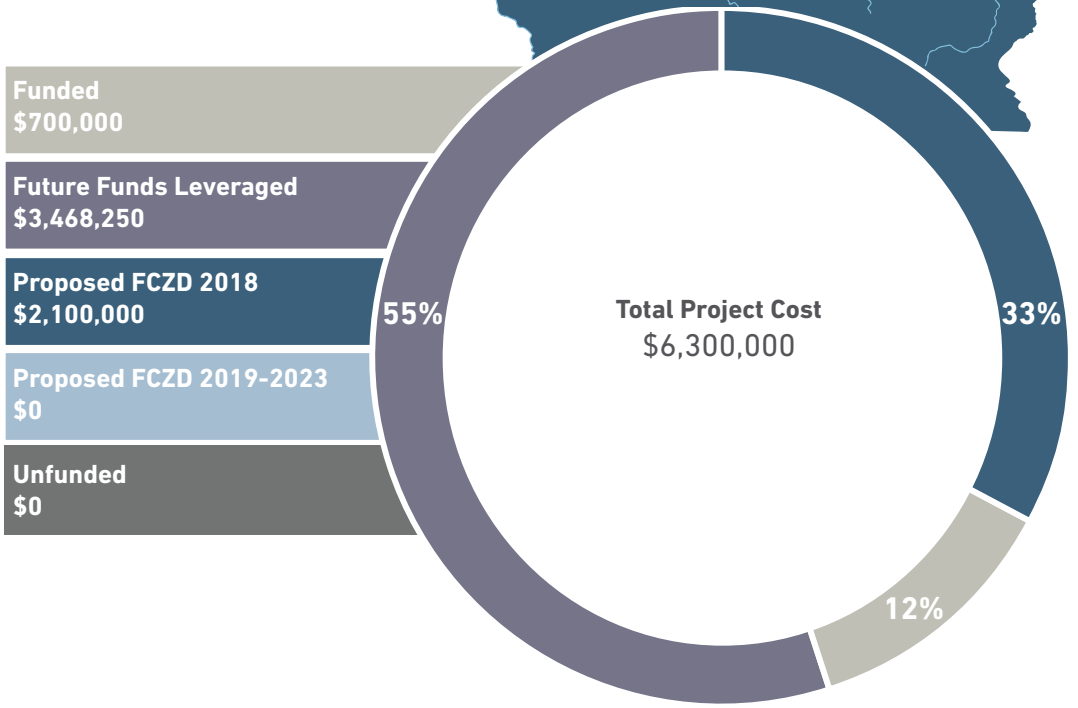


Description
This project will improve facilities and equipment to allow for plant operation during a flood and prevent flood damage. The overall project will include a new access road, relocating and raising equipment, and building floodwalls and floodproofing.

Location
Puyallup River, left bank RM 6.8 - 6.9

Current Phase
Construction starts in 2018.

Notes
This is the final payment by the FCZD of its $2.8 million contribution to this project. Remaining funding provided by City of Puyallup.



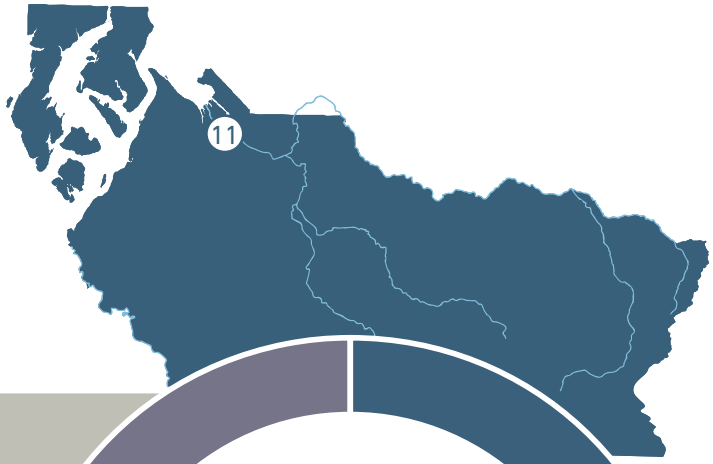






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Tacoma Wastewater Treatment Plant Flood Wall

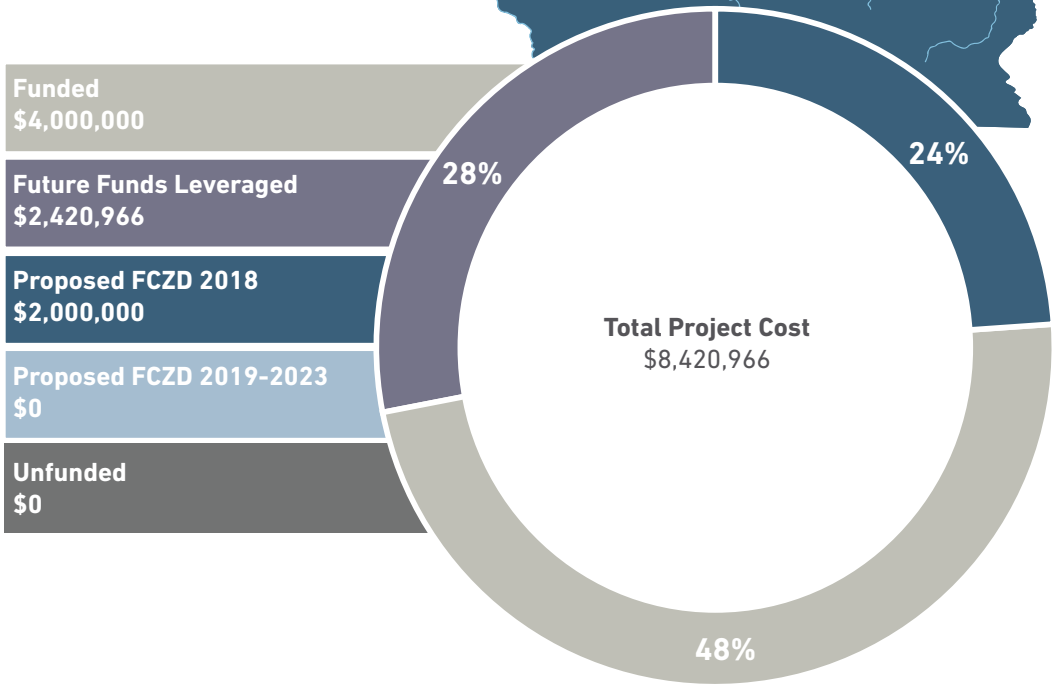


Description
The City of Tacoma designed a floodwall with automatic gates at vehicle entrances and an emergency pump station inside the Central Treatment Plant. The Flood Control Zone District helped fund the new floodwall which is 2,500 feet in length.

Location
Puyallup River, left bank
River Mile 2.9-3.1

Current Phase
Project is complete.

Notes
This is the final payment by the FCZD of its $6 million contribution to this project. This project earned the American Public Works Association 2016 Public Works Project of the Year Award.









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PIERCE COUNTY
FLOOD CONTROL
ZONE DISTRICT