

City of Tukwila

Allan Ekberg, Mayor

INFORMATIONAL MEMORANDUM

TO: Transportation and Infrastructure Committee

FROM: Henry Hash, Public Works Director

BY: Ryan Larson, Senior Program Manager

CC: Mayor Ekberg

DATE: February 23, 2018

SUBJECT: Tukwila 205 Levee Certification

Project No. 91341203, Contract No. 14-164

Tukwila Levee Rehabilitation

ISSUE

Provide an update on a US Army Corps (Corps) and King County Flood District (Flood District) project to repair the Tukwila 205 Levee.

BACKGROUND

In January 2016, staff working with the Flood District, submitted a levee rehabilitation request to the Corps. This request listed two areas along the Tukwila 205 Levee where slumping had occurred during earlier flood events. Site 1 is located near the Tukwila 205 Cutoff Levee and is approximately 120 feet in length. Site 2 is adjacent to the Mitchel Moving and Storage building. The Corps reviewed this request and determined that both sites are eligible for repair under the Corps PL-8499 Levee Rehabilitation program.

The Flood District was interested in expanding the Site 2 project to include the area immediately downstream and adjacent to the Segale Properties Corporate Office building. The Corps agreed with the understanding that the Flood District would reimburse the Corps for 100% of costs for the added work. This added area was designated as Site 3.

DISCUSSION

The Site 1 repair is limited and will be repaired within its original footprint without setting the levee back or using a floodwall. Minor plantings will also be done at this location.

The Site 2 repair was originally scoped as a setback levee requiring the purchase of the Gaco Western and Mitchel buildings, demolishing them, and then setting the levee back. The Flood District began negotiating with the two property owners but were unsuccessful in reaching an agreement. The Gaco Western Site has known petroleum contamination that will require remediation and both property owners wanted approximately twice the appraised values of the properties. Condemnation was ruled out by the Flood District due to the added time required and the need for the Corps to construct the project in 2019 or lose the emergency repair funds. Without the necessary property, the only way to repair this reach of the levee is with a floodwall due to the proximity of the existing buildings and limited existing easements.

The Site 3 repair will require the use of a flood wall due to the proximity of the Segale Corporate Office building, impacts to required driveway access, and limited existing easement.

FINANCIAL IMPACT

Repairs conducted under the PL 84-99 program are funded at a 90% Corps to 10% local cost share. The King County Flood Control District will cover the local match for the repair of the levee.

RECOMMENDATION

Informational item only. No action required.

attachments: Levee Rehabilitation Request

Corps Conceptual Plans Sites 1, 2, and 3

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Public Works Department - Bob Giberson, Director

LEVEE REHABILITATION REQUEST FORM

U.S. Army Corps of Engineers, Seattle District

Date: January 13, 2016

ATTN: Emergency Management Branch, US Army Corps of Engineers Ms. Catherine DesJardin PO Box 3755 Seattle, WA 98124

Dear Ms. DesJardin:

The purpose of this letter is to request Rehabilitation Assistance from the Corps of Engineers under Public Law 84-99 for the repair of the Tukwila 205 Levee. This levee was damaged by flood waters during the December 2015 event. The Tukwila 205 project is Active in the Rehabilitation and Inspection Program. The levee is located on the Green River and there are two areas of the levee that sustained damage.

The first area is slump that is approximately 120 feet in length that begins just upstream of the Tukwila 205 cutoff levee and extends approximately 40 feet downstream into the levee. This damage is located at approximately River Mile 16.7 on the left bank.

The second area of damage is an area of scour that has exposed rock armor. It is located at river mile 15.8 on the left bank and is adjacent to Mitchel moving and Storage.

Public Sponsor Name:

Project Identification (Levee name):

Sponsor Point of Contact:

Address:

Telephone:

Email address:

City of Tukwila

Tukwila 205

Name: Rvan Larson

6300 Southcenter Blvd, Suite 100

Tukwila, WA

(206) 431-2456

ryan.larson@tukwilawa.gov

I further request that the Corps of Engineers take all necessary steps to accomplish the appropriate repairs. It is agreed that the required items of local cooperation will be provided should the levee be eligible for Rehabilitation Assistance under PL 84-99 and the repair work is accomplished by the Corps of Engineers.

I hereby certify that the right-of-way which is required for any authorized repair work is presently available, and this letter constitutes permission for the Government and its agents to enter and use said right-of-way in undertaking authorized repair work. We are requesting U.S. Army Corps of Engineers (ACOE) assistance under Public Law 84-99 Program in implementing a repair project at these locations.

Rvan Larson, P.E.

Senior Program Manager

Enclosure:

Flood Protection Facility Inspection form

Site photos

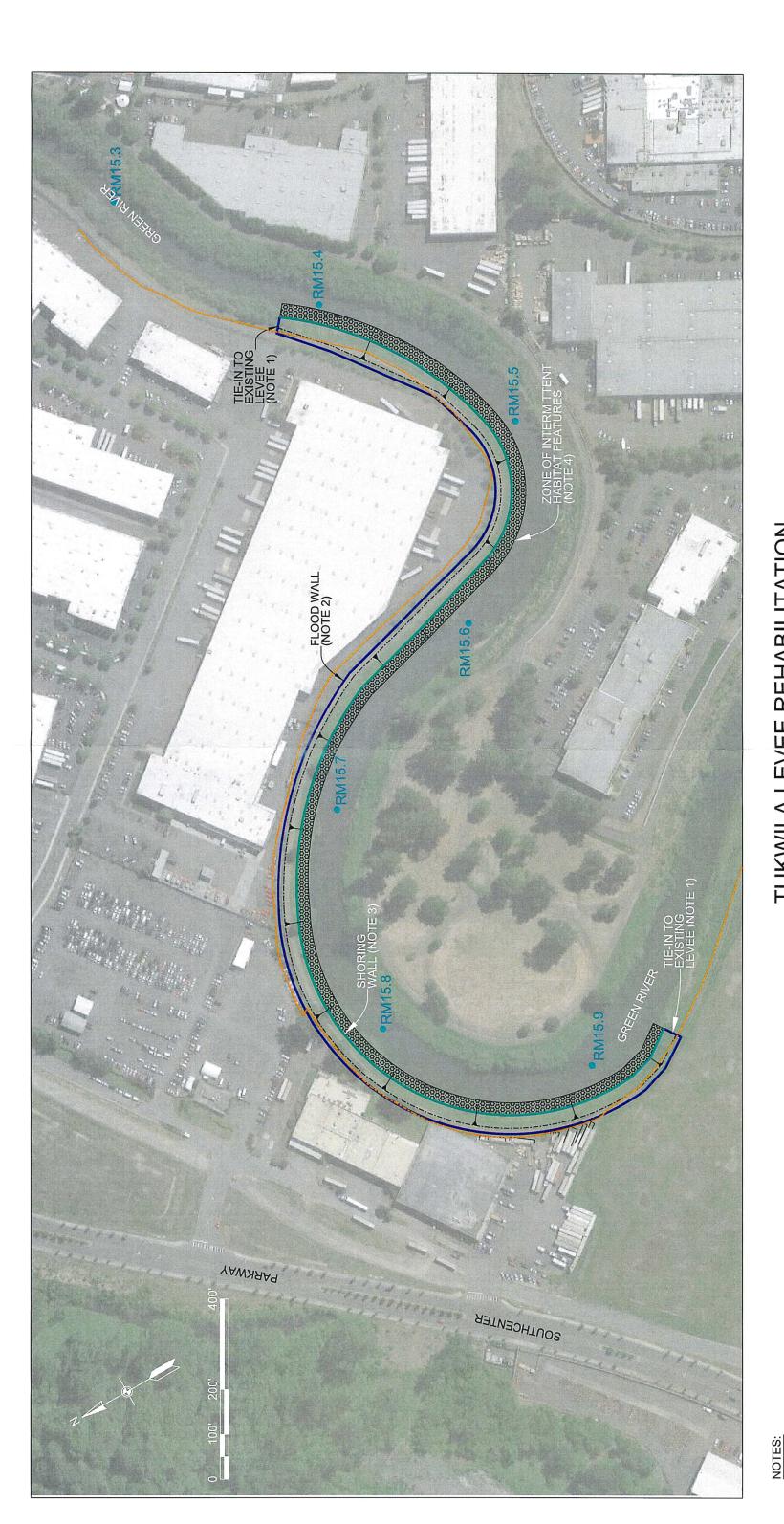
Flood Prote	Flood Protection Facility Inspection	Inspection		*Required Fields	_	2
River*: GREES	EN			Inspector(s)*: (ON PER), KYAN LAK	455V	
Facility Name*:	TUKWICA	205		Flow Type*:		Flood
Inspection Start and End Date*:		DEC 20, 201	V	20		
Inspection Type*: Post Flood		Routine		Inspection Mode*: Boat Land		
Is Partial Inspection*? Partial Inspection from*	D.	12,45 U/S RM*: [6,7]	: 16.7	min Trimble	No Equipment	
Notes: DROVE C	H OF 205	KELINK	JED FOR	ACROSS - CHANNEL OBSERVATION	TEVEZ	(A)
AND A	T MITCHELL!	MovING & S	STOKAGE			
*Required Fields for Damages	r Damages					
Type RM*	Coordinates (X/Y)	Length Width	Depth Description	scription	Severity*	Photo
☐ Damage 14.2			£480	HOME DEPOT PATIOL CONCERNS HAS ALISEN BECAUSE TREES ON SANK ALE NOT ALL VERTICAL, NO SIGN OF SLUMING OR SMILAR.	(H/W/L)	
M Damage 15.8		001	62	MITCHELL MOVING & STORAGE SOUR HAS EXPOSED FOCK ALMOR, NO	_	#10-
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Damage 167		001	NC	CUTOFF LEVEE. SLUMI BEACH IN WIDPENTECTED SAME UPSTEEM OF CUTDIFF, HAS GLOWN AND	Z Z) #
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☐ Damage						
Note						
☐ Damage						
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	Notify Basin Supervisor	X	CHINE COVI	CONSULT W/ USACOE RE PLB4-99	REHAB.	

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TUKWILA LEVEE REHABILITATION CONCEPTUAL PLAN - SITES 2 & 3

SHORING WALL COMPRISED OF A SHEET PILE WALL TO BE INSTALLED TO FACILITATE CONSTRUCTION OF HABITAT FEATURES.

FLOOD WALL COMPRISED OF A CONCRETE WALL FOUNDED ON A SEEPAGE CONTROL SHEET PILE WALL.

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EXTENTS OF REHABILITATION TO BE FINALIZED DURING ENGINEERING & DESIGN DEVELOPMENT.

HABITAT FEATURES TO INCLUDE A COMBINATION OF ENGINEERED LOG JAMS (ELJ), LARGE WOODY DEBRIS (LWD), AND PLANTINGS (ALDERS, MAPLES, SHRUBS, WILLOWS, ETC.). LOCATIONS OF PLANTINGS TO BE DETERMINED BASED ON STAKEHOLDER INPUT. 4.

EASEMENTS TO BE VERIFIED WITH GROUND SURVEY.

APPROXIMATE EASEMENTS (NOTE 5) SHORING WALL (NOTE 3) HABITAT ZONE (NOTE 4) FLOOD WALL (NOTE 2)

LEGEND