

Levees Identification, Seclusion and PAL

King County, WA

This document contains the details on what is required to do seclusion in the identified levee areas of King County, WA.

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FEMA

Contents

Introduction	3
Methodology.....	4
Levee Identification.....	4
Seclusion Eligibility.....	4
Determination of Hydraulic Significance and Area of Impact	4
Elevation Data Sources	4
Levee Summaries	5
Levee 1: North Creek - Summary and Profile.....	6
Levee 2: North Creek - Summary and Profile.....	7
North Creek Levee Summary Checklist.....	8
Levee 3: North Creek - Summary and Profile.....	9
North Creek Levee Summary Checklist.....	10
Levee 4: North Creek – Summary and Profile.....	11
North Creek Levee Summary Checklist.....	12
Levee 5: Sammamish River – Summary and Profile.....	13
Levee 6: Sammamish River – Summary and Profile.....	14
Levee 7: Sammamish River – Summary and Profile.....	15
Sammamish River Levees Summary Checklist	16
Levee 8: Cedar River – Summary and Profile.....	17
Cedar River Levee Summary Checklist.....	18
Levee 9: Cedar River – Summary and Profile.....	19
Cedar River Levee Summary Checklist.....	20
Levee 10: Green River - Summary and Profile	21
Levee 11: Green River - Summary and Profile	22
Green River Levees Summary Checklist.....	23
Levee 12: Green River - Summary and Profile	24
Green River Levee Summary Checklist	25
Levee 13: Tukwila - Summary and Profile.....	26
Tukwila Levee Summary Checklist	27
Levee 14: Green River - Summary and Profile	28
Levee 15: Green River - Summary and Profile	29

Green River Levees Summary Checklist.....	30
Levee 16: Desimone-Briscoe School - Summary and Profile	31
Levee 17: Boeing Levee- Summary and Profile.....	32
Green River Levees Summary Checklist.....	33
Levee 18: Lower Russell - Summary and Profile	34
Levee 19: Upper Russell - Summary and Profile	35
Levee 20: Kent Shops – Narita - Summary and Profile	36
Levee 21: Meyers Golf - Summary and Profile	37
Levee 22: Providence Point - Summary and Profile.....	38
Green River Levees Summary Checklist.....	39
Levee 23: Kent Levee - Summary and Profile	40
Green River Levee Summary Checklist	41
Levee 24: Horseshoe Bend - Summary and Profile.....	42
Green River Levee Summary Checklist	43
Levee 25: Monk Levee - Summary and Profile	44
Green River Levee Summary Checklist	45
Levee 26: Reddington Levee - Summary and Profile	46
Levee 27: Galli Levee - Summary and Profile.....	47
Levee 28: Dykstra Levee - Summary and Profile.....	48
Green River Levees Summary Checklist.....	49
Levee 29: Green River - Summary and Profile	50
Green River Levee Summary Checklist	51
Levee 30: Green River - Summary and Profile	52
Levee 31: Muellen Levee - Summary and Profile	53
Green River Levees Summary Checklist.....	54
Levee 32: Potter Levee - Summary and Profile.....	55
Green River Levee Summary Checklist	56
Levee 33: Neeley Levee - Summary and Profile.....	57
Green River Levee Summary Checklist	58
Levee 34: Hammakami Levee- Summary and Profile	59
Green River Levee Summary Checklist	60
Selected Seclusion Areas	61

Introduction

Recently, the Federal Emergency Management Agency (FEMA) implemented a new mapping process known as seclusion. Seclusion mapping is intended to move forward flood hazard mapping projects that have been on hold because a portion of the study area is impacted by a non-accredited levee system.

The levee seclusion mapping process will allow Federal, state and local investments in updated flood hazard analyses to be released for use by local officials who are enforcing floodplain management ordinances. Additionally, seclusion mapping will allow FEMA to provide community officials, residents, and business owners with more up to date information about their local flood hazards and associated risks.

Updated flood hazard information assists community officials in sound development and floodplain management decision making and allows residents and home owners to understand their current flood risk so that they can make better personal and business decisions related to hazard preparedness and hazard mitigation.

The levee seclusion method involves fencing off and clearly defining the area impacted by the non-accredited levee, dike or other structure. Effective flood hazard information will be transferred onto the new/revised Flood Insurance Rate Map (FIRM) with a note indicating the source. The Region will commit to a future revision of the FIRM panel to address the non-accredited structure's flood hazard at a later date.

Methodology

Levee Identification

STARR identified all levees in King County, WA, using information from the National Levee Database (NLD), the Midterm Levee Inventory (MLI) and available data in the Preliminary Digital Flood Insurance Rate Map (DFIRM) database for King County. King County officials provided elevation data along levee crests which were also used to identify levees. The area studied in this analysis is shown on Levee Location Map – King County, WA. Levees located outside of this study area were not evaluated for seclusion eligibility for this study.

Seclusion Eligibility

The Levee Seclusion Method can only be used as an option for non-accredited levees and levees that were de-accredited without being offered Provisionally Accredited Levee (PAL) status. Additionally, the two aforementioned non-accredited and de-accredited levee categories must also be determined to be eligible for FEMA's new levee analysis and mapping procedures (LAMP) for non-accredited levees to proceed with Levee Seclusion method.

Determination of Hydraulic Significance and Area of Impact

For non-accredited levees and de-accredited levees where flood hazards were not digitized as part of the pending countywide study, hydraulic significance was reviewed to see if the levee is eligible for LAMP and levee seclusion.

The King County DFIRM preliminary study was released on September 3, 2013. BFEs from this preliminary study landward of the levee and on the river side of the levee were compared. If the BFEs landward of the levee were less than the BFEs on the river side of the levee, the levee was assumed to be hydraulically significant and eligible for LAMP and therefore eligible for the seclusion process. If the BFEs did not change between the river side of the levee and the landward side of the levee, the BFEs were compared to the top of the levee, which was extracted from basemap topographic information. If the BFE at the levee was several feet higher than the estimated top of levee, the levee was assumed to be hydraulically insignificant and not eligible for LAMP or Seclusion.

Elevation Data Sources

All elevations used to create the levee profiles in this report were extracted from a Digital Elevation Model (DEM) created from the same LIDAR data which was used in the revised flood studies in King County. For specific information, such as LIDAR extents and dates that it was acquired, please see the technical reports for the flood hazard analysis in King County. King County and City of Kent also provided as-built plans that include elevation data to be used in the study. These as-built plans were compared to the profiles extracted from LIDAR elevations. The as-built plans were also used to confirm the upstream and downstream extents of the levees. In some cases the extents of the levees and seclusion polygons were modified to agree with the as-built plans. In cases where the levee is or was previously certified the as built plans were used to create a new profile that shows the as built levee elevations.

Levee Summaries

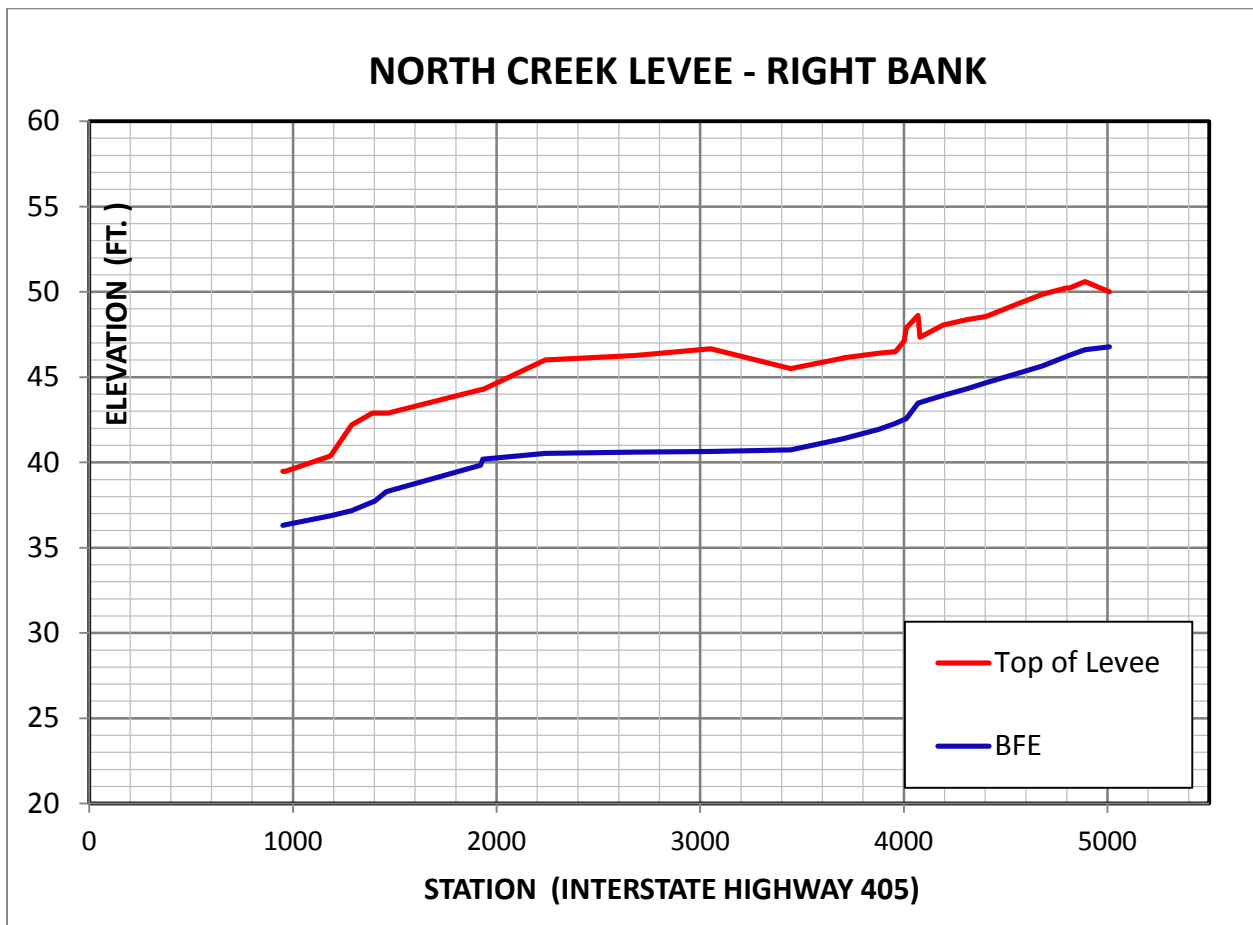
The attached maps show the location of all levees with the corresponding Levee ID number. The levee lines are realigned based on the LIDAR data used in the preliminary mapping. Elevations points were taken at 20 foot increments along the lines. The profile elevations were not smoothed along the length of the levee. The summaries below detail the specific location of each levee and provide the determination of whether the levee is hydraulically significant or insignificant. The definition of hydraulic insignificant as stated in Operating Guidance 12-13 dated September 2013 is as follows.

For mapping purposes, a structure is considered hydraulically insignificant if, during a 1-percent –annual- chance flood event, the peak water-surface elevations landward of the structure may be the same regardless of whether the structure was in place.”

Levee 1: North Creek - Summary and Profile

This Levee is located along the right channel bank of North Creek. The levee starts at the intersection of Northeast 195th Street and North Creek Trail and extends upstream for approximately 4,500 feet. The area landward of this levee is not eligible for seclusion. Both the effective mapping and the preliminary mapping show that there are no BFEs available beyond the levee. The profiles listed below show levee elevations above the BFE along this levee. This Levee is **certified** as providing protection from the 1-percent-annual-chance flood plain under FEMA Letter of Map Revision (LOMR) case number 11-10-0014P.

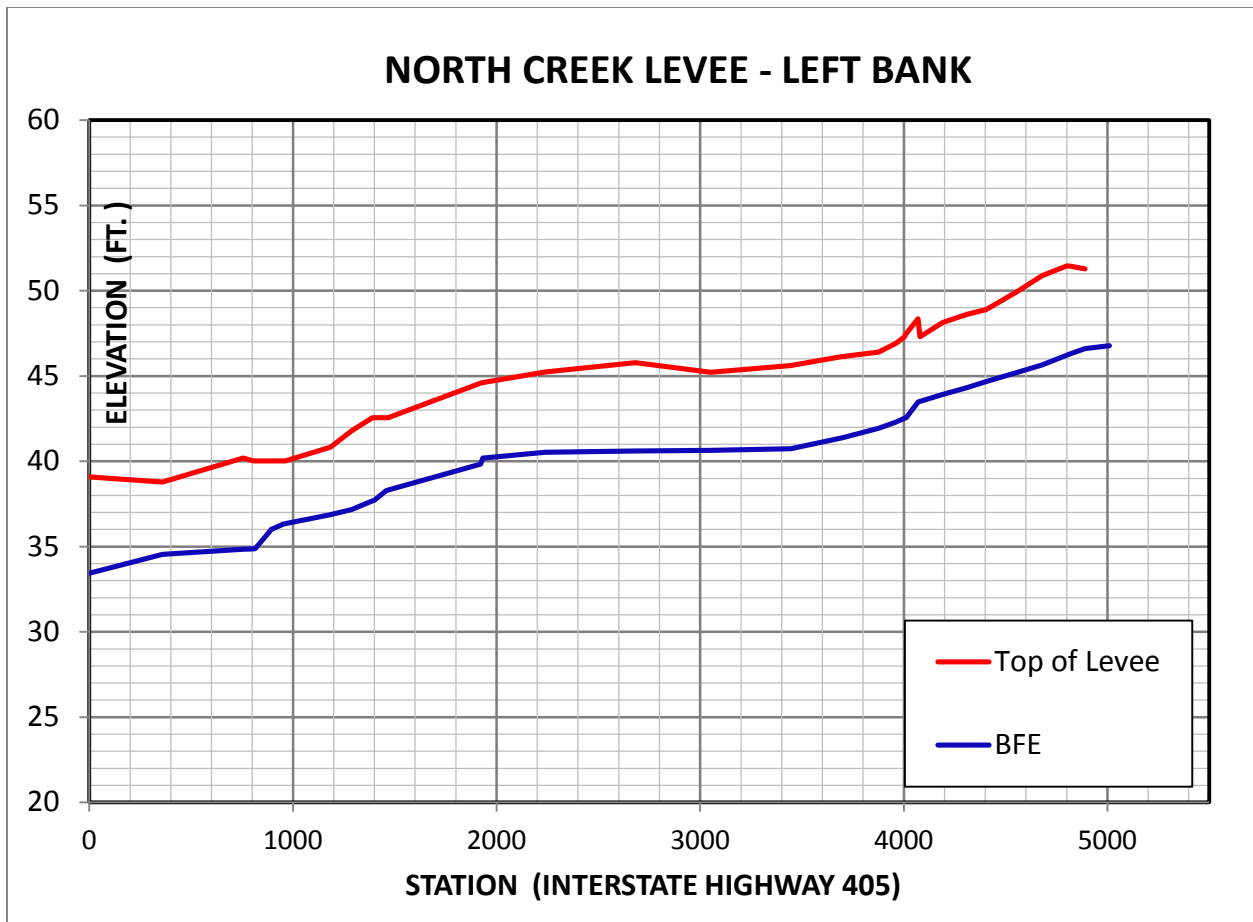
Levee elevations based on as-built data and hydraulic model



Levee 2: North Creek - Summary and Profile

This Levee is located along the left channel bank of North Creek. The levee starts at the intersection of North Creek and Interstate 405 and extends upstream for approximately 5,500 feet. The area landward of this levee is not eligible for seclusion. Both the effective mapping and the preliminary mapping show that there are no BFEs available beyond the levee. The profiles listed below show levee elevations above the BFE along this levee. This Levee is **certified** as providing protection from the 1-percent-annual-chance flood plain under FEMA LOMR case number 11-10-0014P.

Levee elevations based on as-built data and hydraulic model



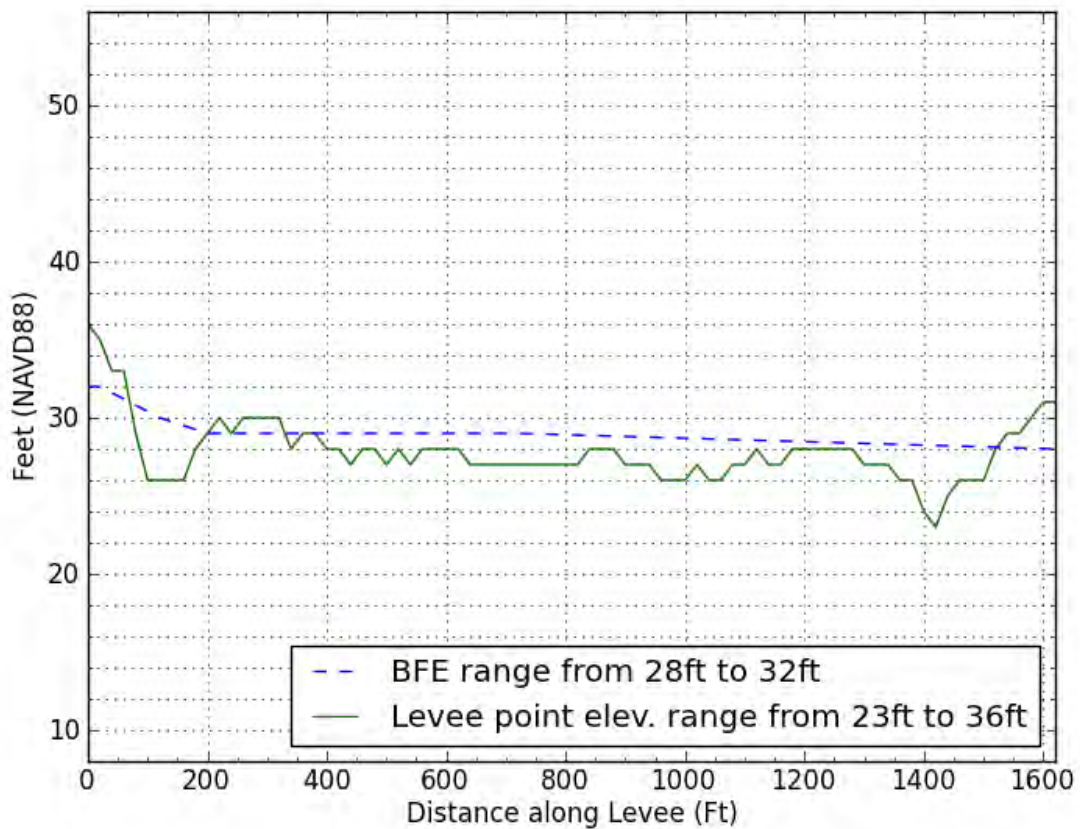
North Creek Levee Summary Checklist

Levee Name:	North Creek				
Protection For:	North Creek – King County, WA				
Levee Owner:					
Levee Status Information					
Mapping Status:	<input checked="" type="checkbox"/> Historic FIRM/FHBM - 1 percent annual chance protection shown. Effective Date: November 8, 1999				
	<input type="checkbox"/> Historic FIRM/FHBM - 1 percent annual chance NOT protected (Low-level protection)				
	Current Zone Designation :	Riverward:	<input checked="" type="checkbox"/> Zone AE	<input type="checkbox"/> Zone A	<input type="checkbox"/> Zone X
		Landward:	<input type="checkbox"/> Zone AE	<input type="checkbox"/> Zone A	<input checked="" type="checkbox"/> Zone X
	NOTE:				
	Current Model Information Available : <input type="checkbox"/> Yes <input type="checkbox"/> No				
ACTION: Issue preliminary FIRM's showing the area protected by applying the seclusion method.					
Accreditation Status:	<input type="checkbox"/> Inspection On-going / Requires Investigation		Results expected:		
	<input checked="" type="checkbox"/> Certified / Accredited / Meets 65.10		Accreditation date:		
	<input type="checkbox"/> Not Certified / De-Accredited				
	Deficiency : <input type="checkbox"/> Design <input type="checkbox"/> Operation <input type="checkbox"/> Interior Drainage <input type="checkbox"/> Maintenance				
	<input type="checkbox"/> PAL Expired Expired on: DATE:				
	<input type="checkbox"/> No certification received				
	<input type="checkbox"/> Low-level protection (not built for 1 percent annual chance protection)				
PAL Information:	<input type="checkbox"/> USACE Built <input type="checkbox"/> USACE Owned/Operated <input type="checkbox"/> USACE Maintenance				
	<input type="checkbox"/> Locally Built <input type="checkbox"/> Locally Owned/Operated <input type="checkbox"/> Local Maintenance				
	<input type="checkbox"/> Private Ownership				
	<input type="checkbox"/> PAL Eligible - Yes Scenario <input type="checkbox"/> A1 <input type="checkbox"/> A2 <input type="checkbox"/> B <input type="checkbox"/> C2				
	<input type="checkbox"/> PAL Eligible - No Scenario <input type="checkbox"/> C1 <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> PAL previously expired				
	<input type="checkbox"/> PAL Offered + 90 days:				
	<input type="checkbox"/> PAL Signed – Expiration:				
	<input type="checkbox"/> PAL 12-month progress report - not received				
	<input type="checkbox"/> Yes Date: <input type="checkbox"/> No Request Letter Date:				
	<input type="checkbox"/> PAL 90-day letter: DATE				
	<input type="checkbox"/> PAL 30-day letter: DATE				
Project Type Identification:	<input type="checkbox"/> Newly Identified/Project Required				
	<input type="checkbox"/> On-going Project				
	<input type="checkbox"/> Recently Certified Levee System				
Additional Notes:					

Levee 3: North Creek - Summary and Profile

This Levee is located along the right channel bank of North Creek. The levee starts at North Creek Trail at the University of Washington Bothell and continues upstream to the intersection of North Creek and Interstate 405. The area landward of this levee is not eligible for seclusion. There is no change between the BFEs landward and on the river side of the levee on the preliminary mapping. Based on this and the below profile the 1-percent-annual-chance flood elevation would not be impacted by this structure, making it hydraulically insignificant.

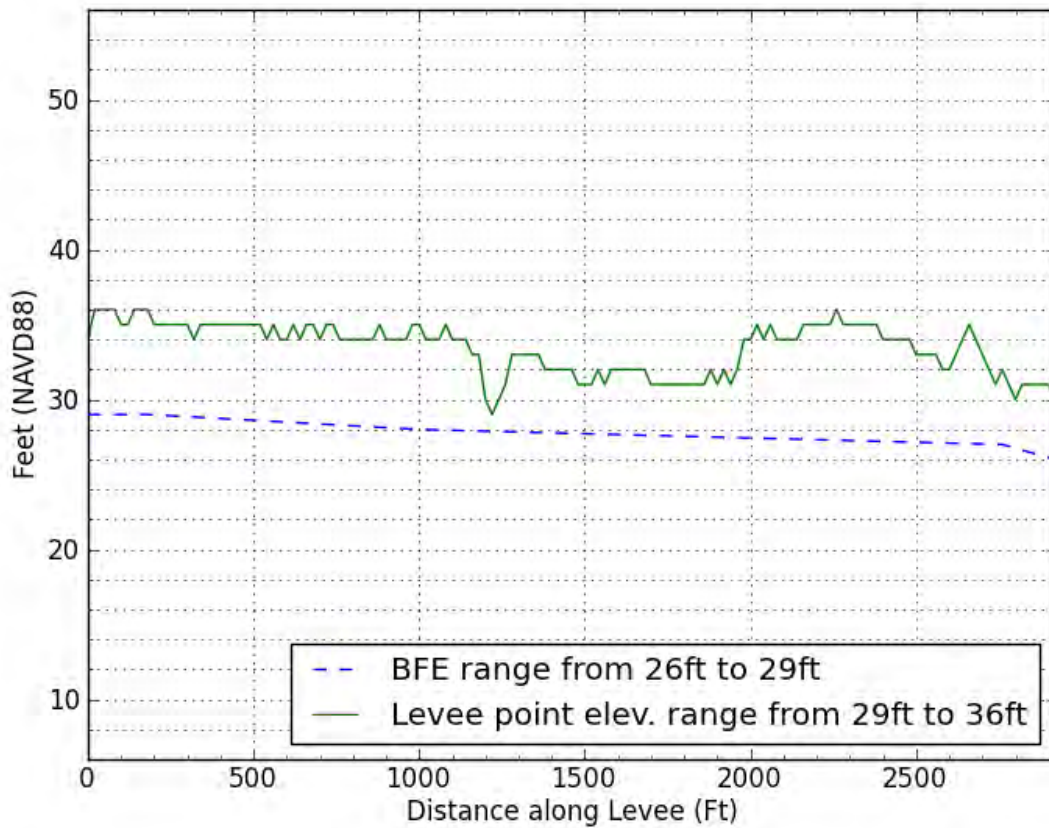
Ground Profile along Levee 3: North Creek



Levee 4: North Creek – Summary and Profile

This levee is located along the Left Bank of North Creek. The levee starts just upstream of the intersection of North Creek and Interstate 522 and continues upstream for approximately 3,000 feet. The area landward of this levee is not eligible for seclusion. There is no change between the BFEs landward and on the river side of the levee on the preliminary mapping. The flooding shown landward of the levee is connected to the river upstream and downstream of this levee location and is contained to an old channel. Based on this and the below profile the 1-percent-annual-chance flood elevation would not be impacted by this structure, making it hydraulically insignificant.

Ground Profile along Levee 4: North Creek



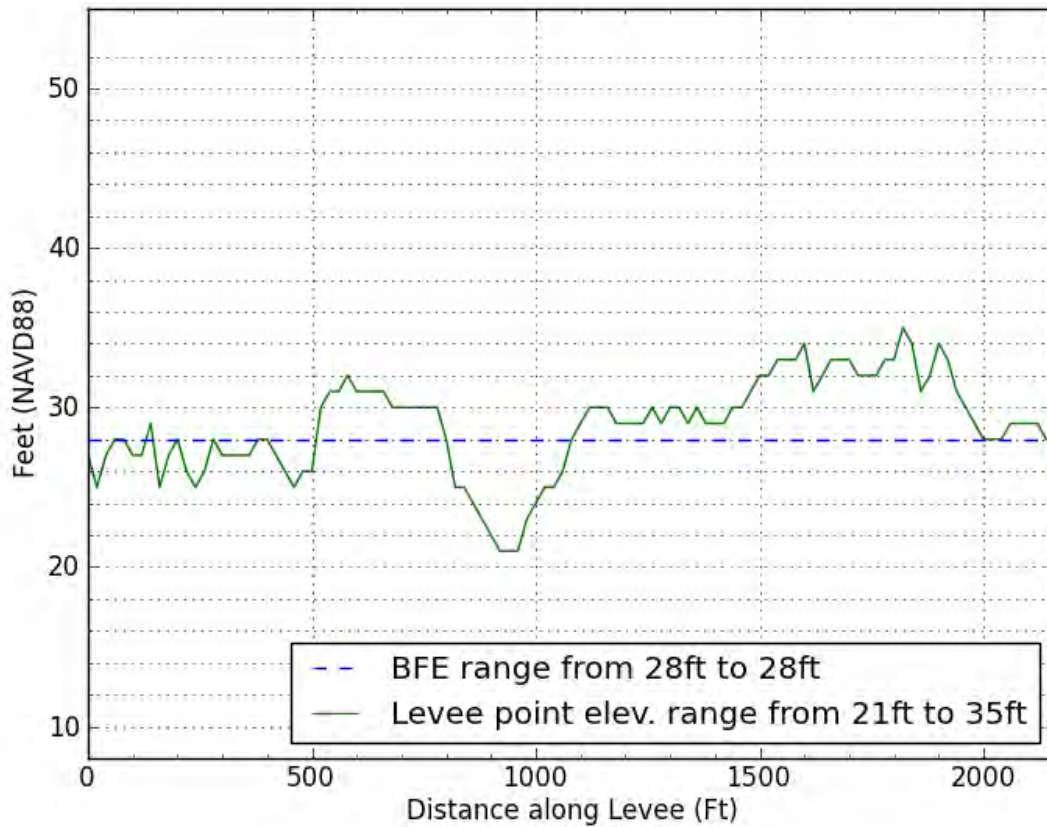
North Creek Levee Summary Checklist

Levee Name:	North Creek
Protection For:	North Creek – King County, WA
Levee Owner:	
Levee Status Information	
Mapping Status:	<input type="checkbox"/> Historic FIRM/FHBM - 1 percent annual chance protection shown. Effective Date:
	<input checked="" type="checkbox"/> Historic FIRM/FHBM - 1 percent annual chance NOT protected (Low-level protection)
	Current Zone Designation : Riverward: <input checked="" type="checkbox"/> Zone AE <input type="checkbox"/> Zone A <input type="checkbox"/> Zone X
	Landward: <input checked="" type="checkbox"/> Zone AE <input type="checkbox"/> Zone A <input type="checkbox"/> Zone X
	NOTE:
	Current Model Information Available : <input type="checkbox"/> Yes <input type="checkbox"/> No
ACTION: Issue preliminary FIRM's showing the area as special flood hazard area using natural valley.	
Accreditation Status:	<input type="checkbox"/> Inspection On-going / Requires Investigation Results expected:
	<input type="checkbox"/> Certified / Accredited / Meets 65.10 Accreditation date:
	<input checked="" type="checkbox"/> Not Certified / De-Accredited De-Accreditation date:
	Deficiency : <input type="checkbox"/> Design <input type="checkbox"/> Operation <input type="checkbox"/> Interior Drainage <input type="checkbox"/> Maintenance
	<input type="checkbox"/> PAL Expired Expired on: DATE:
	<input type="checkbox"/> No certification received
	<input type="checkbox"/> Low-level protection (not built for 1 percent annual chance protection)
	<input type="checkbox"/> Rehabilitation in progress
PAL Information:	<input type="checkbox"/> USACE Built <input type="checkbox"/> USACE Owned/Operated <input type="checkbox"/> USACE Maintenance
	<input type="checkbox"/> Locally Built <input type="checkbox"/> Locally Owned/Operated <input type="checkbox"/> Local Maintenance
	<input type="checkbox"/> Private Ownership
	<input type="checkbox"/> PAL Eligible - Yes Scenario <input type="checkbox"/> A1 <input type="checkbox"/> A2 <input type="checkbox"/> B <input type="checkbox"/> C2
	<input type="checkbox"/> PAL Eligible - No Scenario <input type="checkbox"/> C1 <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> PAL previously expired
	<input type="checkbox"/> PAL Offered + 90 days:
	<input type="checkbox"/> PAL Signed – Expiration:
	<input type="checkbox"/> PAL 12-month progress report - not received
	<input type="checkbox"/> Yes Date: <input type="checkbox"/> No Request Letter Date:
	<input type="checkbox"/> PAL 90-day letter: DATE
	<input type="checkbox"/> PAL 30-day letter: DATE
	Project Type Identification:
<input type="checkbox"/> On-going Project	
<input type="checkbox"/> Recently Certified Levee System	
Additional Notes:	

Levee 5: Sammamish River – Summary and Profile

This structure is identified as levee in the Washington State Department of Ecology levee database; however the feature is not identified in the National Levee Database and/or Mid-Term Levee Inventory database. It is located along the Right Bank of the Sammamish River and starts at the confluence of the Sammamish River and Little Bear Creek extending upstream for approximately 2,200 feet. Upon further discussions with King County it was determined that this structure does not classify as a levee, it does not meet the definition of a levee as spelled out in 44 CFR 59.1.

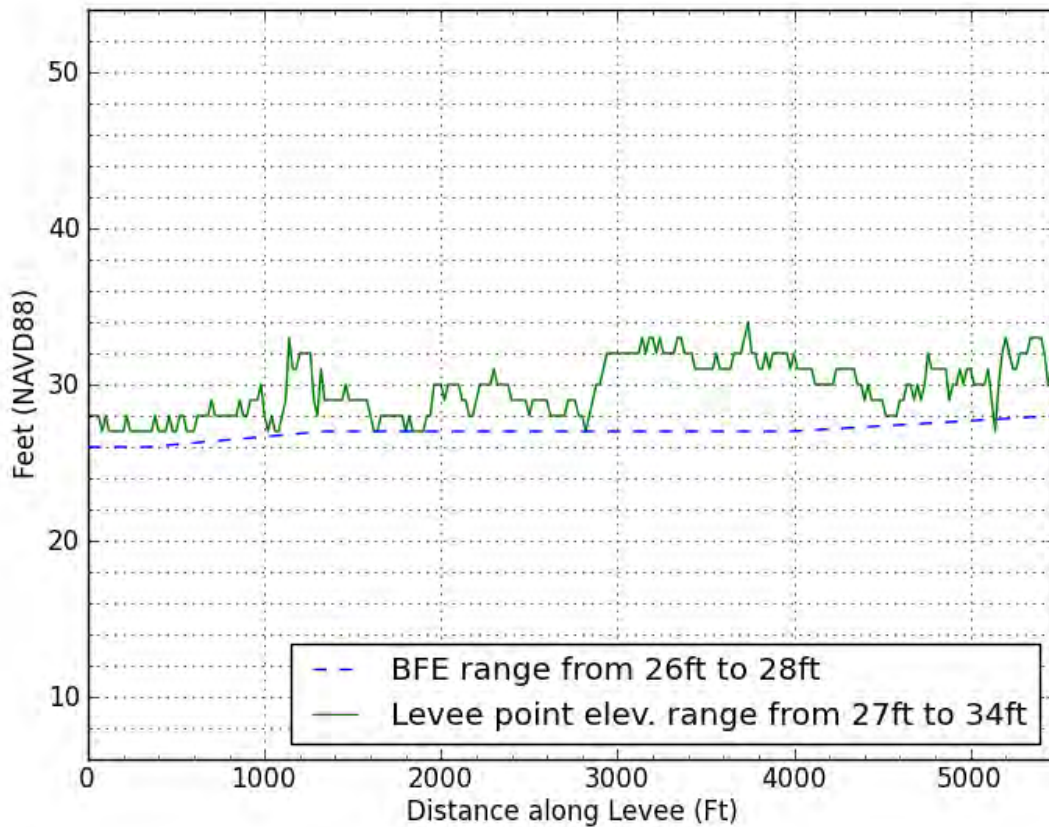
Ground Profile along Levee 5: Sammamish River



Levee 6: Sammamish River – Summary and Profile

This structure is identified as levee in the Washington State Department of Ecology levee database; however the feature is not identified in the National Levee Database and/or Mid-Term Levee Inventory database. It is located along the Right Bank of the Sammamish River and starts at the confluence of the Sammamish River and North Creek and extends upstream to the confluence of the Sammamish River and Little Bear Creek. Upon further discussions with King County it was determined that this structure does not classify as a levee, it does not meet the definition of a levee as spelled out in 44 CFR 59.1.

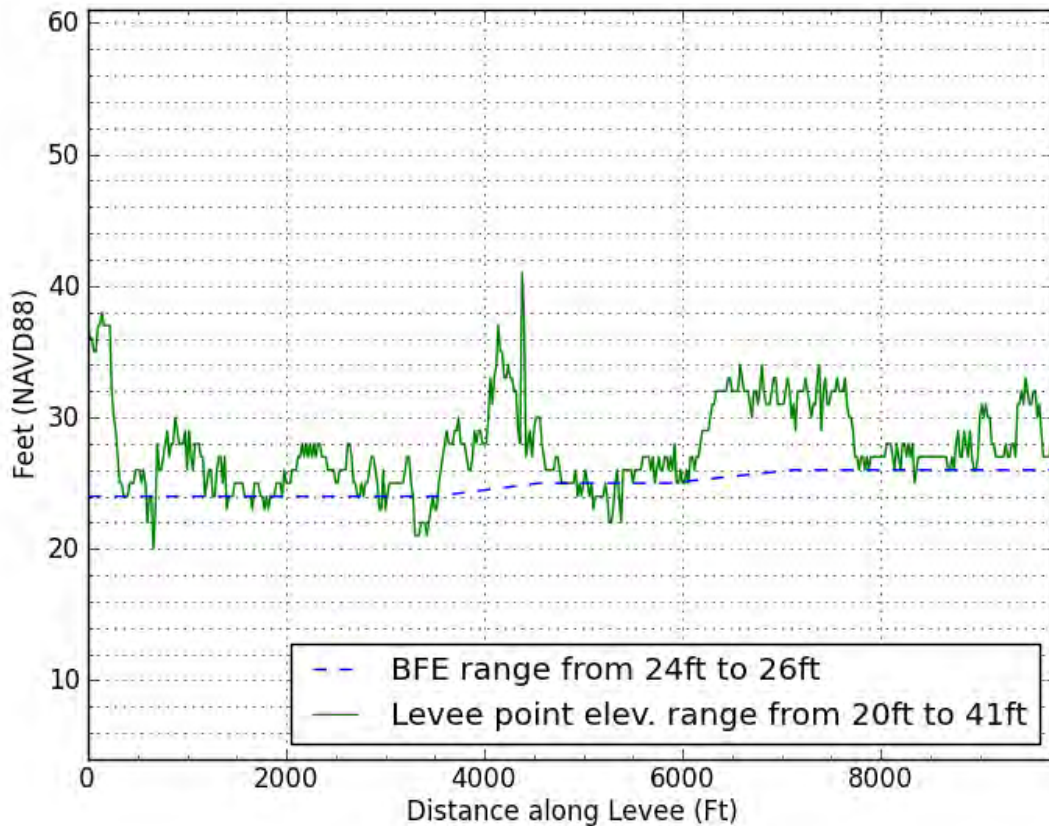
Ground Profile along Levee 6: Sammamish River



Levee 7: Sammamish River – Summary and Profile

This structure is identified as levee in the Washington State Department of Ecology levee database; however the feature is not identified in the National Levee Database and/or Mid-Term Levee Inventory database. It is located along the Right Bank of the Sammamish River and starts at the intersection of the Walking Trail (Abandoned Railroad) and Sammamish River and extends upstream of the confluence of the Sammamish River and North Creek. Upon further discussions with King County it was determined that this structure does not classify as a levee, it does not meet the definition of a levee as spelled out in 44 CFR 59.1.

Ground Profile along Levee 7: Sammamish River



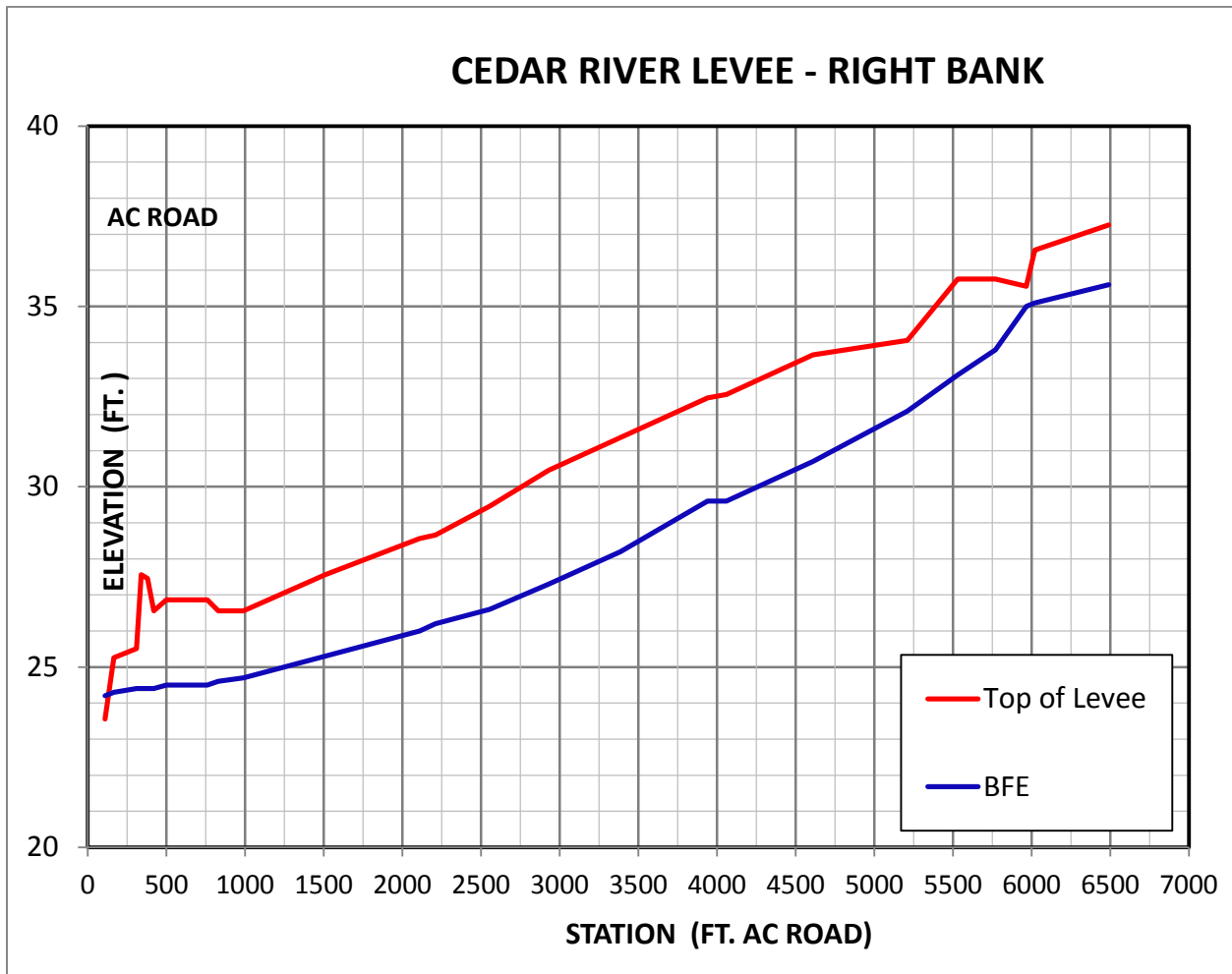
Sammamish River Feature Summary Checklist

Levee Name:	Sammamish River Feature
Protection For:	Sammamish River – Downstream of confluence with North Creek
Levee Owner:	
Levee Status Information	
Mapping Status:	<input checked="" type="checkbox"/> Historic FIRM/FHBM - 1 percent annual chance protection shown. Effective Date:
	<input type="checkbox"/> Historic FIRM/FHBM - 1 percent annual chance NOT protected (Low-level protection)
	Current Zone Designation : Riverward: <input checked="" type="checkbox"/> Zone AE <input type="checkbox"/> Zone A <input checked="" type="checkbox"/> Zone X
	Landward: <input checked="" type="checkbox"/> Zone AE <input type="checkbox"/> Zone A <input checked="" type="checkbox"/> Zone X
	NOTE:
	Current Model Information Available : <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
ACTION: Issue preliminary FIRM's showing the area as special flood hazard area using natural valley.	
Accreditation Status:	<input type="checkbox"/> Inspection On-going / Requires Investigation Results expected:
	<input type="checkbox"/> Certified / Accredited / Meets 65.10 Accreditation date:
	<input checked="" type="checkbox"/> Not Certified / De-Accredited De-Accreditation date:
	Deficiency : <input type="checkbox"/> Design <input type="checkbox"/> Operation <input type="checkbox"/> Interior Drainage <input type="checkbox"/> Maintenance
	<input type="checkbox"/> PAL Expired Expired on: DATE:
	<input type="checkbox"/> No certification received
	<input type="checkbox"/> Low-level protection (not built for 1 percent annual chance protection)
<input type="checkbox"/> Rehabilitation in progress	
PAL Information:	<input type="checkbox"/> USACE Built <input type="checkbox"/> USACE Owned/Operated <input type="checkbox"/> USACE Maintenance
	<input type="checkbox"/> Locally Built <input type="checkbox"/> Locally Owned/Operated <input type="checkbox"/> Local Maintenance
	<input type="checkbox"/> Private Ownership
	<input type="checkbox"/> PAL Eligible - Yes Scenario <input type="checkbox"/> A1 <input type="checkbox"/> A2 <input type="checkbox"/> B <input type="checkbox"/> C2
	<input type="checkbox"/> PAL Eligible - No Scenario <input type="checkbox"/> C1 <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> PAL previously expired
	<input type="checkbox"/> PAL Offered + 90 days:
	<input type="checkbox"/> PAL Signed – Expiration:
	<input type="checkbox"/> PAL 12-month progress report - not received
	<input type="checkbox"/> Yes Date: <input type="checkbox"/> No Request Letter Date:
	<input type="checkbox"/> PAL 90-day letter: DATE
<input type="checkbox"/> PAL 30-day letter: DATE	
Project Type Identification:	<input type="checkbox"/> Newly Identified/Project Required
	<input type="checkbox"/> On-going Project
	<input type="checkbox"/> Recently Certified Levee System
Additional Notes:	Levee Feature not included in NLD or MLI database but is included in Washington state database.

Levee 8: Cedar River – Summary and Profile

This levee is located along the right side of the Cedar River. This levee starts just upstream of the confluence of the Cedar River and Lake Washington and extends upstream for approximately 7,000 feet. The profiles listed below show levee elevations above the BFE along this levee. These elevations above the BFEs would impact the peak water surface of the 1-percent-annual-chance flood landward of the structure, making it **hydraulically significant**. This levee was certified by USACE but that certification has expired. FEMA will be offering City of Renton an opportunity for this levee to **enter into a Provisionally Accredited Levee (PAL)** agreement. There will be a 2 year deadline to submit necessary documentation to get this levee re-certified.

Levee elevation based on as-built data



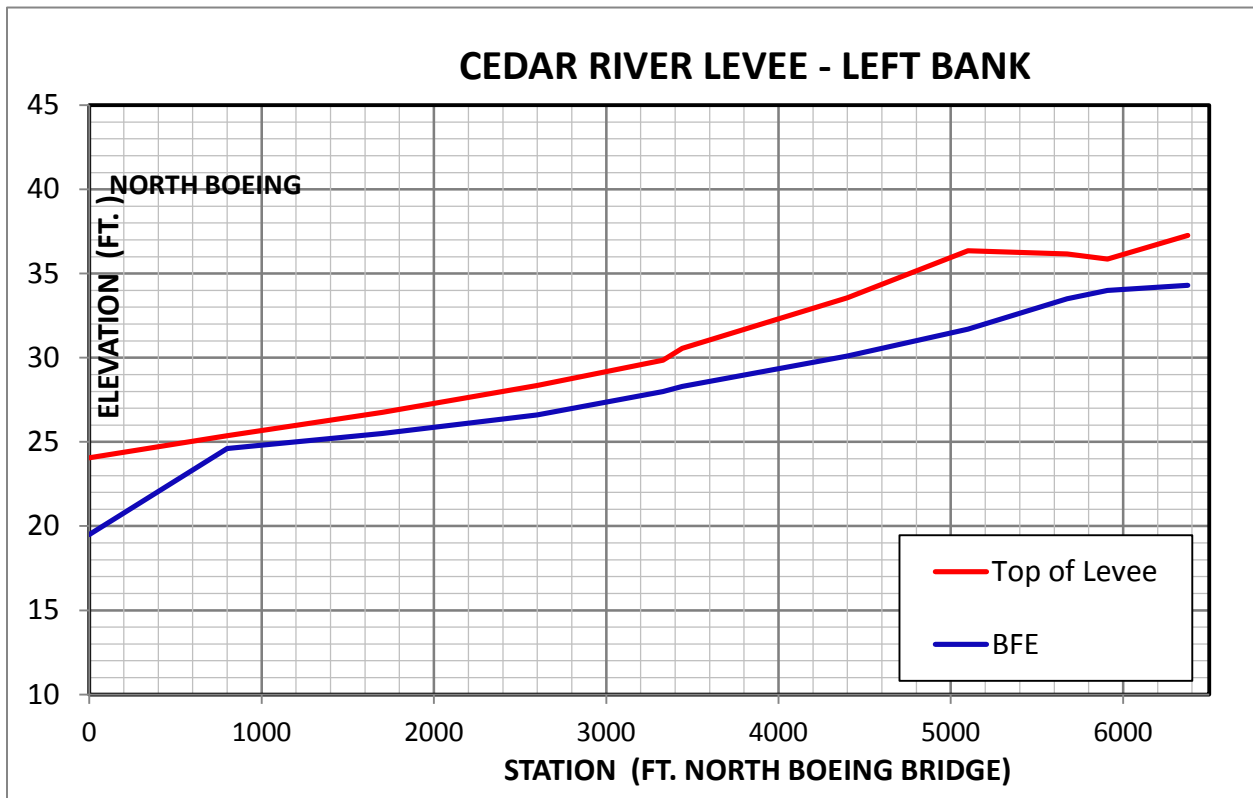
Cedar River Levee Summary Checklist

Levee Name:	Cedar River Levee
Protection For:	Cedar River Right Bank – City of Renton, King County, WA
Levee Owner:	
Levee Status Information	
Mapping Status:	<input type="checkbox"/> Historic FIRM/FHBM - 1 percent annual chance protection shown. Effective Date:
	<input checked="" type="checkbox"/> Historic FIRM/FHBM - 1 percent annual chance NOT protected (Low-level protection)
	Current Zone Riverward: <input checked="" type="checkbox"/> Zone AE <input type="checkbox"/> Zone A <input checked="" type="checkbox"/> Zone X
	Designation : Landward: <input checked="" type="checkbox"/> Zone AE <input type="checkbox"/> Zone A <input checked="" type="checkbox"/> Zone X
	NOTE:
	Current Model Information Available : <input type="checkbox"/> Yes <input type="checkbox"/> No
ACTION: Issue preliminary FIRM's showing the area protected by applying the seclusion method.	
Accreditation Status:	<input type="checkbox"/> Inspection On-going / Requires Investigation Results expected:
	<input type="checkbox"/> Certified / Accredited / Meets 65.10 Accreditation date:
	<input checked="" type="checkbox"/> Not Certified / De-Accredited De-Accreditation date:
	Deficiency : <input type="checkbox"/> Design <input type="checkbox"/> Operation <input type="checkbox"/> Interior Drainage <input type="checkbox"/> Maintenance
	<input type="checkbox"/> PAL Expired Expired on: DATE:
	<input type="checkbox"/> No certification received
	<input type="checkbox"/> Low-level protection (not built for 1 percent annual chance protection)
<input type="checkbox"/> Rehabilitation in progress	
PAL Information:	<input type="checkbox"/> USACE Built <input type="checkbox"/> USACE Owned/Operated <input type="checkbox"/> USACE Maintenance
	<input type="checkbox"/> Locally Built <input type="checkbox"/> Locally Owned/Operated <input type="checkbox"/> Local Maintenance
	<input type="checkbox"/> Private Ownership
	<input type="checkbox"/> PAL Eligible - Yes Scenario <input type="checkbox"/> A1 <input type="checkbox"/> A2 <input type="checkbox"/> B <input type="checkbox"/> C2
	<input type="checkbox"/> PAL Eligible - No Scenario <input type="checkbox"/> C1 <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> PAL previously expired
	<input type="checkbox"/> PAL Offered + 90 days:
	<input type="checkbox"/> PAL Signed – Expiration:
	<input type="checkbox"/> PAL 12-month progress report - not received
	<input type="checkbox"/> Yes Date: <input type="checkbox"/> No Request Letter Date:
	<input type="checkbox"/> PAL 90-day letter: DATE
<input type="checkbox"/> PAL 30-day letter: DATE	
Project Type Identification:	<input type="checkbox"/> Newly Identified/Project Required
	<input type="checkbox"/> On-going Project
	<input type="checkbox"/> Recently Certified Levee System
Additional Notes:	

Levee 9: Cedar River – Summary and Profile

This levee is located along the left side of the Cedar River. This levee starts just upstream of the confluence of the Cedar River and Lake Washington and extends upstream for approximately 7,000 feet. The profiles listed below show levee elevations above the BFE along this levee. These elevations above the BFEs would impact the peak water surface of the 1-percent-annual-chance flood landward of the structure, making it **hydraulically significant**. This levee was certified by USACE but that certification has expired. FEMA will be offering City of Renton an opportunity for this levee to **enter into a Provisionally Accredited Levee (PAL)** agreement. The “pending” PAL eligible area will remain secluded until the re-certification of the levee is granted.

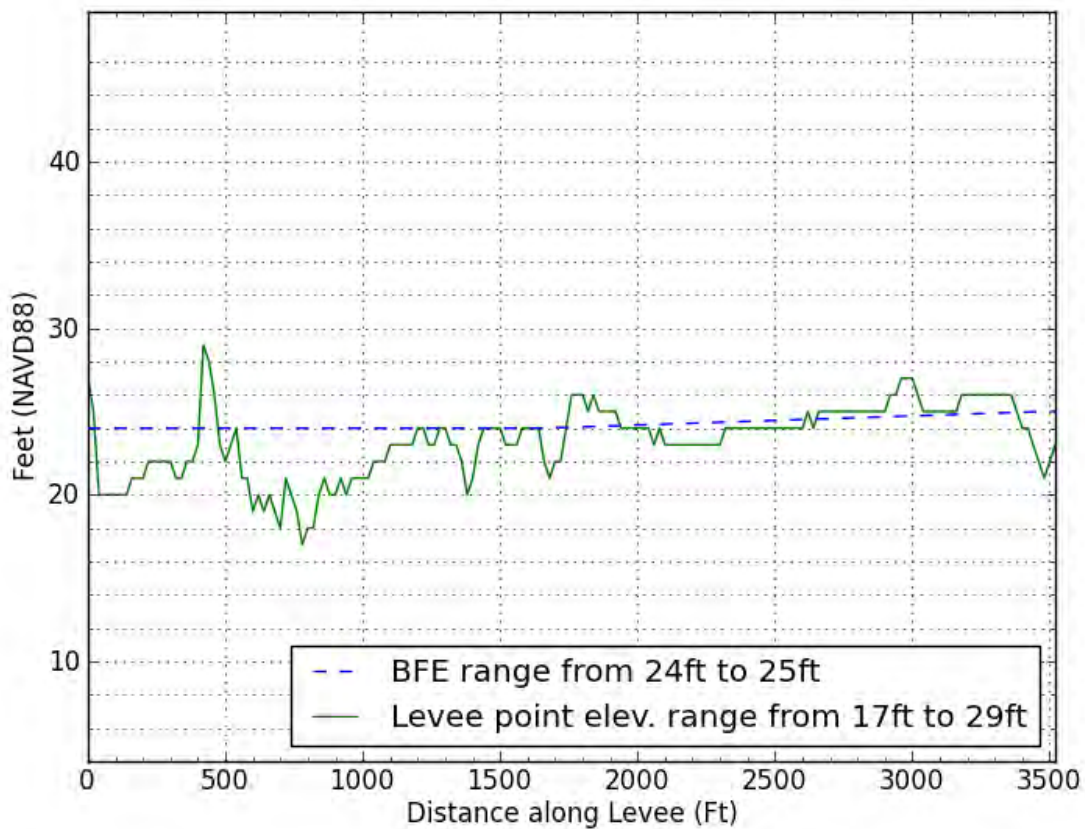
Levee elevation based on as-built data



Levee 10: Green River - Summary and Profile

This levee is located along the Right Bank of the Green River. This levee starts just approximately 50 feet downstream of the intersection of Starfire Way and the Green River and extends upstream for approximately 3,500 feet. The area landward of this levee is eligible for seclusion. The below profile shows levee elevations above the BFE along this levee. These elevations above the BFEs would impact the peak water surface of the 1-percent-annual-chance flood landward of the structure, making it **hydraulically significant**.

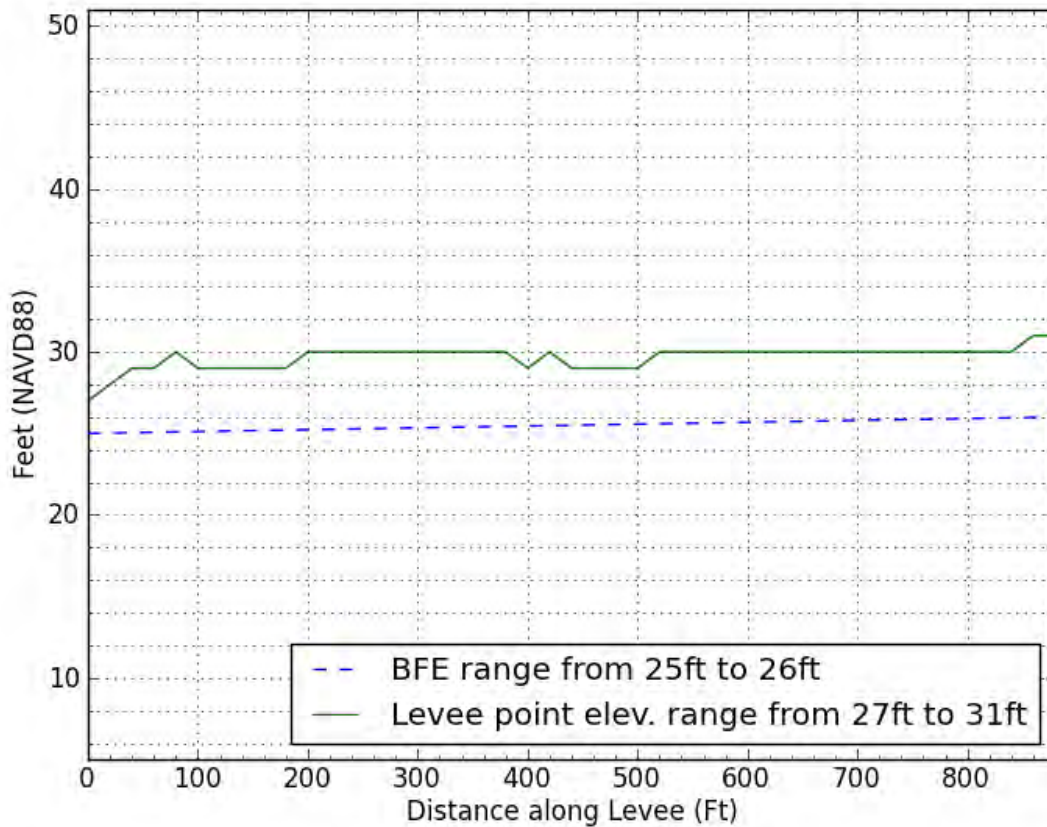
Ground Profile along Levee 10: Green River Right Bank A



Levee 11: Green River - Summary and Profile

This levee is located along the Right Bank of the Green River. This levee starts just approximately 1,100 feet downstream of the intersection of Starfire Way and the Green River and extends upstream for approximately 900 feet. The area landward of this levee is eligible for seclusion. There is no change between the BFEs landward and on the river side of the levee on the preliminary mapping. The below profile shows levee elevations above the BFE along this levee. These elevations above the BFEs would impact the peak water surface of the 1-percent-annual-chance flood landward of the structure, making it **hydraulically significant**.

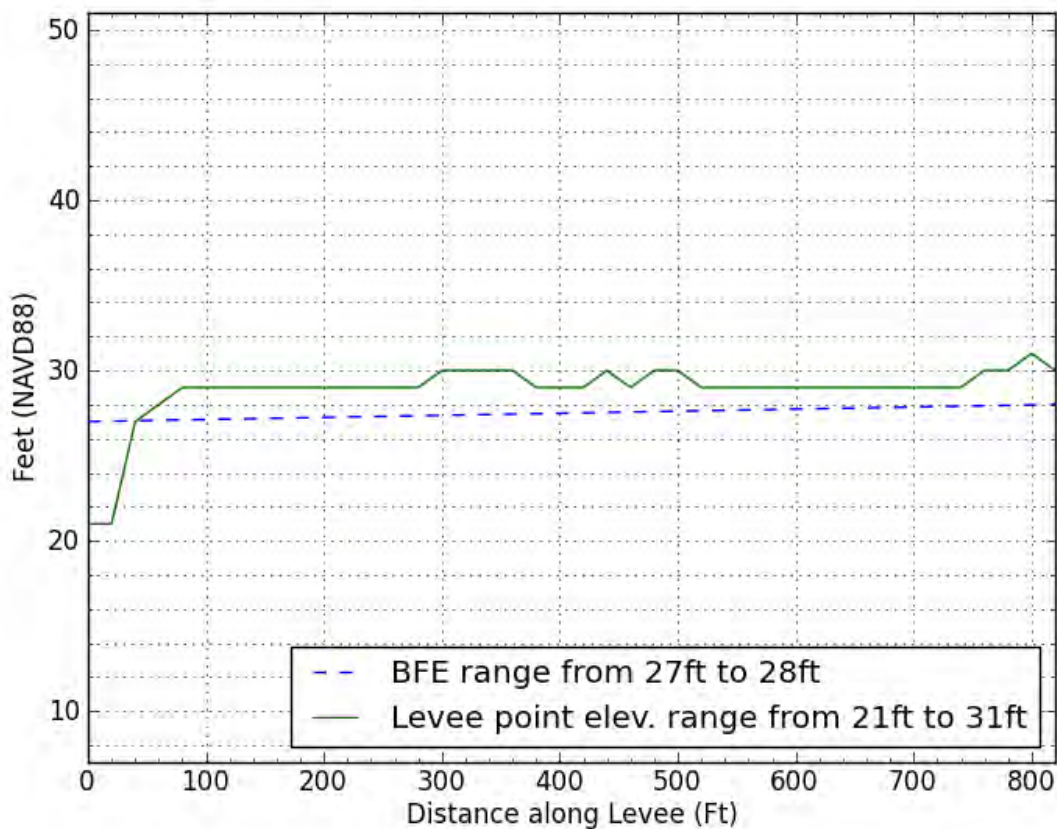
Ground Profile along Levee 11: Green River Right Bank B



Levee 12: Green River - Summary and Profile

This levee is located along the Right Bank of the Green River. This levee starts approximately 830 feet upstream of the intersection of the Green River and Interstate 405 and extends downstream for to the intersection of the Green River and Interstate 405. The area landward of this levee is eligible for seclusion. There is no change between the BFEs landward and on the river side of the levee on the preliminary mapping. The below profile shows levee elevations above the BFE along this levee. These elevations above the BFEs would impact the peak water surface of the 1-percent-annual-chance flood landward of the structure, making it **hydraulically significant**.

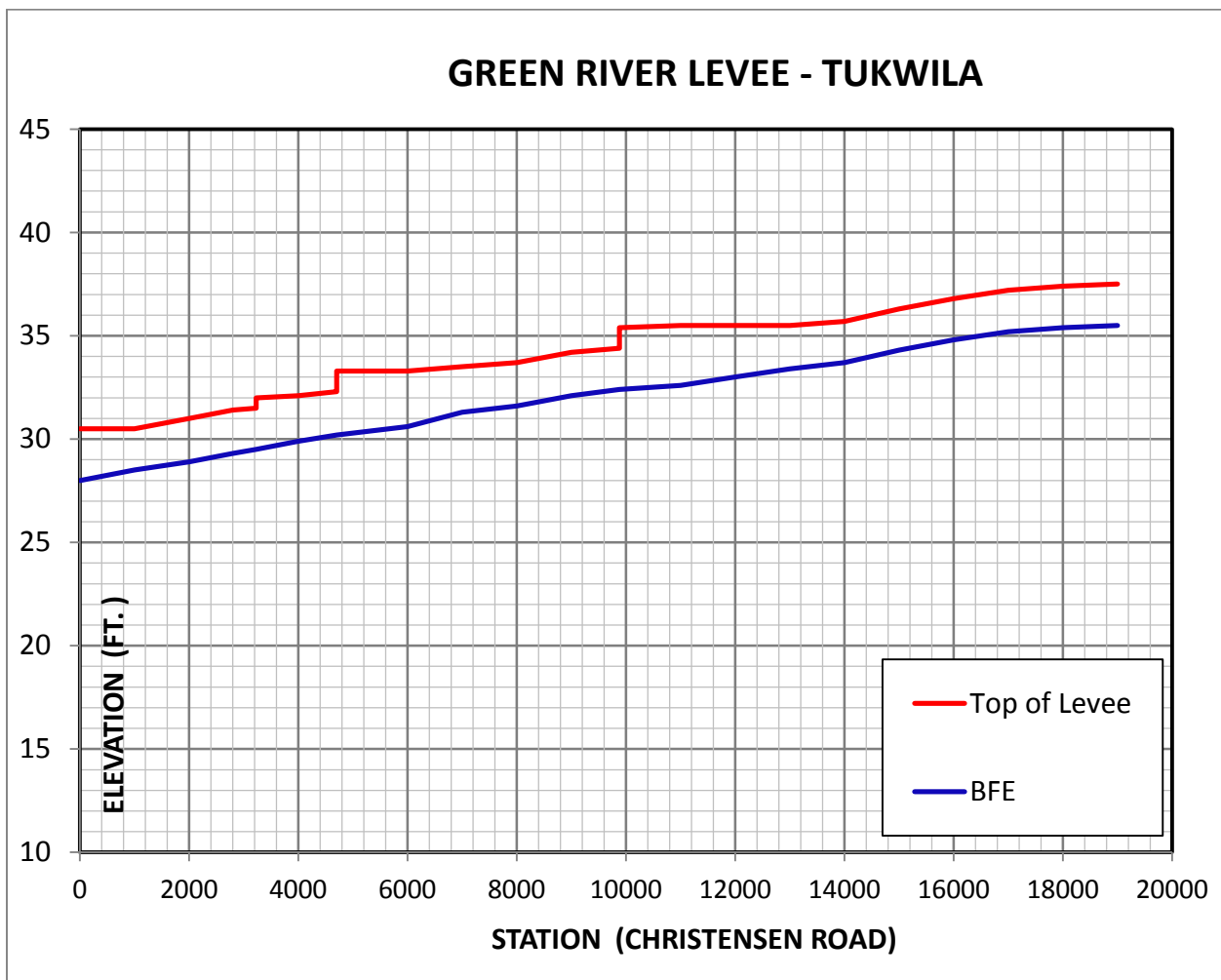
Ground Profile along Levee 12: Green River Right Bank C



Levee 13: Tukwila - Summary and Profile

This levee is located along the Left Bank of the Green River. This levee starts approximately 1,400 feet north of the intersection of Southcenter Parkway and S. 200th Street and extends downstream to the intersection of Green River and Interstate 405. The effective mapping and preliminary mapping do not show flooding behind the levee. The profiles listed below show levee elevations above the BFE along this levee. These levee elevations above the BFEs would impact the peak water surface of the 1-percent-annual-chance flood landward of the structure, making it **hydraulically significant**. This levee was certified by USACE but that certification has expired. FEMA will be offering City of Tukwila an opportunity for this levee to **enter into a Provisionally Accredited Levee (PAL)** agreement. There will be a 2 year deadline to submit necessary documentation to get this levee re-certified.

Levee elevations based on as-built data



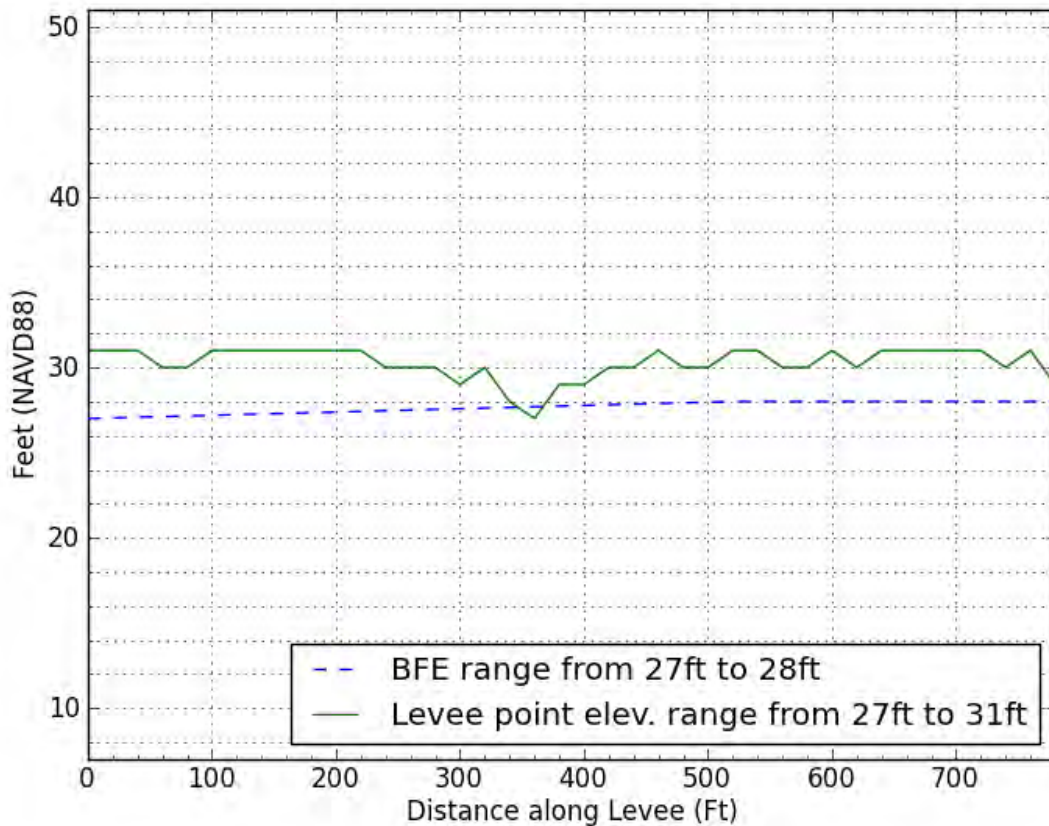
Tukwila Levee Summary Checklist

Levee Name:	Tukwila Levee
Protection For:	Tukwila (Green River Left Bank A) – City of Tukwila, King County, WA
Levee Owner:	
Levee Status Information	
Mapping Status:	<input checked="" type="checkbox"/> Historic FIRM/FHBM - 1 percent annual chance protection shown. Effective Date: May 16, 1995
	<input type="checkbox"/> Historic FIRM/FHBM - 1 percent annual chance NOT protected (Low-level protection)
	Current Zone Riverward: <input checked="" type="checkbox"/> Zone AE <input type="checkbox"/> Zone A <input type="checkbox"/> Zone X
	Designation : Landward: <input checked="" type="checkbox"/> Zone AE <input type="checkbox"/> Zone A <input checked="" type="checkbox"/> Zone X
	NOTE:
	Current Model Information Available : <input type="checkbox"/> Yes <input type="checkbox"/> No
ACTION: Issue preliminary FIRM's showing the area protected by applying the seclusion method.	
Accreditation Status:	<input type="checkbox"/> Inspection On-going / Requires Investigation Results expected:
	<input type="checkbox"/> Certified / Accredited / Meets 65.10 Accreditation date:
	<input checked="" type="checkbox"/> Not Certified / De-Accredited De-Accreditation date:
	Deficiency : <input type="checkbox"/> Design <input type="checkbox"/> Operation <input type="checkbox"/> Interior Drainage <input type="checkbox"/> Maintenance
	<input type="checkbox"/> PAL Expired Expired on: DATE:
	<input type="checkbox"/> No certification received
	<input type="checkbox"/> Low-level protection (not built for 1 percent annual chance protection)
<input type="checkbox"/> Rehabilitation in progress	
PAL Information:	<input type="checkbox"/> USACE Built <input type="checkbox"/> USACE Owned/Operated <input type="checkbox"/> USACE Maintenance
	<input type="checkbox"/> Locally Built <input type="checkbox"/> Locally Owned/Operated <input type="checkbox"/> Local Maintenance
	<input type="checkbox"/> Private Ownership
	<input type="checkbox"/> PAL Eligible - Yes Scenario <input type="checkbox"/> A1 <input type="checkbox"/> A2 <input type="checkbox"/> B <input type="checkbox"/> C2
	<input type="checkbox"/> PAL Eligible - No Scenario <input type="checkbox"/> C1 <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> PAL previously expired
	<input type="checkbox"/> PAL Offered + 90 days:
	<input type="checkbox"/> PAL Signed – Expiration:
	<input type="checkbox"/> PAL 12-month progress report - not received
	<input type="checkbox"/> Yes Date: <input type="checkbox"/> No Request Letter Date:
	<input type="checkbox"/> PAL 90-day letter: DATE
<input type="checkbox"/> PAL 30-day letter: DATE	
Project Type Identification:	<input type="checkbox"/> Newly Identified/Project Required
	<input type="checkbox"/> On-going Project
	<input type="checkbox"/> Recently Certified Levee System
Additional Notes:	Historic FIRMS were not able to be obtained. Protection may have been shown on these maps but it was not able to be confirmed.

Levee 14: Green River - Summary and Profile

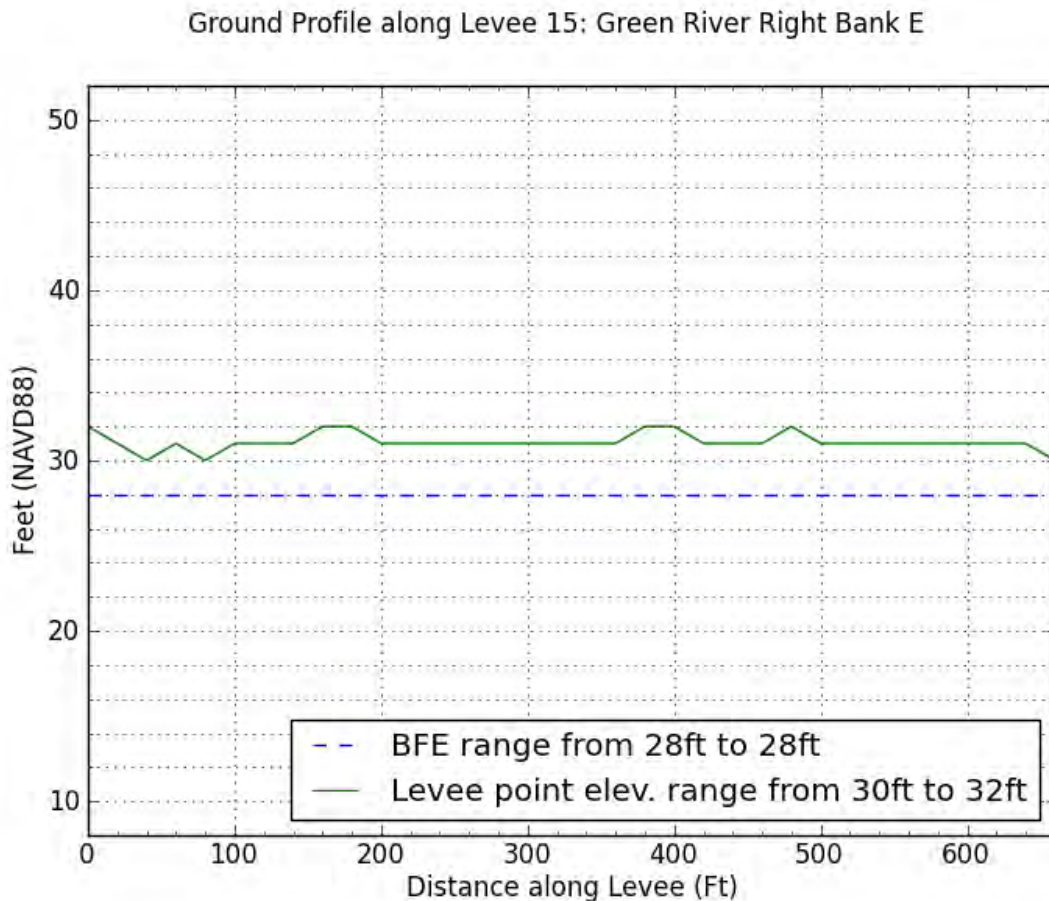
This levee is located along the Right Bank of the Green River. This levee starts approximately 100 feet downstream of the intersection of the Green River and Strander Boulevard and extends downstream for approximately 800 feet. The area landward of this levee is eligible for seclusion. The BFEs landward of the levee differ from the BFEs on the river side of the levee on the preliminary mapping. The below profile shows levee elevations above the BFE along this levee. These elevations above the BFEs would impact the peak water surface of the 1-percent-annual-chance flood landward of the structure, making it **hydraulically significant**.

Ground Profile along Levee 14: Green River Right Bank D



Levee 15: Green River - Summary and Profile

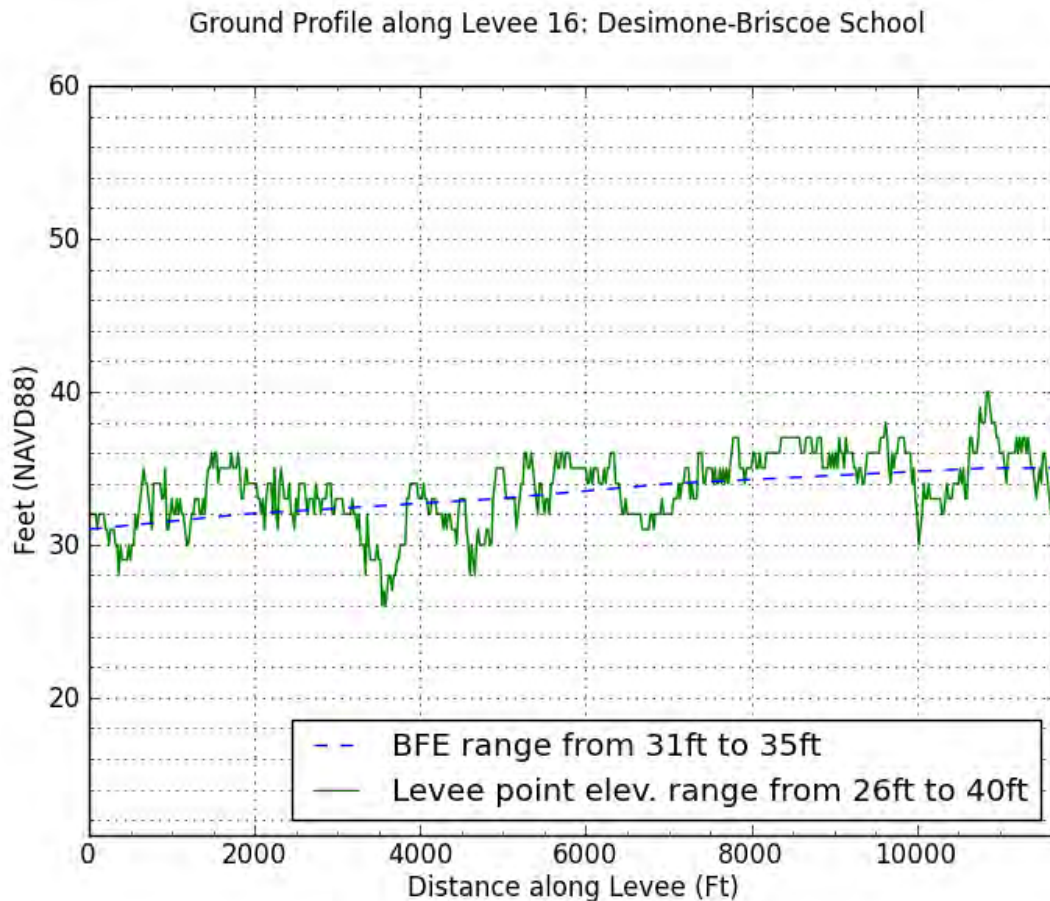
This levee is located along the Right Bank of the Green River. This levee starts just downstream of the intersections of the railroad and Green River and extends downstream for approximately 700 feet. The area landward of this levee is eligible for seclusion. The BFEs landward of the levee differ from the BFEs on the river side of the levee on the preliminary mapping. The below profile shows levee elevations above the BFE along this levee. These elevations above the BFEs would impact the peak water surface of the 1-percent-annual-chance flood landward of the structure, making it **hydraulically significant**.



Levee 16: Desimone-Briscoe School - Summary and Profile

This levee is located along the Right Bank of the Green River. This levee starts just downstream of the intersection of Green River and South 200th Street and extends downstream for approximately 12,900 feet. The area landward of this levee is eligible for seclusion. The BFEs landward of the levee differ from the BFEs on the river side of the levee on the preliminary mapping. The below profile shows levee elevations above the BFE along this levee. These elevations above the BFEs would impact the peak water surface of the 1-percent-annual-chance flood landward of the structure, making it **hydraulically significant**.

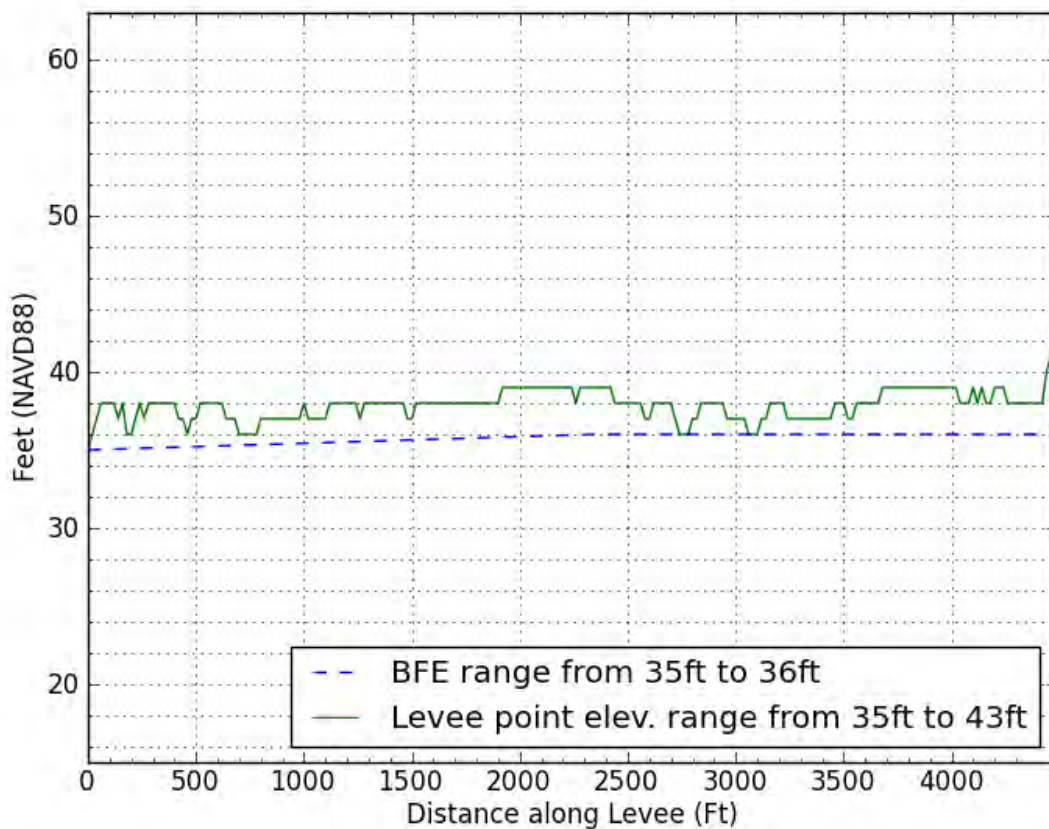
Upon discussions with King County, the secluded area behind the levee is extended north up to the confluence of Springbrook Creek and Green River (see Map 2), encompassing the floodplains of Springbrook Creek for about 5 miles upstream of the confluence to where the Horseshow Bend LOMR ends.



Levee 17: Boeing Levee- Summary and Profile

This levee is located along the Right Bank of the Green River. This levee starts just downstream of the intersection of Green River and South 212th Street and extends downstream to just upstream of the intersection of Green River and South 200th Street. The area landward of this levee is eligible for seclusion. The BFEs landward of the levee differ from the BFEs on the river side of the levee on the preliminary mapping. The below profile shows levee elevations above the BFE along this levee. These elevations above the BFEs would impact the peak water surface of the 1-percent-annual-chance flood landward of the structure, making it **hydraulically significant**.

Ground Profile along Levee 17: Boeing



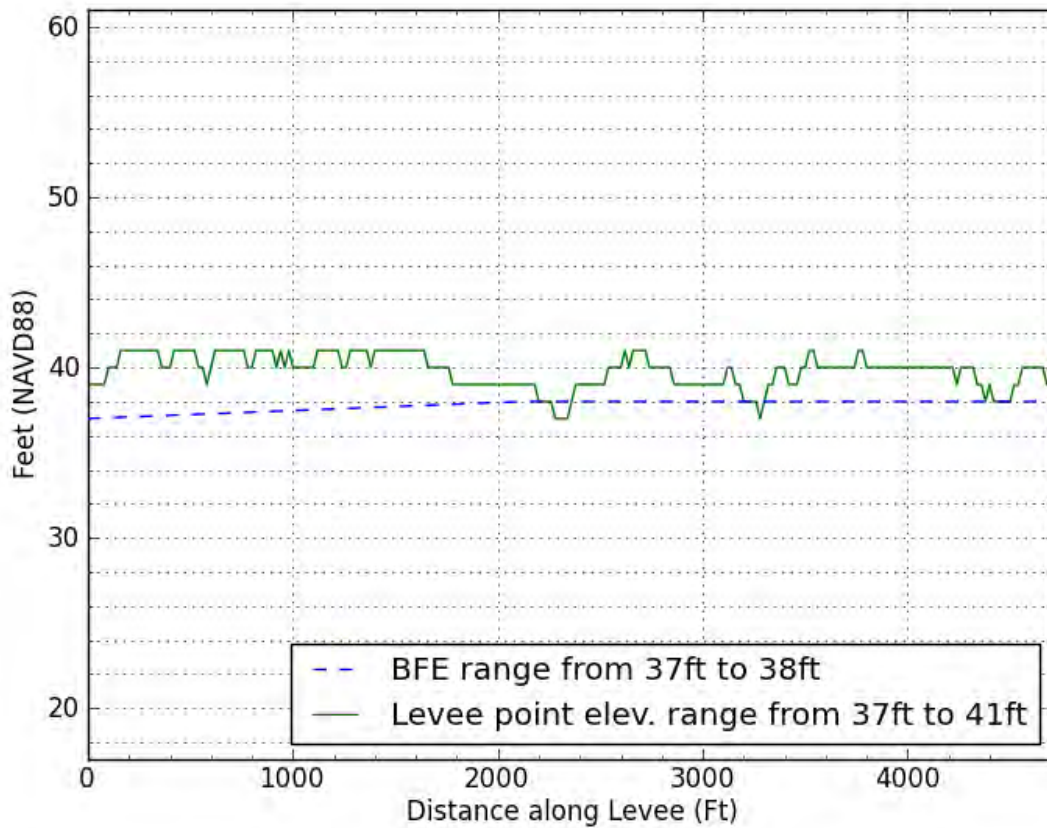
Green River Levees Summary Checklist

Levee Name:	Desimone- Briscoe School and Boeing Levee		
Protection For:	Green River Right Bank– King County, WA		
Levee Owner:			
Levee Status Information			
Mapping Status:	<input checked="" type="checkbox"/> Historic FIRM/FHBM - 1 percent annual chance protection shown. Effective Date: May 16, 1995		
	<input type="checkbox"/> Historic FIRM/FHBM - 1 percent annual chance NOT protected (Low-level protection)		
	Current Zone Designation :	Riverward:	<input checked="" type="checkbox"/> Zone AE <input type="checkbox"/> Zone A <input checked="" type="checkbox"/> Zone X
		Landward:	<input checked="" type="checkbox"/> Zone AE <input type="checkbox"/> Zone A <input checked="" type="checkbox"/> Zone X
	NOTE:		
	Current Model Information Available : <input type="checkbox"/> Yes <input type="checkbox"/> No		
ACTION: Issue preliminary FIRM's showing the area protected by applying the seclusion method.			
Accreditation Status:	<input type="checkbox"/> Inspection On-going / Requires Investigation		Results expected:
	<input type="checkbox"/> Certified / Accredited / Meets 65.10		Accreditation date:
	<input checked="" type="checkbox"/> Not Certified / De-Accredited		De-Accreditation date:
	Deficiency : <input type="checkbox"/> Design <input type="checkbox"/> Operation <input type="checkbox"/> Interior Drainage <input type="checkbox"/> Maintenance		
	<input type="checkbox"/> PAL Expired		Expired on: DATE:
	<input type="checkbox"/> No certification received		
	<input type="checkbox"/> Low-level protection (not built for 1 percent annual chance protection)		
	<input type="checkbox"/> Rehabilitation in progress		
PAL Information:	<input type="checkbox"/> USACE Built <input type="checkbox"/> USACE Owned/Operated <input type="checkbox"/> USACE Maintenance		
	<input type="checkbox"/> Locally Built <input type="checkbox"/> Locally Owned/Operated <input type="checkbox"/> Local Maintenance		
	<input type="checkbox"/> Private Ownership		
	<input type="checkbox"/> PAL Eligible - Yes Scenario <input type="checkbox"/> A1 <input type="checkbox"/> A2 <input type="checkbox"/> B <input type="checkbox"/> C2		
	<input type="checkbox"/> PAL Eligible - No Scenario <input type="checkbox"/> C1 <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> PAL previously expired		
	<input type="checkbox"/> PAL Offered		+ 90 days:
	<input type="checkbox"/> PAL Signed –		Expiration:
	<input type="checkbox"/> PAL 12-month progress report - not received		
	<input type="checkbox"/> Yes Date:		<input type="checkbox"/> No Request Letter Date:
	<input type="checkbox"/> PAL 90-day letter: DATE		
	<input type="checkbox"/> PAL 30-day letter: DATE		
Project Type Identification:	<input type="checkbox"/> Newly Identified/Project Required		
	<input type="checkbox"/> On-going Project		
	<input type="checkbox"/> Recently Certified Levee System		
Additional Notes:			

Levee 18: Lower Russell - Summary and Profile

This levee is located along the Right Bank of the Green River. This levee starts approximately 200 feet downstream of the intersection of Veterans Drive and Green River and extends downstream for approximately 4,700 feet. The area landward of this levee is eligible for seclusion. The BFEs landward of the levee differ from the BFEs on the river side of the levee on the preliminary mapping. The below profile shows levee elevations above the BFE along this levee. These elevations above the BFEs would impact the peak water surface of the 1-percent-annual-chance flood landward of the structure, making it **hydraulically significant**.

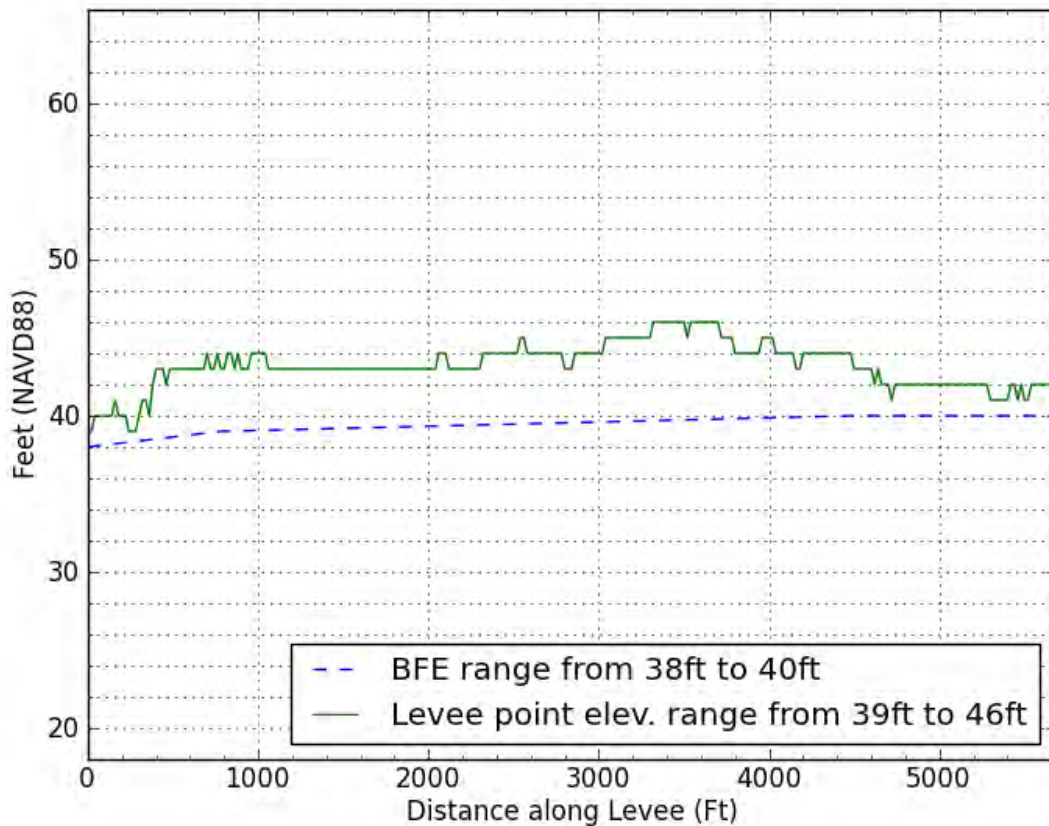
Ground Profile along Levee 18: Lower Russell - Holiday Kennel



Levee 19: Upper Russell - Summary and Profile

This levee is located along the Right Bank of the Green River. This levee starts just downstream of the intersection of South 240th Street and the Green River Trail and extends downstream to approximately 200 feet downstream of the intersection of Veterans Drive and Green River. The area landward of this levee is eligible for seclusion. The BFEs landward of the levee differ from the BFEs on the river side of the levee on the preliminary mapping. The below profile shows levee elevations above the BFE along this levee. These elevations above the BFEs would impact the peak water surface of the 1-percent-annual-chance flood landward of the structure, making it **hydraulically significant**.

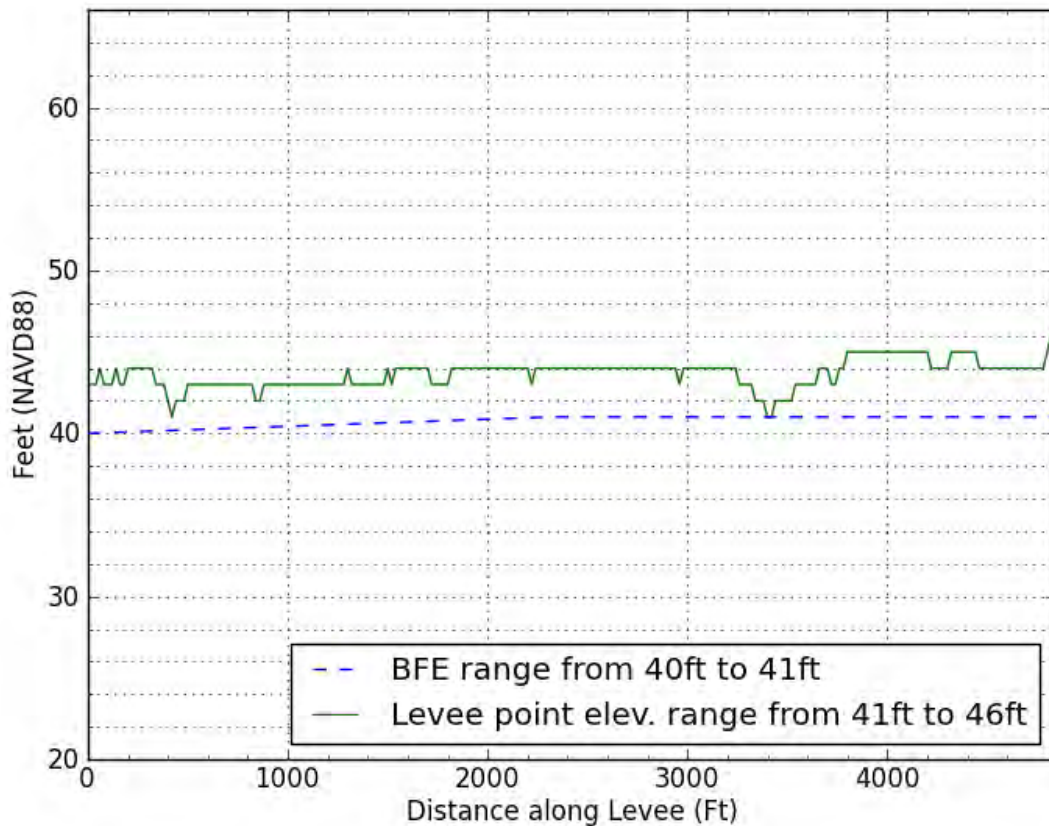
Ground Profile along Levee 19: Upper Russell - Somes - Dolan



Levee 20: Kent Shops - Narita - Summary and Profile

This levee is located along the Right Bank of the Green River. This levee starts approximately 100 feet downstream of the intersection of West Meeker Street and Green River and extends downstream to the intersection of South 240th Street and the Green River Trail. The area landward of this levee is eligible for seclusion. The BFEs landward of the levee differ from the BFEs on the river side of the levee on the preliminary mapping. The below profile shows levee elevations above the BFE along this levee. These elevations above the BFEs would impact the peak water surface of the 1-percent-annual-chance flood landward of the structure, making it **hydraulically significant**.

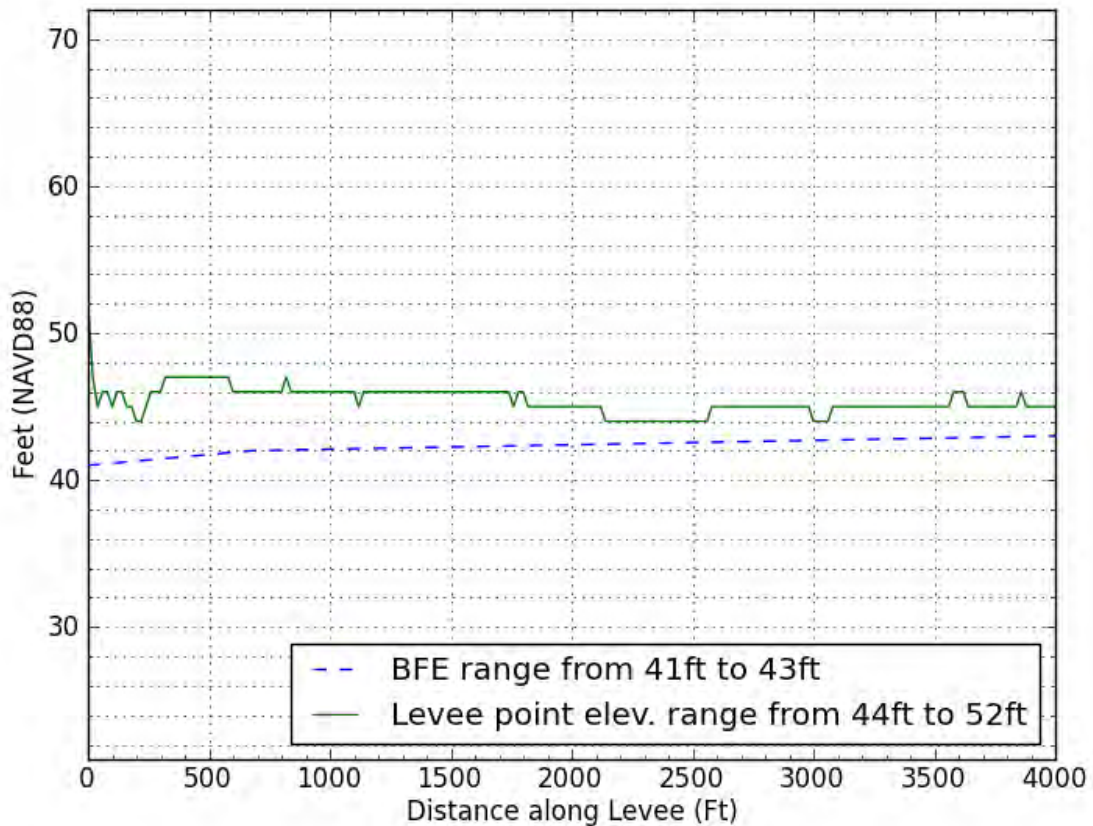
Ground Profile along Levee 20: Kent Shops - Narita



Levee 21: Meyers Golf - Summary and Profile

This levee is located along the Right Bank of the Green River. This levee starts just downstream of the intersection of South Kent Des Moines Road and Green River and extends to just upstream of the intersection of West Meeker Street and Green River. The area landward of this levee is eligible for seclusion. The BFEs landward of the levee differ from the BFEs on the river side of the levee on the preliminary mapping. The below profile shows levee elevations above the BFE along this levee. These elevations above the BFEs would impact the peak water surface of the 1-percent-annual-chance flood landward of the structure, making it **hydraulically significant**.

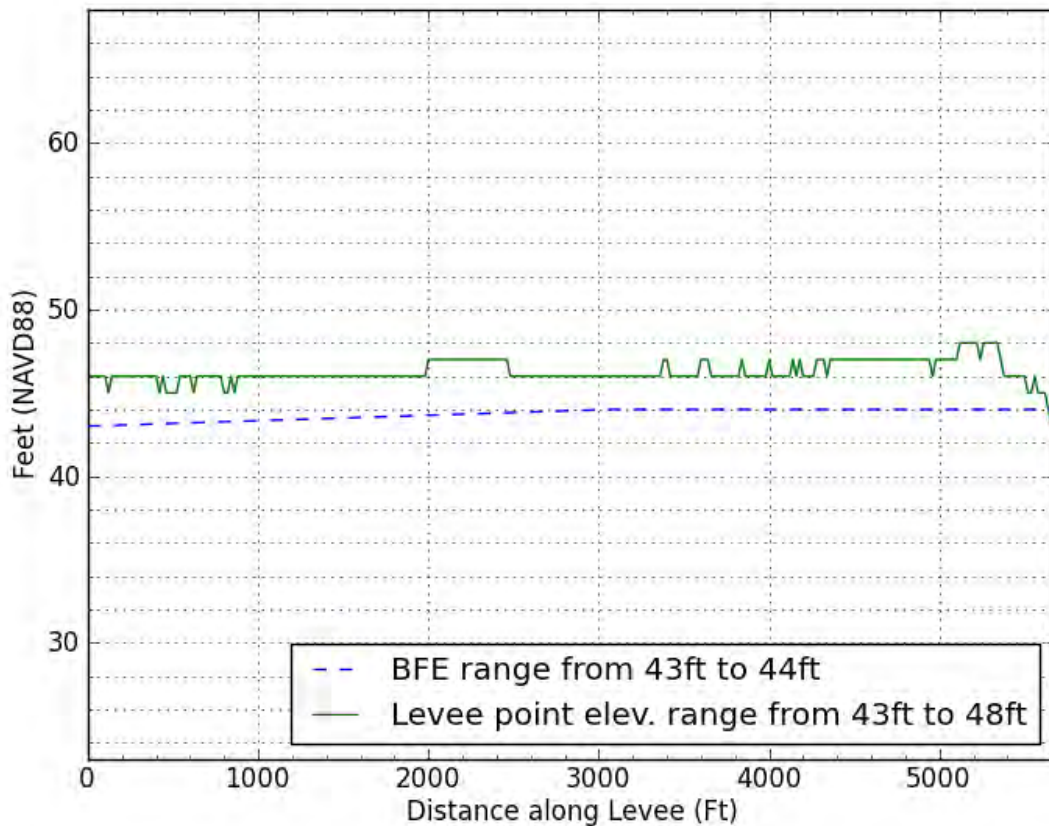
Ground Profile along Levee 21: Meyers Golf



Levee 22: Providence Point - Summary and Profile

This levee is located along the Right Bank of the Green River. This levee starts at the intersection of 68th Avenue south and Green River and extends to just upstream of the intersection of South Kent Des Moines Road and Green River. The area landward of this levee is eligible for seclusion. The BFEs landward of the levee differ from the BFEs on the river side of the levee on the preliminary mapping. The below profile shows levee elevations above the BFE along this levee. These elevations above the BFEs would impact the peak water surface of the 1-percent-annual-chance flood landward of the structure, making it **hydraulically significant**.

Ground Profile along Levee 22: Providence Point

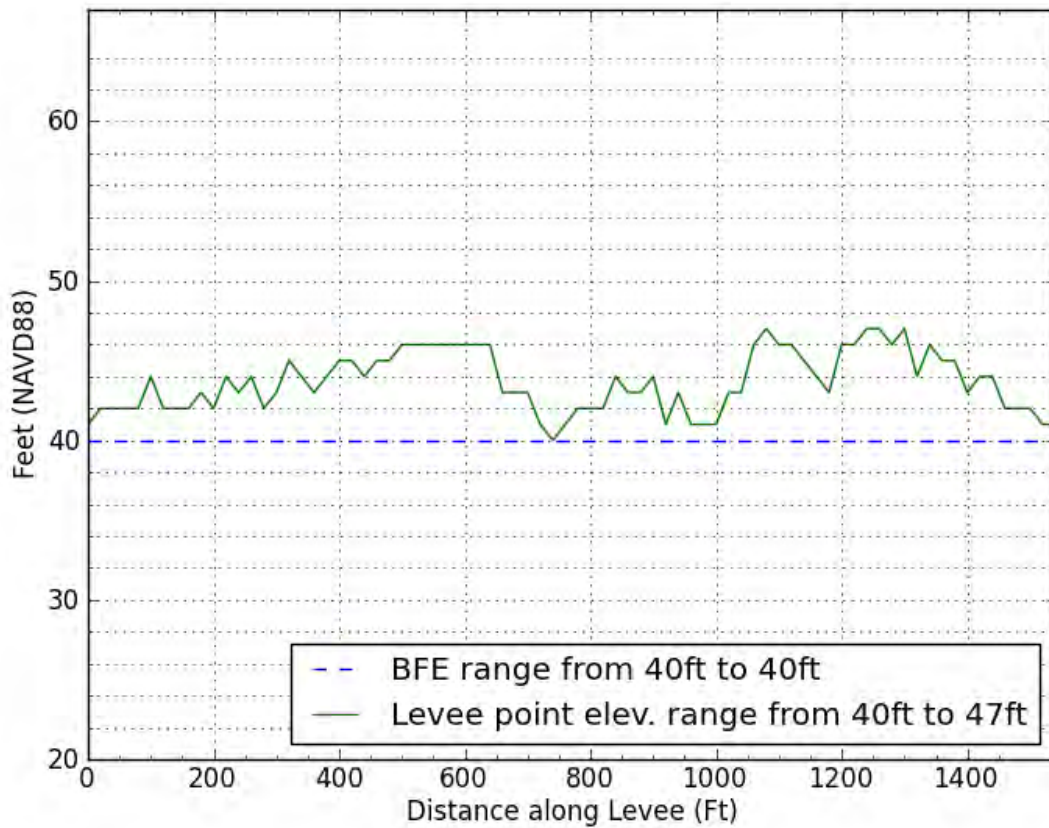


Levee 23: Kent Levee - Summary and Profile

This levee is located along the Left Bank of the Green River. This levee starts approximately 1,200 feet downstream of the intersection of Frager Road South and Unnamed Private Road and extends downstream for approximately 1,500 feet. The below profile shows levee elevations above the BFE along this levee. These elevations above the BFEs would impact the peak water surface of the 1-percent-annual-chance flood landward of the structure, making it **hydraulically significant**.

The flooding shown landward of this levee, on the preliminary mapping, is attributed to backwater from downstream of the levee. Therefore no seclusion box is drawn in the area landward of this levee.

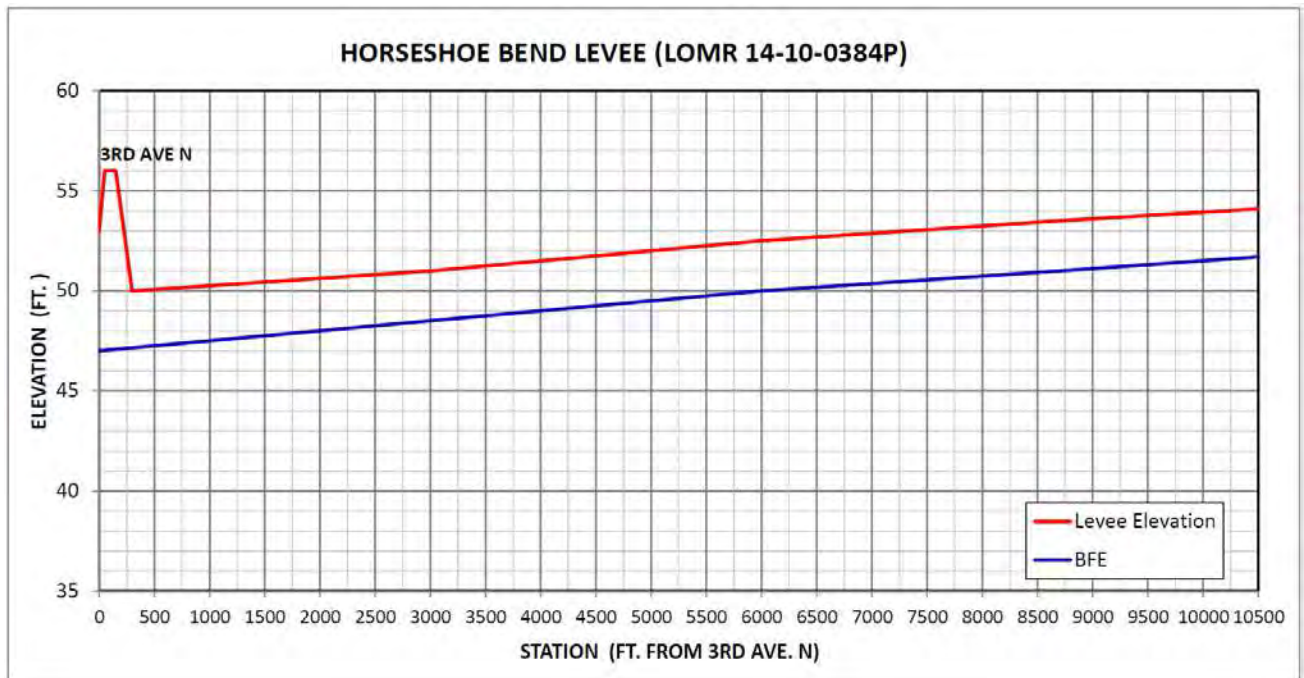
Ground Profile along Levee 23: Kent



Levee 24: Horseshoe Bend - Summary and Profile

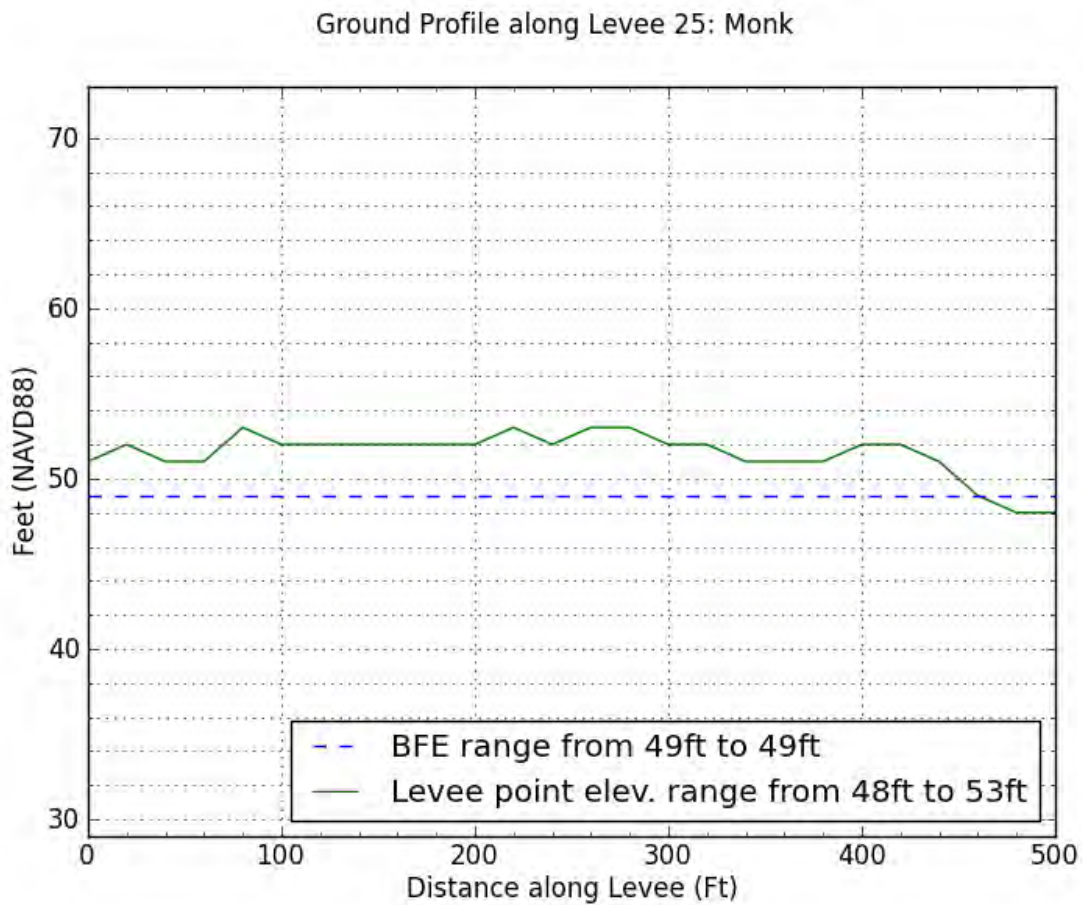
This levee is located along the Right Bank of the Green River. This levee starts at approximately 100 feet south of the intersection of South 259th Street and 88th Avenue South and extends downstream to intersection of South 259th Street and 3rd Avenue South. The area landward of this levee is not eligible for seclusion. The profiles listed below show levee elevations above the BFE along this levee. This Levee **is certified** as providing protection from the 1-percent-annual-chance flood plain under FEMA LOMR case number 14-10-0384P.

Levee elevations based on as-built data



Levee 25: Monk Levee - Summary and Profile

This levee is located along the Left Bank of the Green River. The levee starts at approximately 600 feet upstream of the intersection of East Valley Highway and Green River and extends downstream for approximately 500 feet. The area landward of this levee is eligible for seclusion. The BFEs landward of the levee differ from the BFEs on the river side of the levee on the preliminary mapping. The below profile shows levee elevations above the BFE along this levee. These elevations above the BFEs would impact the peak water surface of the 1-percent-annual-chance flood landward of the structure, making it **hydraulically significant**.

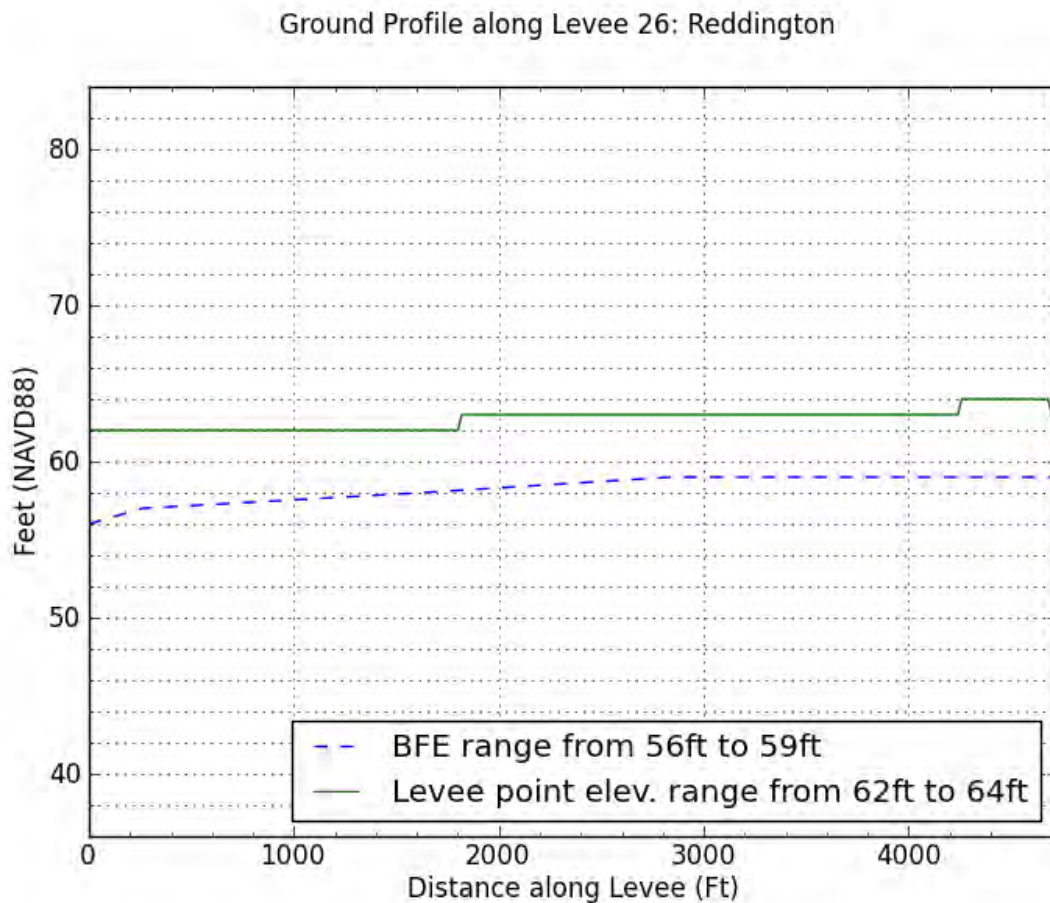


Green River Levee Summary Checklist

Levee Name:	Monk Levee
Protection For:	Green River Left Bank– King County, WA
Levee Owner:	
Levee Status Information	
Mapping Status:	<input checked="" type="checkbox"/> Historic FIRM/FHBM - 1 percent annual chance protection shown. Effective Date: May 16, 1995
	<input type="checkbox"/> Historic FIRM/FHBM - 1 percent annual chance NOT protected (Low-level protection)
	Current Zone Riverward: <input checked="" type="checkbox"/> Zone AE <input type="checkbox"/> Zone A <input type="checkbox"/> Zone X
	Designation : Landward: <input checked="" type="checkbox"/> Zone AE <input type="checkbox"/> Zone A <input checked="" type="checkbox"/> Zone X
	NOTE:
	Current Model Information Available : <input type="checkbox"/> Yes <input type="checkbox"/> No
ACTION: Issue preliminary FIRM's showing the area protected by applying the seclusion method.	
Accreditation Status:	<input type="checkbox"/> Inspection On-going / Requires Investigation Results expected:
	<input type="checkbox"/> Certified / Accredited / Meets 65.10 Accreditation date:
	<input checked="" type="checkbox"/> Not Certified / De-Accredited De-Accreditation date:
	Deficiency : <input type="checkbox"/> Design <input type="checkbox"/> Operation <input type="checkbox"/> Interior Drainage <input type="checkbox"/> Maintenance
	<input type="checkbox"/> PAL Expired Expired on: DATE:
	<input type="checkbox"/> No certification received
	<input type="checkbox"/> Low-level protection (not built for 1 percent annual chance protection)
<input type="checkbox"/> Rehabilitation in progress	
PAL Information:	<input type="checkbox"/> USACE Built <input type="checkbox"/> USACE Owned/Operated <input type="checkbox"/> USACE Maintenance
	<input type="checkbox"/> Locally Built <input type="checkbox"/> Locally Owned/Operated <input type="checkbox"/> Local Maintenance
	<input type="checkbox"/> Private Ownership
	<input type="checkbox"/> PAL Eligible - Yes Scenario <input type="checkbox"/> A1 <input type="checkbox"/> A2 <input type="checkbox"/> B <input type="checkbox"/> C2
	<input type="checkbox"/> PAL Eligible - No Scenario <input type="checkbox"/> C1 <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> PAL previously expired
	<input type="checkbox"/> PAL Offered + 90 days:
	<input type="checkbox"/> PAL Signed – Expiration:
	<input type="checkbox"/> PAL 12-month progress report - not received
	<input type="checkbox"/> Yes Date: <input type="checkbox"/> No Request Letter Date:
	<input type="checkbox"/> PAL 90-day letter: DATE
<input type="checkbox"/> PAL 30-day letter: DATE	
Project Type Identification:	<input type="checkbox"/> Newly Identified/Project Required
	<input type="checkbox"/> On-going Project
	<input type="checkbox"/> Recently Certified Levee System
Additional Notes:	

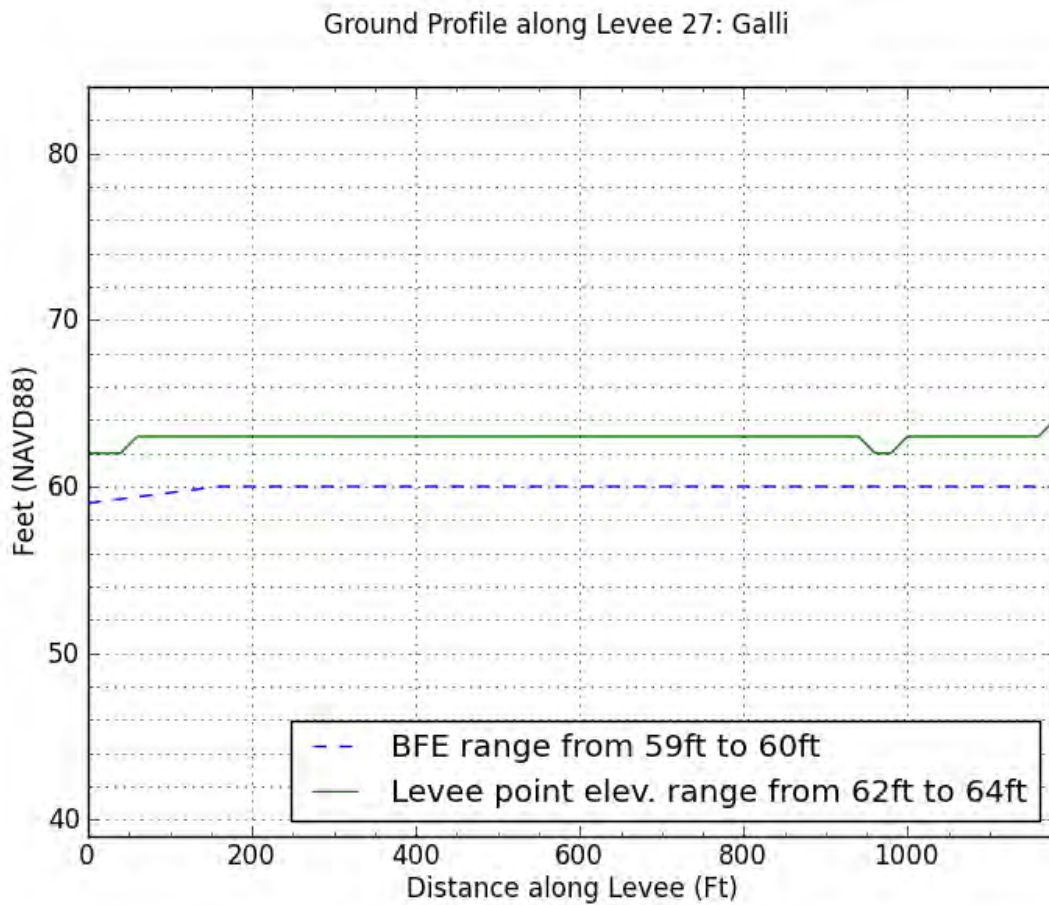
Levee 26: Reddington Levee - Summary and Profile

This levee is located along the Left Bank of the Green River. The levee starts approximately 300 feet east of the intersection of 26th Street Northeast and M Street Northeast and extends downstream for approximately 4,700 feet. The area landward of this levee is eligible for seclusion. The BFEs landward of the levee differ from the BFEs on the river side of the levee on the preliminary mapping. The below profile shows levee elevations above the BFE along this levee. These elevations above the BFEs would impact the peak water surface of the 1-percent-annual-chance flood landward of the structure, making it **hydraulically significant**.



Levee 27: Galli Levee - Summary and Profile

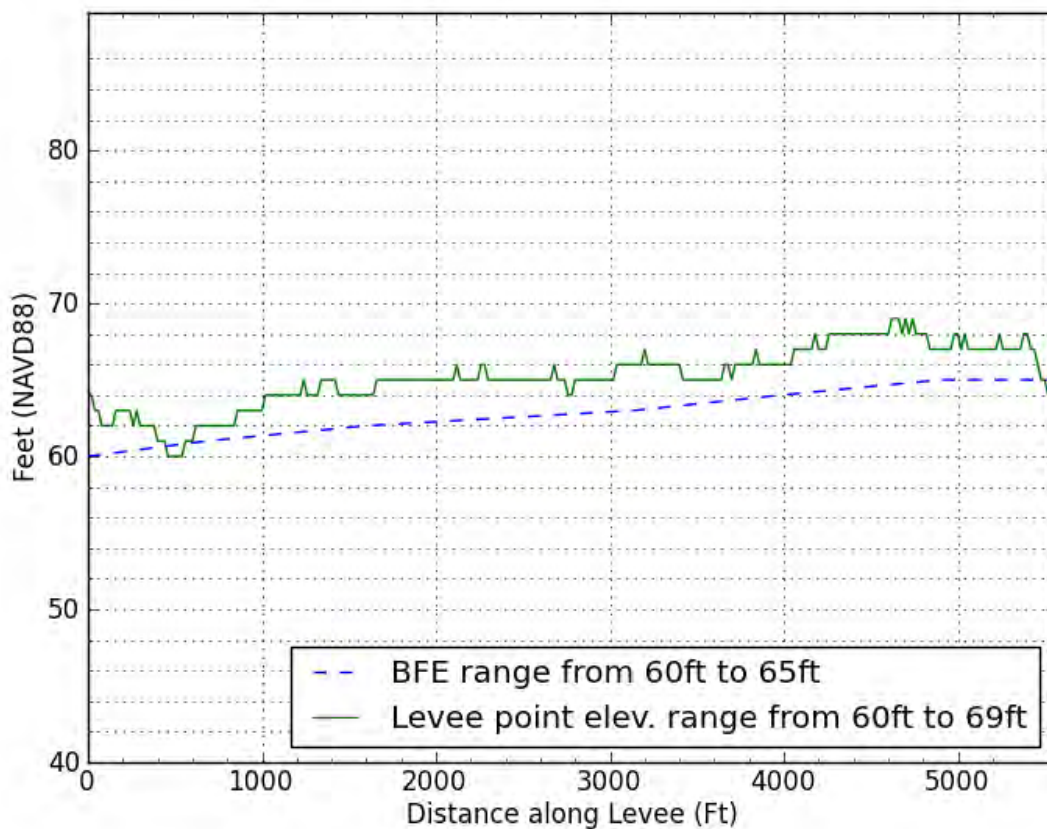
This levee is located along the Left Bank of the Green River. The levee starts approximately 300 feet north of the intersection of 22nd Street Northeast and Pike Street Northeast and continues downstream for approximately 1,200 feet. The area landward of this levee is eligible for seclusion. The effective mapping and preliminary mapping does not show any flooding behind the levee. The below profile shows levee elevations above the BFE along this levee. These elevations above the BFEs would impact the peak water surface of the 1-percent-annual-chance flood landward of the structure, making it **hydraulically significant**.



Levee 28: Dykstra Levee - Summary and Profile

This levee is located along the Left Bank of the Green River. The levee starts approximately 200 feet east of the intersection of Pike Street Northeast and 12th Place Northeast and extends downstream for approximately 5,600 feet. The area landward of this levee is eligible for seclusion. The effective mapping and preliminary mapping does not show any flooding behind the levee. The below profile shows levee elevations above the BFE along this levee. These elevations above the BFEs would impact the peak water surface of the 1-percent-annual-chance flood landward of the structure, making it **hydraulically significant**.

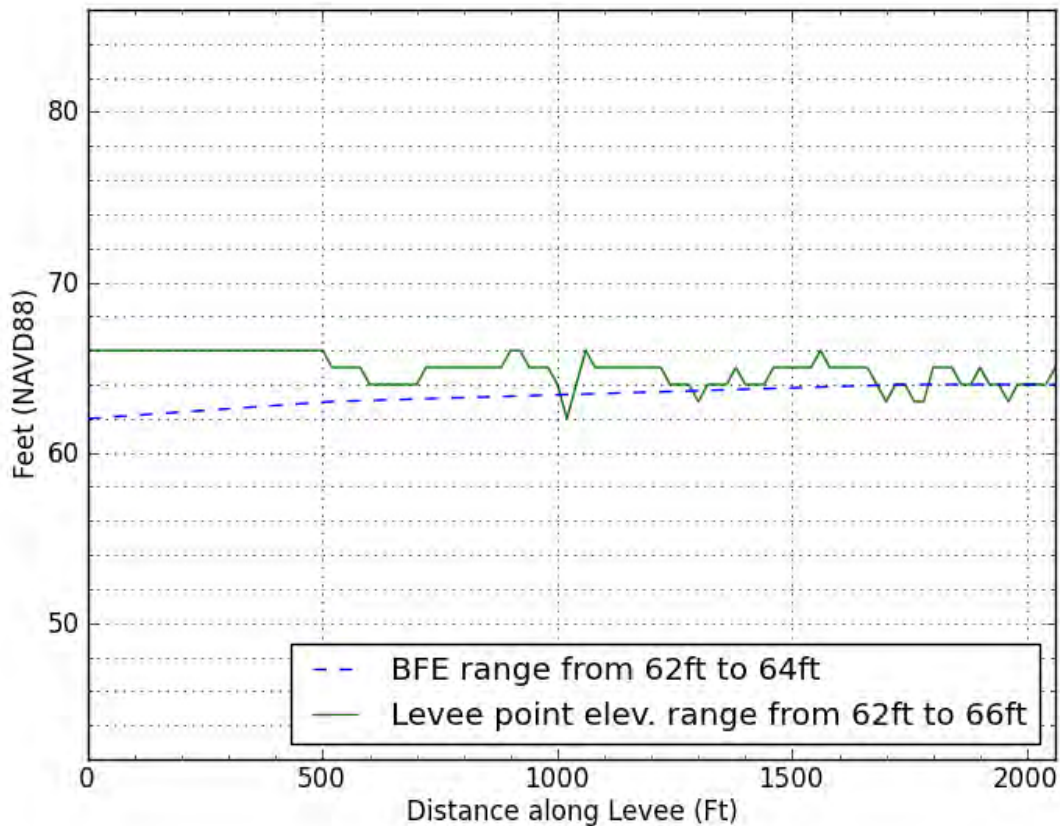
Ground Profile along Levee 28: Dykstra



Levee 29: Green River - Summary and Profile

This levee is located along the Right Bank of the Green River. The levee starts approximately 400 feet northwest of the terminus of Garden Avenue and extends downstream for approximately 2,100 feet. The area landward of this levee is eligible for seclusion. The BFEs landward of the levee differ from the BFEs on the river side of the levee on the preliminary mapping. The below profile shows levee elevations above the BFE along this levee. These elevations above the BFEs would impact the peak water surface of the 1-percent-annual-chance flood landward of the structure, making it **hydraulically significant**.

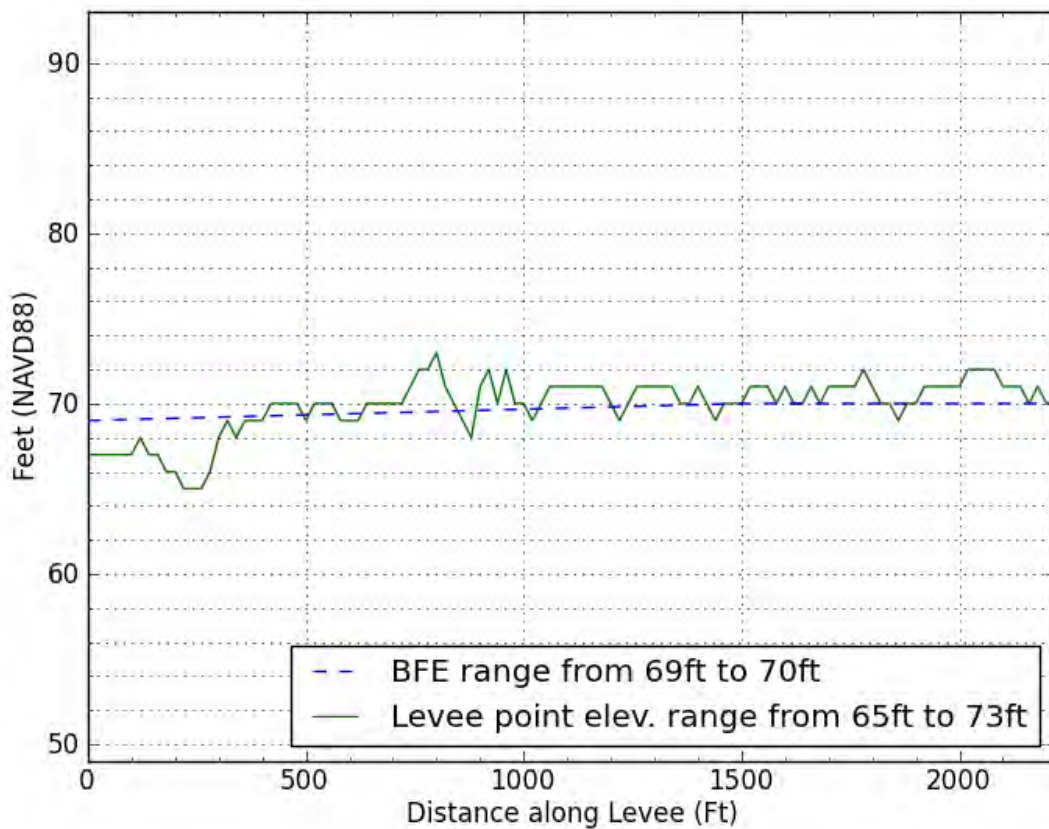
Ground Profile along Levee 29: Green River Right Bank F



Levee 30: Green River - Summary and Profile

This levee is located along the Left Bank of the Green River. The levee starts approximately 1,700 feet southeast of the intersection of V Street Southeast and 4th Street Southeast and extends downstream for approximately 2,250 feet downstream. The area landward of this levee is not eligible for seclusion. There is no change between the BFEs landward and on the river side of the levee on the preliminary mapping. Based on this and the below profile the 1-percent-annual-chance flood elevation would not be impacted by this structure, making it hydraulically insignificant.

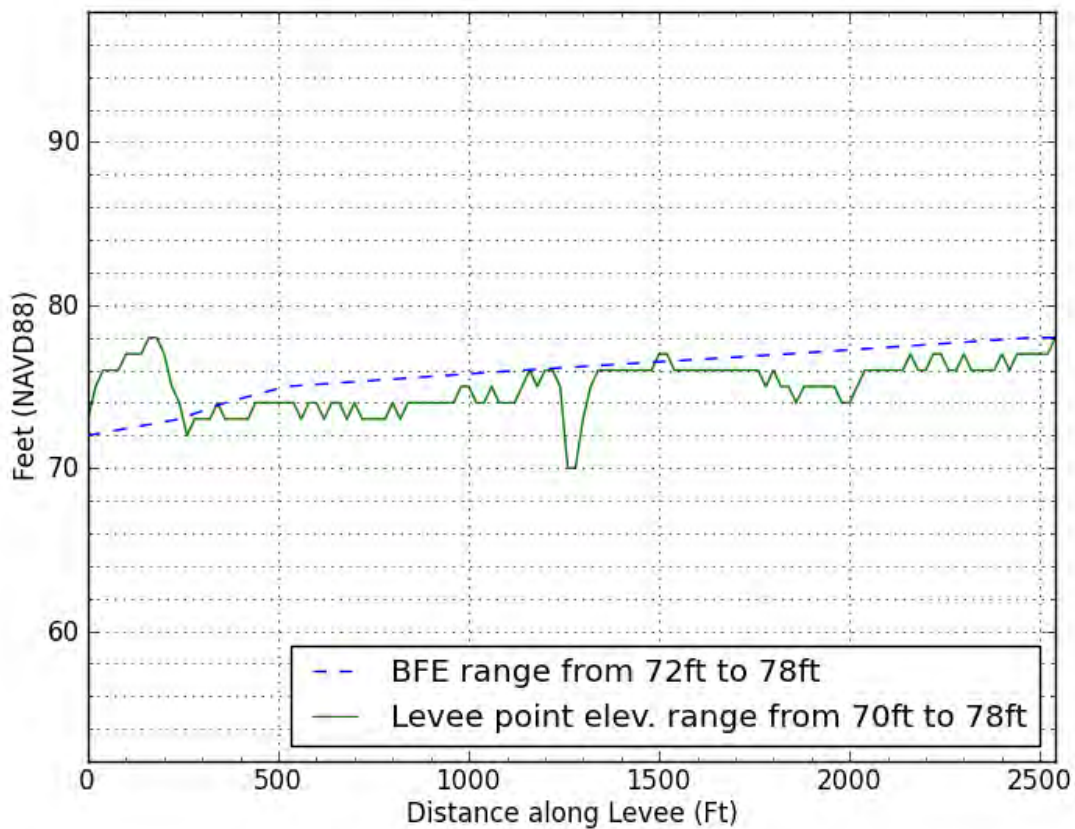
Ground Profile along Levee 30: Fenster



Levee 31: Muellen Levee - Summary and Profile

This levee is located along the Left Bank of the Green River. The levee starts approximately 100 feet downstream of the intersection of Washington Route 18 and the Green River and extends downstream for approximately 2,600 feet. The area landward of this levee is not eligible for seclusion. There is no change between the BFEs landward and on the river side of the levee on the preliminary mapping. Based on this and the below profile the 1-percent-annual-chance flood elevation would not be impacted by this structure, making it hydraulically insignificant.

Ground Profile along Levee 31: Muellen



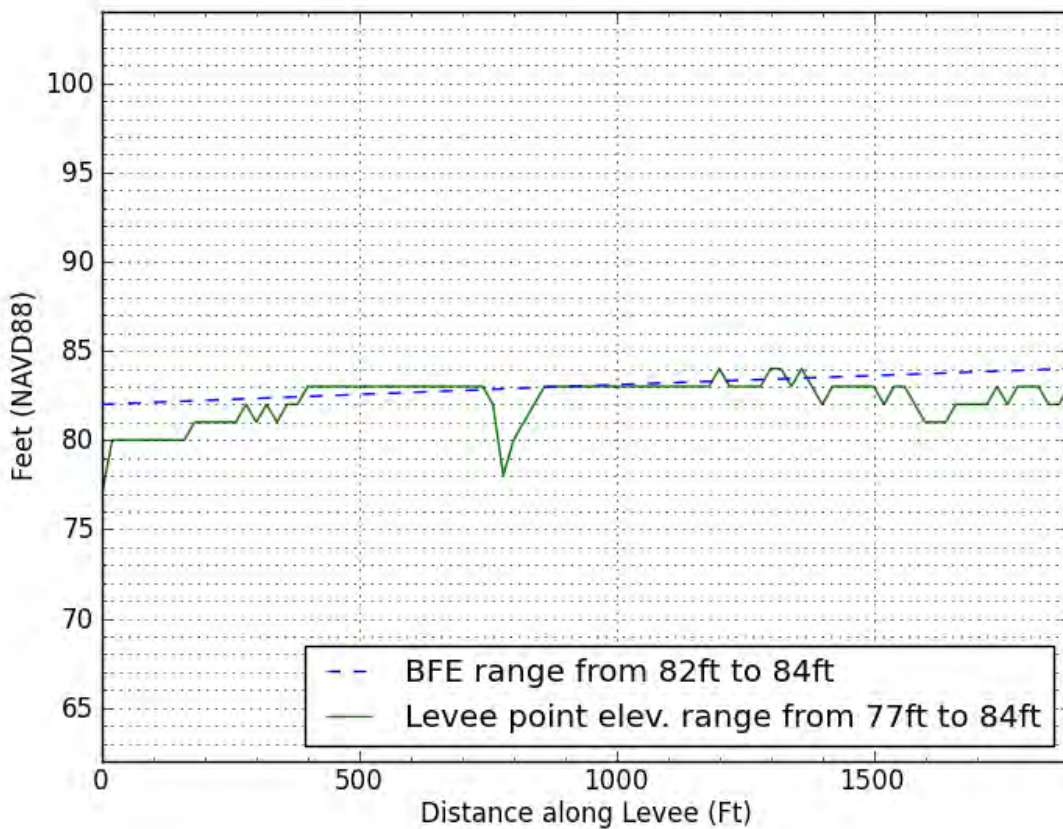
Green River Levees Summary Checklist

Levee Name:	Muellen Levee
Protection For:	Green River – King County, WA
Levee Owner:	
Levee Status Information	
Mapping Status:	<input type="checkbox"/> Historic FIRM/FHBM - 1 percent annual chance protection shown. Effective Date:
	<input checked="" type="checkbox"/> Historic FIRM/FHBM - 1 percent annual chance NOT protected (Low-level protection)
	Current Zone Riverward: <input checked="" type="checkbox"/> Zone AE <input type="checkbox"/> Zone A <input type="checkbox"/> Zone X
	Designation : Landward: <input checked="" type="checkbox"/> Zone AE <input type="checkbox"/> Zone A <input checked="" type="checkbox"/> Zone X
	NOTE:
	Current Model Information Available : <input type="checkbox"/> Yes <input type="checkbox"/> No
ACTION: Issue preliminary FIRM's showing the area as special flood hazard area using natural valley.	
Accreditation Status:	<input type="checkbox"/> Inspection On-going / Requires Investigation Results expected:
	<input type="checkbox"/> Certified / Accredited / Meets 65.10 Accreditation date:
	<input checked="" type="checkbox"/> Not Certified / De-Accredited De-Accreditation date:
	Deficiency : <input type="checkbox"/> Design <input type="checkbox"/> Operation <input type="checkbox"/> Interior Drainage <input type="checkbox"/> Maintenance
	<input type="checkbox"/> PAL Expired Expired on: DATE:
	<input type="checkbox"/> No certification received
	<input type="checkbox"/> Low-level protection (not built for 1 percent annual chance protection)
<input type="checkbox"/> Rehabilitation in progress	
PAL Information:	<input type="checkbox"/> USACE Built <input type="checkbox"/> USACE Owned/Operated <input type="checkbox"/> USACE Maintenance
	<input type="checkbox"/> Locally Built <input type="checkbox"/> Locally Owned/Operated <input type="checkbox"/> Local Maintenance
	<input type="checkbox"/> Private Ownership
	<input type="checkbox"/> PAL Eligible - Yes Scenario <input type="checkbox"/> A1 <input type="checkbox"/> A2 <input type="checkbox"/> B <input type="checkbox"/> C2
	<input type="checkbox"/> PAL Eligible - No Scenario <input type="checkbox"/> C1 <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> PAL previously expired
	<input type="checkbox"/> PAL Offered + 90 days:
	<input type="checkbox"/> PAL Signed – Expiration:
	<input type="checkbox"/> PAL 12-month progress report - not received
	<input type="checkbox"/> Yes Date: <input type="checkbox"/> No Request Letter Date:
	<input type="checkbox"/> PAL 90-day letter: DATE
<input type="checkbox"/> PAL 30-day letter: DATE	
Project Type Identification:	<input type="checkbox"/> Newly Identified/Project Required
	<input type="checkbox"/> On-going Project
	<input type="checkbox"/> Recently Certified Levee System
Additional Notes:	

Levee 32: Potter Levee - Summary and Profile

This levee is located along the Left Bank of the Green River. The levee starts approximately 2,300 feet downstream of the intersection of Southeast Green Valley Road and extends downstream for approximately 1,900 feet. The area landward of this levee is not eligible for seclusion. There is no change between the BFEs landward and on the river side of the levee on the preliminary mapping. Based on this and the below profile the 1-percent-annual-chance flood elevation would not be impacted by this structure, making it hydraulically insignificant.

Ground Profile along Levee 32: Potter

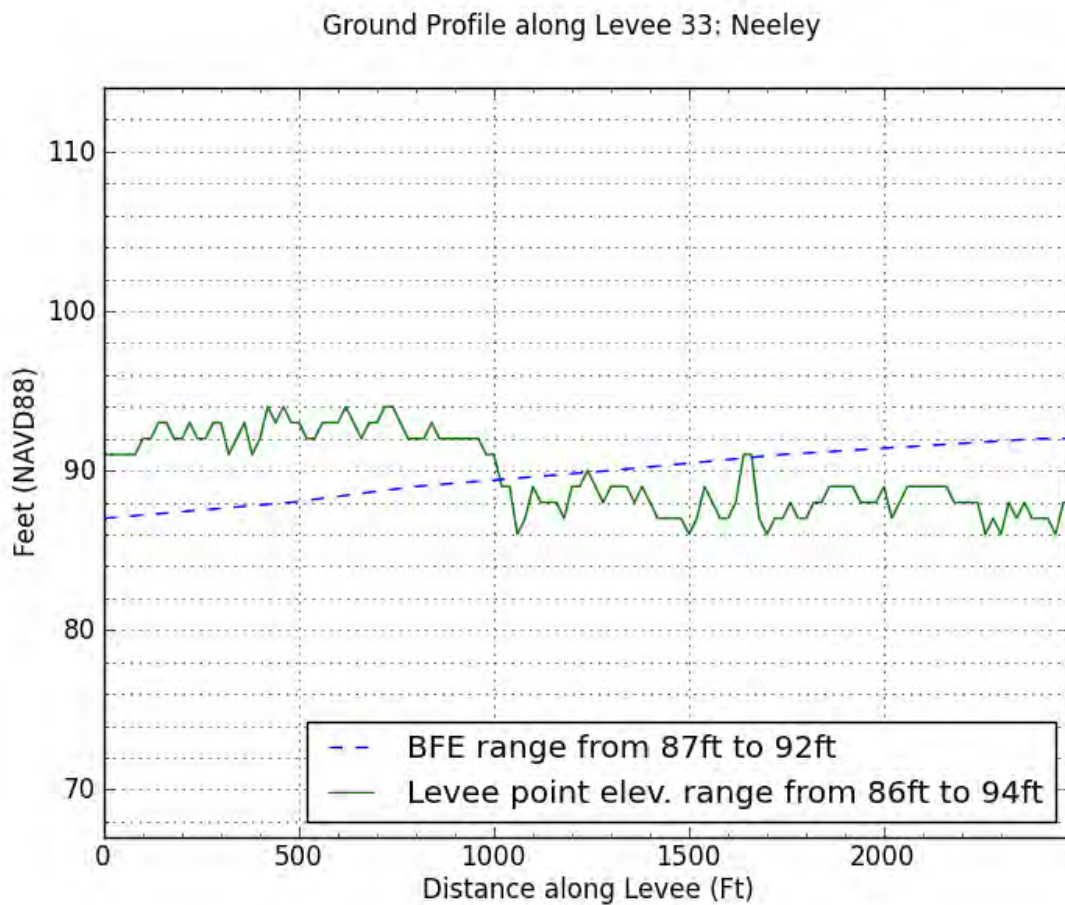


Green River Levee Summary Checklist

Levee Name:	Potter Levee
Protection For:	Green River – King County, WA
Levee Owner:	
Levee Status Information	
Mapping Status:	<input type="checkbox"/> Historic FIRM/FHBM - 1 percent annual chance protection shown. Effective Date:
	<input checked="" type="checkbox"/> Historic FIRM/FHBM - 1 percent annual chance NOT protected (Low-level protection)
	Current Zone Riverward: <input checked="" type="checkbox"/> Zone AE <input type="checkbox"/> Zone A <input type="checkbox"/> Zone X
	Designation : Landward: <input checked="" type="checkbox"/> Zone AE <input type="checkbox"/> Zone A <input checked="" type="checkbox"/> Zone X
	NOTE:
	Current Model Information Available : <input type="checkbox"/> Yes <input type="checkbox"/> No
ACTION: Issue preliminary FIRM's showing the area as special flood hazard area using natural valley.	
Accreditation Status:	<input type="checkbox"/> Inspection On-going / Requires Investigation Results expected:
	<input type="checkbox"/> Certified / Accredited / Meets 65.10 Accreditation date:
	<input checked="" type="checkbox"/> Not Certified / De-Accredited De-Accreditation date:
	Deficiency : <input type="checkbox"/> Design <input type="checkbox"/> Operation <input type="checkbox"/> Interior Drainage <input type="checkbox"/> Maintenance
	<input type="checkbox"/> PAL Expired Expired on: DATE:
	<input type="checkbox"/> No certification received
	<input type="checkbox"/> Low-level protection (not built for 1 percent annual chance protection)
<input type="checkbox"/> Rehabilitation in progress	
PAL Information:	<input type="checkbox"/> USACE Built <input type="checkbox"/> USACE Owned/Operated <input type="checkbox"/> USACE Maintenance
	<input type="checkbox"/> Locally Built <input type="checkbox"/> Locally Owned/Operated <input type="checkbox"/> Local Maintenance
	<input type="checkbox"/> Private Ownership
	<input type="checkbox"/> PAL Eligible - Yes Scenario <input type="checkbox"/> A1 <input type="checkbox"/> A2 <input type="checkbox"/> B <input type="checkbox"/> C2
	<input type="checkbox"/> PAL Eligible - No Scenario <input type="checkbox"/> C1 <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> PAL previously expired
	<input type="checkbox"/> PAL Offered + 90 days:
	<input type="checkbox"/> PAL Signed – Expiration:
	<input type="checkbox"/> PAL 12-month progress report - not received
	<input type="checkbox"/> Yes Date: <input type="checkbox"/> No Request Letter Date:
	<input type="checkbox"/> PAL 90-day letter: DATE
<input type="checkbox"/> PAL 30-day letter: DATE	
Project Type Identification:	<input type="checkbox"/> Newly Identified/Project Required
	<input type="checkbox"/> On-going Project
	<input type="checkbox"/> Recently Certified Levee System
Additional Notes:	

Levee 33: Neeley Levee - Summary and Profile

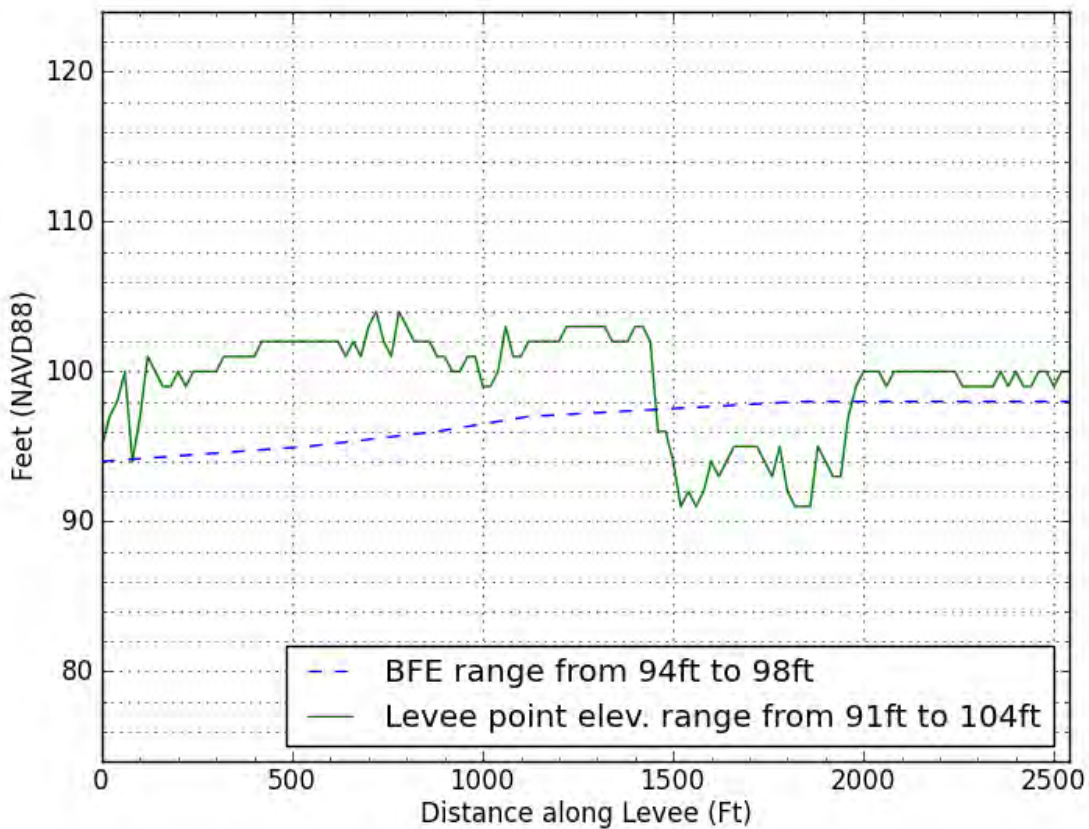
This levee is located along the Left Bank of the Green River. The levee starts approximately 2,200 feet northeast of the intersection of Academy Drive Southeast and 32nd Street Southeast and extends downstream for approximately 2,500 feet. The area landward of this levee is not eligible for seclusion. The BFEs landward of the levee differ from the BFEs on the river side of the levee on the preliminary mapping. The below profile shows levee elevations below the BFE on the upstream end of the levee and levee elevations above the BFE on the downstream end of the levee. This would allow flood waters to get behind the levee even though the downstream end of the levee may be above the BFE, making this levee hydraulically insignificant.



Levee 34: Hammakami Levee- Summary and Profile

This Levee is located along the right channel bank of Green River. The levee’s upstream extent is located approximately at the intersection of Southeast Green Valley Road and 152nd Avenue Southeast and extends approximately 2,500 feet downstream. The area landward of this levee is not eligible for seclusion. There is no change between the BFEs landward and on the river side of the levee on the preliminary mapping. Based on this and the below profile the 1-percent-annual-chance flood elevation would not be impacted by this structure, making it hydraulically insignificant.

Ground Profile along Levee 34: Hammakami



Selected Seclusion Areas

The following communities will be impacted by seclusion and PAL: City of Auburn, City of Kent, City of Renton, City of Tukwila, and King County Unincorporated Areas. The attached maps (Map 1 and Map 2) show the levee seclusion and PAL boxes as they are proposed to be shown on the projected revised preliminary study.

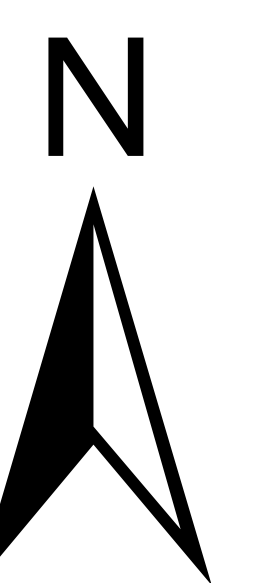
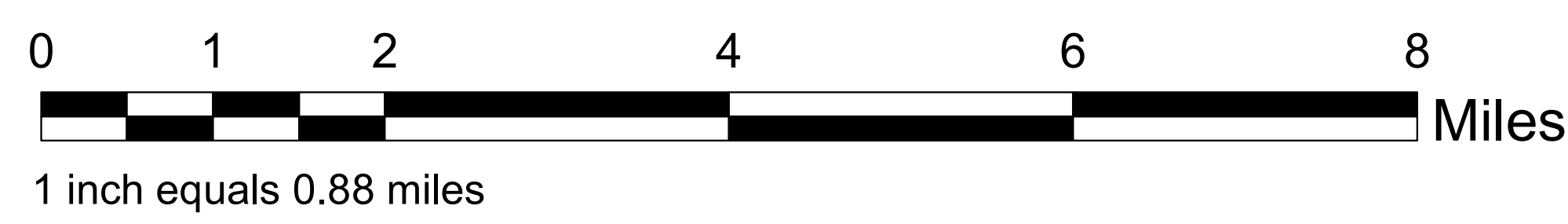
Levee Location Map - King County, WA



Legend

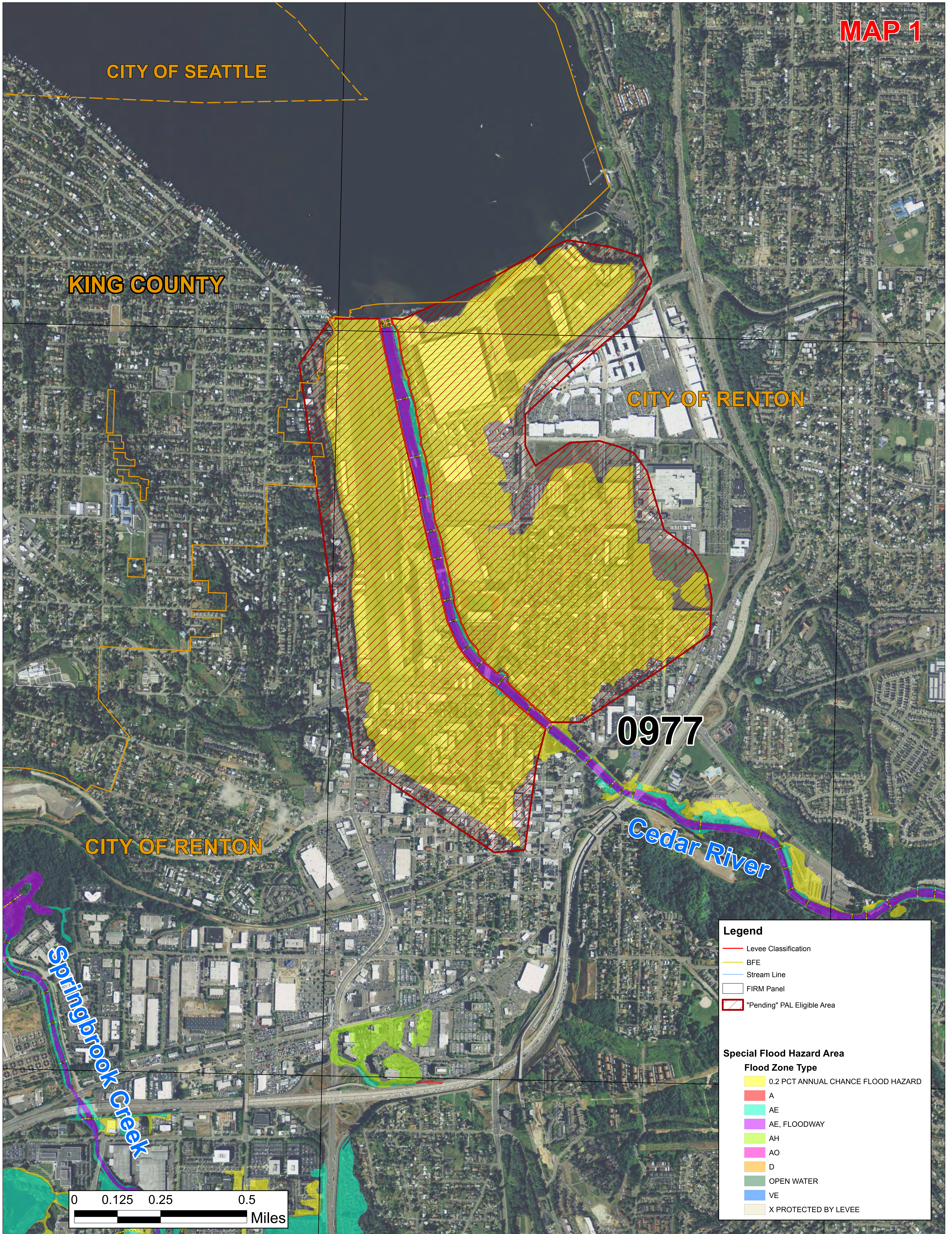
Levee ID Number

1	6	11	16	21	26	31
2	7	12	17	22	27	32
3	8	13	18	23	28	33
4	9	14	19	24	29	34
5	10	15	20	25	30	



Levee Areas for the Cedar River

MAP 1



CITY OF SEATTLE

KING COUNTY

CITY OF RENTON

CITY OF RENTON

0977

Cedar River

Springbrook Creek

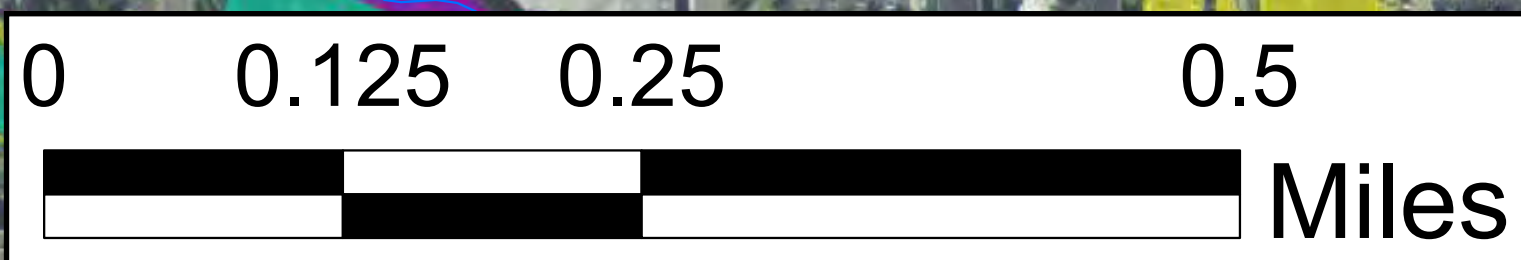
Legend

- Levee Classification
- BFE
- Stream Line
- FIRM Panel
- "Pending" PAL Eligible Area

Special Flood Hazard Area

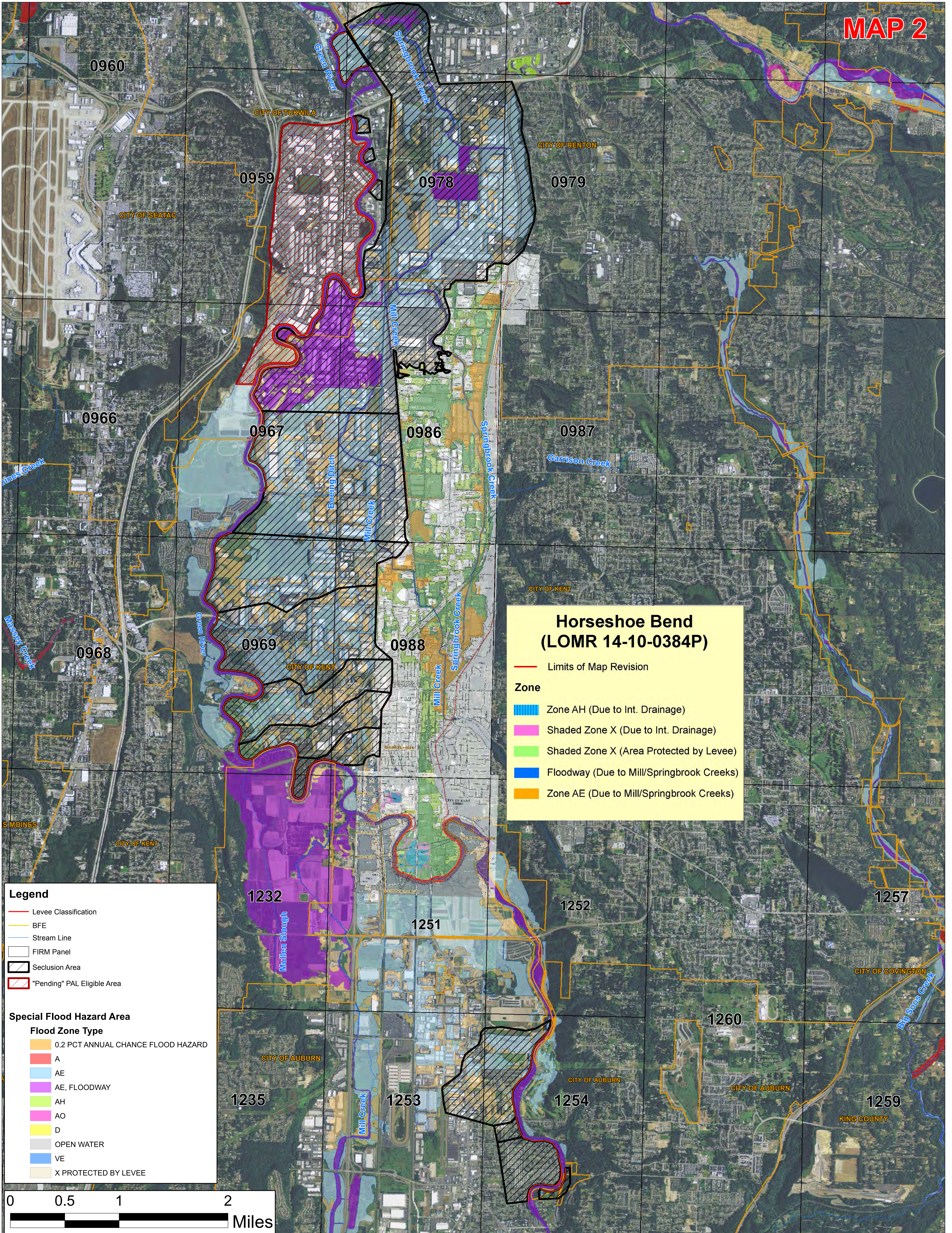
Flood Zone Type

- 0.2 PCT ANNUAL CHANCE FLOOD HAZARD
- A
- AE
- AE, FLOODWAY
- AH
- AO
- D
- OPEN WATER
- VE
- X PROTECTED BY LEVEE



Levee Areas for Left and Right Banks of Green River (Seclusion and PAL-eligible)

MAP 2



**Horseshoe Bend
(LOMR 14-10-0384P)**

- Limits of Map Revision

Zone

- Zone AH (Due to Int. Drainage)
- Shaded Zone X (Due to Int. Drainage)
- Shaded Zone X (Area Protected by Levee)
- Floodway (Due to Mill/Springbrook Creeks)
- Zone AE (Due to Mill/Springbrook Creeks)

Legend

- Levee Classification
- BFE
- Stream Line
- FIRM Panel
- Seclusion Area
- "Pending" PAL Eligible Area

Special Flood Hazard Area

Flood Zone Type

- 0.2 PCT ANNUAL CHANCE FLOOD HAZARD
- A
- AE
- AE, FLOODWAY
- AH
- AO
- D
- OPEN WATER
- VE
- X PROTECTED BY LEVEE

