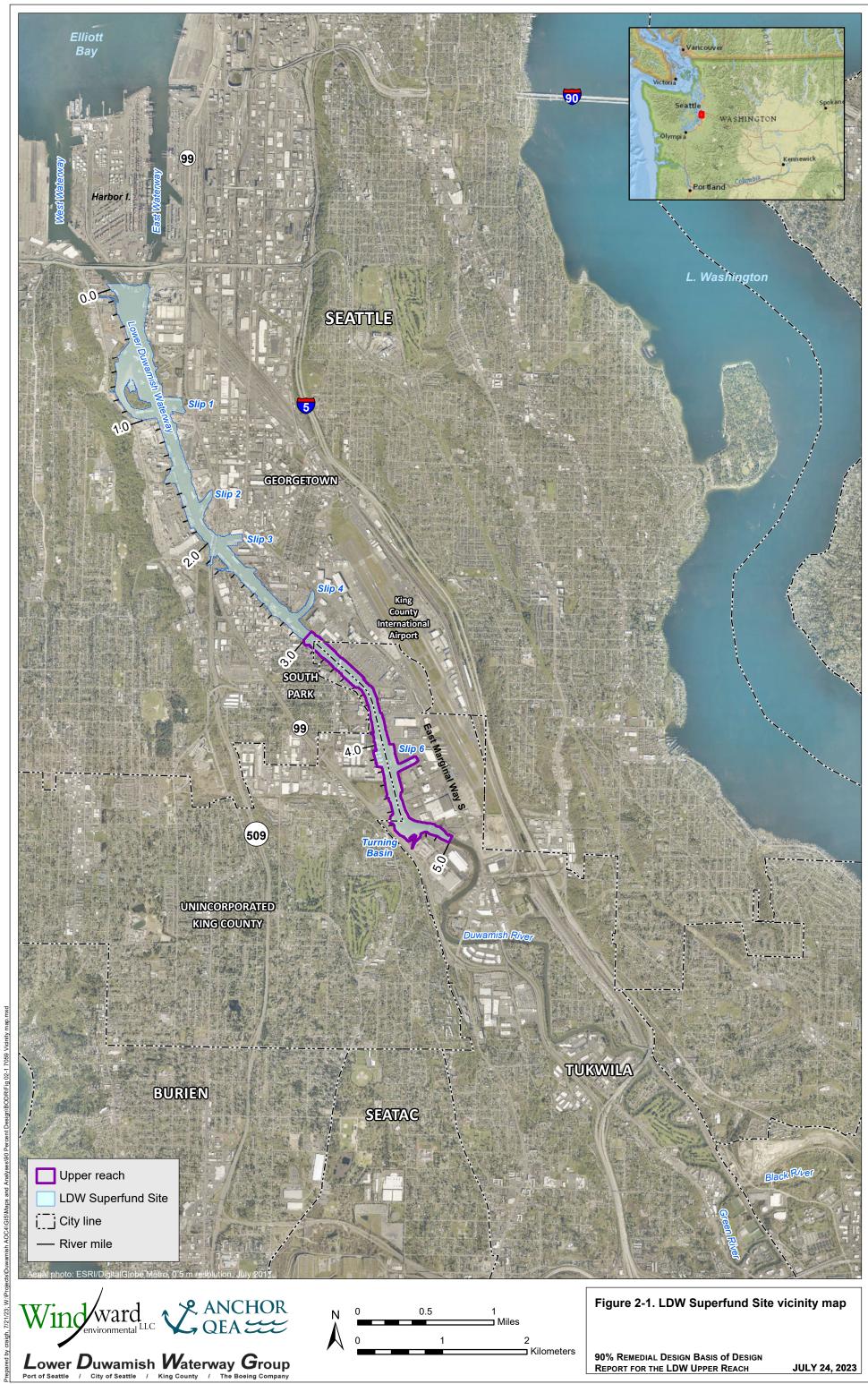
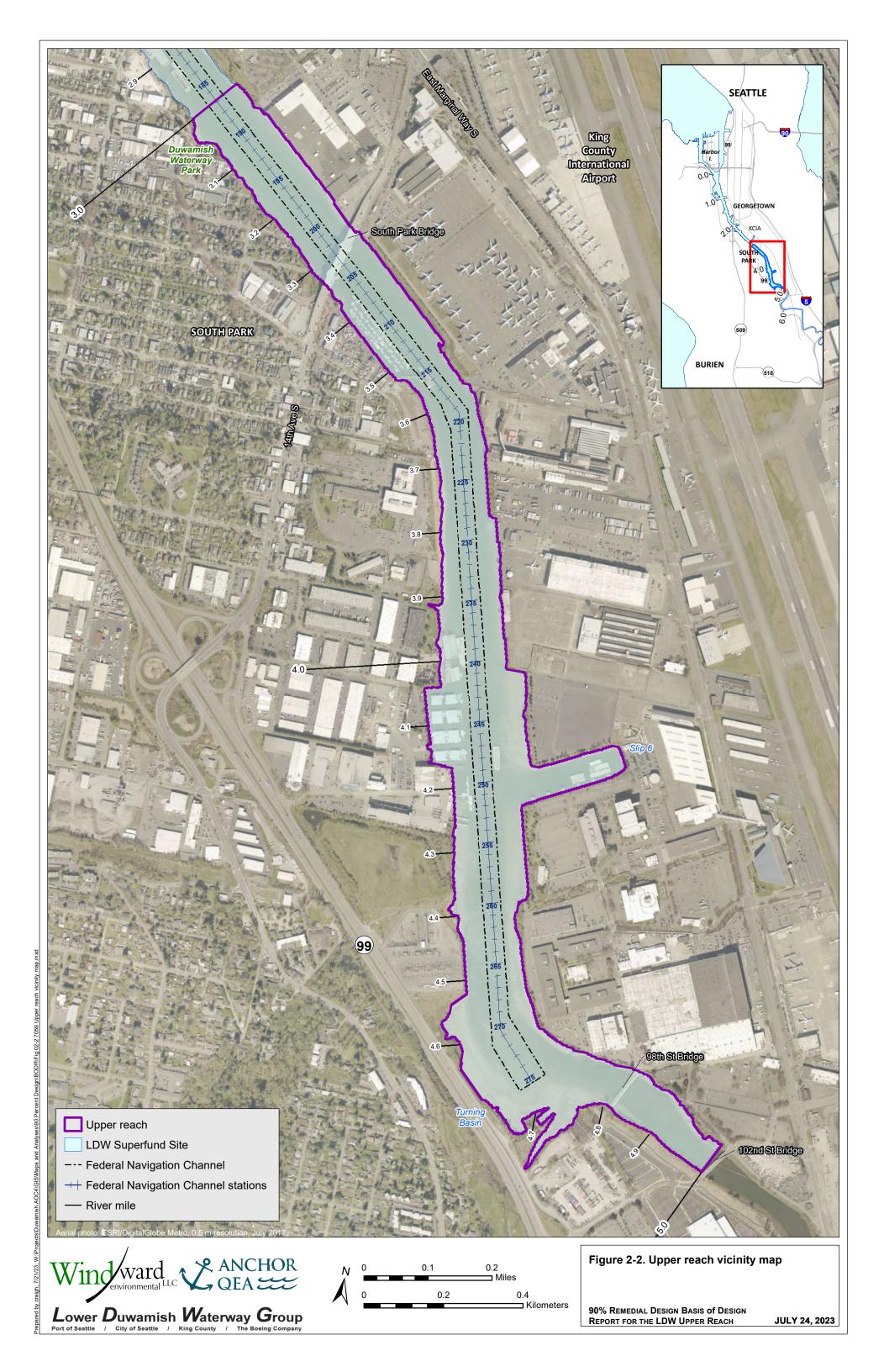
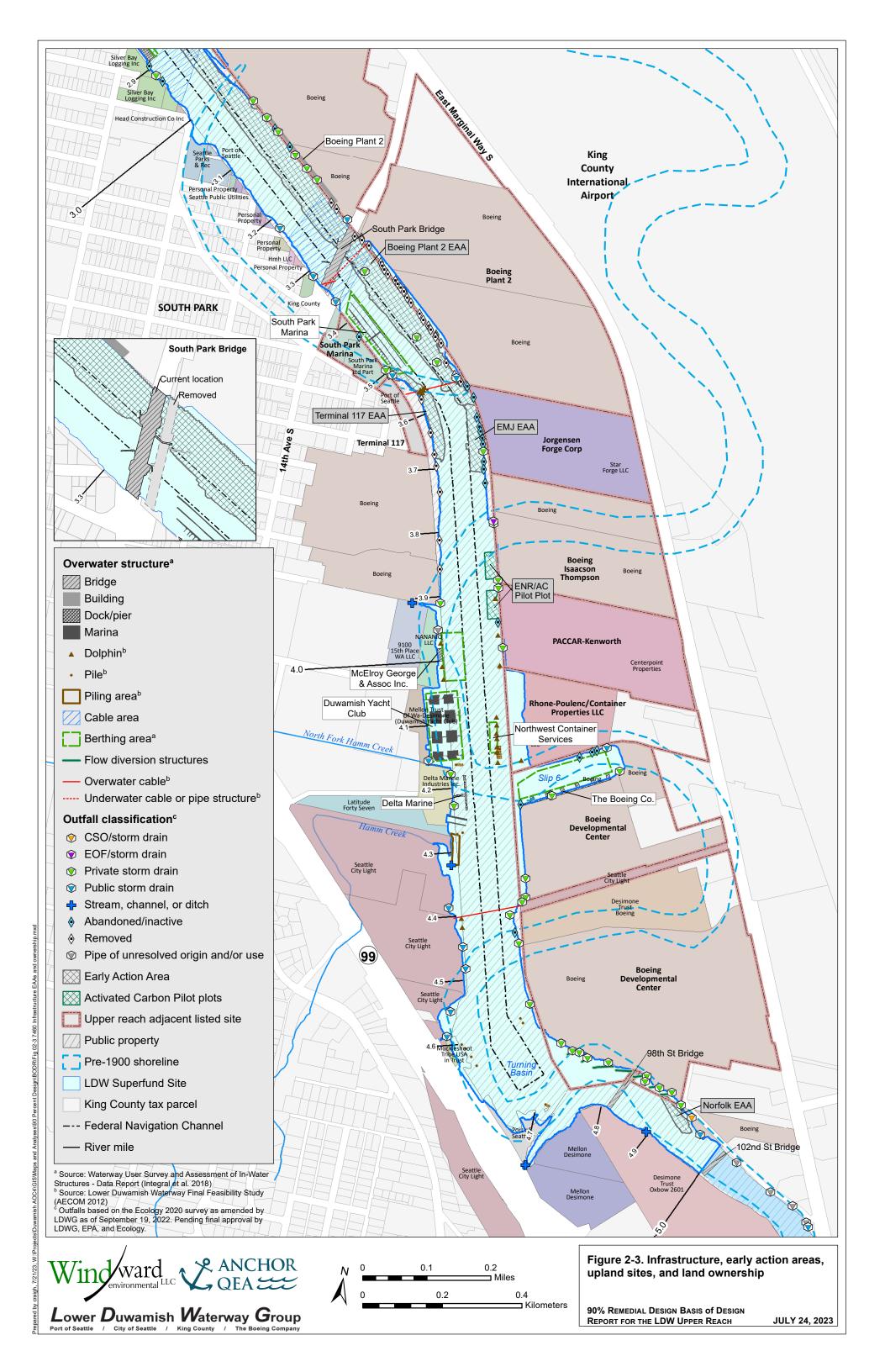
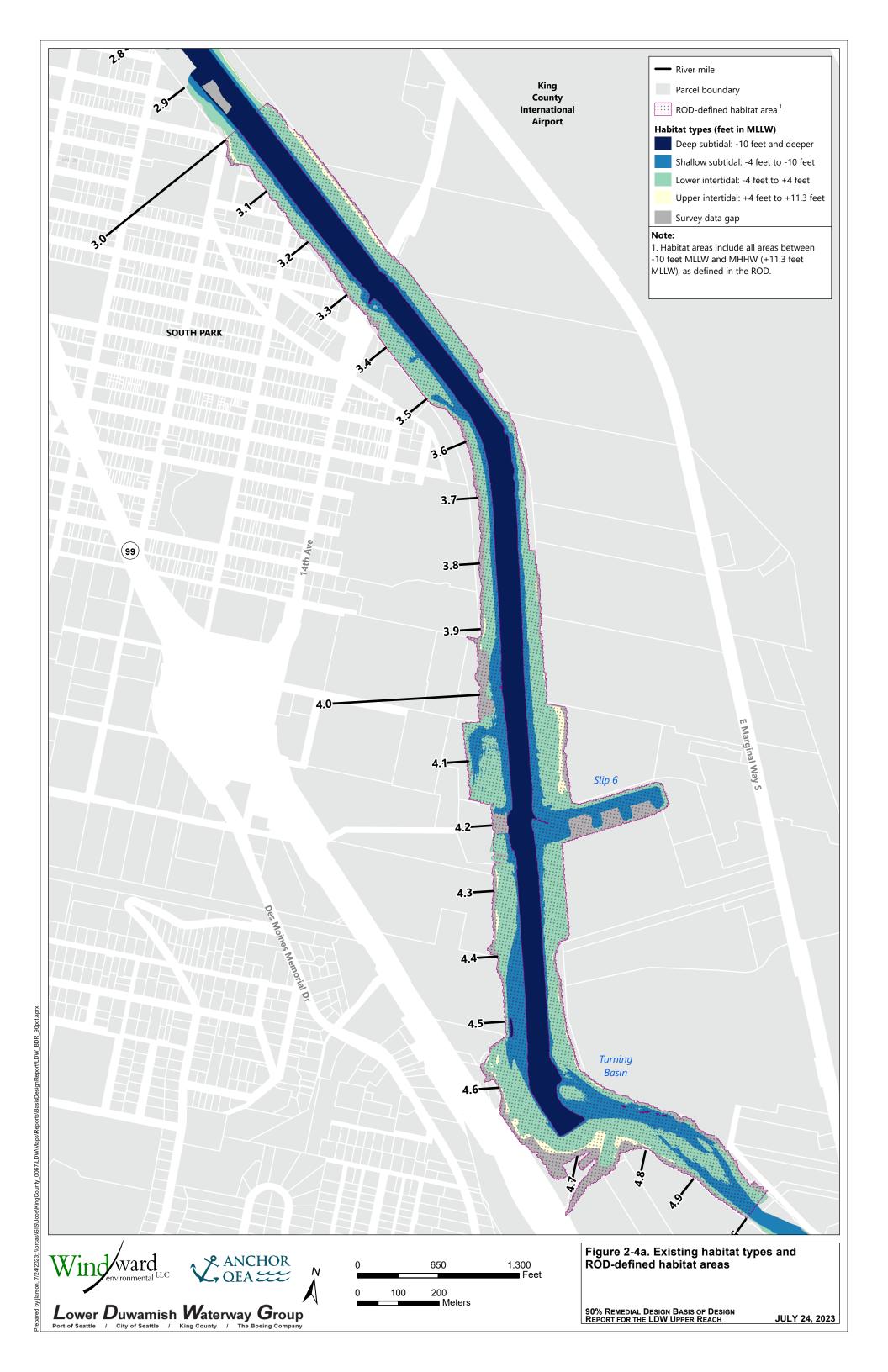
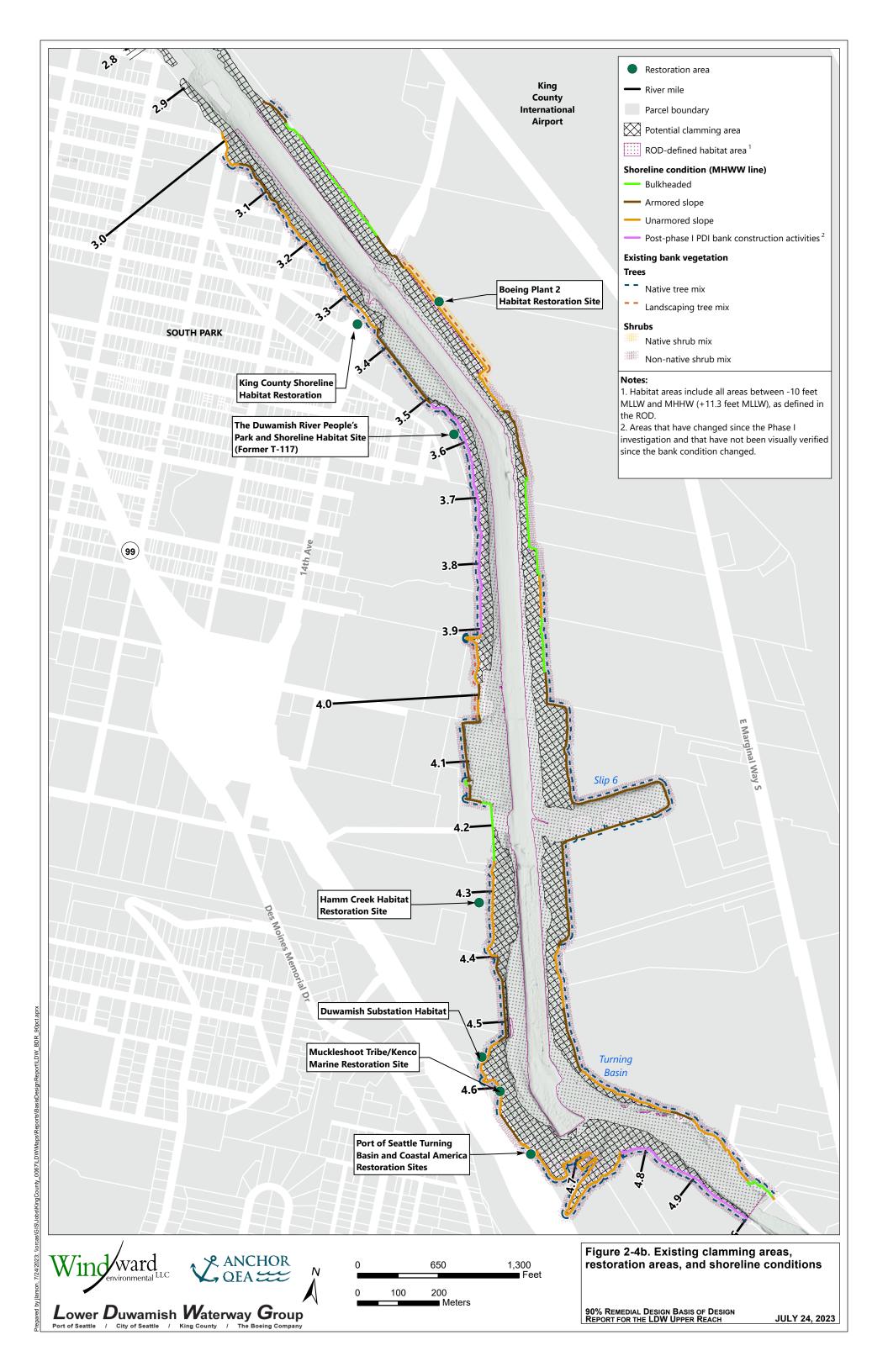
Figures

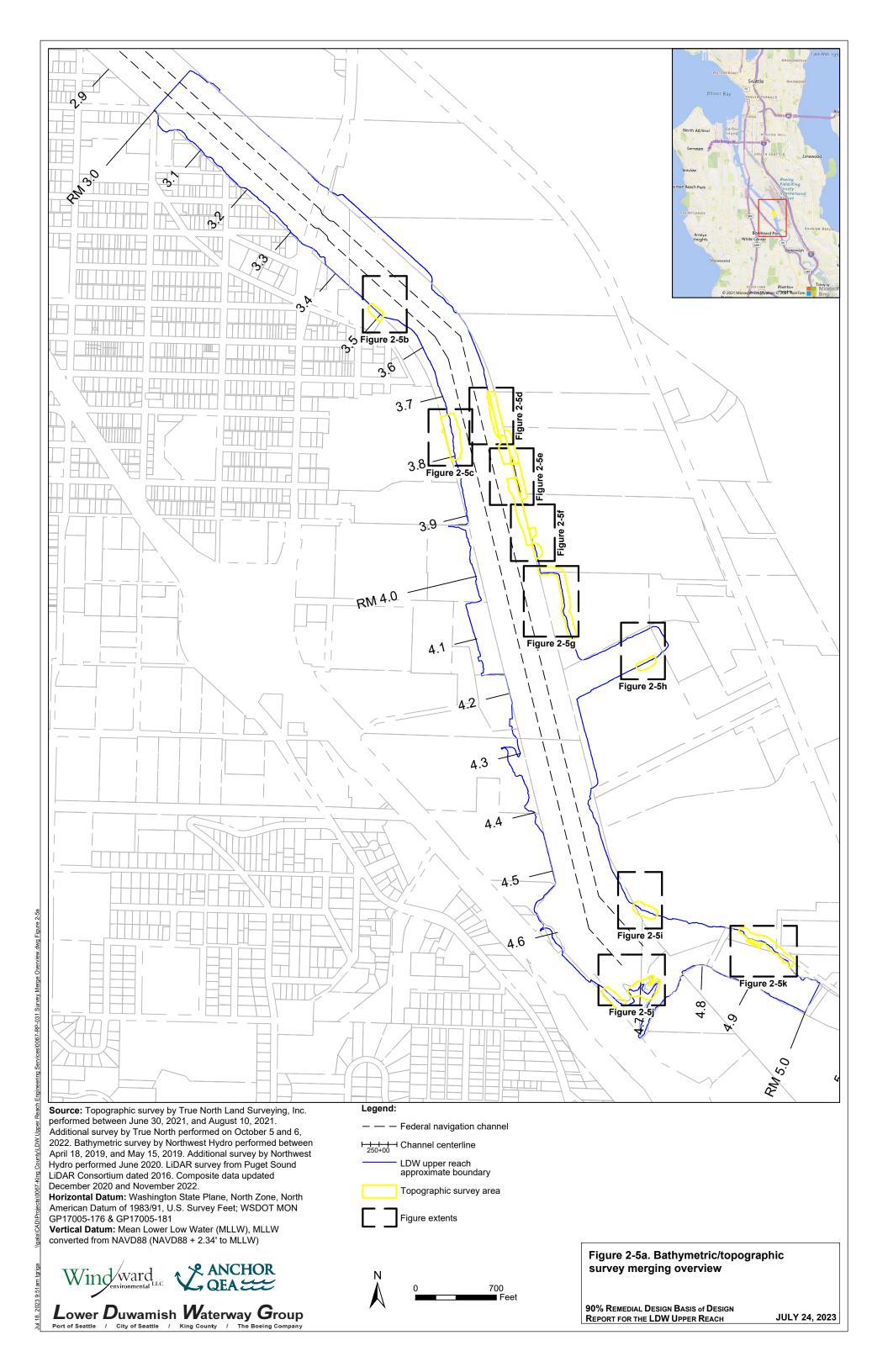


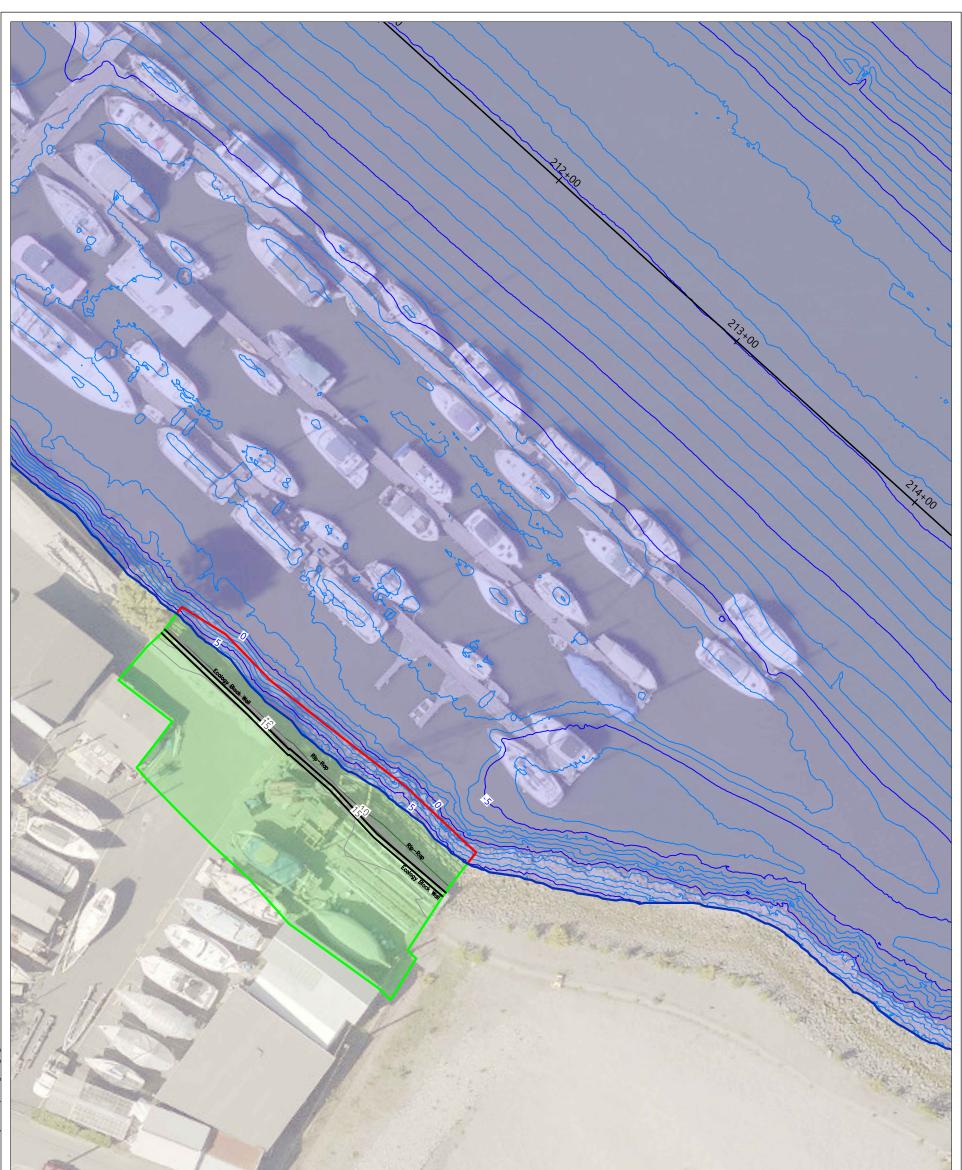












Source: Topographic survey by True North Land Surveying, Inc. performed between June 30, 2021, and August 10, 2021. Additional survey by True North performed on October 5 and 6, 2022. Bathymetric survey by Northwest Hydro performed between April 18, 2019, and May 15, 2019. Additional survey by Northwest Hydro performed June 2020. LiDAR survey from Puget Sound LiDAR Consortium dated 2016. Composite data updated December 2020 and November 2022. **Horizontal Datum:** Washington State Plane, North Zone, NAD83

Horizontal Datum: Washington State Plane, North Zone, NAD8 (2011), U.S. Survey Feet; WSDOT MON GP17005-176 & GP17005-181

Vertical Datum: Mean Lower Low Water (MLLW), MLLW converted from NAVD88 (NAVD88 + 2.34' to MLLW)

Legend:



2019/2020 Northwest Hydro bathymetric survey extent

2021/2022 True North bank topographic survey extent (not shown where bathymetric survey overrides topo)

Area where bathymetric survey overrides topographic survey

Bathymetric survey contours (1' & 5' intervals)

—— Topographic survey contours (1' & 5' intervals)

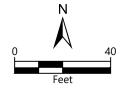
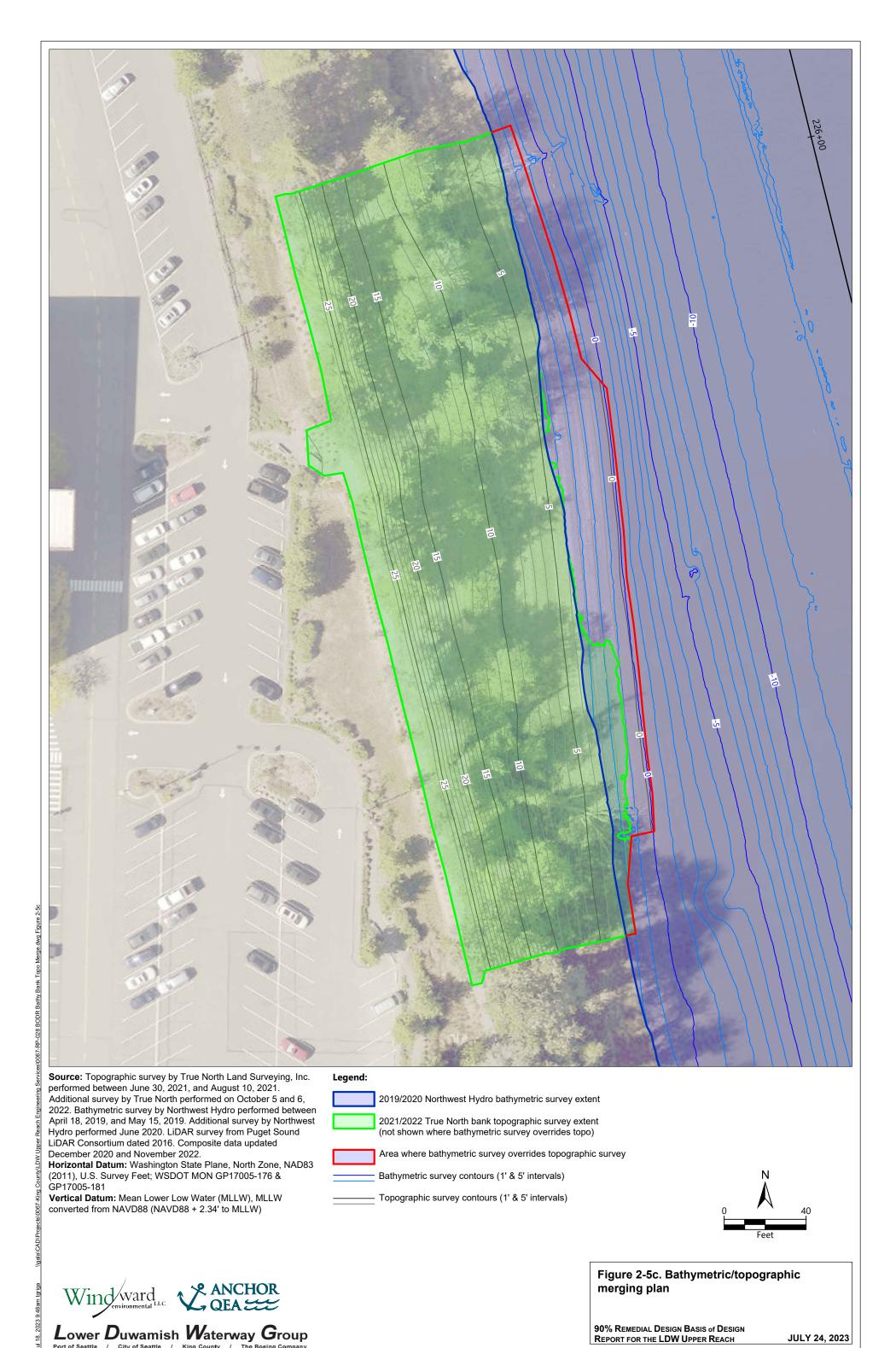


Figure 2-5b. Bathymetric/topographic merging plan

90% REMEDIAL DESIGN BASIS OF DESIGN REPORT FOR THE LDW UPPER REACH



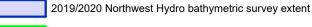


Source: Topographic survey by True North Land Surveying, Inc. performed between June 30, 2021, and August 10, 2021. Additional survey by True North performed on October 5 and 6, 2022. Bathymetric survey by Northwest Hydro performed between April 18, 2019, and May 15, 2019. Additional survey by Northwest Hydro performed June 2020. LiDAR survey from Puget Sound LiDAR Consortium dated 2016. Composite data updated December 2020 and November 2022.

Horizontal Datum: Washington State Plane, North Zone, NAD83 (2011), U.S. Survey Feet; WSDOT MON GP17005-176 & GP17005-181

Vertical Datum: Mean Lower Low Water (MLLW), MLLW converted from NAVD88 (NAVD88 + 2.34' to MLLW)

Legend:



2021/2022 True North bank topographic survey extent



(not shown where bathymetric survey overrides topo) Area where bathymetric survey overrides topographic survey

Bathymetric survey contours (1' & 5' intervals)

Topographic survey contours (1' & 5' intervals)

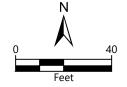
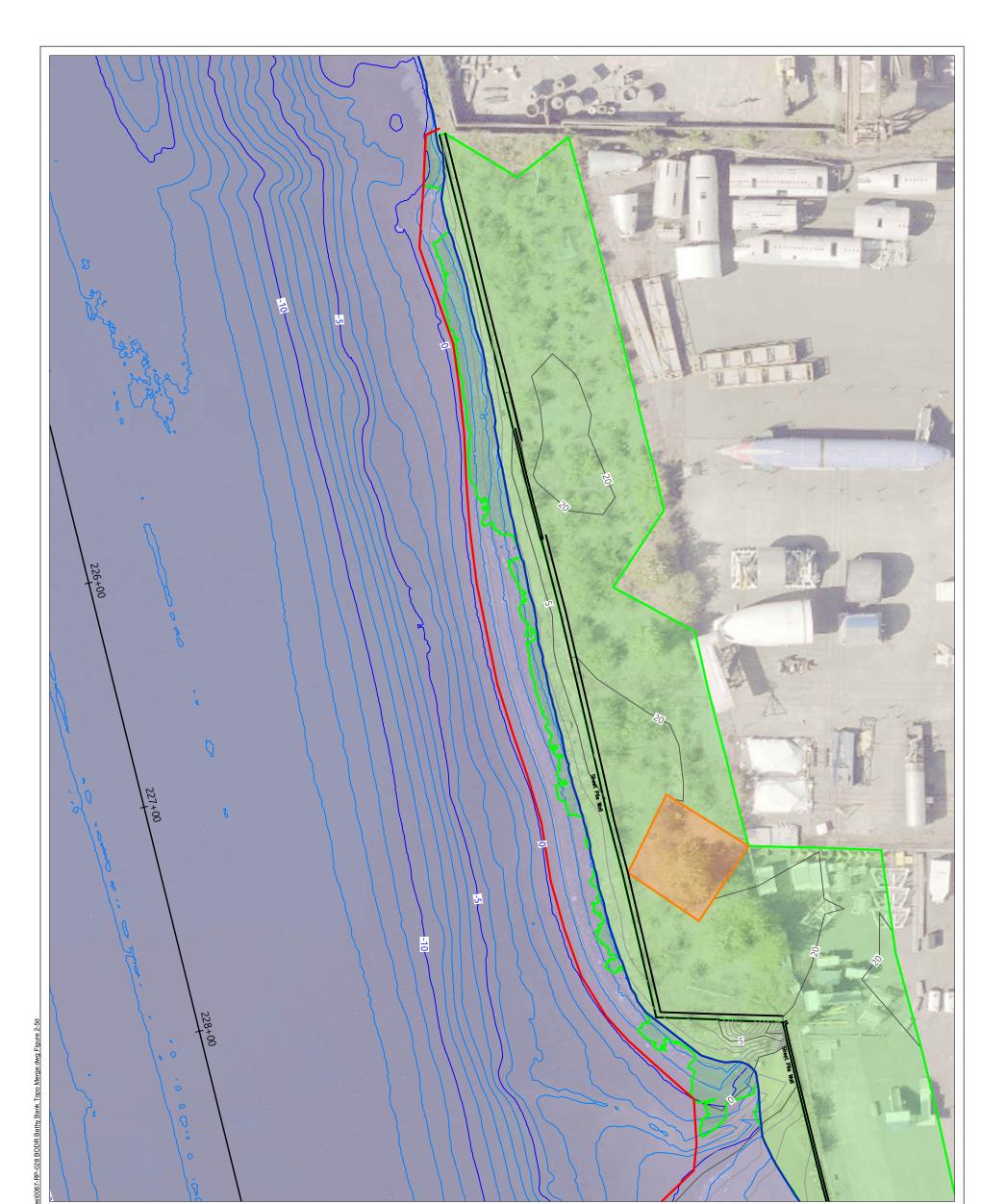


Figure 2-5c. Bathymetric/topographic merging plan

90% REMEDIAL DESIGN BASIS of DESIGN REPORT FOR THE LDW UPPER REACH





Source: Topographic survey by True North Land Surveying, Inc. performed between June 30, 2021, and August 10, 2021. Additional survey by True North performed on October 5 and 6, 2022. Bathymetric survey by Northwest Hydro performed between April 18, 2019, and May 15, 2019. Additional survey by Northwest Hydro performed June 2020. LiDAR survey from Puget Sound LiDAR Consortium dated 2016. Composite data updated December 2020 and November 2022.

Horizontal Datum: Washington State Plane, North Zone, NAD83 (2011), U.S. Survey Feet; WSDOT MON GP17005-176 & GP17005-181

Vertical Datum: Mean Lower Low Water (MLLW), MLLW converted from NAVD88 (NAVD88 + 2.34' to MLLW)

Legend:



2019/2020 Northwest Hydro bathymetric survey extent

2021/2022 True North bank topographic survey extent (not shown where bathymetric survey overrides topo)

Data gap filled via interpolation

Area where bathymetric survey overrides topographic survey

Bathymetric survey contours (1' & 5' intervals)

Topographic survey contours (1' & 5' intervals)

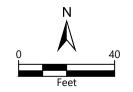
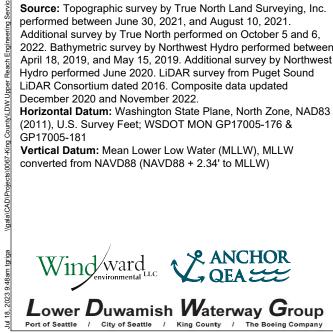
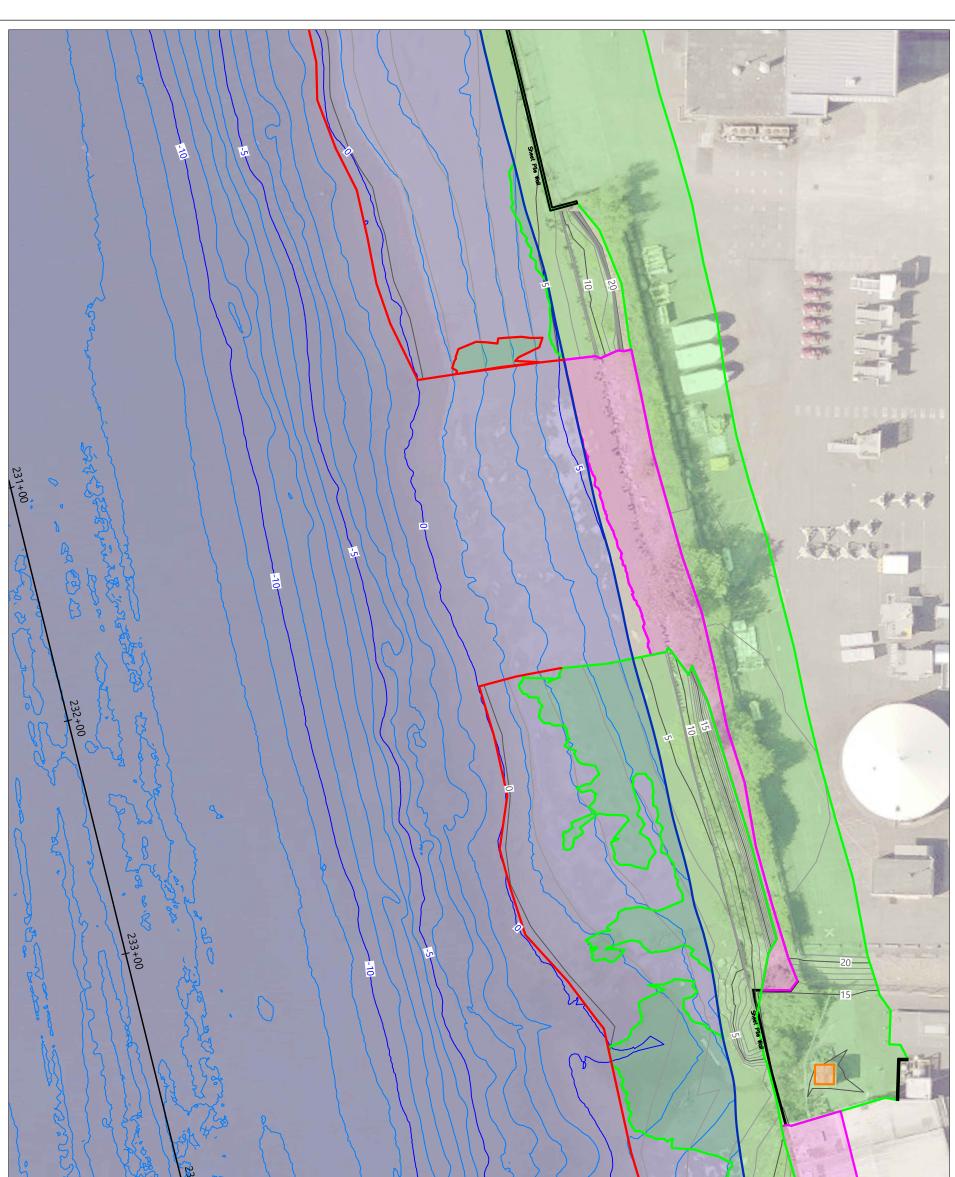


Figure 2-5d. Bathymetric/topographic merging plan

90% REMEDIAL DESIGN BASIS of DESIGN REPORT FOR THE LDW UPPER REACH







 $\textbf{Source:} \ \mbox{Topographic survey by True North Land Surveying, Inc.}$ performed between June 30, 2021, and August 10, 2021. Additional survey by True North performed on October 5 and 6, 2022. Bathymetric survey by Northwest Hydro performed between April 18, 2019, and May 15, 2019. Additional survey by Northwest Hydro performed June 2020. LiDAR survey from Puget Sound LiDAR Consortium dated 2016. Composite data updated December 2020 and November 2022.

0

Horizontal Datum: Washington State Plane, North Zone, NAD83 (2011), U.S. Survey Feet; WSDOT MON GP17005-176 & GP17005-181

Vertical Datum: Mean Lower Low Water (MLLW), MLLW converted from NAVD88 (NAVD88 + 2.34' to MLLW)

Legend:



2019/2020 Northwest Hydro bathymetric survey extent

2021/2022 True North bank topographic survey extent (not shown where bathymetric survey overrides topo)

2016 Puget Sound LiDAR Consortium Survey LiDAR data (used to fill in gap between bathymetric and topographic surveys)

Data gap filled via interpolation

Area where bathymetric survey overrides topographic survey

Bathymetric survey contours (1' & 5' Intervals)

Topographic survey contours (1' & 5' Intervals)

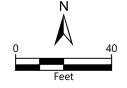
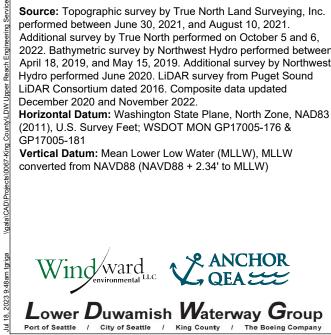
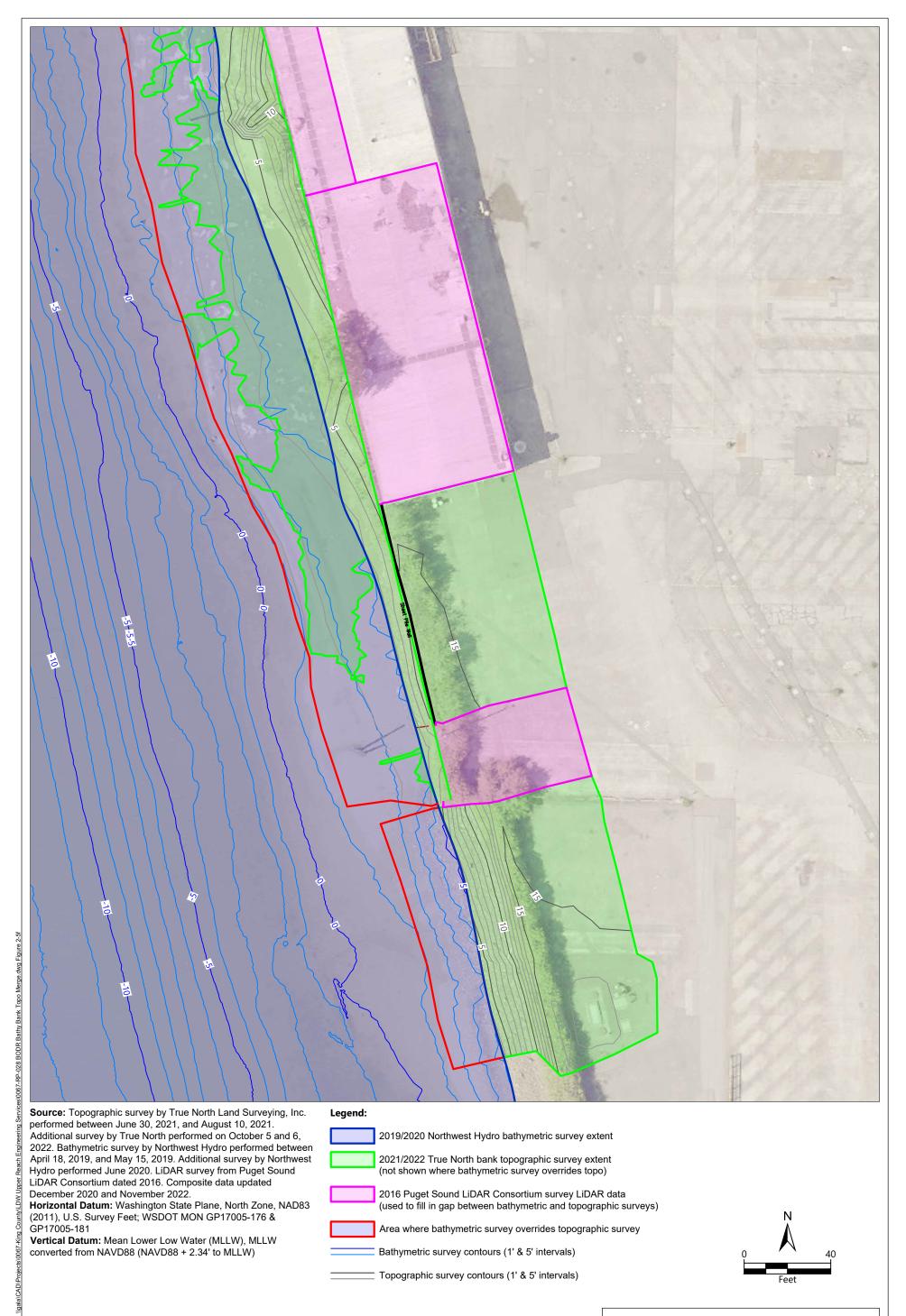


Figure 2-5e. Bathymetric/topographic merging plan

90% REMEDIAL DESIGN BASIS of DESIGN REPORT FOR THE LDW UPPER REACH





Source: Topographic survey by True North Land Surveying, Inc. performed between June 30, 2021, and August 10, 2021. Legend: Additional survey by True North performed on October 5 and 6, 2019/2020 Northwest Hydro bathymetric survey extent 2022. Bathymetric survey by Northwest Hydro performed between April 18, 2019, and May 15, 2019. Additional survey by Northwest Hydro performed June 2020. LiDAR survey from Puget Sound LiDAR Consortium dated 2016. Composite data updated 2021/2022 True North bank topographic survey extent (not shown where bathymetric survey overrides topo) December 2020 and November 2022. 2016 Puget Sound LiDAR Consortium survey LiDAR data Horizontal Datum: Washington State Plane, North Zone, NAD83 (used to fill in gap between bathymetric and topographic surveys) (2011), U.S. Survey Feet; WSDOT MON GP17005-176 & GP17005-181 Area where bathymetric survey overrides topographic survey Vertical Datum: Mean Lower Low Water (MLLW), MLLW Bathymetric survey contours (1' & 5' intervals) converted from NAVD88 (NAVD88 + 2.34' to MLLW) Topographic survey contours (1' & 5' intervals) Jul 18, 2023 9:49am tgriga

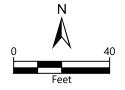
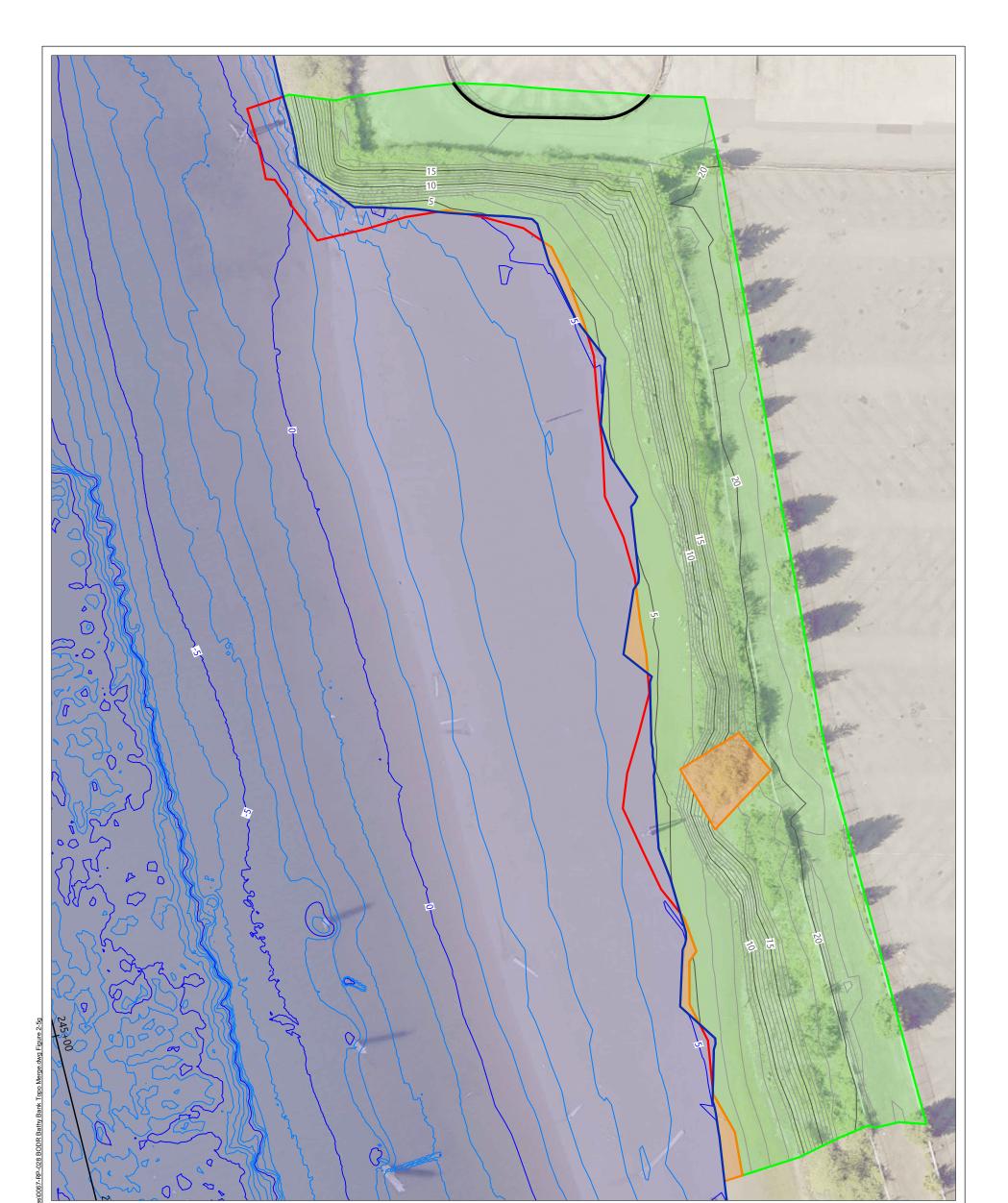


Figure 2-5f. Bathymetric/topographic merging plan

90% REMEDIAL DESIGN BASIS of DESIGN REPORT FOR THE LDW UPPER REACH





Source: Topographic survey by True North Land Surveying, Inc. performed between June 30, 2021, and August 10, 2021. Additional survey by True North performed on October 5 and 6, Additional survey by Fride North performed on October 3 and 0, 2022. Bathymetric survey by Northwest Hydro performed between April 18, 2019, and May 15, 2019. Additional survey by Northwest Hydro performed June 2020. LiDAR survey from Puget Sound LiDAR Consortium dated 2016. Composite data updated December 2020 and November 2022.

Horizontal Datum: Washington State Plane, North Zone, NAD83 (2011), U.S. Survey Feet; WSDOT MON GP17005-176 & GP17005-181

Vertical Datum: Mean Lower Low Water (MLLW), MLLW converted from NAVD88 (NAVD88 + 2.34' to MLLW)

Legend:



2019/2020 Northwest Hydro bathymetric survey extent

2021/2022 True North bank topographic survey extent (not shown where bathymetric survey overrides topo)

Data gap filled via interpolation

Area where bathymetric survey overrides topographic survey

Bathymetric survey contours (1' & 5' intervals)

Topographic survey contours (1' & 5' intervals)

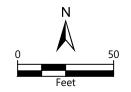
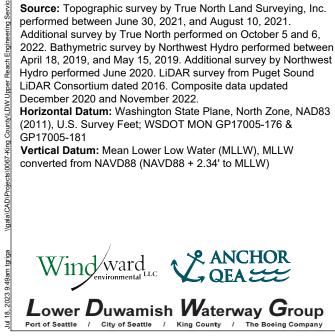
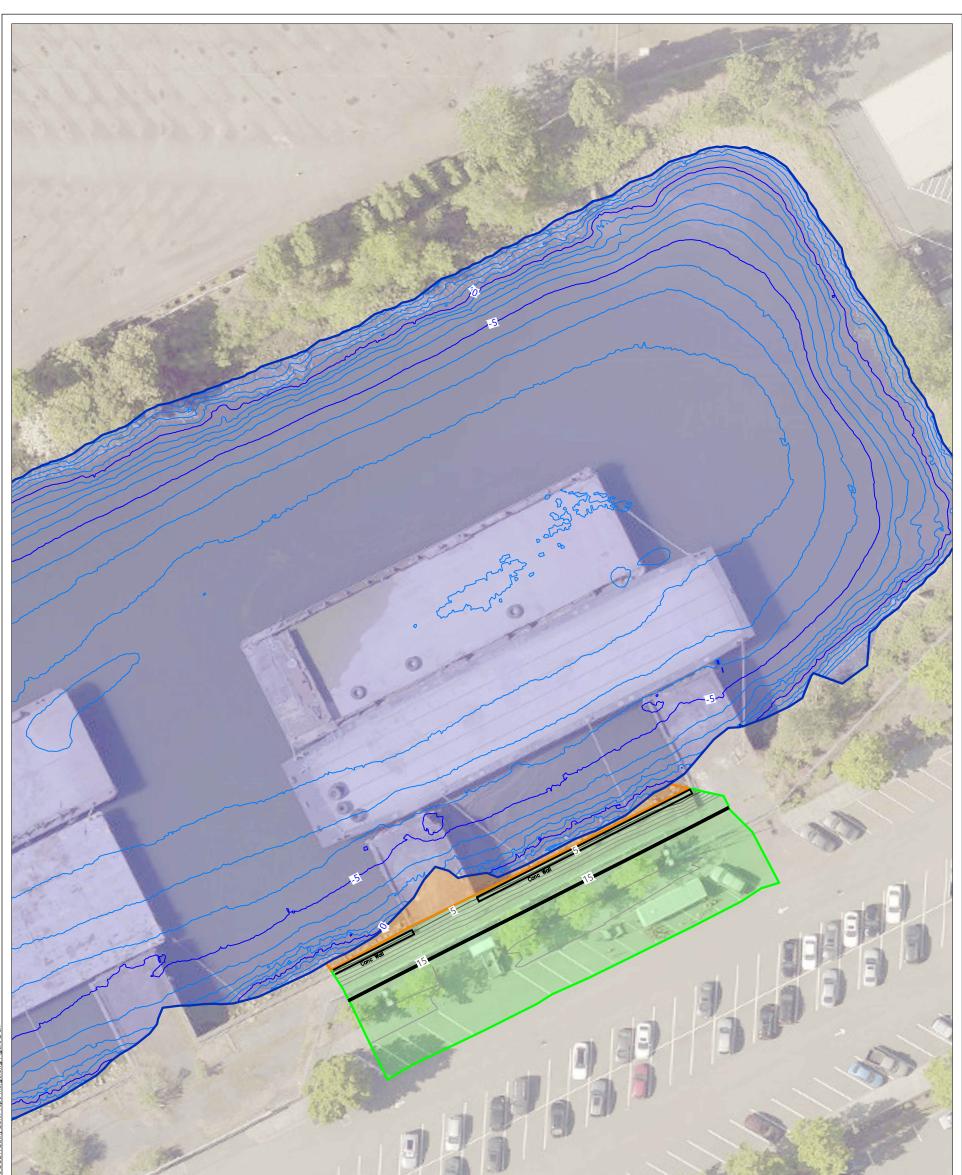


Figure 2-5g. Bathymetric/topographic merging plan

90% REMEDIAL DESIGN BASIS of DESIGN REPORT FOR THE LDW UPPER REACH





Source: Topographic survey by True North Land Surveying, Inc. performed between June 30, 2021, and August 10, 2021. Additional survey by True North performed on October 5 and 6, 2022. Bathymetric survey by Northwest Hydro performed between April 18, 2019, and May 15, 2019. Additional survey by Northwest Hydro performed June 2020. LiDAR survey from Puget Sound LiDAR Consortium dated 2016. Composite data updated December 2020 and November 2022.

Horizontal Datum: Washington State Plane, North Zone, NAD83 (2011), U.S. Survey Feet; WSDOT MON GP17005-176 & GP17005-181

Vertical Datum: Mean Lower Low Water (MLLW), MLLW converted from NAVD88 (NAVD88 + 2.34' to MLLW)

Legend:



2019/2020 Northwest Hydro bathymetric survey extent

2021/2022 True North bank topographic survey extent (not shown where bathymetric survey overrides topo)

Data gap filled via interpolation

Area where bathymetric survey overrides topographic survey

Bathymetric survey contours (1' & 5' intervals)

Topographic survey contours (1' & 5' intervals)

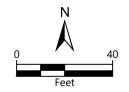
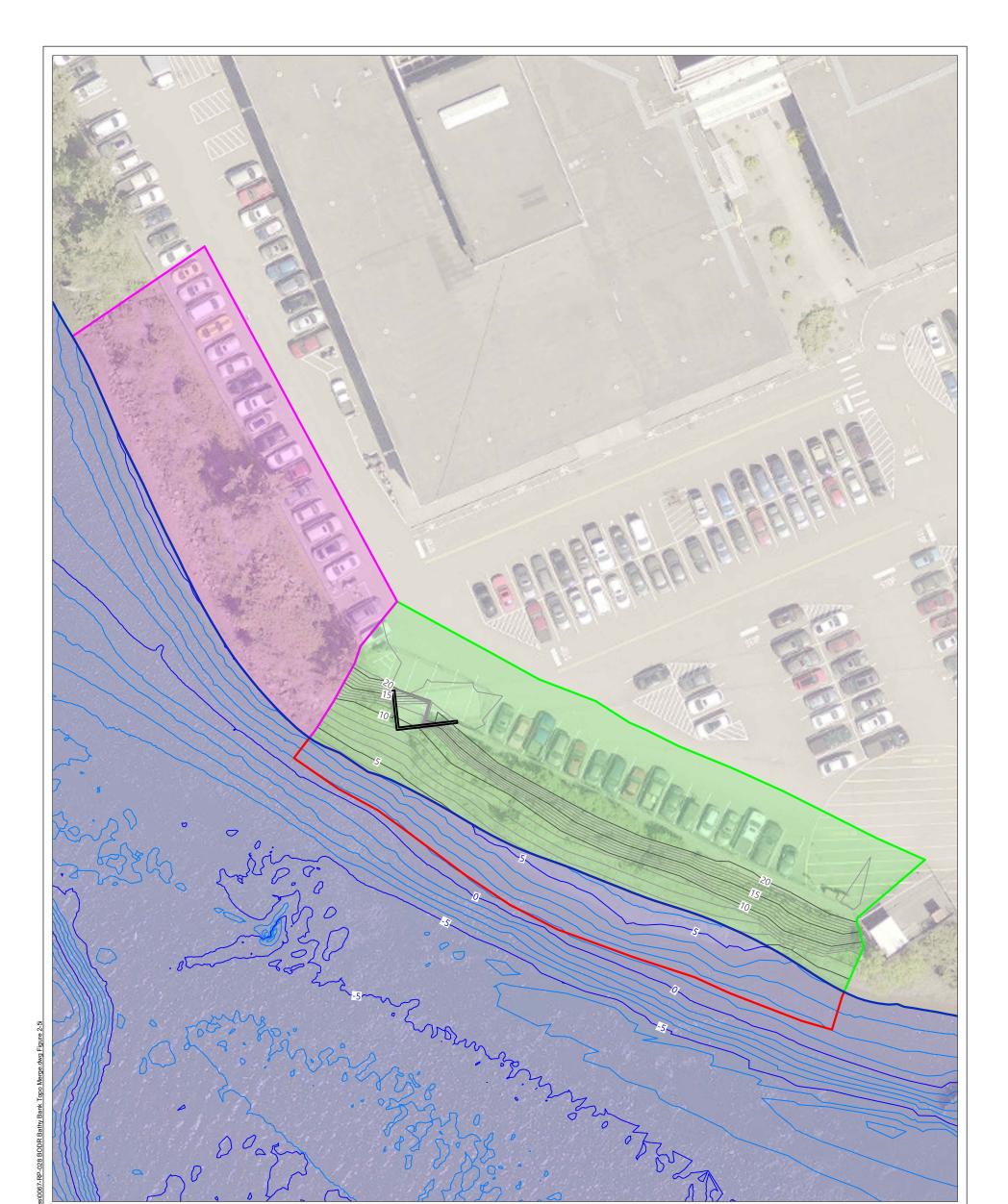


Figure 2-5h. Bathymetric/topographic merging plan

90% REMEDIAL DESIGN BASIS OF DESIGN REPORT FOR THE LDW UPPER REACH





Source: Topographic survey by True North Land Surveying, Inc. performed between June 30, 2021, and August 10, 2021. Additional survey by True North performed on October 5 and 6, 2022. Bathymetric survey by Northwest Hydro performed between April 18, 2019, and May 15, 2019. Additional survey by Northwest Hydro performed June 2020. LiDAR survey from Puget Sound LiDAR Consortium dated 2016. Composite data updated December 2020 and November 2022.

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Horizontal Datum: Washington State Plane, North Zone, NAD83 (2011), U.S. Survey Feet; WSDOT MON GP17005-176 & GP17005-181

Vertical Datum: Mean Lower Low Water (MLLW), MLLW converted from NAVD88 (NAVD88 + 2.34' to MLLW)

Legend:



2019/2020 Northwest Hydro bathymetric survey extent

2021/2022 True North bank topographic survey extent (not shown where bathymetric survey overrides topo)

2016 Puget Sound LiDAR Consortium survey LiDAR data (used to fill in gap between bathymetric and topographic surveys)

Area where bathymetric survey overrides topographic survey

Bathymetric survey contours (1' & 5' intervals)

Topographic survey contours (1' & 5' intervals)

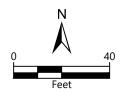
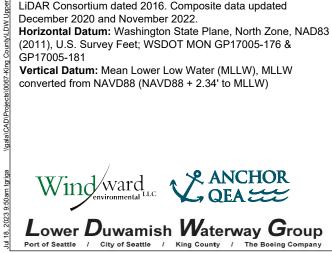


Figure 2-5i. Bathymetric/topographic merging plan

90% REMEDIAL DESIGN BASIS of DESIGN REPORT FOR THE LDW UPPER REACH



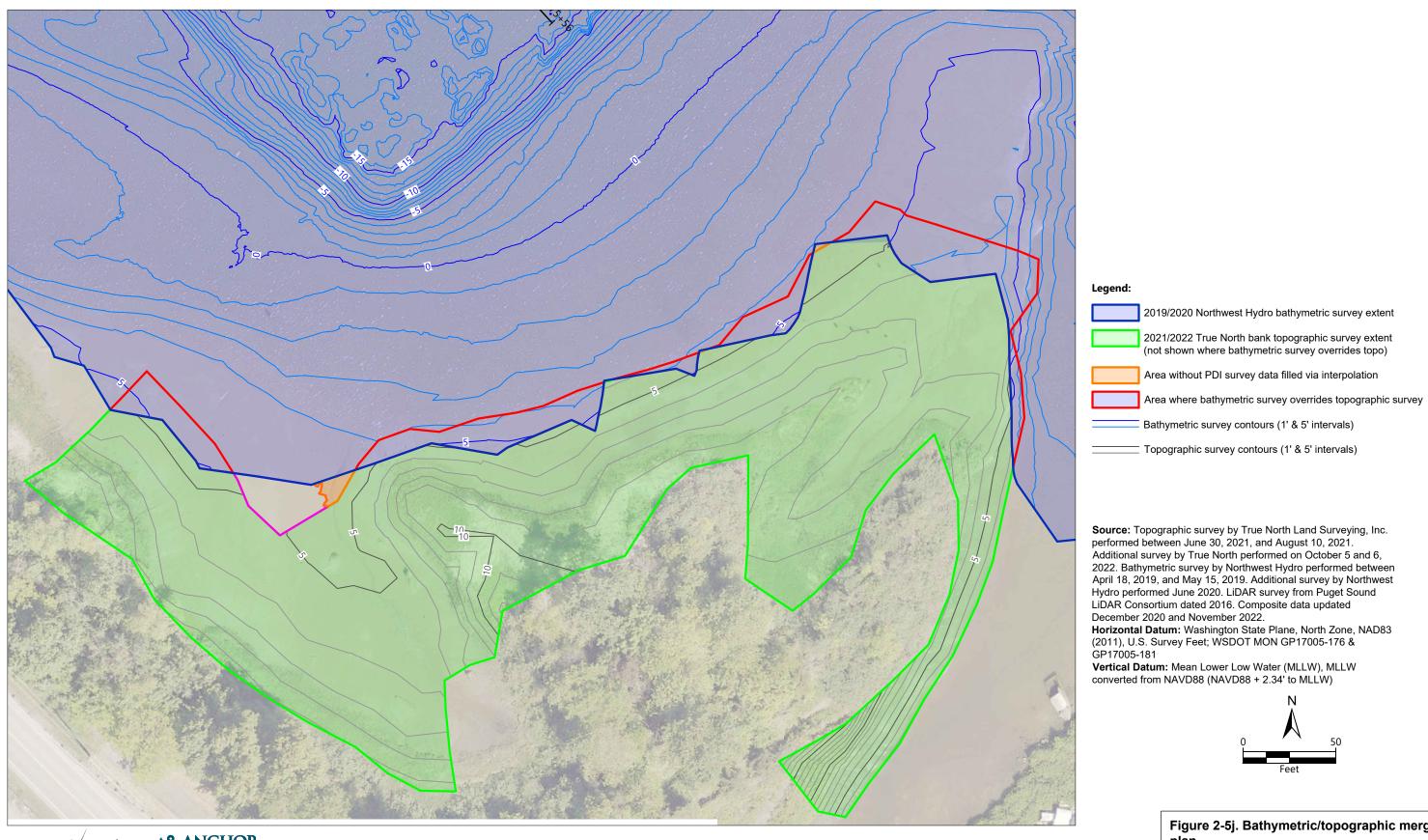
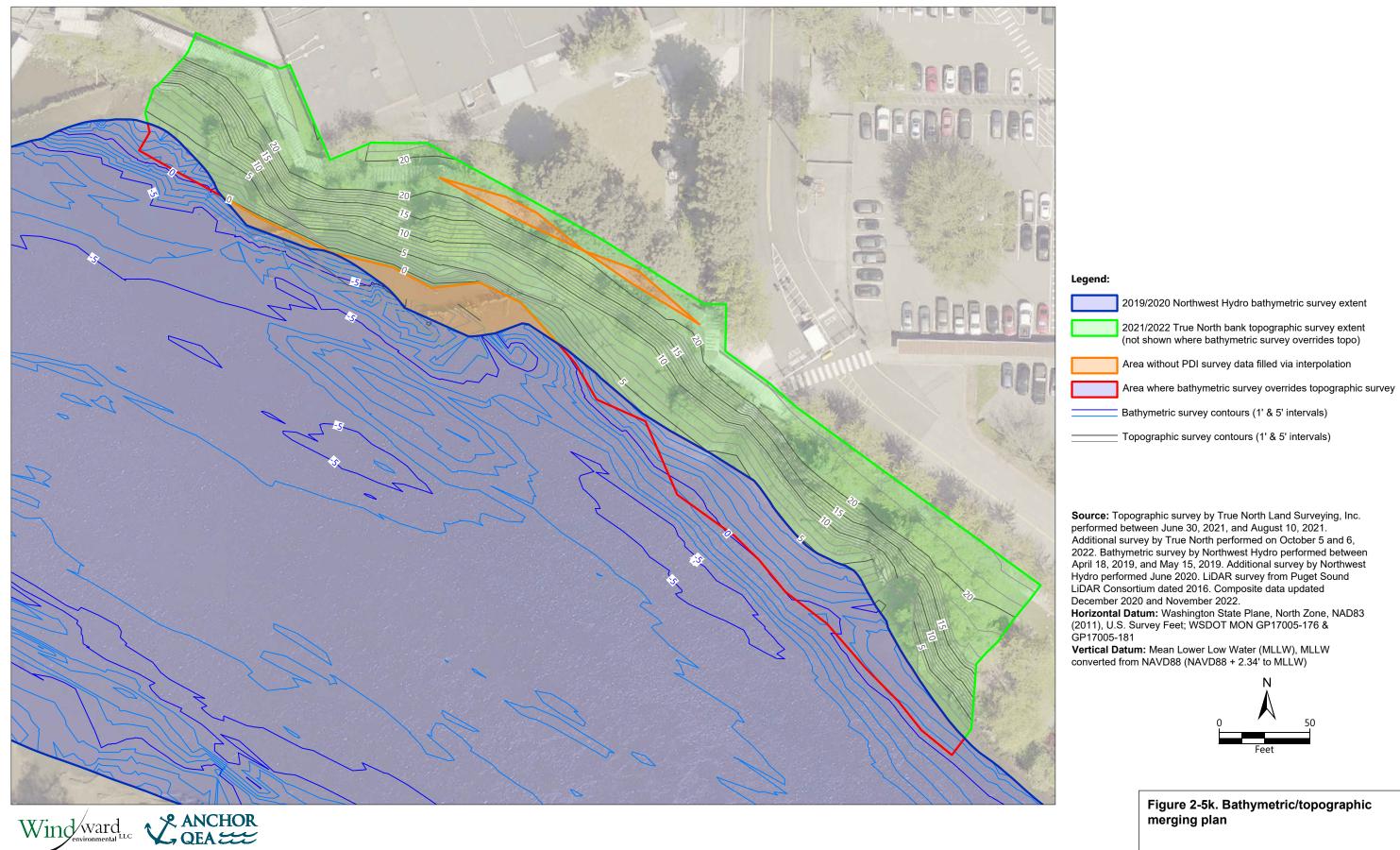




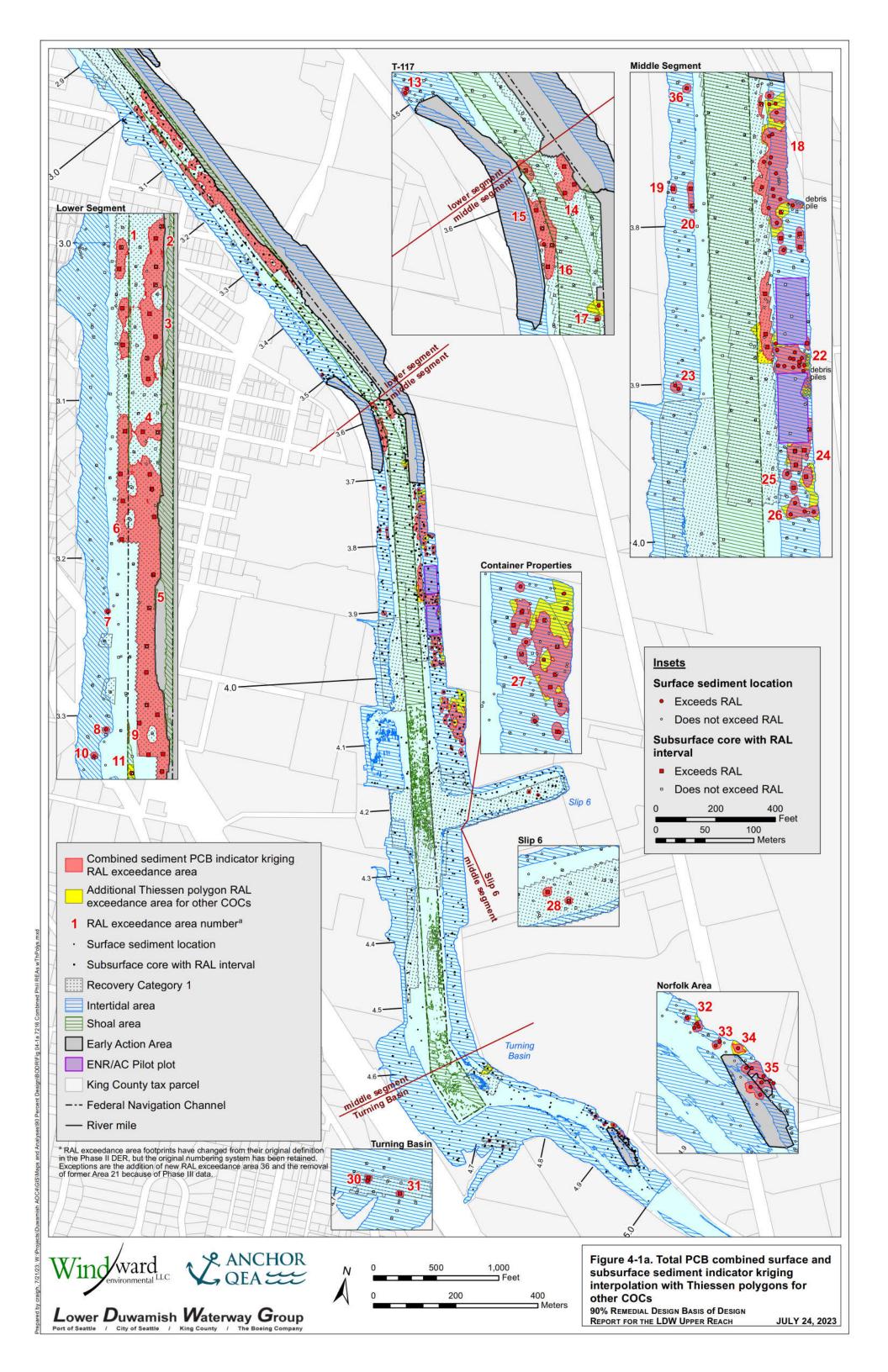
Figure 2-5j. Bathymetric/topographic merging plan

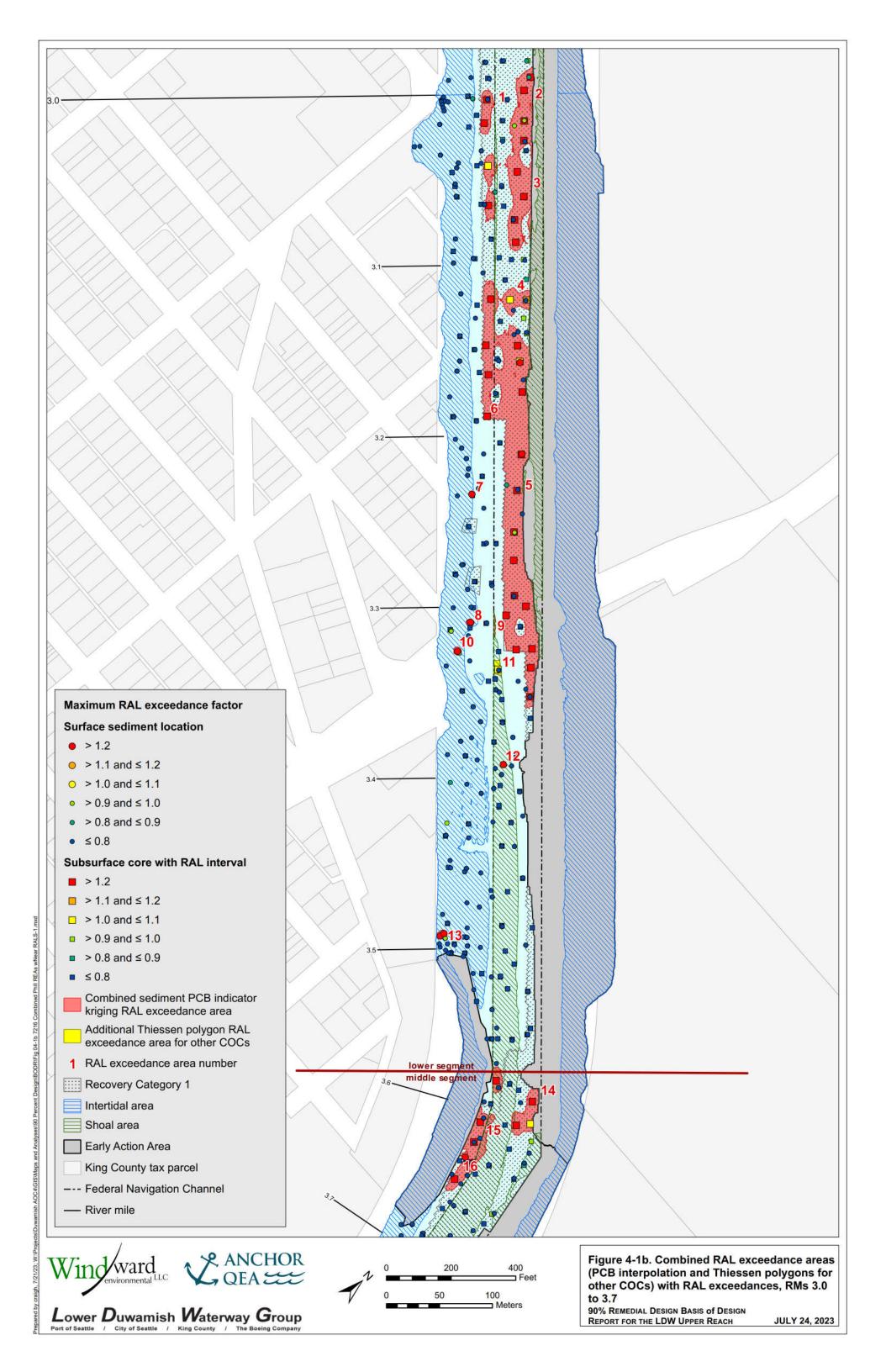
90% REMEDIAL DESIGN BASIS OF DESIGN REPORT FOR THE LDW UPPER REACH

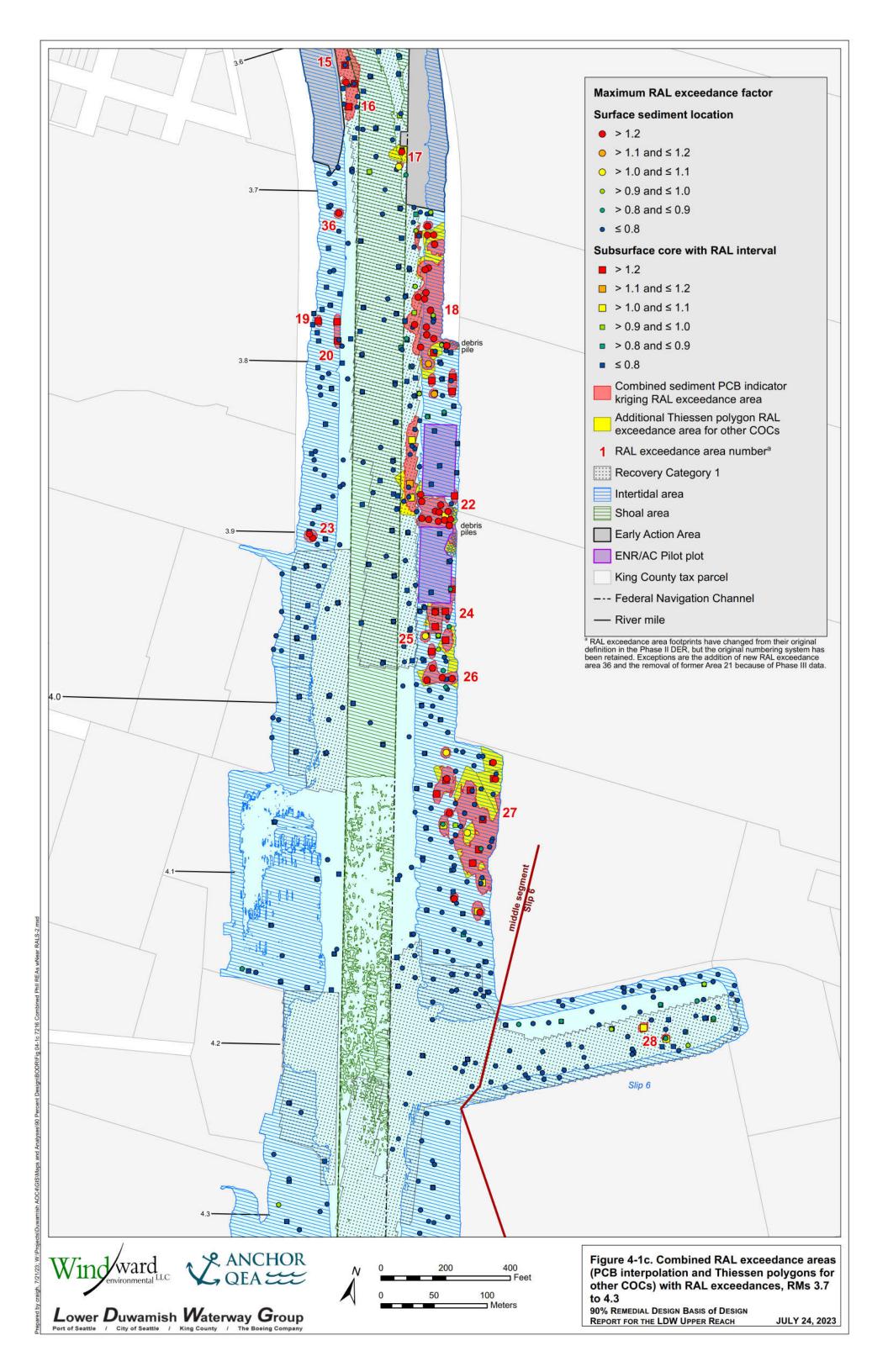


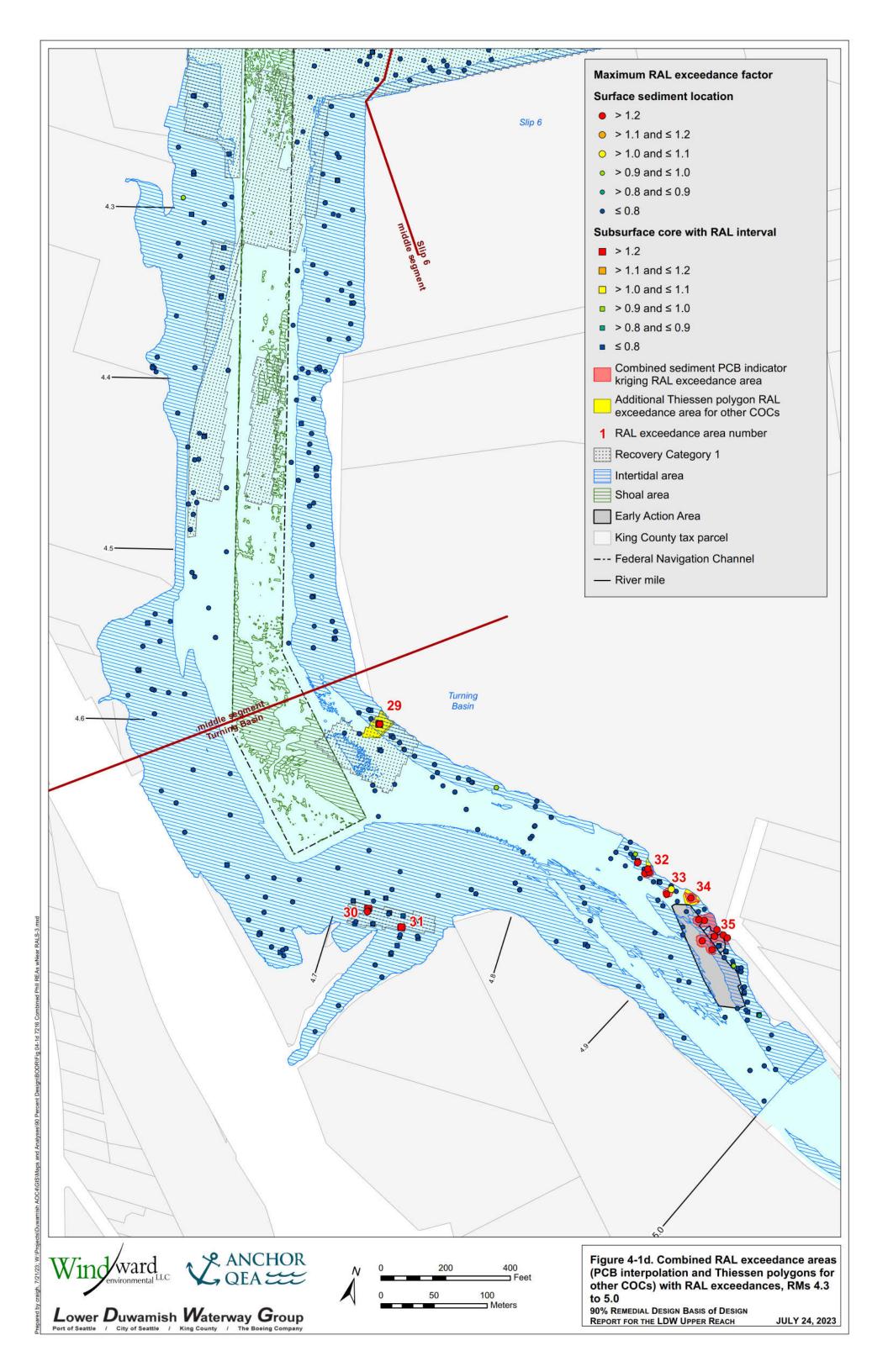


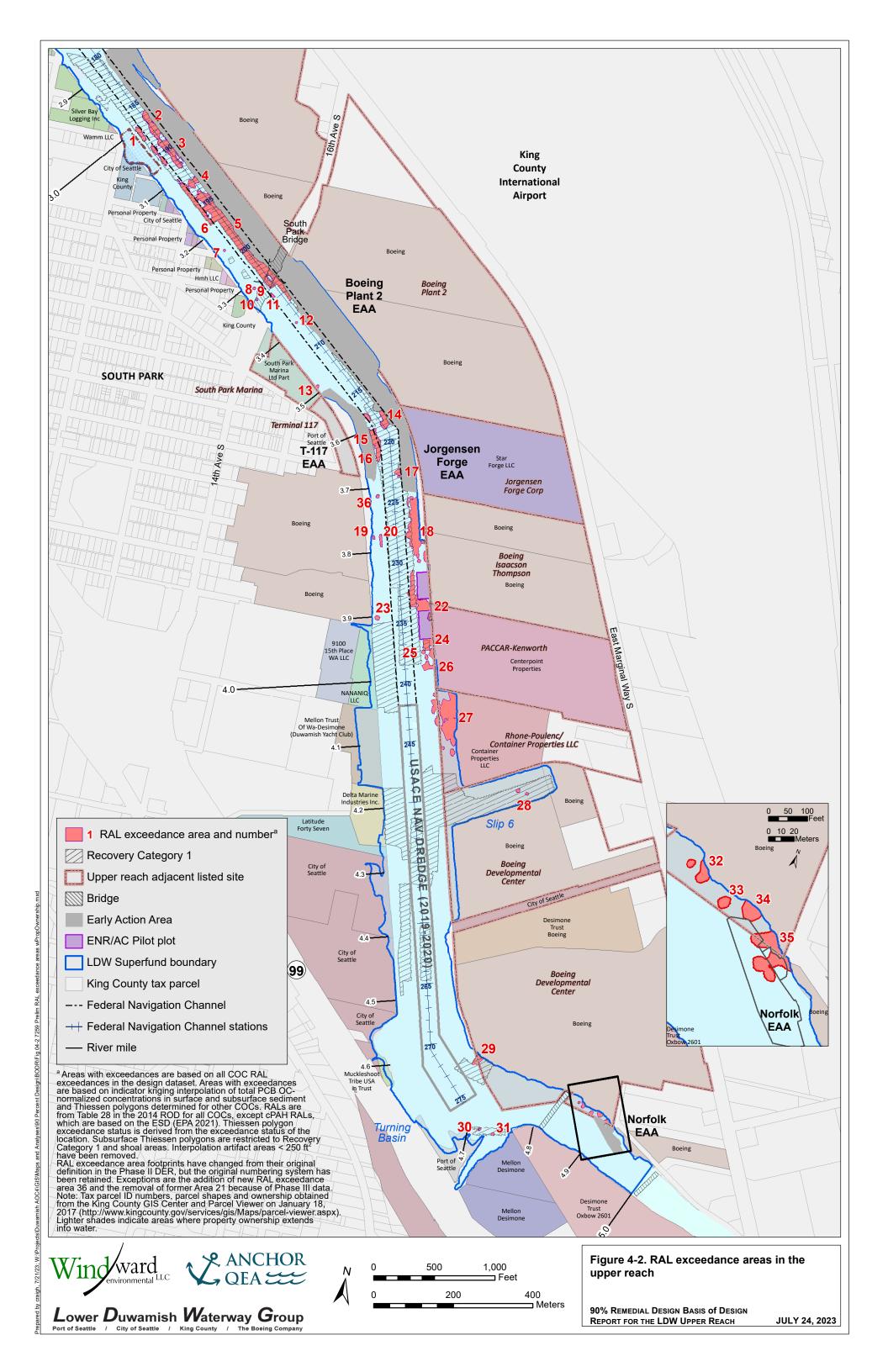
90% REMEDIAL DESIGN BASIS OF DESIGN REPORT FOR THE LDW UPPER REACH

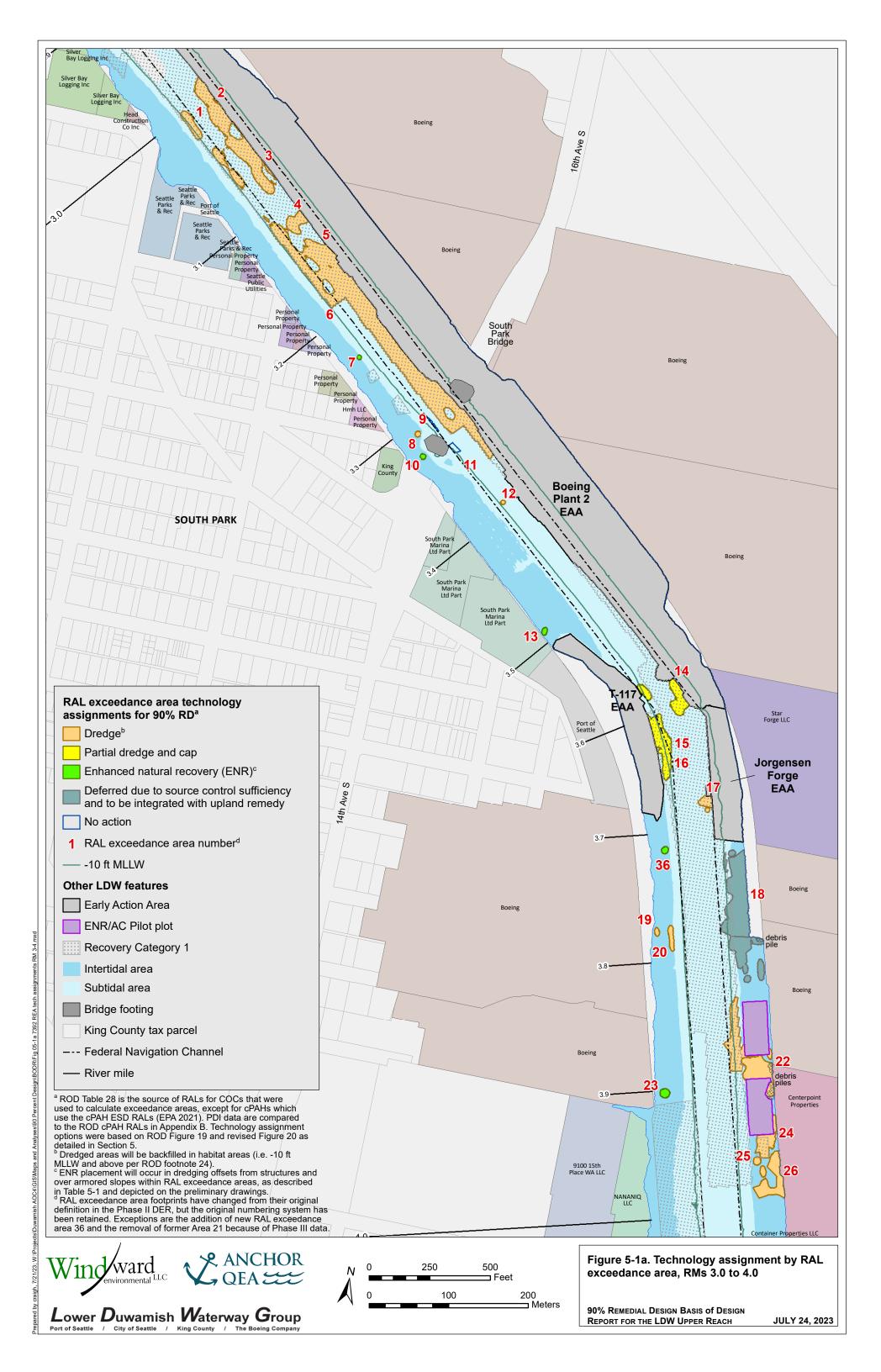


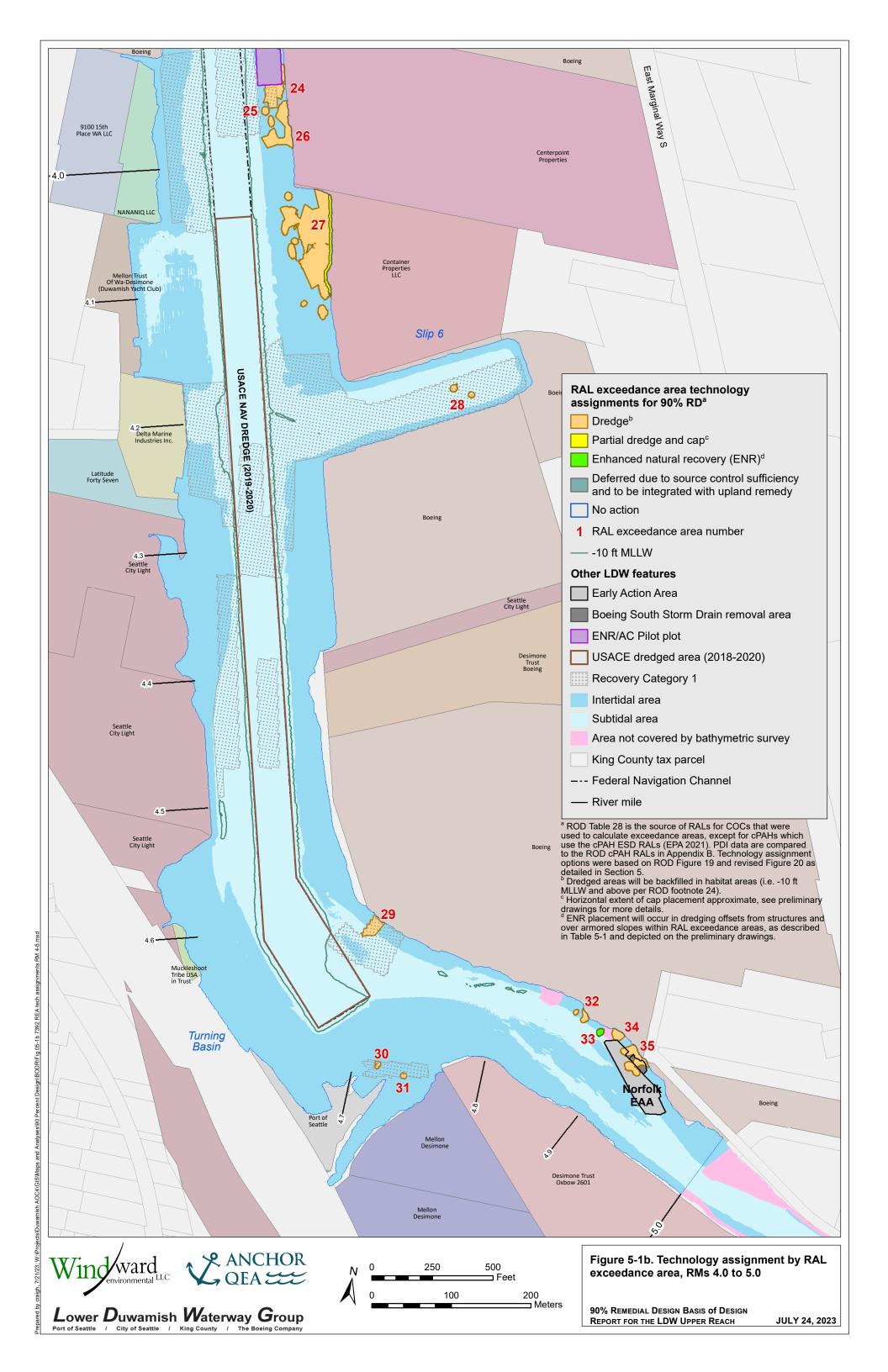


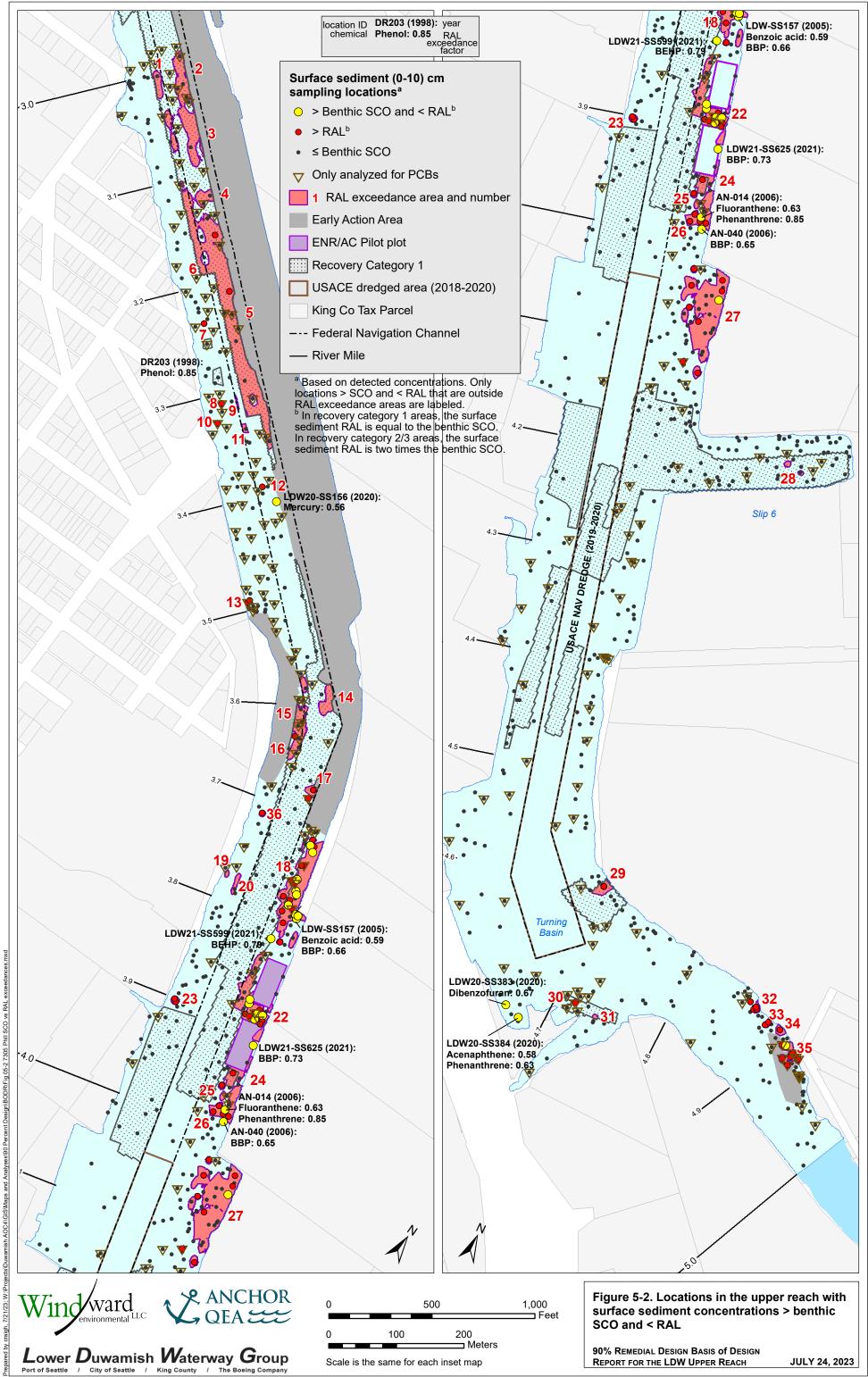




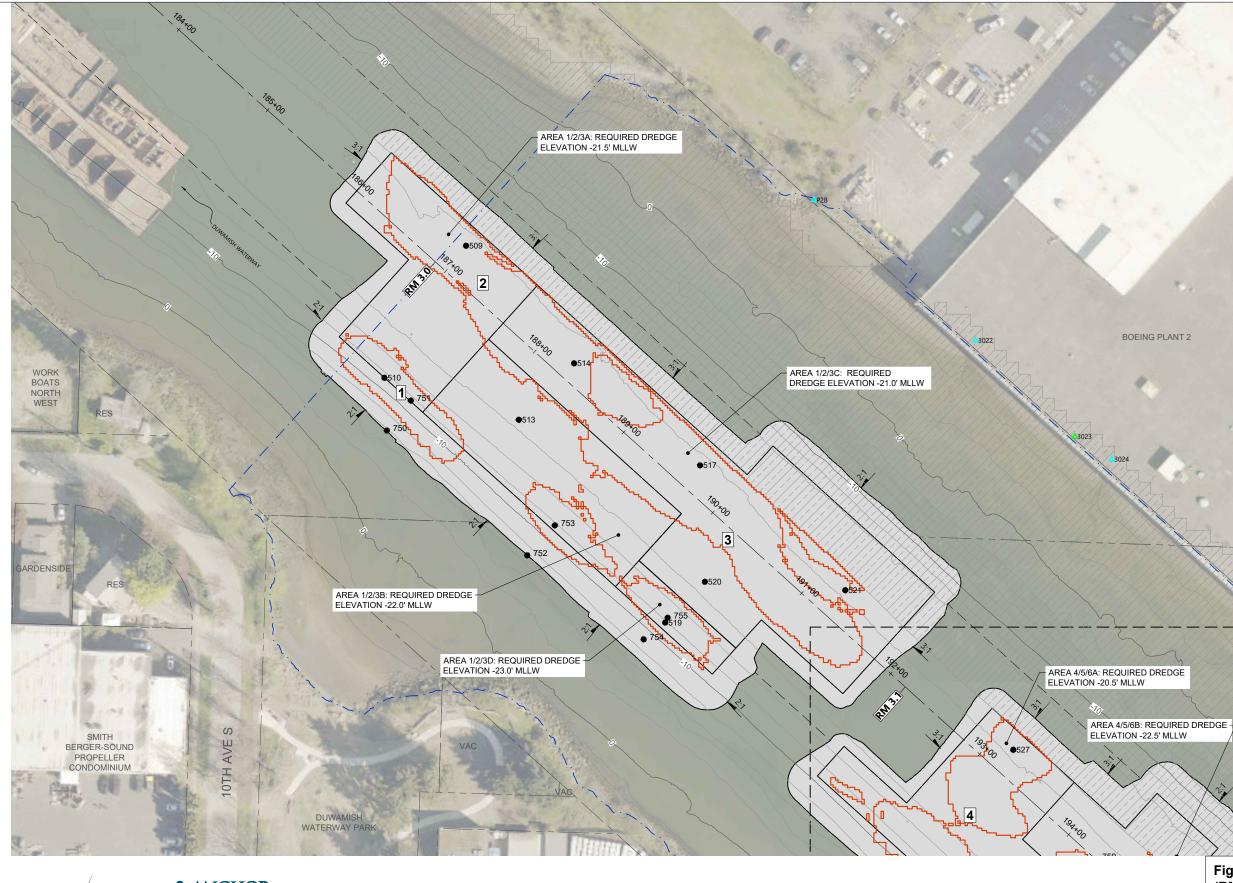




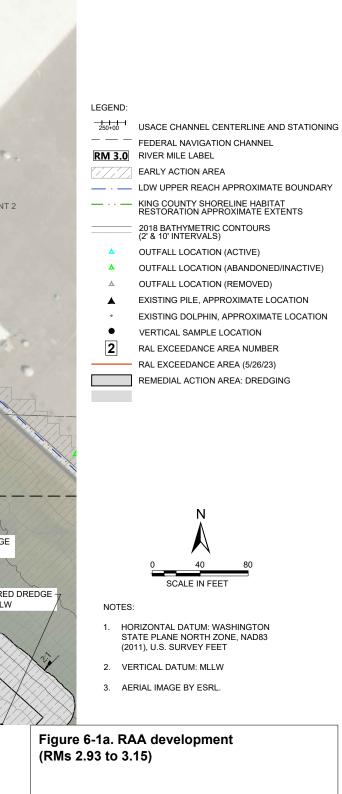




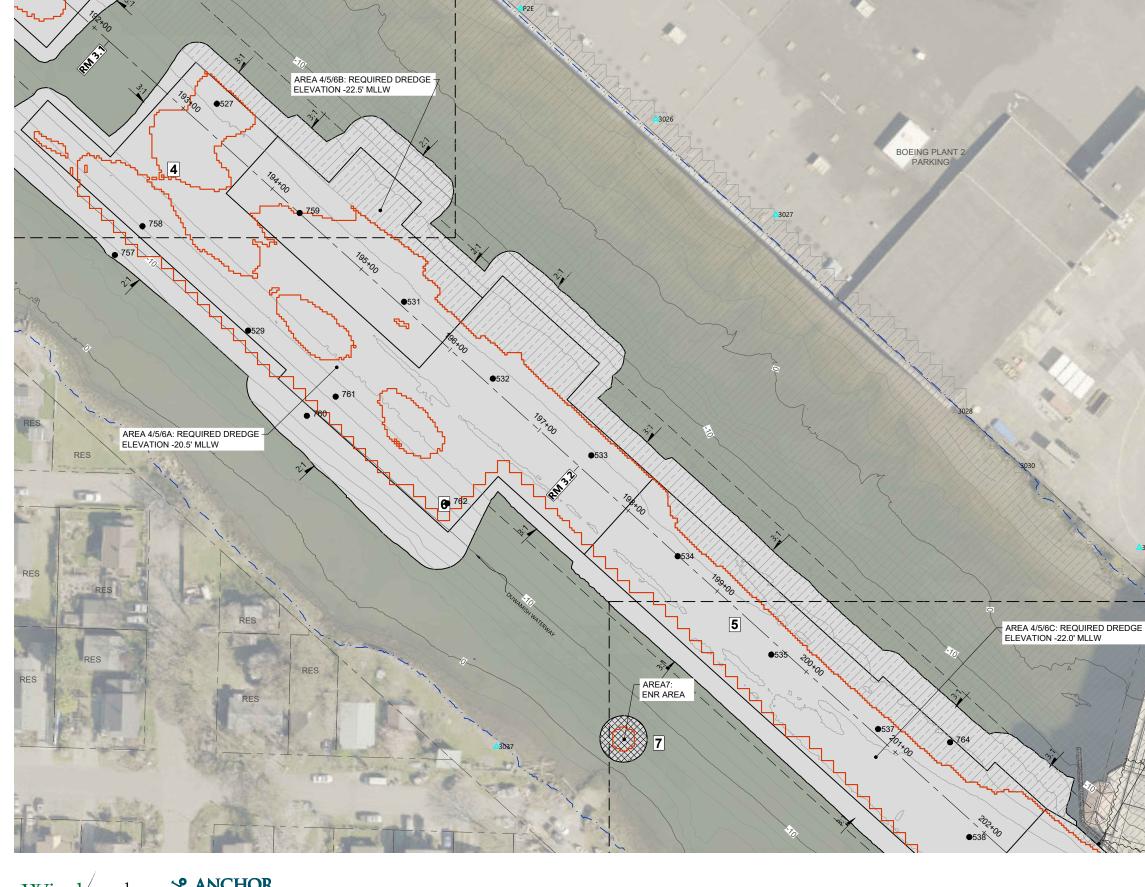
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90% REMEDIAL DESIGN BASIS OF DESIGN REPORT FOR THE LDW UPPER REACH





250+00	USACE CHANNEL CENTERLINE AND STATIONING
	FEDERAL NAVIGATION CHANNEL
RM 3.0	RIVER MILE LABEL
	EARLY ACTION AREA
<u> </u>	LDW UPPER REACH APPROXIMATE BOUNDARY
	KING COUNTY SHORELINE HABITAT RESTORATION APPROXIMATE EXTENTS
	2018 BATHYMETRIC CONTOURS (2' & 10' INTERVALS)
A	OUTFALL LOCATION (ACTIVE)
۸	OUTFALL LOCATION (ABANDONED/INACTIVE)
٨	OUTFALL LOCATION (REMOVED)
A	EXISTING PILE, APPROXIMATE LOCATION
۰	EXISTING DOLPHIN, APPROXIMATE LOCATION
٠	VERTICAL SAMPLE LOCATION
2	RAL EXCEEDANCE AREA NUMBER
	RAL EXCEEDANCE AREA (5/26/23)
	REMEDIAL ACTION AREA: DREDGING
	REMEDIAL ACTION AREA: ENR
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SCALE IN FEET

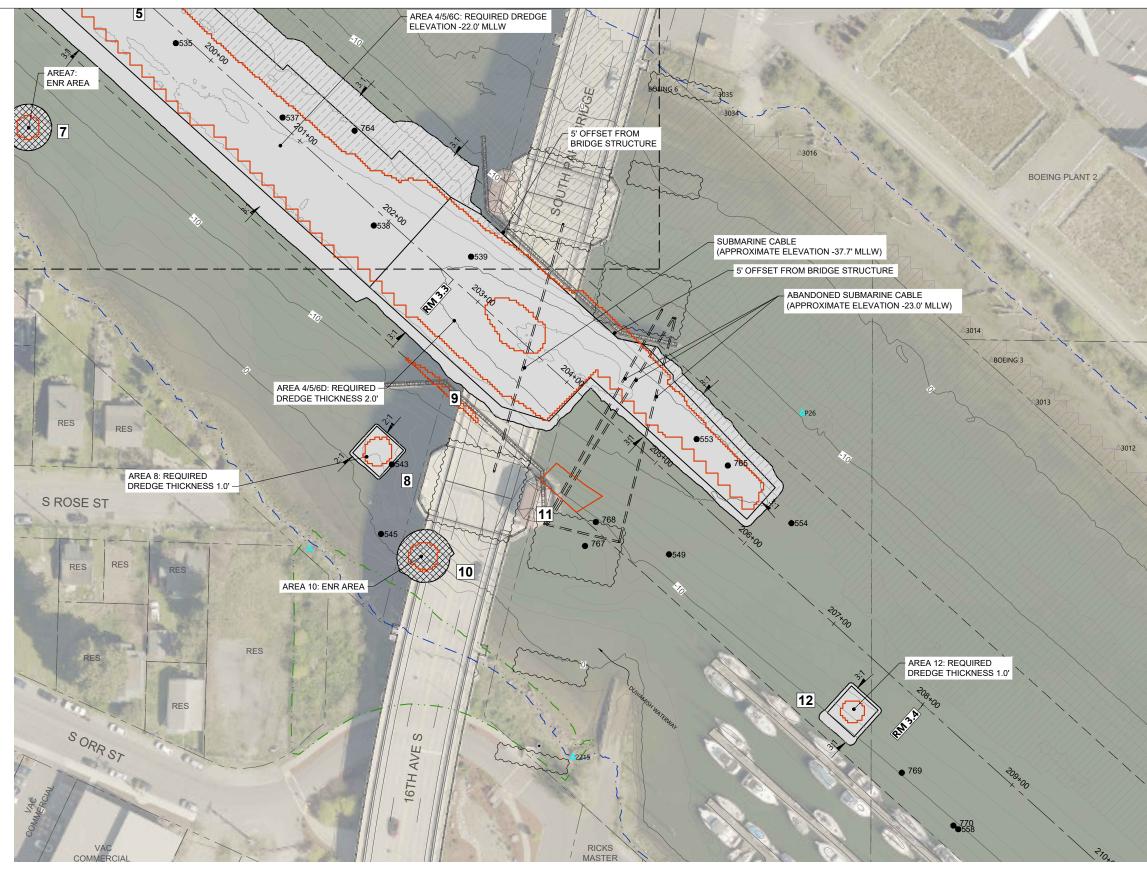
RAG 5' OFFSET FROM BRIDGE STRUCTURE



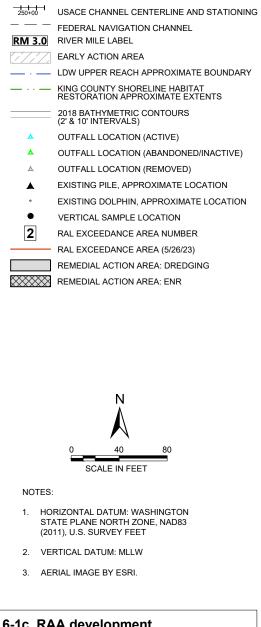
- HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET 1.
- 2. VERTICAL DATUM: MLLW
- 3. AERIAL IMAGE BY ESRI.

Figure 6-1b. RAA development (RMs 3.09 to 3.29)

90% REMEDIAL DESIGN BASIS OF DESIGN REPORT FOR THE LDW UPPER REACH







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Figure 6-1c. RAA development (RMs 3.23 to 3.44)

90% REMEDIAL DESIGN BASIS OF DESIGN REPORT FOR THE LDW UPPER REACH



250+00	USACE CHANNEL CENTERLINE AND STATIONING
	FEDERAL NAVIGATION CHANNEL
RM 3.0	RIVER MILE LABEL
	EARLY ACTION AREA
<u> </u>	LDW UPPER REACH APPROXIMATE BOUNDARY
	KING COUNTY SHORELINE HABITAT RESTORATION APPROXIMATE EXTENTS
	2018 BATHYMETRIC CONTOURS (2' & 10' INTERVALS)
٨	OUTFALL LOCATION (ACTIVE)
۸	OUTFALL LOCATION (ABANDONED/INACTIVE)
٨	OUTFALL LOCATION (REMOVED)
	EXISTING PILE, APPROXIMATE LOCATION
٥	EXISTING DOLPHIN, APPROXIMATE LOCATION
٠	VERTICAL SAMPLE LOCATION
2	RAL EXCEEDANCE AREA NUMBER
	RAL EXCEEDANCE AREA (5/26/23)
	REMEDIAL ACTION AREA: DREDGING
	REMEDIAL ACTION AREA: ENR
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- 1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
- 2. VERTICAL DATUM: MLLW
- 3. AERIAL IMAGE BY ESRI.

Figure 6-1d. RAA development (RMs 3.49 to 3.56)

90% REMEDIAL DESIGN BASIS OF DESIGN REPORT FOR THE LDW UPPER REACH



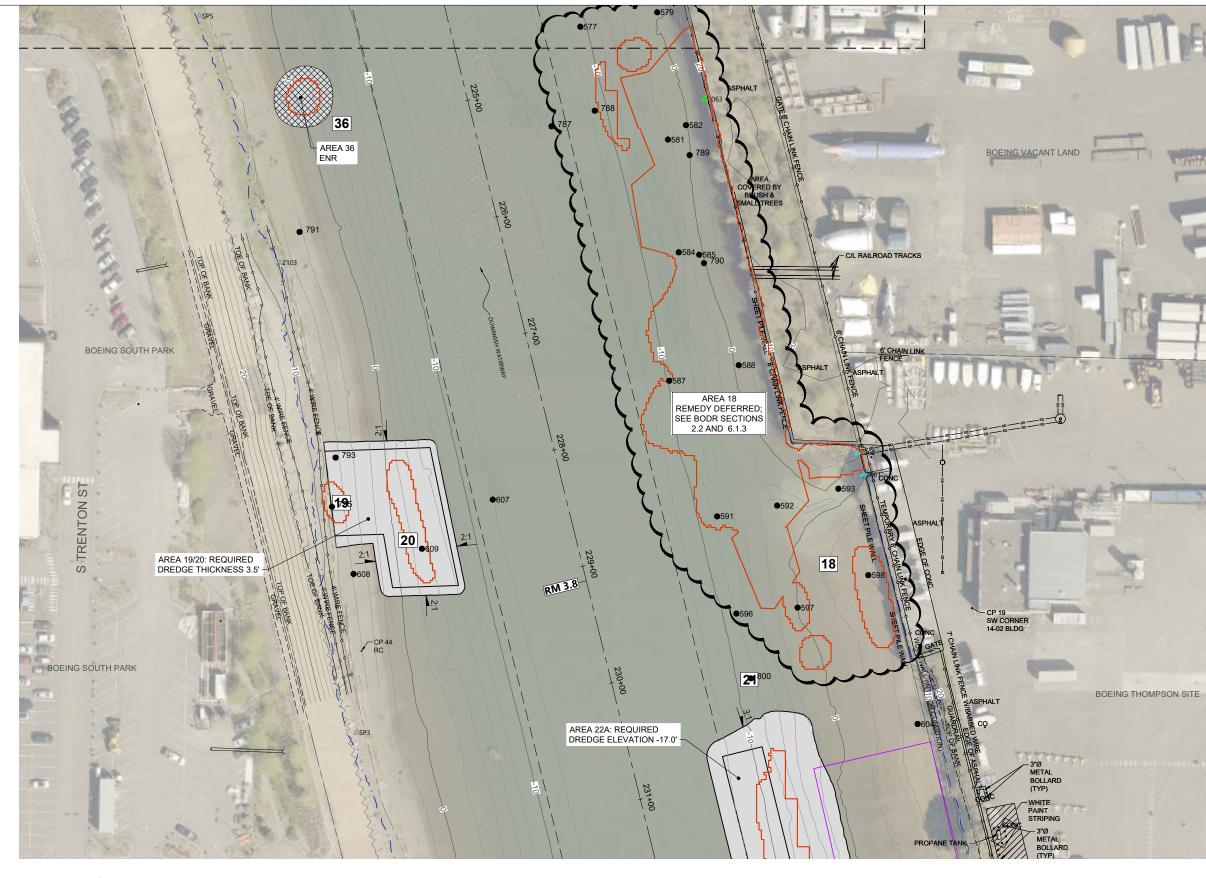
Port of Seattle / City of Seattle / King County / The Boeing Company

LEGEND:

250+0	$\frac{1}{0}$ USACE CHANNEL CENTERLINE AND STATIONING
	FEDERAL NAVIGATION CHANNEL
RM 3	3.0 RIVER MILE LABEL
	EARLY ACTION AREA
	LDW UPPER REACH APPROXIMATE BOUNDARY
	 — KING COUNTY SHORELINE HABITAT RESTORATION APPROXIMATE EXTENTS
	2018 BATHYMETRIC CONTOURS (2' & 10' INTERVALS)
A	OUTFALL LOCATION (ACTIVE)
A	OUTFALL LOCATION (ABANDONED/INACTIVE)
<u>۸</u>	OUTFALL LOCATION (REMOVED)
	EXISTING PILE, APPROXIMATE LOCATION
•	EXISTING DOLPHIN, APPROXIMATE LOCATION
•	VERTICAL SAMPLE LOCATION
2	RAL EXCEEDANCE AREA NUMBER
	RAL EXCEEDANCE AREA (5/26/23)
	REMEDIAL ACTION AREA: DREDGING
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	SCALE IN FEET
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1.	HORIZONTAL DATUM:
	WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
2.	VERTICAL DATUM: MLLW
3.	AERIAL IMAGE BY ESRI.
-	
re 6-1e.	RAA development

Figure 6-1e. RAA development (RMs 3.54 to 3.71)

90% REMEDIAL DESIGN BASIS of DESIGN REPORT FOR THE LDW UPPER REACH

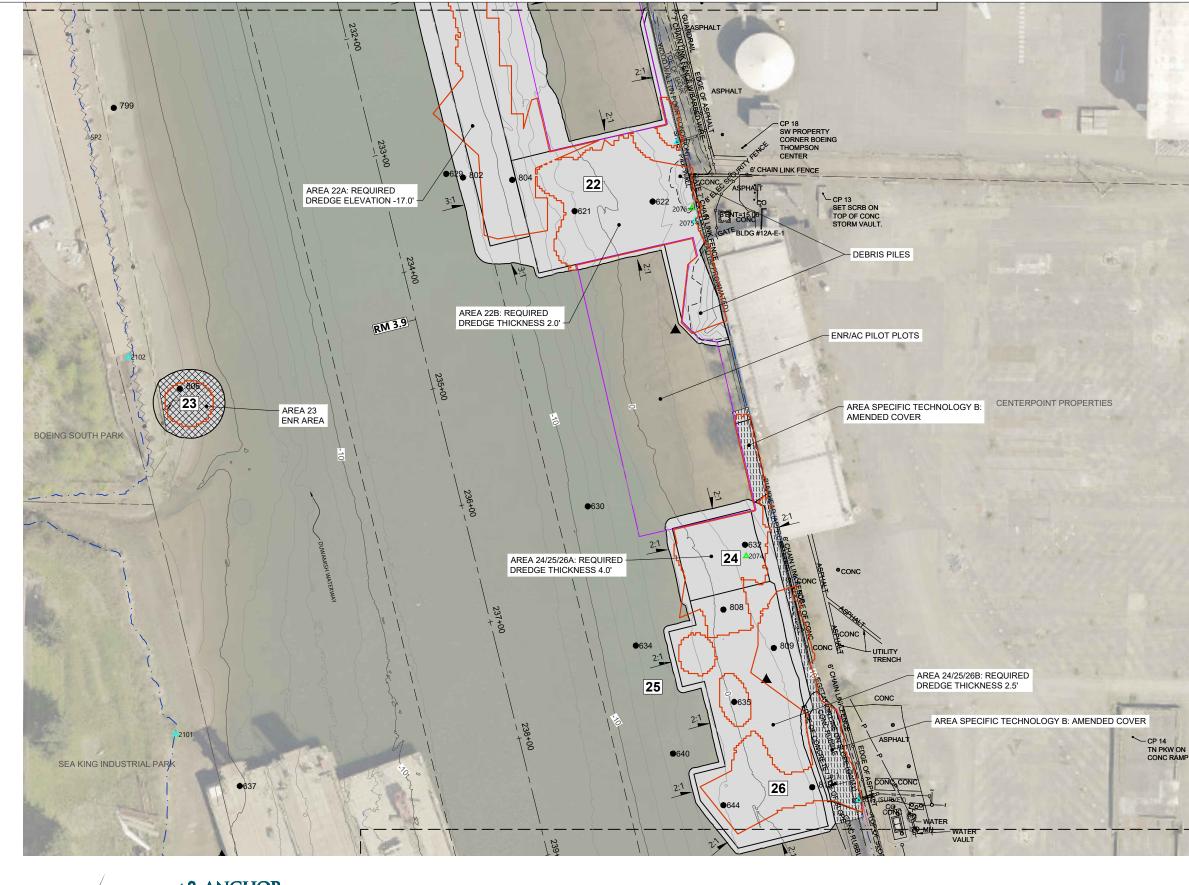




250+00	USACE CHANNEL CENTERLINE AND STATIONING
	FEDERAL NAVIGATION CHANNEL
RM 3.0	RIVER MILE LABEL
1777	EARLY ACTION AREA
	LDW UPPER REACH APPROXIMATE BOUNDARY
	KING COUNTY SHORELINE HABITAT RESTORATION APPROXIMATE EXTENTS
	2018 BATHYMETRIC CONTOURS (2' & 10' INTERVALS)
٨	OUTFALL LOCATION (ACTIVE)
٨	OUTFALL LOCATION (ABANDONED/INACTIVE)
٨	OUTFALL LOCATION (REMOVED)
A	EXISTING PILE, APPROXIMATE LOCATION
•	EXISTING DOLPHIN, APPROXIMATE LOCATION
•	VERTICAL SAMPLE LOCATION
2	RAL EXCEEDANCE AREA NUMBER
	RAL EXCEEDANCE AREA (5/26/23)
	REMEDIAL ACTION AREA: DREDGING
	REMEDIAL ACTION AREA: ENR
	Ň
	0 40 80 SCALE IN FEET
NOTES:	
ST	RIZONTAL DATUM: WASHINGTON ATE PLANE NORTH ZONE, NAD83 11), U.S. SURVEY FEET
2. VE	RTICAL DATUM: MLLW
3. AE	RIAL IMAGE BY ESRI.
● 6-1f RΔ	A development

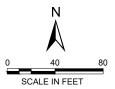
Figure 6-1f. RAA development (RMs 3.73 to 3.84)

90% REMEDIAL DESIGN BASIS OF DESIGN REPORT FOR THE LDW UPPER REACH





250+00	USACE CHANNEL CENTERLINE AND STATIONING
	FEDERAL NAVIGATION CHANNEL
RM 3.0	RIVER MILE LABEL
	EARLY ACTION AREA
<u> </u>	LDW UPPER REACH APPROXIMATE BOUNDARY
	KING COUNTY SHORELINE HABITAT RESTORATION APPROXIMATE EXTENTS
	2018 BATHYMETRIC CONTOURS (2' & 10' INTERVALS)
A	OUTFALL LOCATION (ACTIVE)
۸	OUTFALL LOCATION (ABANDONED/INACTIVE)
4	OUTFALL LOCATION (REMOVED)
▲	EXISTING PILE, APPROXIMATE LOCATION
٥	EXISTING DOLPHIN, APPROXIMATE LOCATION
٠	VERTICAL SAMPLE LOCATION
2	RAL EXCEEDANCE AREA NUMBER
	RAL EXCEEDANCE AREA (5/26/23)
	REMEDIAL ACTION AREA: DREDGING
	REMEDIAL ACTION AREA: ENR
	REMEDIAL ACTION AREA: AREA-SPECIFIC TECHNOLOGY

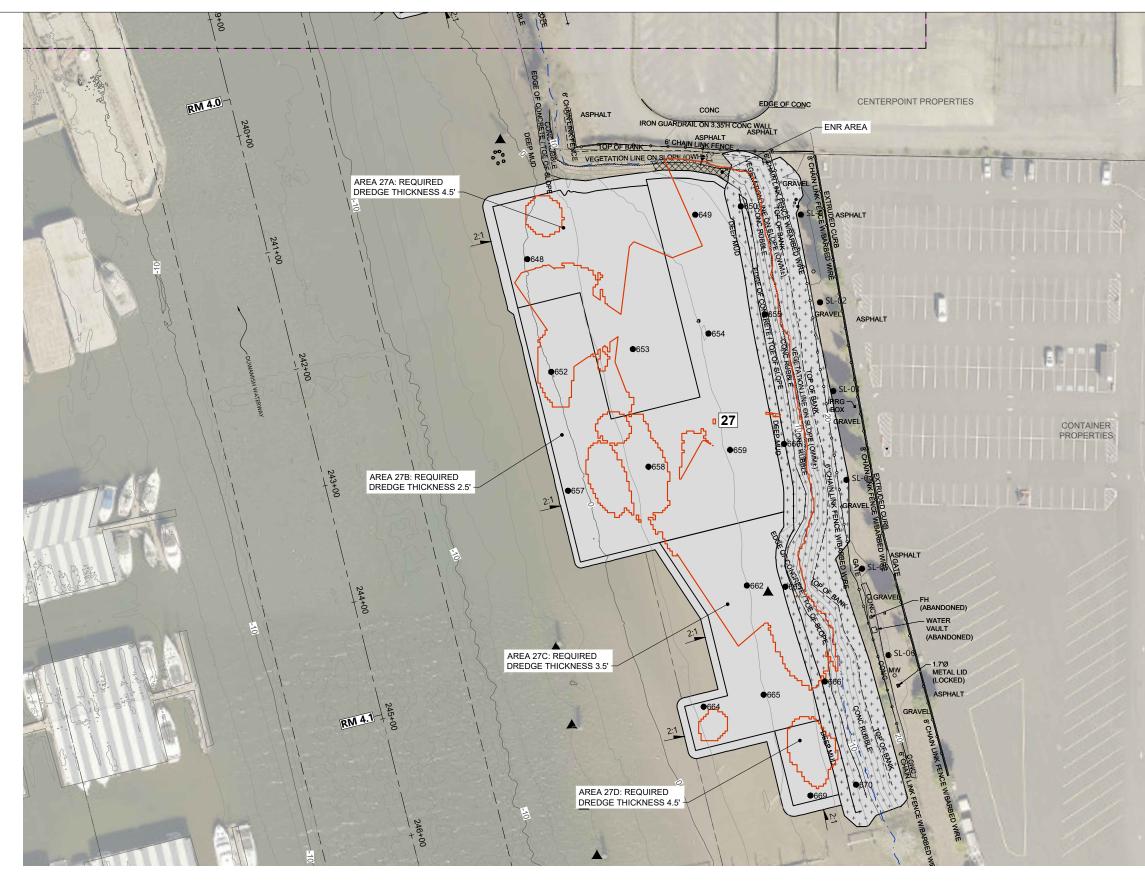


NOTES:

- 1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
- 2. VERTICAL DATUM: MLLW
- 3. AERIAL IMAGE BY ERSI.

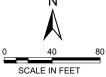
Figure 6-1g. RAA development (RMs 3.85 to 3.99)

90% REMEDIAL DESIGN BASIS OF DESIGN REPORT FOR THE LDW UPPER REACH





250+00	USACE CHANNEL CENTERLINE AND STATIONING
	FEDERAL NAVIGATION CHANNEL
RM 3.0	RIVER MILE LABEL
[]]]]	EARLY ACTION AREA
<u> </u>	LDW UPPER REACH APPROXIMATE BOUNDARY
	KING COUNTY SHORELINE HABITAT RESTORATION APPROXIMATE EXTENTS
	2018 BATHYMETRIC CONTOURS (2' & 10' INTERVALS)
A	OUTFALL LOCATION (ACTIVE)
٨	OUTFALL LOCATION (ABANDONED/INACTIVE)
٨	OUTFALL LOCATION (REMOVED)
A	EXISTING PILE, APPROXIMATE LOCATION
۰	EXISTING DOLPHIN, APPROXIMATE LOCATION
٠	VERTICAL SAMPLE LOCATION
2	RAL EXCEEDANCE AREA NUMBER
	RAL EXCEEDANCE AREA (5/26/23)
	REMEDIAL ACTION AREA: DREDGING
$\times\!\!\times\!\!\times\!\!\times$	REMEDIAL ACTION AREA: ENR
+ + + + + + + + + + + + + + + + + + +	REMEDIAL ACTION AREA: ENGINEERED CAP
	N

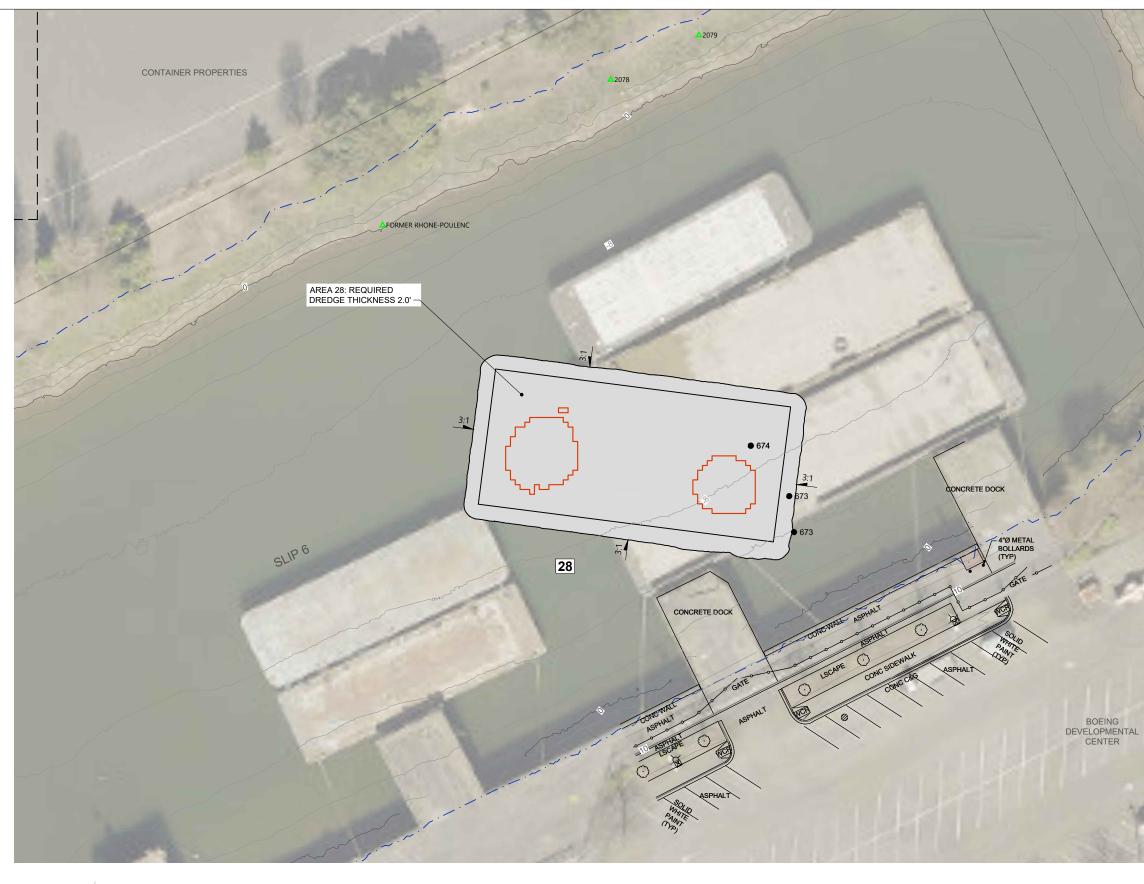


NOTES:

- 1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
- 2. VERTICAL DATUM: MLLW
- 3. AERIAL IMAGE BY ESRI.

Figure 6-1h. RAA development (RMs 3.98 to 4.13)

90% REMEDIAL DESIGN BASIS OF DESIGN REPORT FOR THE LDW UPPER REACH





250+00	USACE CHANNEL CENTERLINE AND STATIONING
	FEDERAL NAVIGATION CHANNEL
RM 3.0	RIVER MILE LABEL
	EARLY ACTION AREA
<u> </u>	LDW UPPER REACH APPROXIMATE BOUNDARY
	KING COUNTY SHORELINE HABITAT RESTORATION APPROXIMATE EXTENTS
	2018 BATHYMETRIC CONTOURS (2' & 10' INTERVALS)
٨	OUTFALL LOCATION (ACTIVE)
۸	OUTFALL LOCATION (ABANDONED/INACTIVE)
٨	OUTFALL LOCATION (REMOVED)
▲	EXISTING PILE, APPROXIMATE LOCATION
٥	EXISTING DOLPHIN, APPROXIMATE LOCATION
٠	VERTICAL SAMPLE LOCATION
2	RAL EXCEEDANCE AREA NUMBER
	RAL EXCEEDANCE AREA (5/26/23)
	REMEDIAL ACTION AREA: DREDGING



NOTES:

- 1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
- 2. VERTICAL DATUM: MLLW
- 3. AERIAL IMAGE BY ESRI.

Figure 6-1i. RAA development (RMs 4.14 to 4.23)

90% REMEDIAL DESIGN BASIS OF DESIGN REPORT FOR THE LDW UPPER REACH





250+00	USACE CHANNEL CENTERLINE AND STATIONING
	FEDERAL NAVIGATION CHANNEL
RM 3.0	RIVER MILE LABEL
	EARLY ACTION AREA
·	- LDW UPPER REACH APPROXIMATE BOUNDARY
	- KING COUNTY SHORELINE HABITAT RESTORATION APPROXIMATE EXTENTS
	2018 BATHYMETRIC CONTOURS (2' & 10' INTERVALS)
٨	OUTFALL LOCATION (ACTIVE)
٨	OUTFALL LOCATION (ABANDONED/INACTIVE)
٨	OUTFALL LOCATION (REMOVED)
▲	EXISTING PILE, APPROXIMATE LOCATION
٥	EXISTING DOLPHIN, APPROXIMATE LOCATION
٠	VERTICAL SAMPLE LOCATION
2	RAL EXCEEDANCE AREA NUMBER
	RAL EXCEEDANCE AREA (5/26/23)
	REMEDIAL ACTION AREA: DREDGING
	N
	Å
	0 20 40
	0 20 40

SCALE IN FEET

NOTES:

- 1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
- 2. VERTICAL DATUM: MLLW
- 3. AERIAL IMAGE BY ESRI.

Figure 6-1j. RAA development (RMs 4.57 to 4.66)

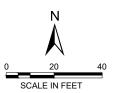
90% REMEDIAL DESIGN BASIS OF DESIGN REPORT FOR THE LDW UPPER REACH



Lower Duwamish Waterway Group

LEGEND:

250+00	USACE CHANNEL CENTERLINE AND STATIONING
	FEDERAL NAVIGATION CHANNEL
RM 3.0	RIVER MILE LABEL
	EARLY ACTION AREA
	LDW UPPER REACH APPROXIMATE BOUNDARY
	KING COUNTY SHORELINE HABITAT RESTORATION APPROXIMATE EXTENTS
	2018 BATHYMETRIC CONTOURS (2' & 10' INTERVALS)
A	OUTFALL LOCATION (ACTIVE)
٨	OUTFALL LOCATION (ABANDONED/INACTIVE)
٨	OUTFALL LOCATION (REMOVED)
▲	EXISTING PILE, APPROXIMATE LOCATION
٥	EXISTING DOLPHIN, APPROXIMATE LOCATION
٠	VERTICAL SAMPLE LOCATION
2	RAL EXCEEDANCE AREA NUMBER
	RAL EXCEEDANCE AREA (5/26/23)
	REMEDIAL ACTION AREA: DREDGING
	REMEDIAL ACTION AREA: ENR

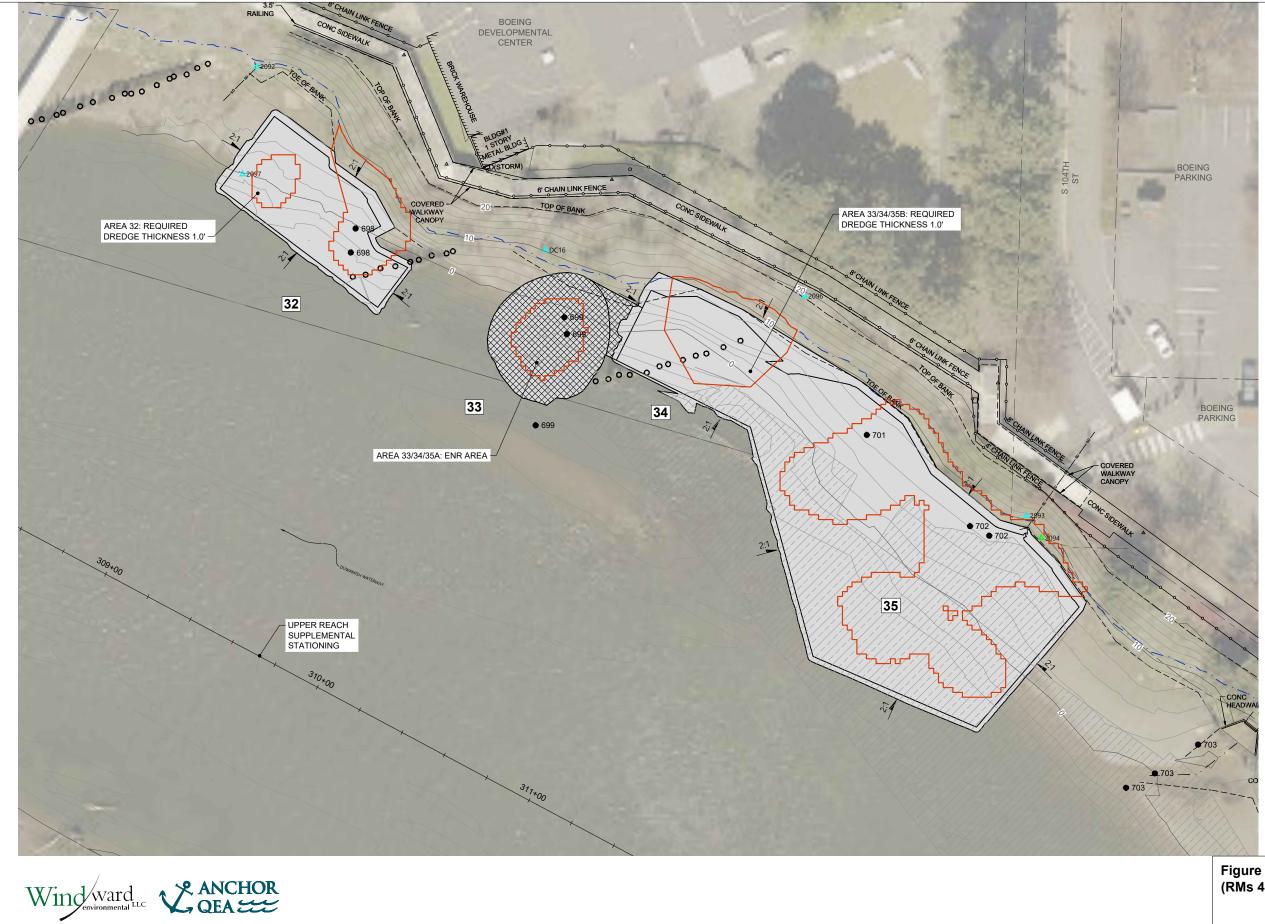


NOTES:

- HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET 1.
- 2. VERTICAL DATUM: MLLW
- 3. AERIAL IMAGE BY ESRI.

Figure 6-1k. RAA development (RMs 4.64 to 4.76)

90% REMEDIAL DESIGN BASIS OF DESIGN REPORT FOR THE LDW UPPER REACH



Lower Duwamish Waterway Group

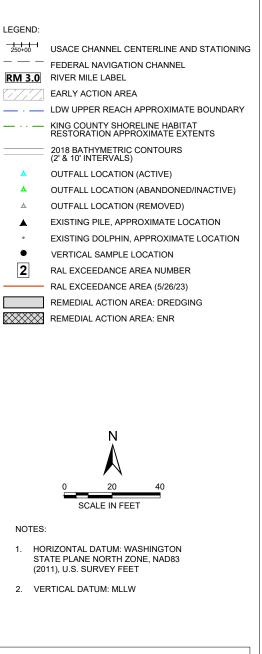
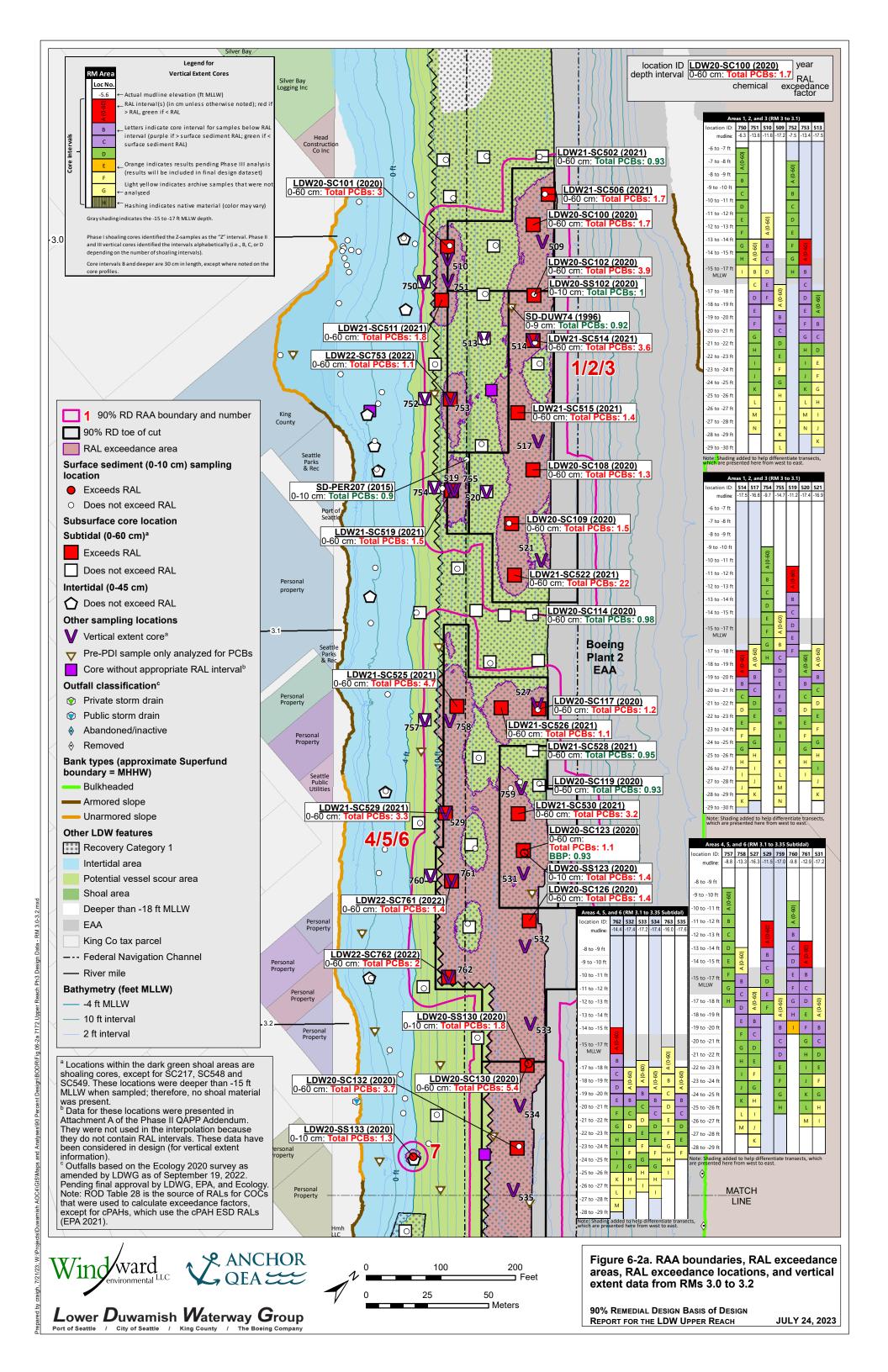
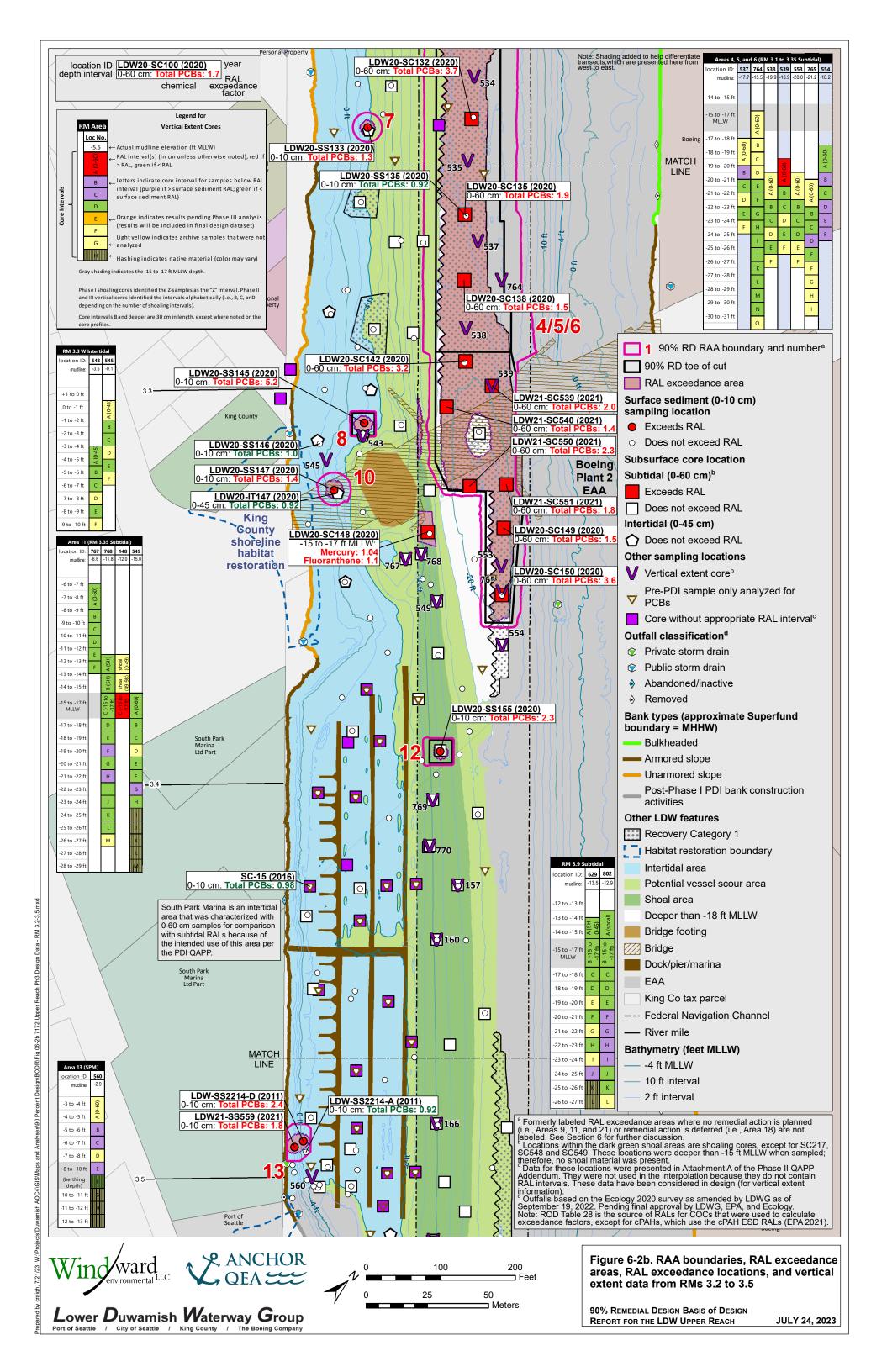


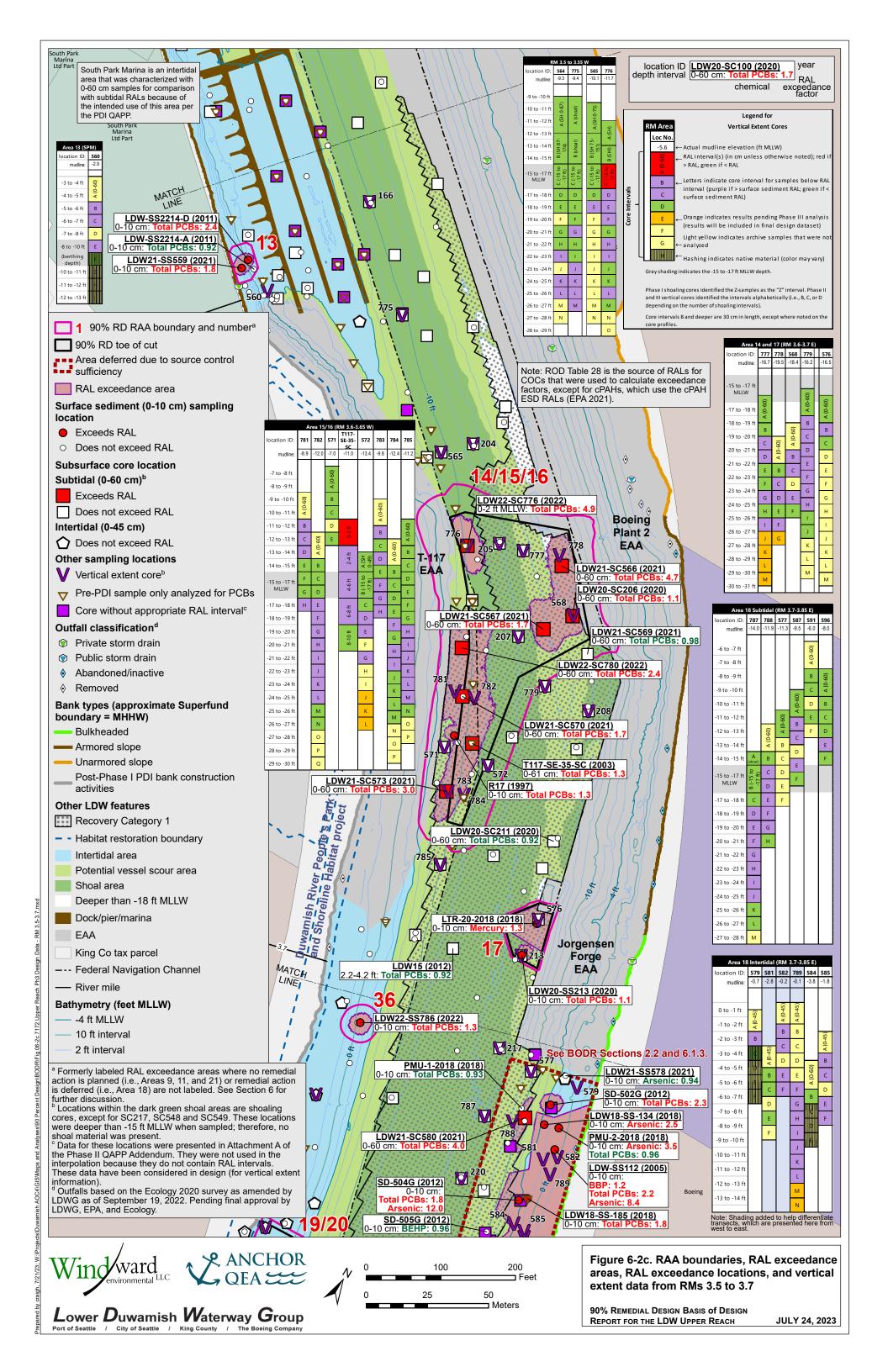
Figure 6-1I. RAA development (RMs 4.84 to 4.95)

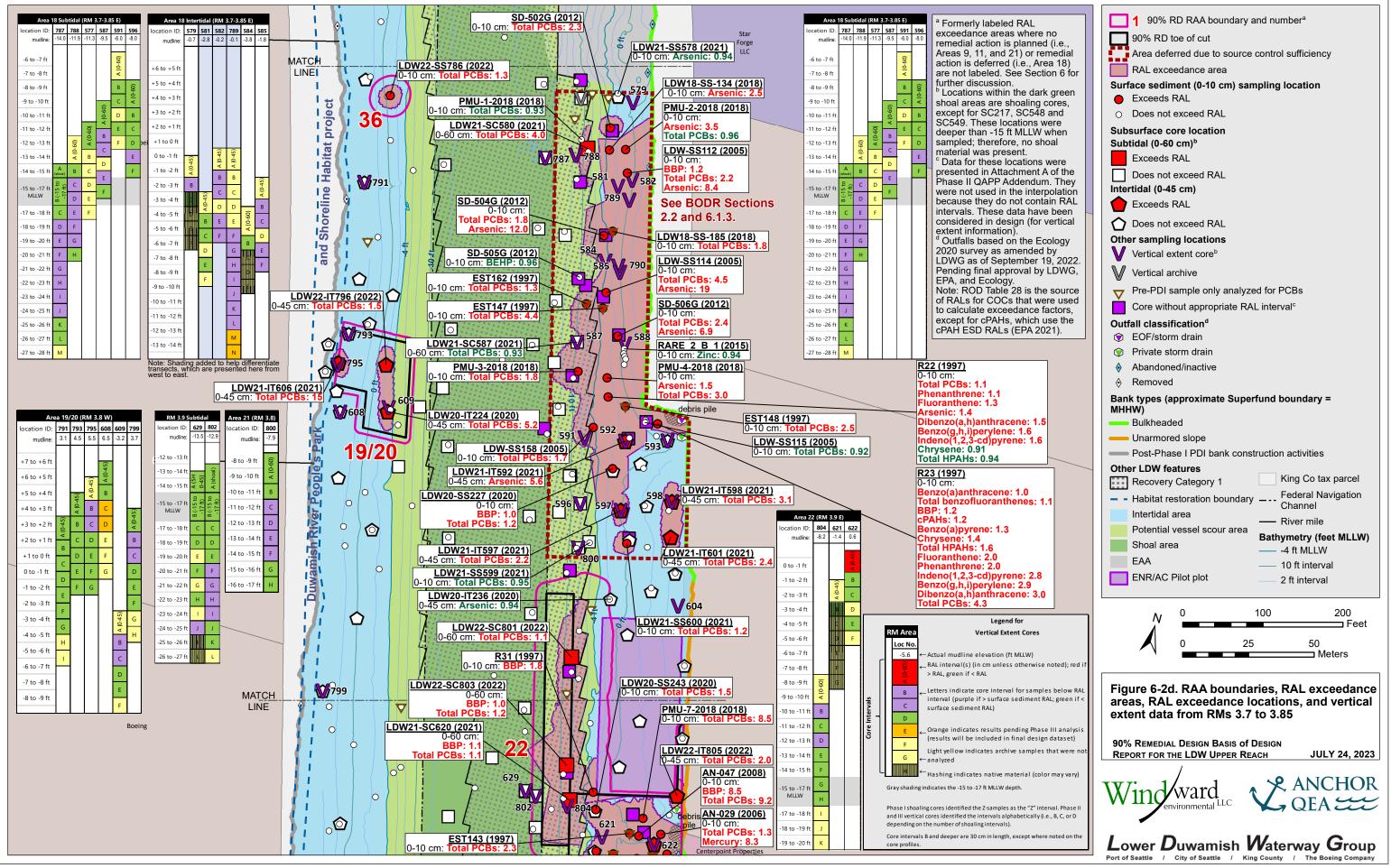
90% REMEDIAL DESIGN BASIS OF DESIGN REPORT FOR THE LDW UPPER REACH

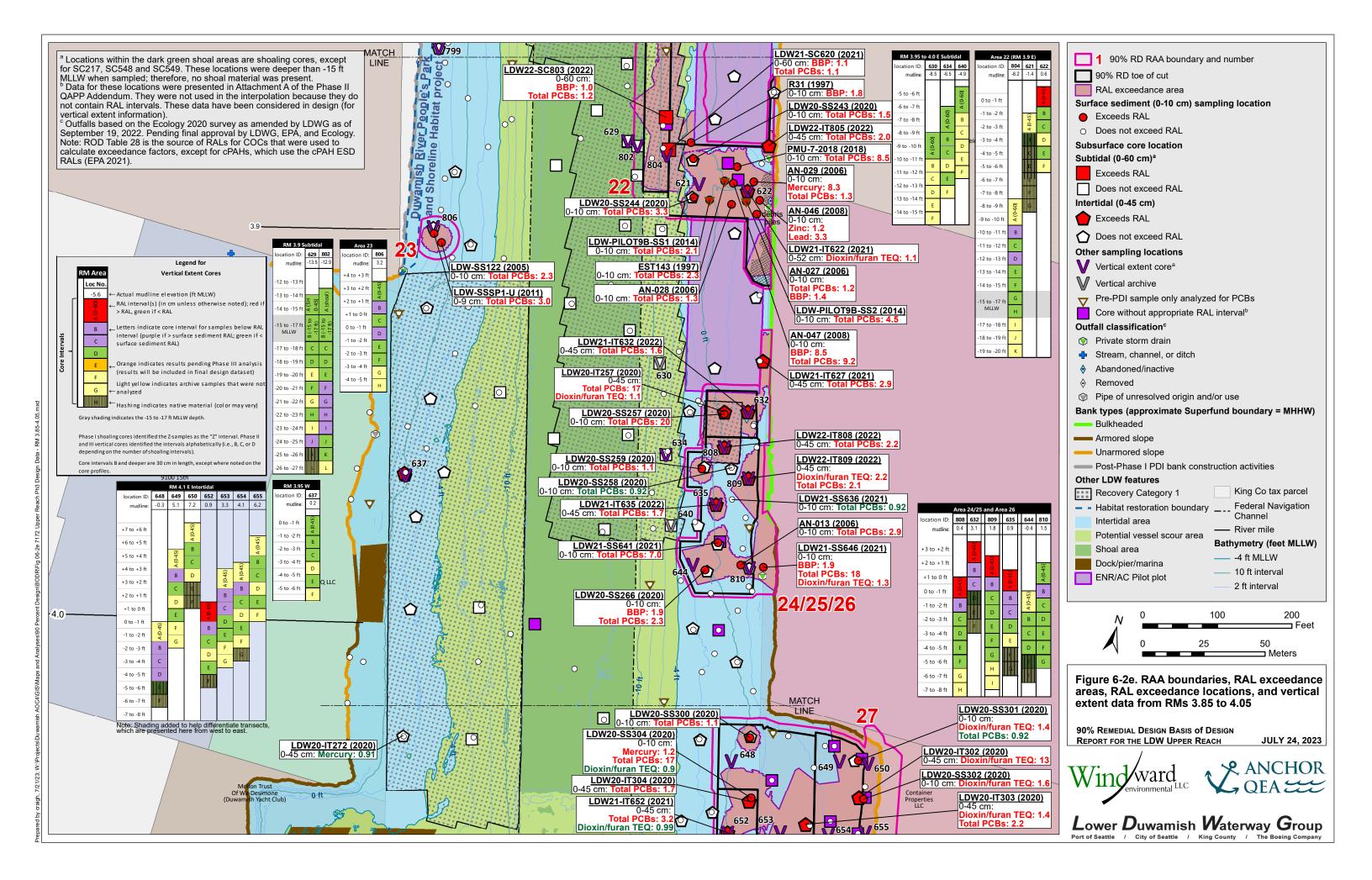
JULY 24, 2023

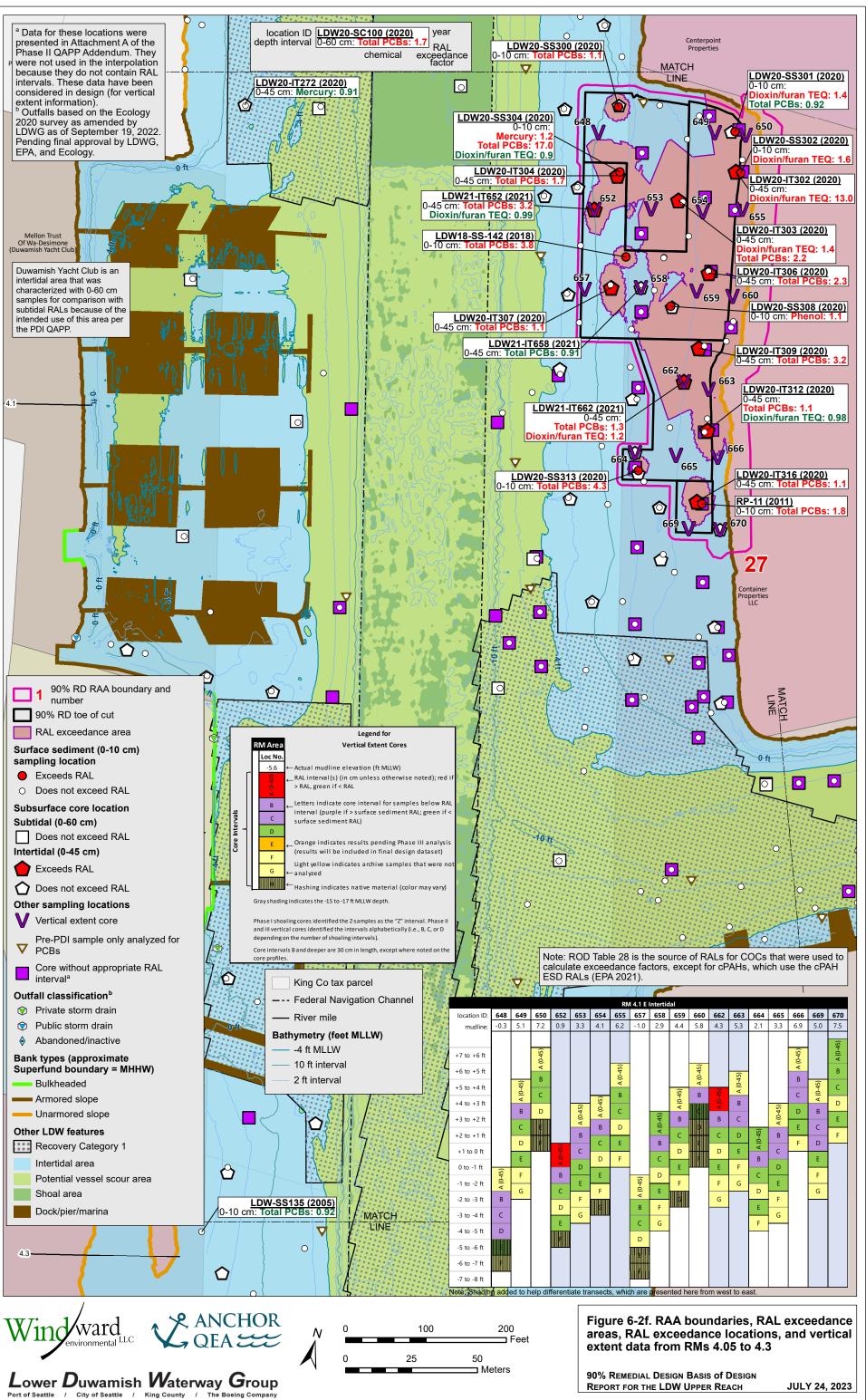










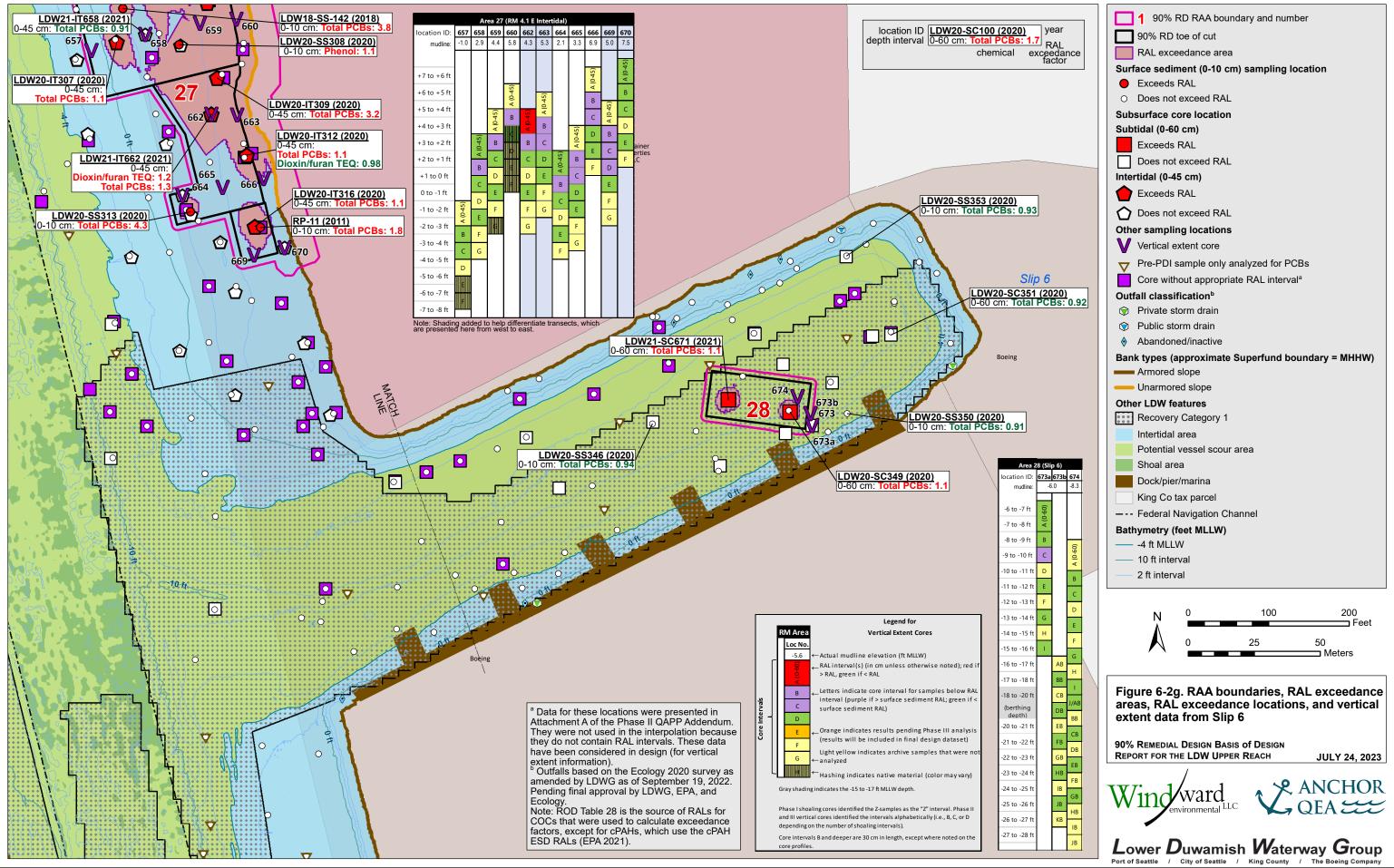


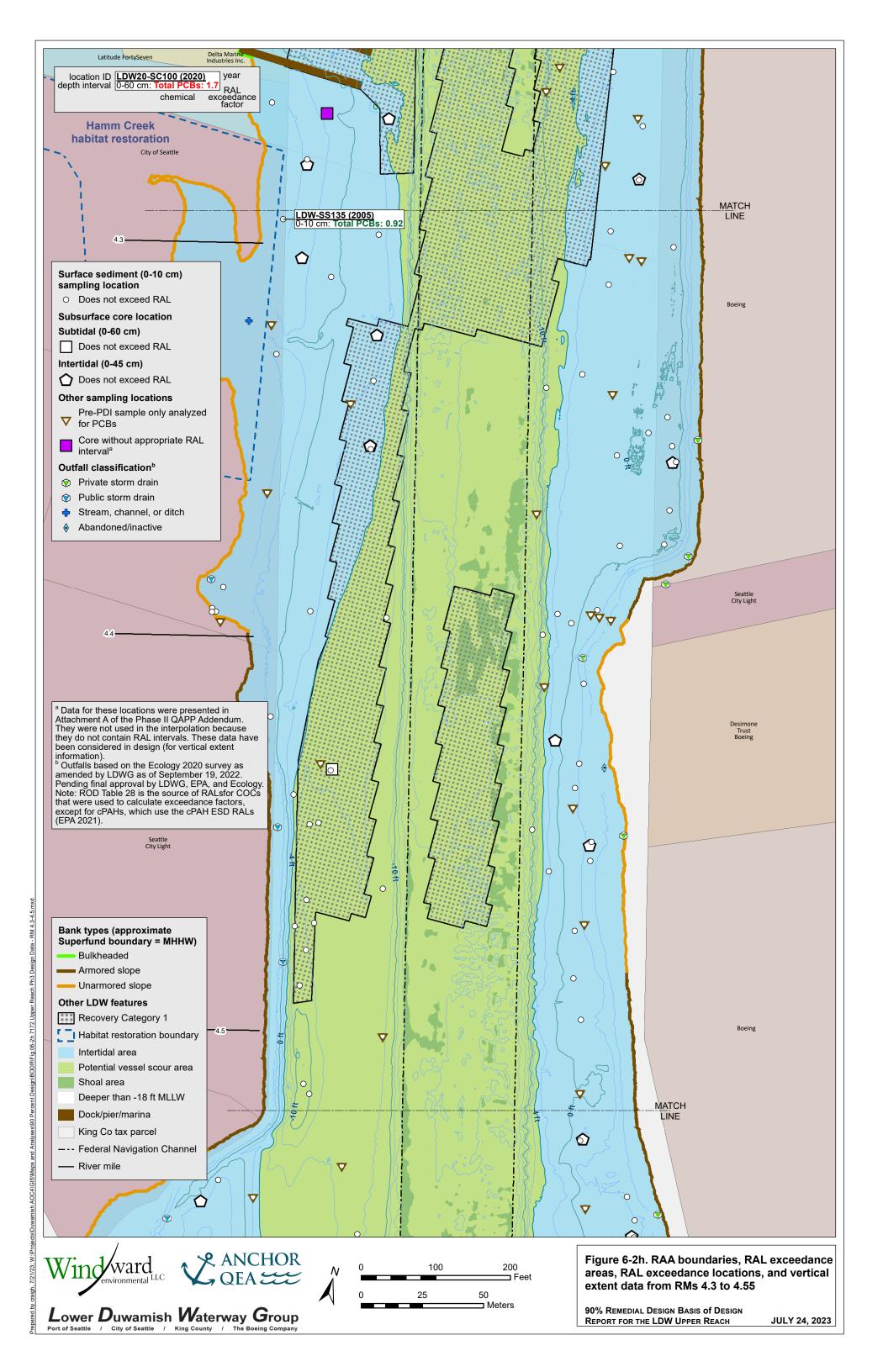
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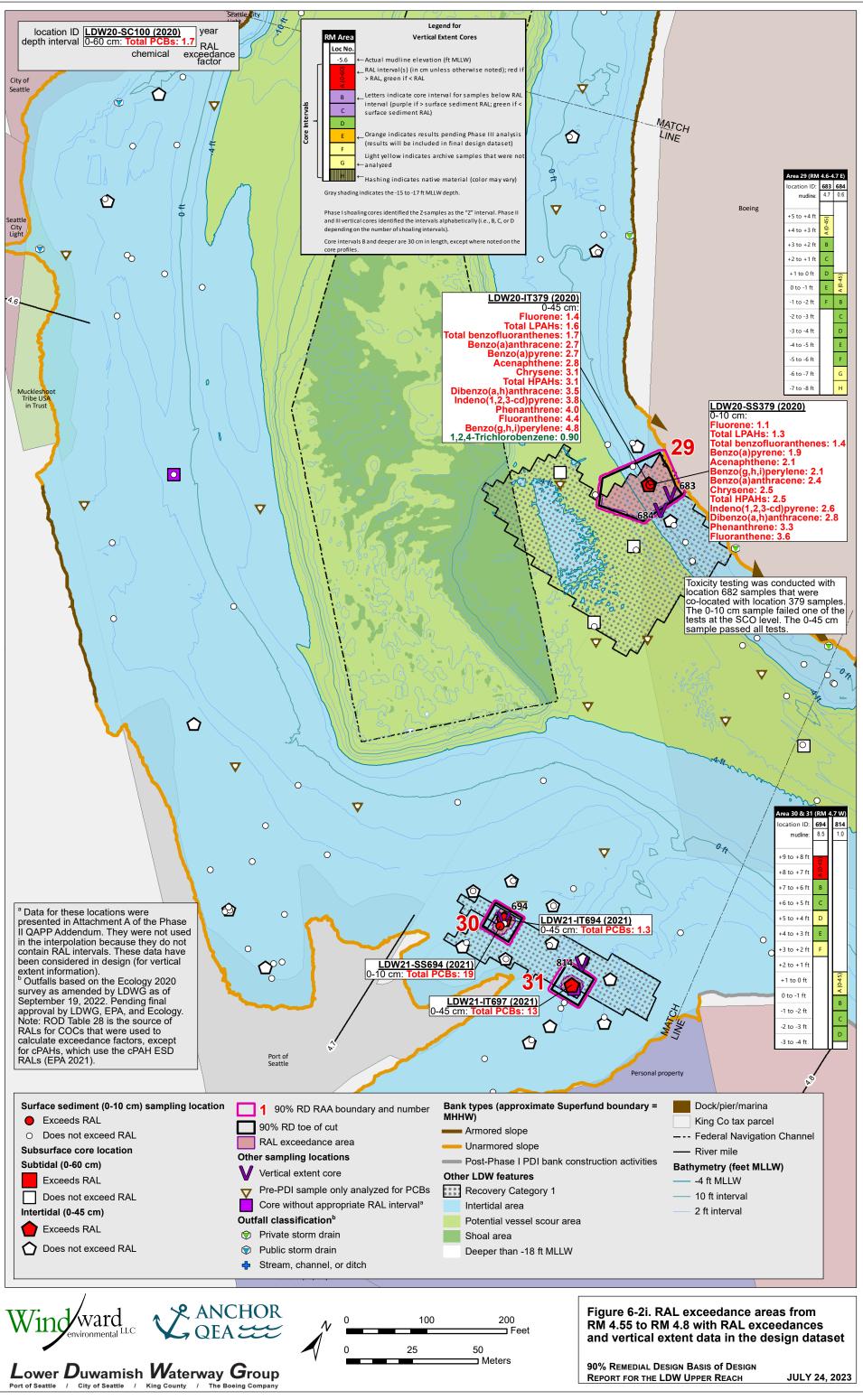
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and Analyses\90 Percent Design\BODR\Fig 06-2f 7172 Upt

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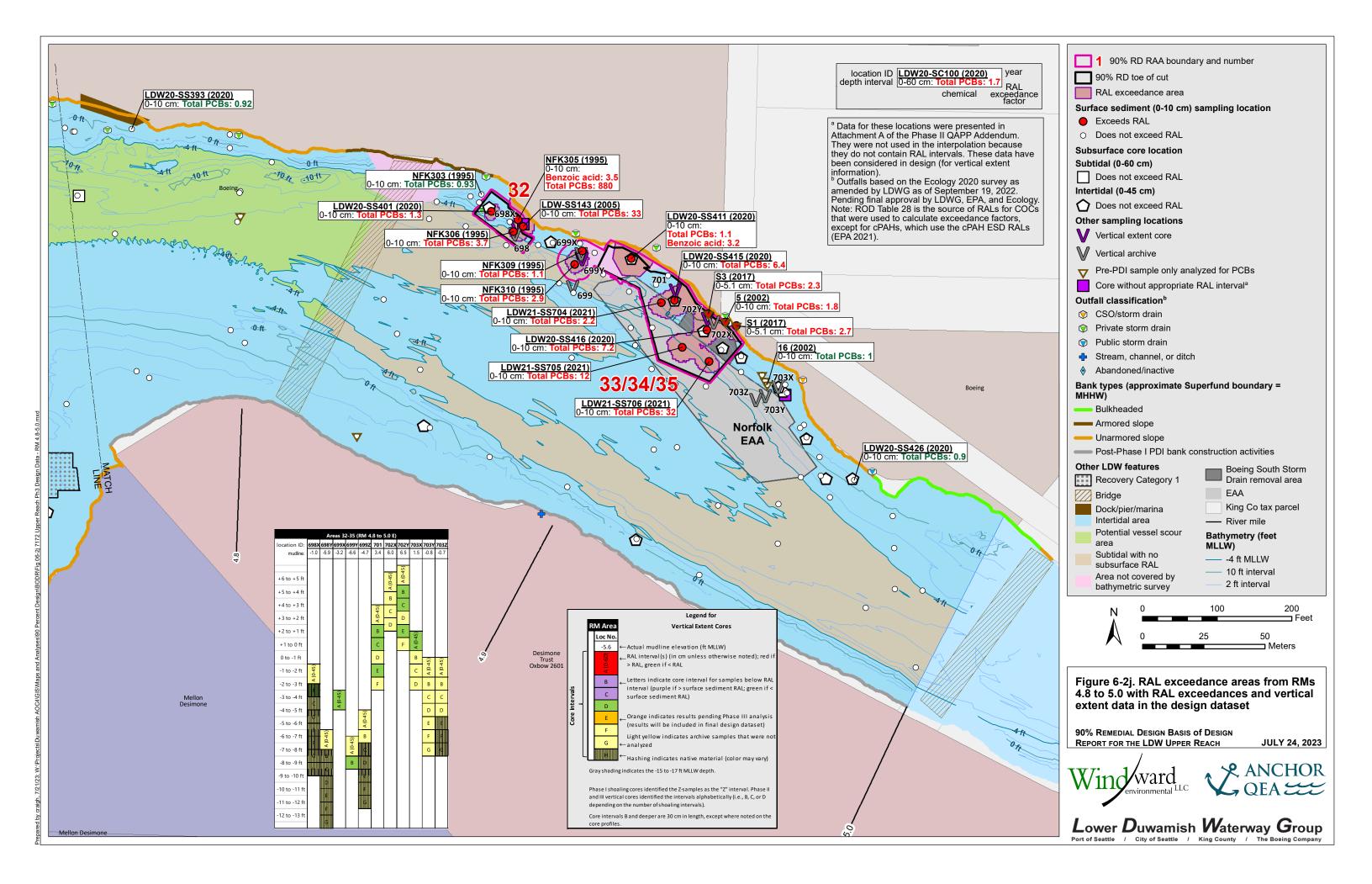


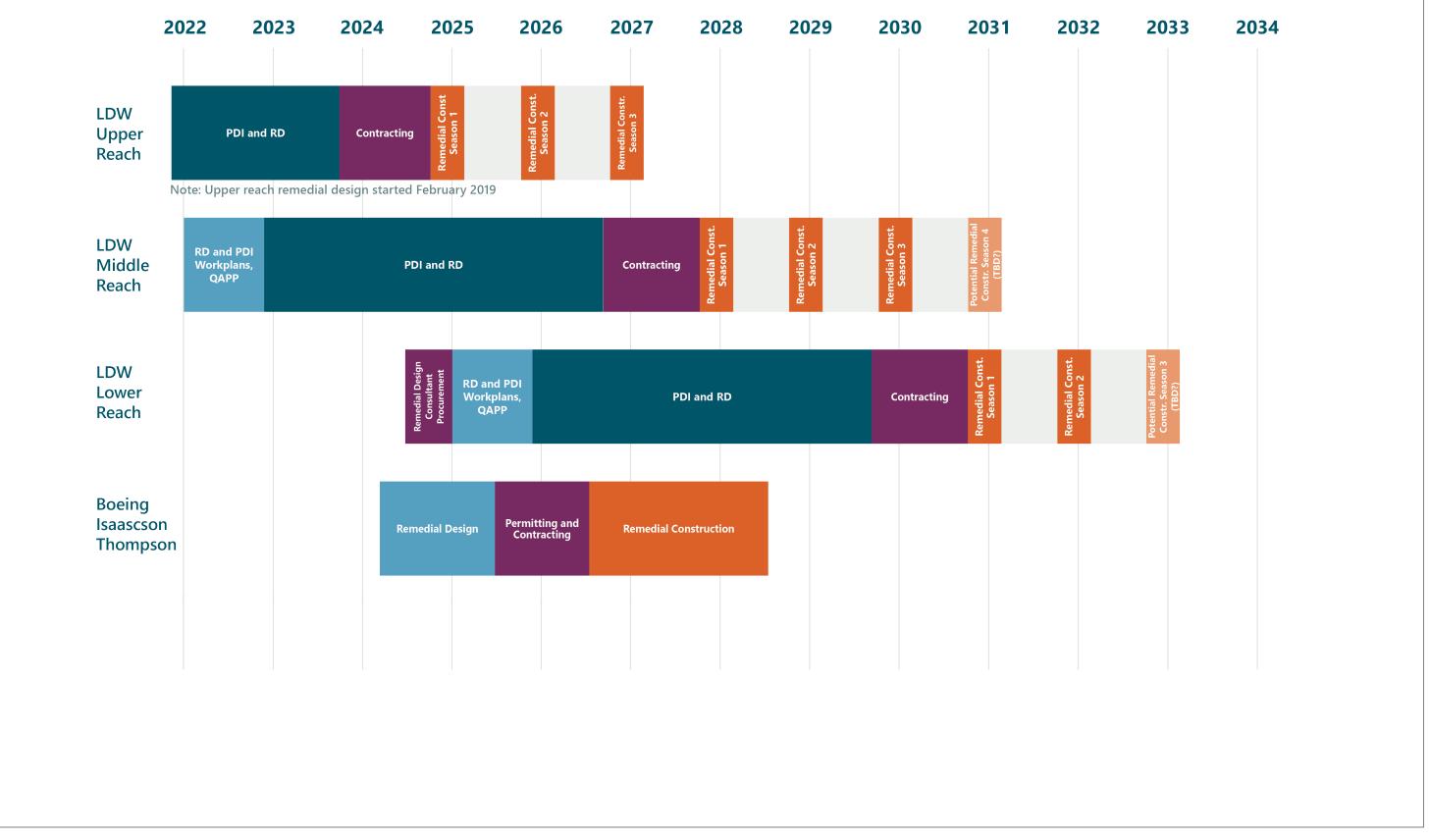




er Reach Ph3 Design Data - RM 4.6-4.8.

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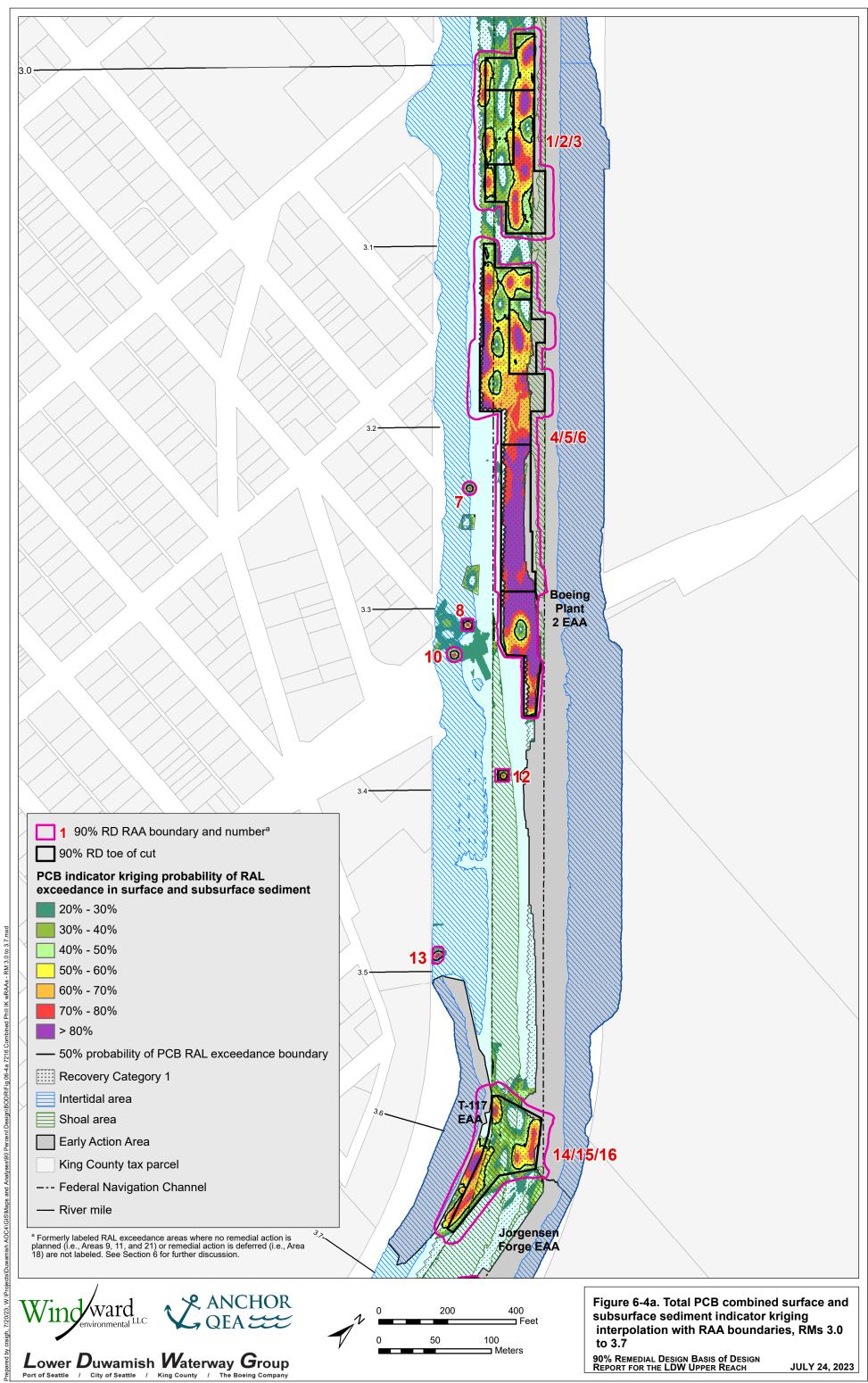


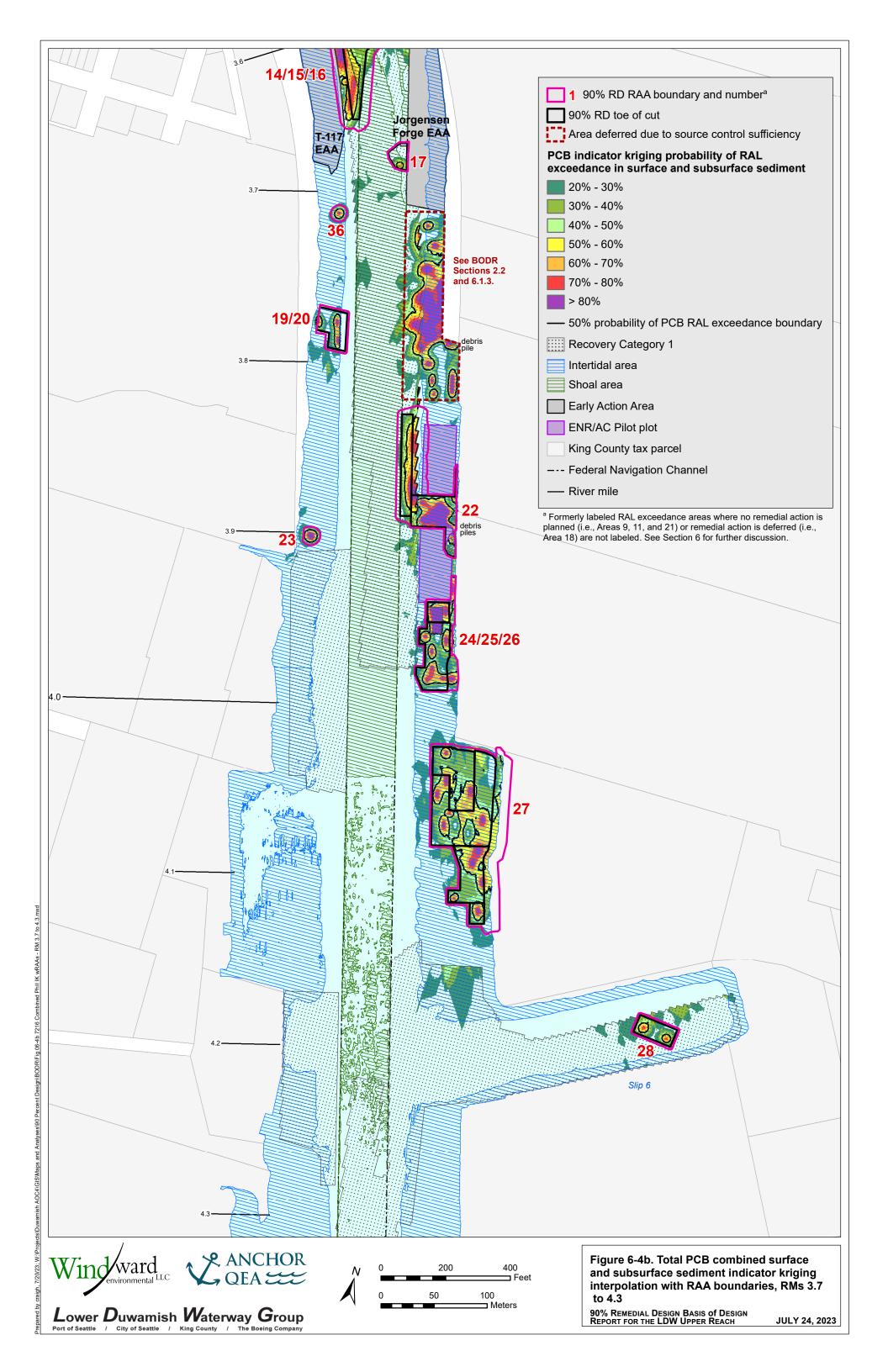


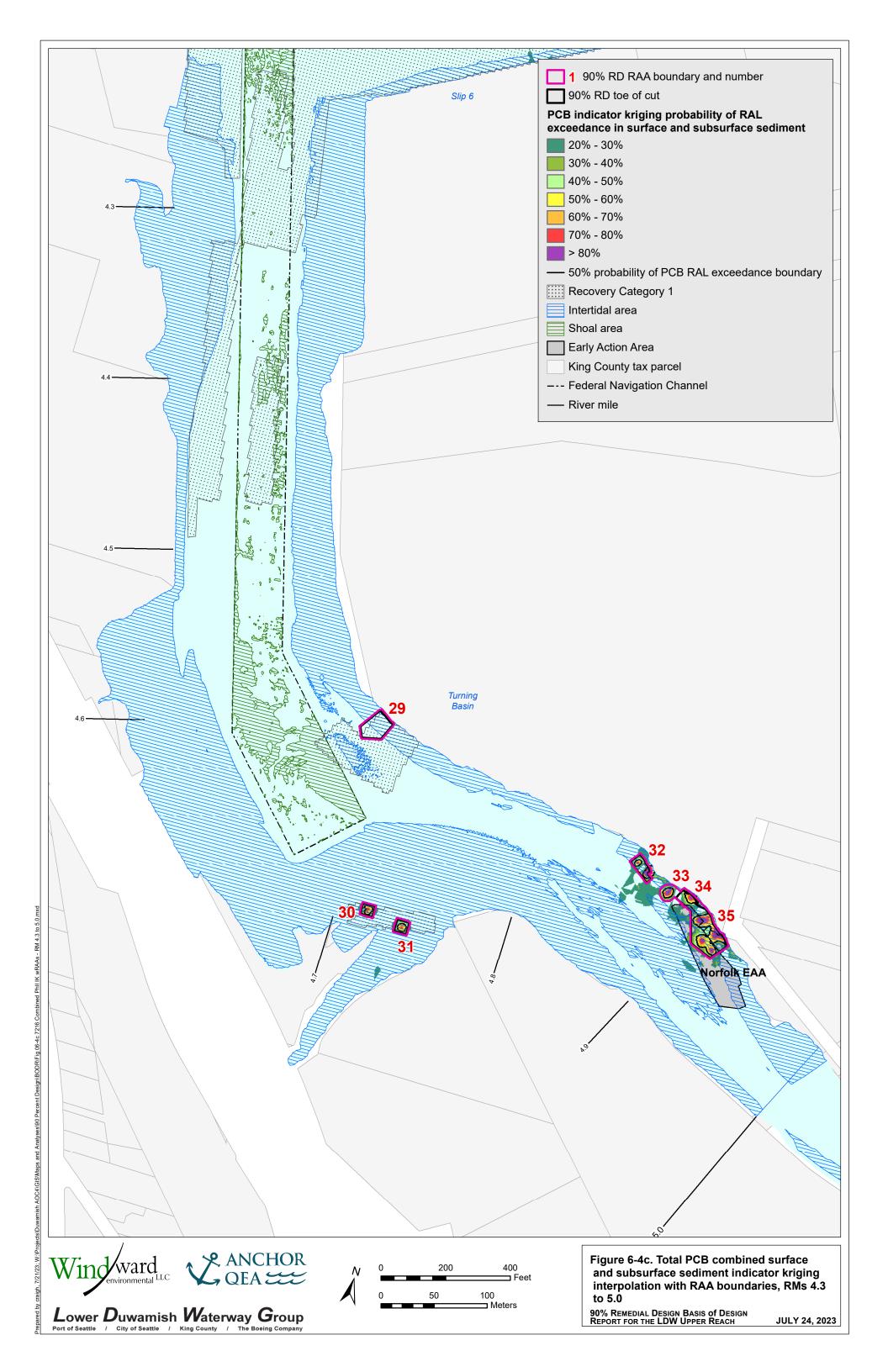
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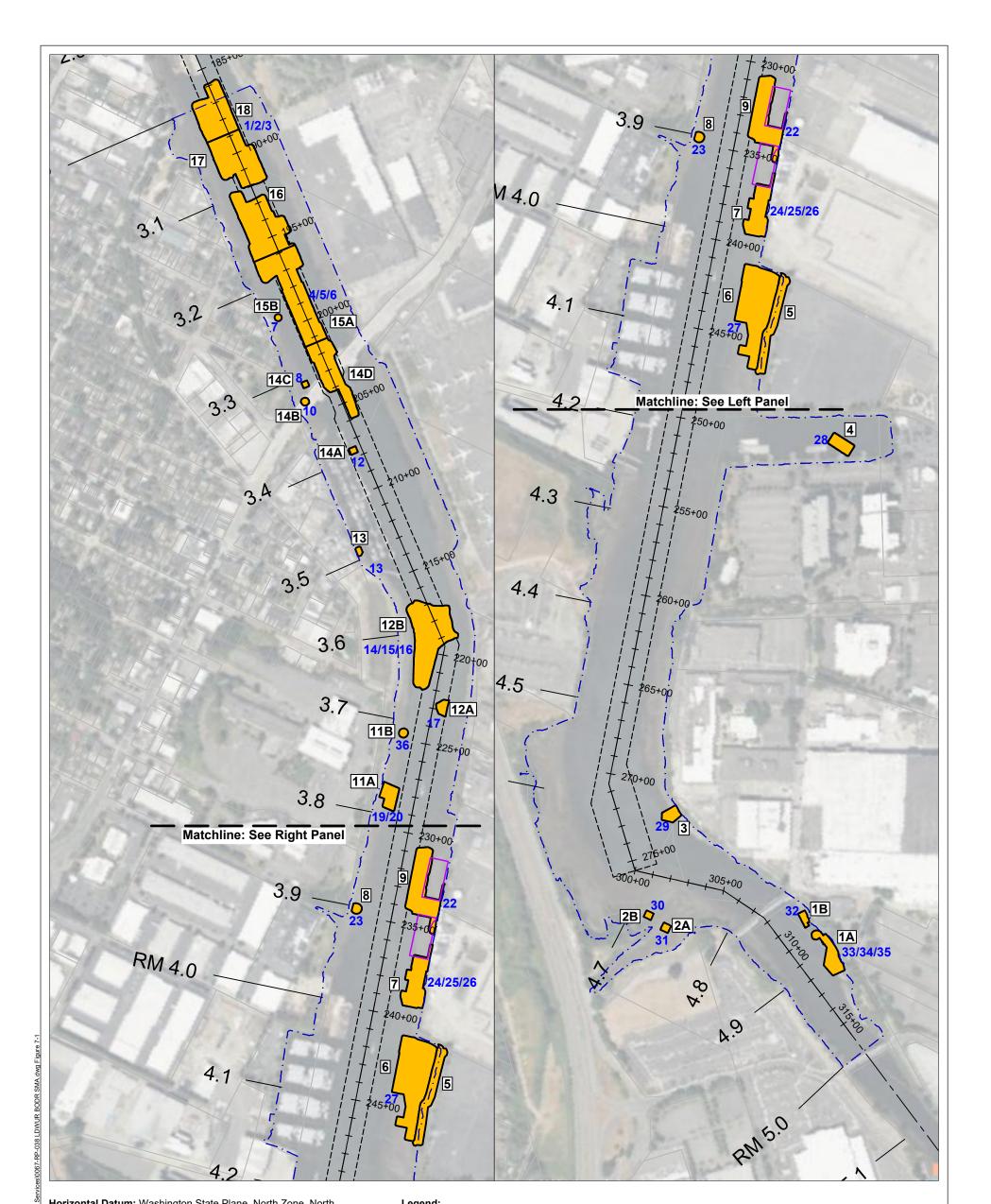


Figure 6-3 Comparison of Anticipated LDW Superfund and Boeing Isaacson Thompson Cleanup Timelines 90% Remedial Design Basis of Design Report for the LDW Upper Reach









Horizontal Datum: Washington State Plane, North Zone, North American Datum of 1983/91, U.S. Survey Feet; WSDOT MON GP17005-176 & GP17005-181

Vertical Datum: Mean Lower Low Water (MLLW), MLLW Converted from NAD88 (NAVD88 + 2.34' to MLLW)

Note:

Remedial Action Areas will be developed into Sediment Management Areas at a later design stage.

Legend:

- ---- Federal Navigation Channel
- LAND Channel Centerline
- LDW Upper Reach Approximate Boundary
 - ENR/AC Pilot Plot Boundary
 - Remedial Action Area Boundary
- 1/2/3 Remedial Action Area Numbers
 - Sediment Management Area Boundary
- Sediment Management Area Number 17

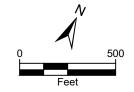
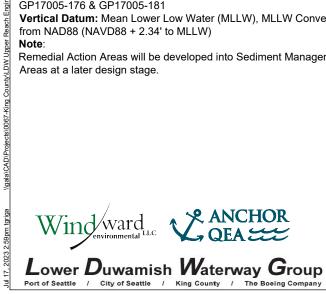
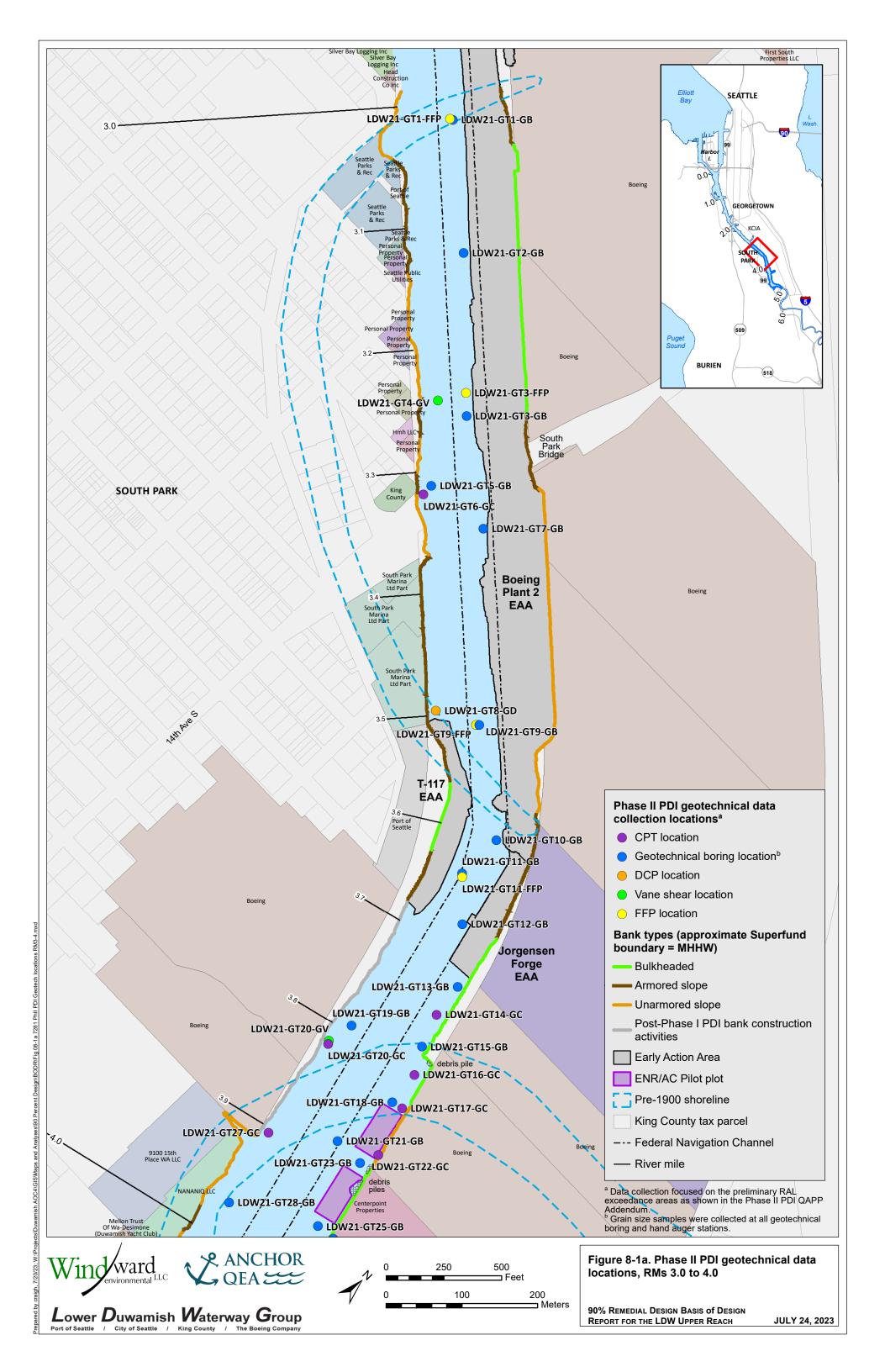


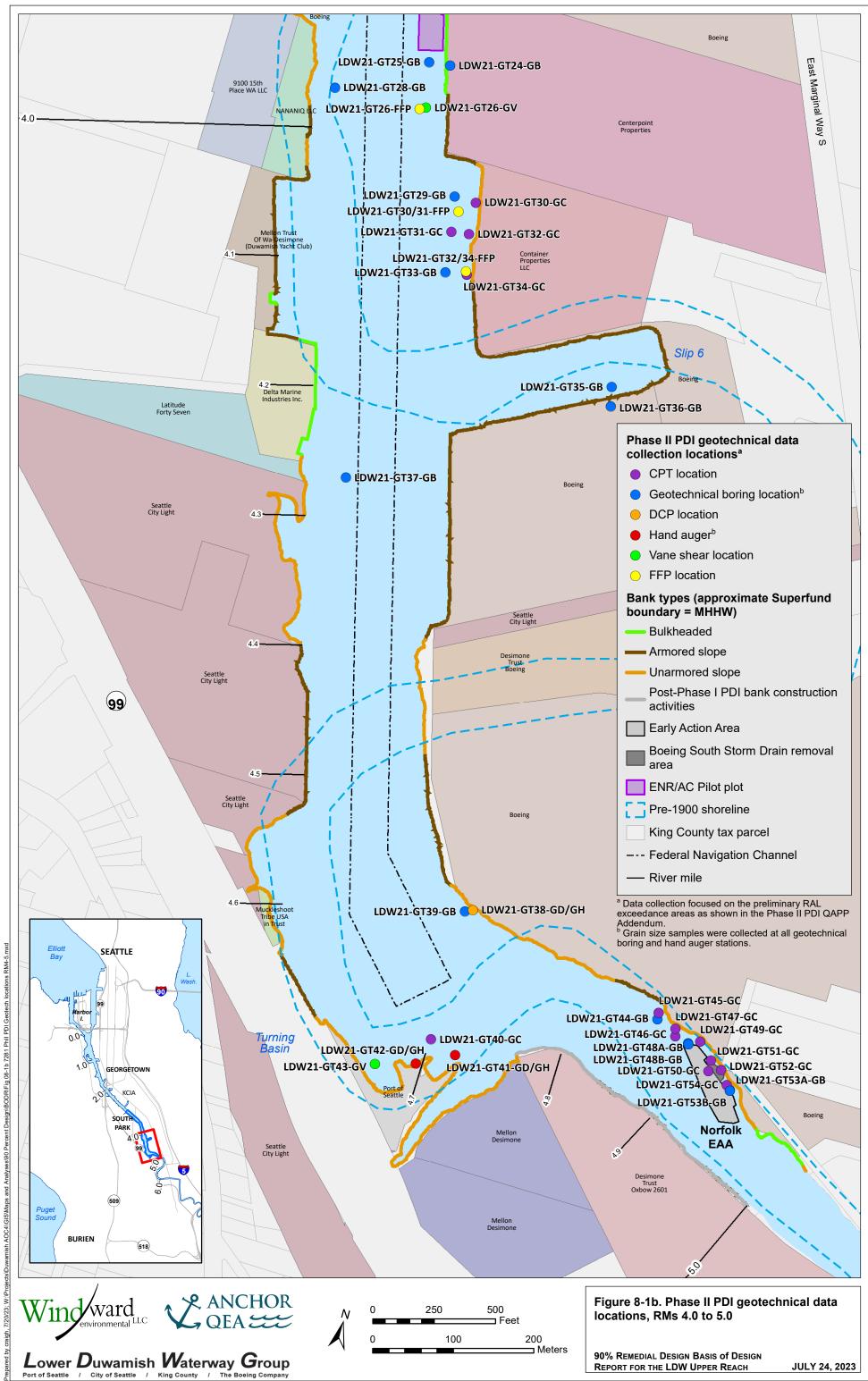
Figure 7-1 SMAs and RAAs

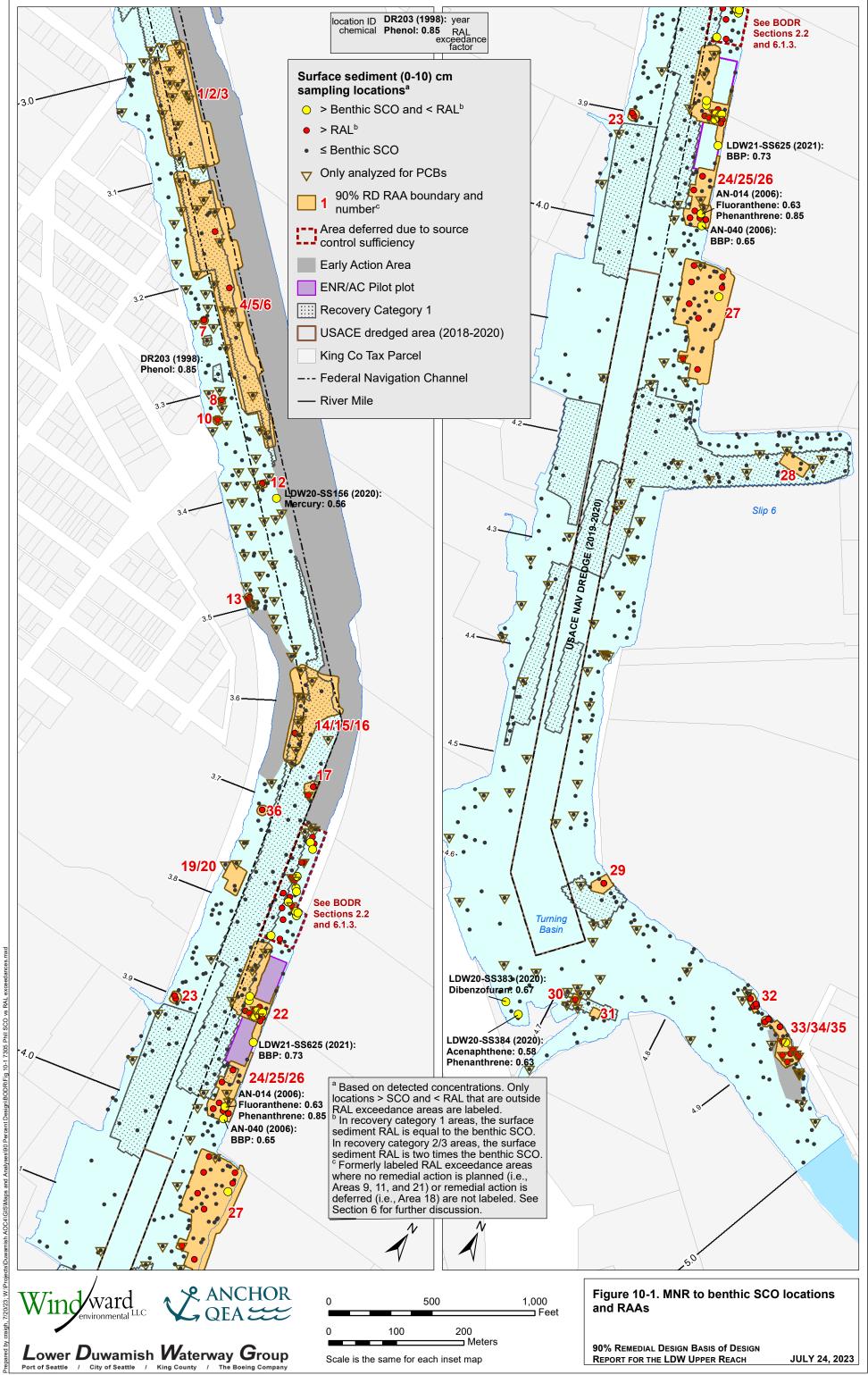
90% REMEDIAL DESIGN BASIS OF DESIGN REPORT FOR THE LDW UPPER REACH

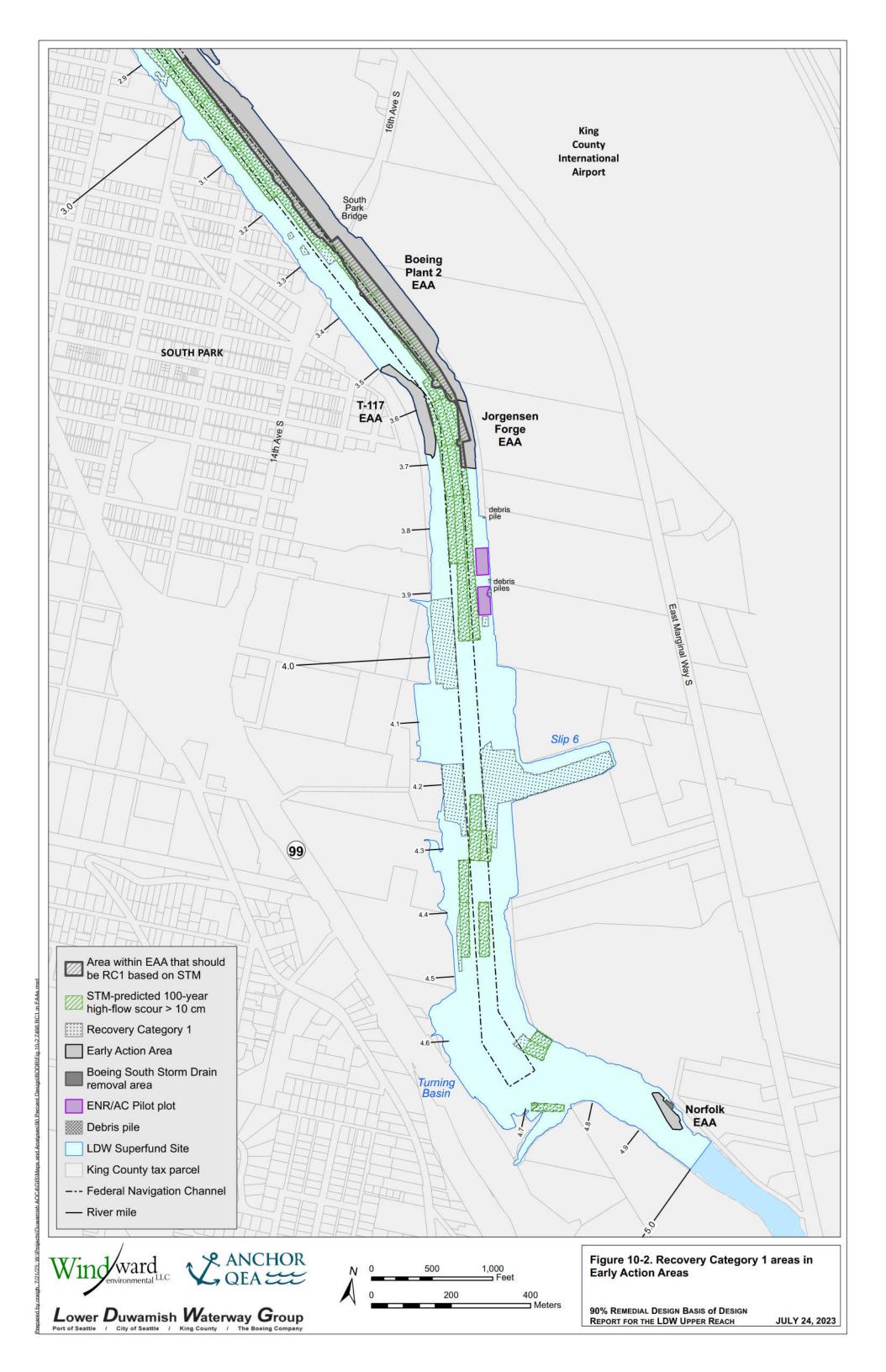
JULY 24, 2023

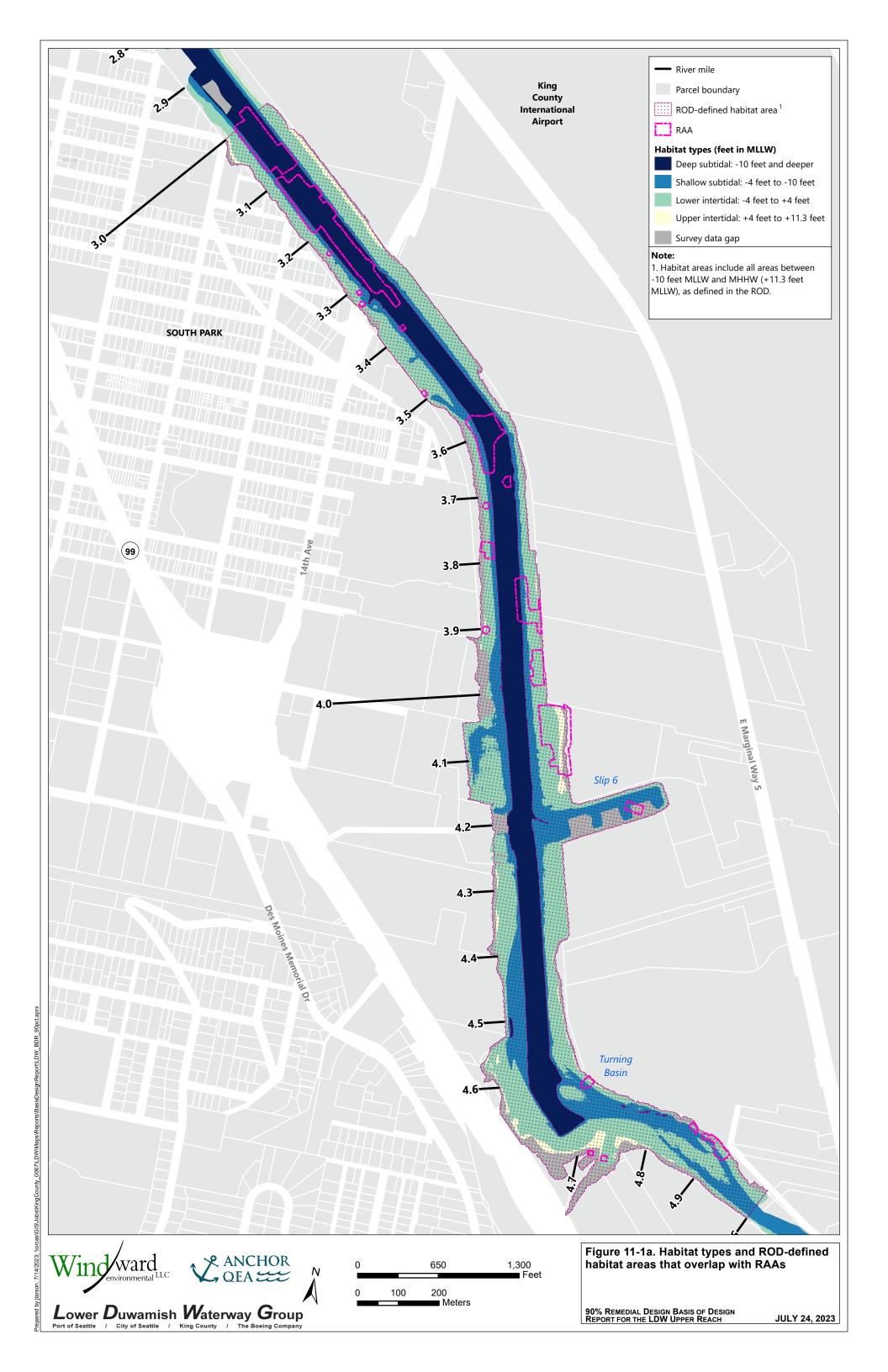


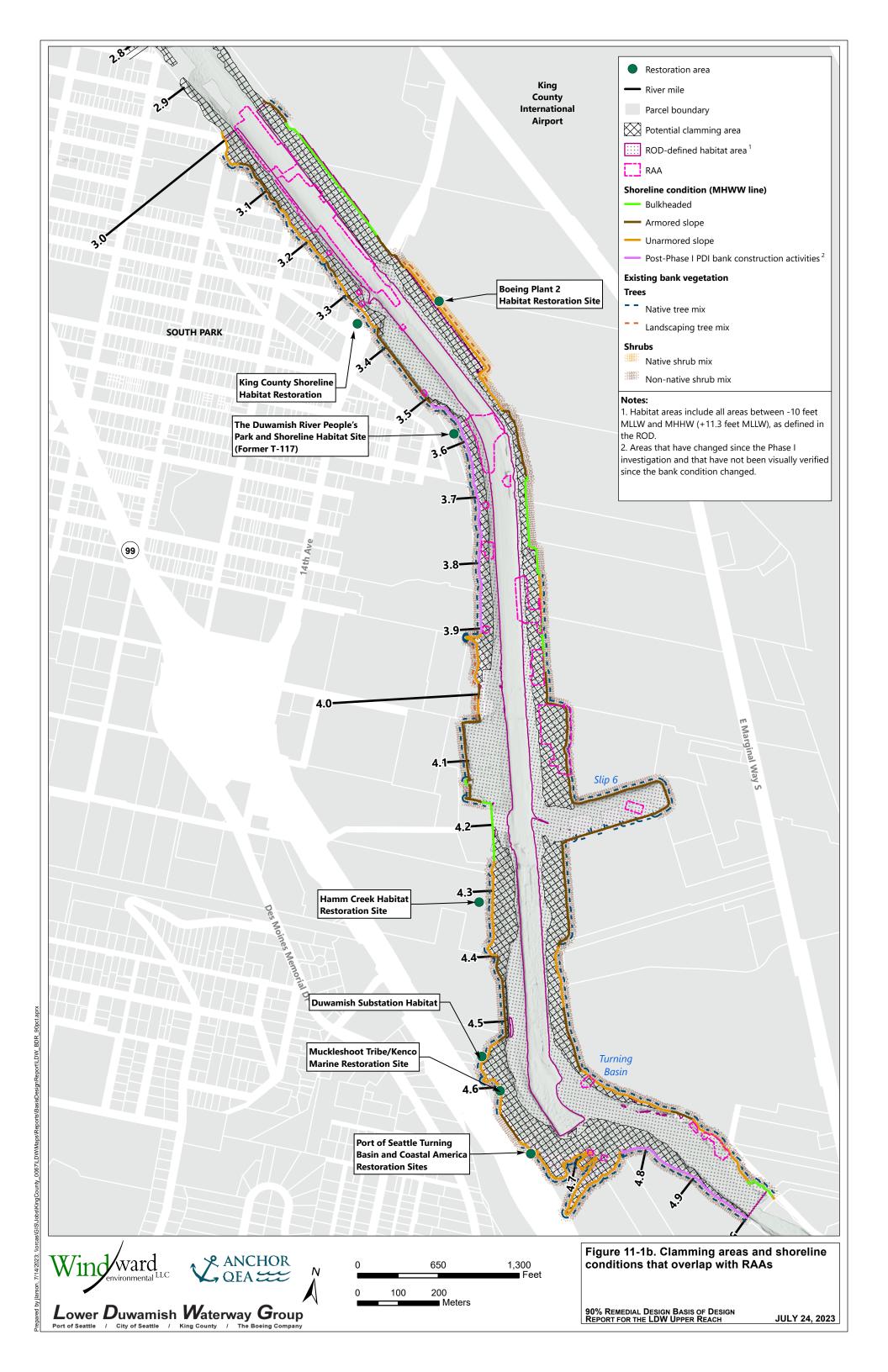


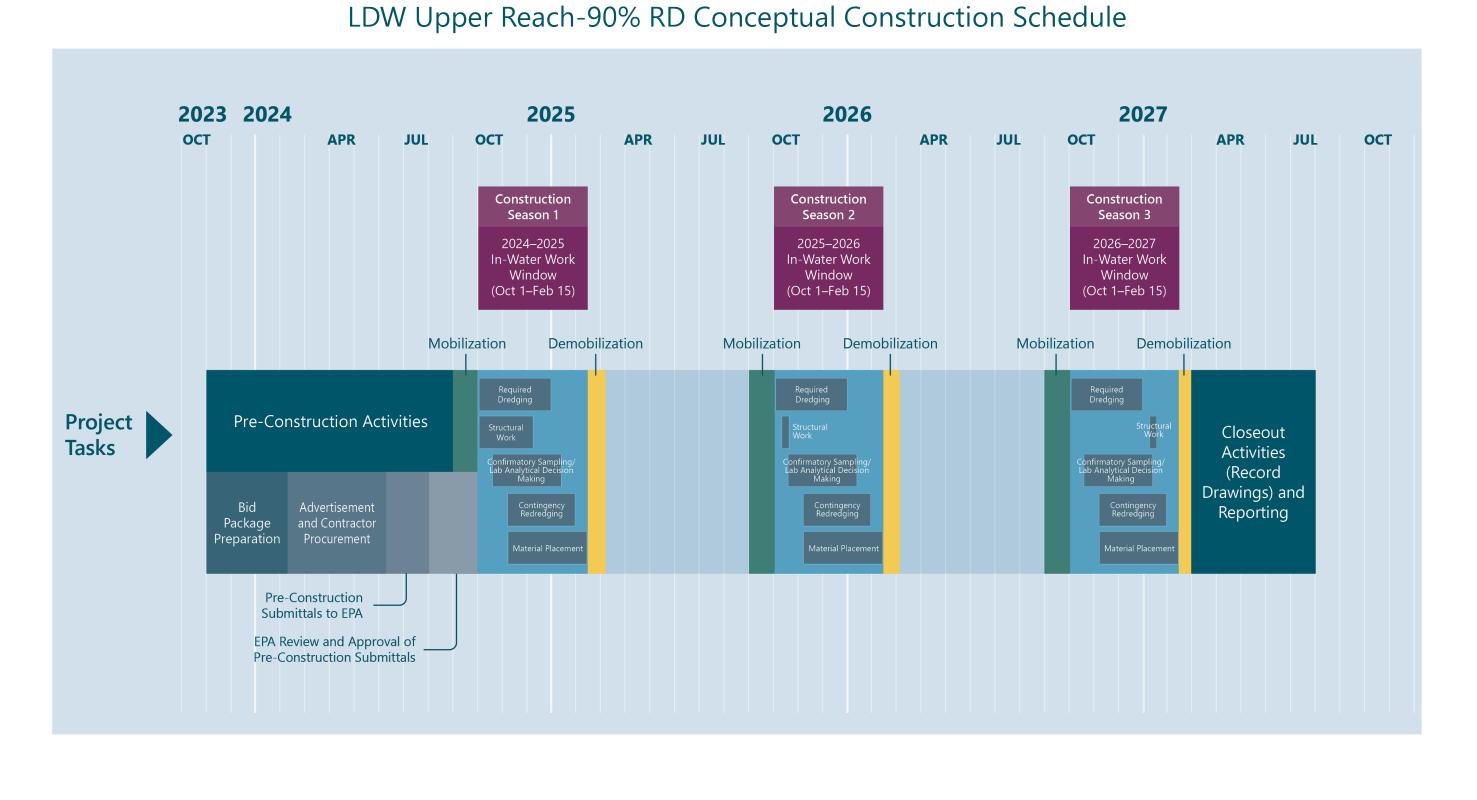












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Figure 13-1 LDW Upper Reach 90% Remedial Design Conceptual Construction Schedule 90% Remedial Design Basis of Design Report for the LDW Upper Reach