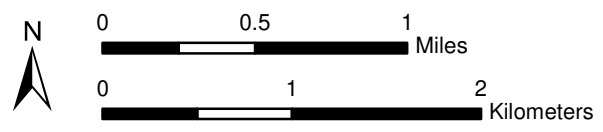




Upper reach  
 LDW Superfund Site  
 City line  
 River mile

Aerial photo: ESRI/DigitalGlobe Metro, 0.5 m resolution, July 2017



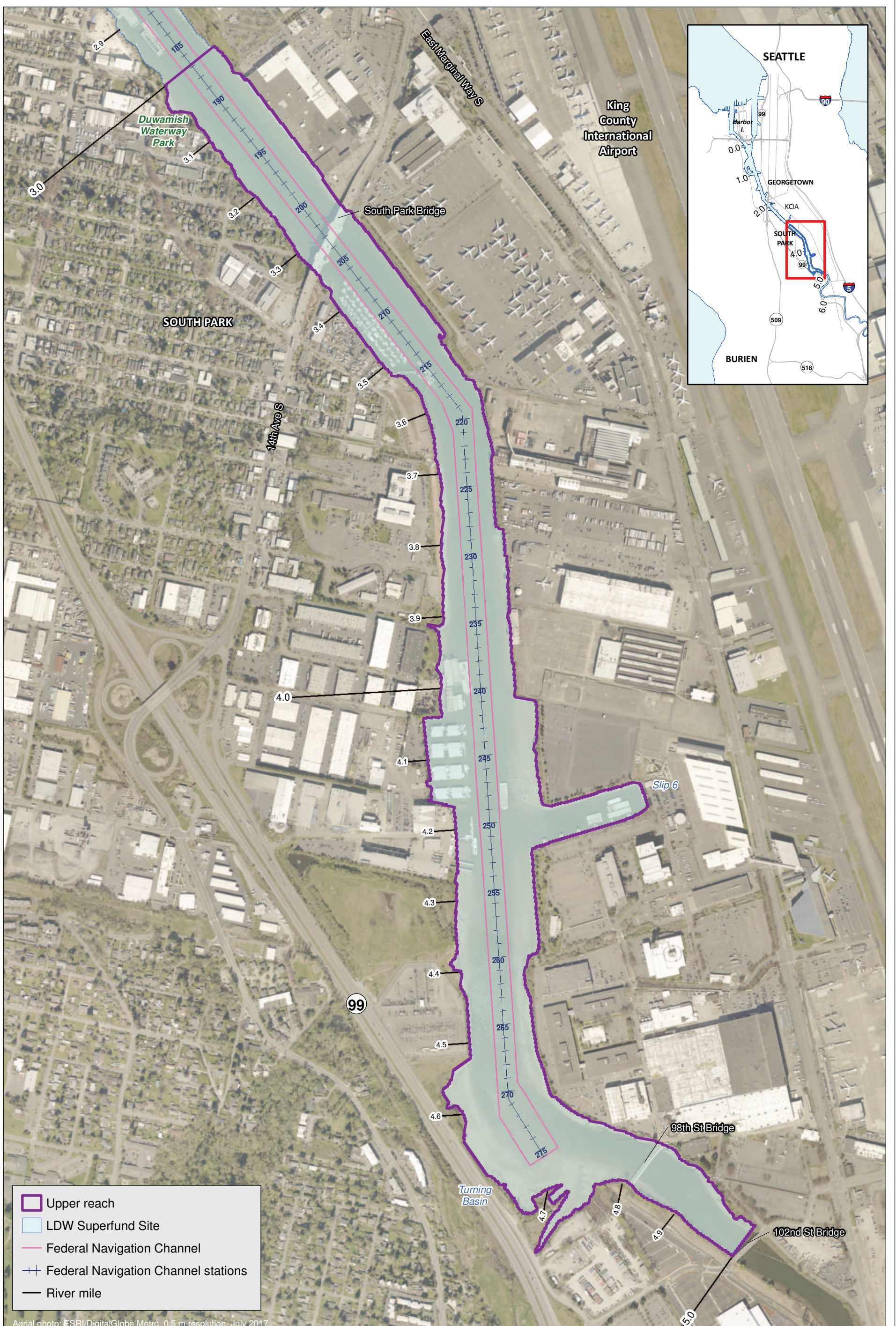
**Figure 2-1. LDW Superfund Site vicinity map**

30% BASIS OF DESIGN REPORT  
FOR THE LDW UPPER REACH

AUGUST 29, 2022

Prepared by: craigh\_b@29/22; W:\Projects\Duwamish AOC\GIS\Maps and Analysis\Phase 1\30 Percent Design\BODR\Fig 02-1 7059 Vicinity map.mxd

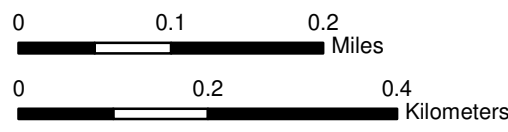




Aerial photo: ESRI/DigitalGlobe Metro, 0.5 m resolution, July 2017.



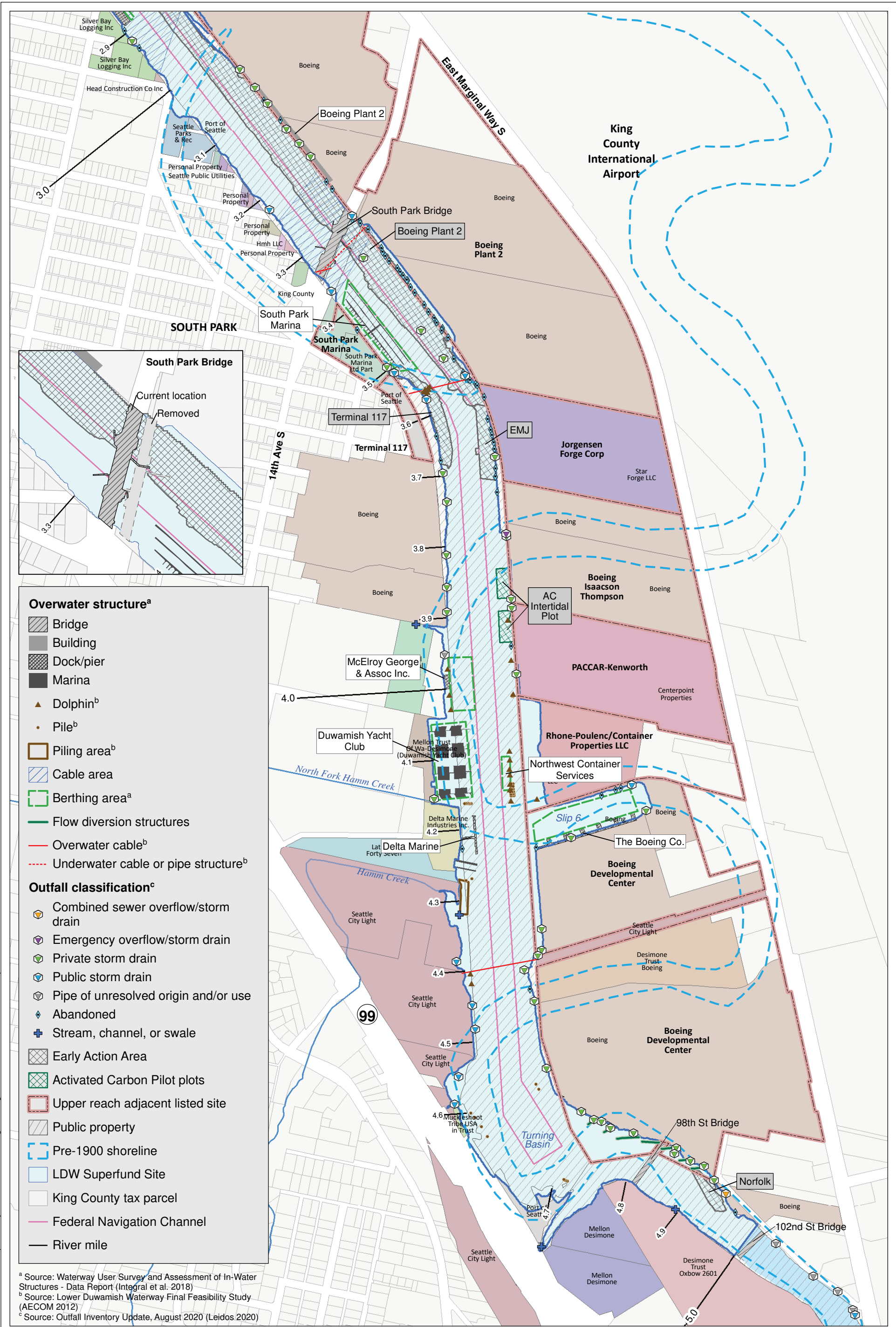
**Lower Duwamish Waterway Group**  
 Port of Seattle / City of Seattle / King County / The Boeing Company



**Figure 2-2. Upper reach vicinity map**  
 30% BASIS OF DESIGN REPORT  
 FOR THE LDW UPPER REACH  
 AUGUST 29, 2022

Prepared by: craigh, 8/29/22; W:\Projects\Duwamish\AOC\GIS\Maps and Analyses\Phase 1\30 Percent Design\BODR\Fig 02-2 7059 Upper reach vicinity map.mxd

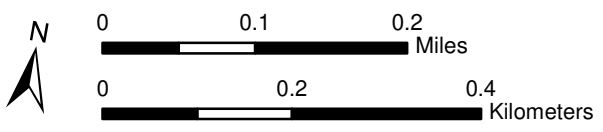




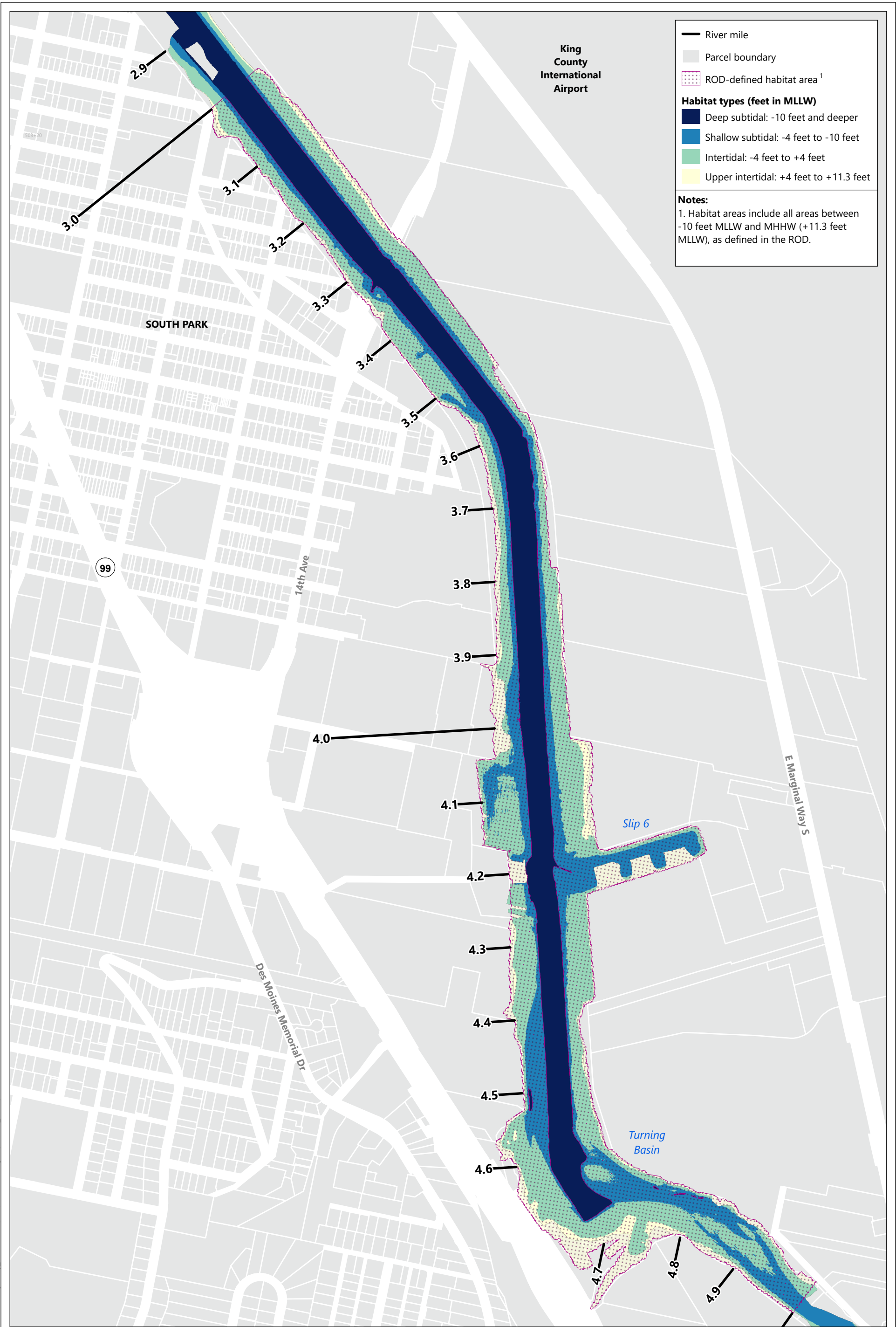
- Overwater structure<sup>a</sup>**
- Bridge
  - Building
  - Dock/pier
  - Marina
  - Dolphin<sup>b</sup>
  - Pile<sup>b</sup>
  - Piling area<sup>b</sup>
  - Cable area
  - Berthing area<sup>a</sup>
  - Flow diversion structures
  - Overwater cable<sup>b</sup>
  - Underwater cable or pipe structure<sup>b</sup>
- Outfall classification<sup>c</sup>**
- Combined sewer overflow/storm drain
  - Emergency overflow/storm drain
  - Private storm drain
  - Public storm drain
  - Pipe of unresolved origin and/or use
  - Abandoned
  - Stream, channel, or swale
  - Early Action Area
  - Activated Carbon Pilot plots
  - Upper reach adjacent listed site
  - Public property
  - Pre-1900 shoreline
  - LDW Superfund Site
  - King County tax parcel
  - Federal Navigation Channel
  - River mile

<sup>a</sup> Source: Waterway User Survey and Assessment of In-Water Structures - Data Report (Integral et al. 2018)  
<sup>b</sup> Source: Lower Duwamish Waterway Final Feasibility Study (AECOM 2012)  
<sup>c</sup> Source: Outfall Inventory Update, August 2020 (Leidos 2020)

Prepared by: craigh. 8/29/22: W:\Projects\Duwamish ACOA\GIS\Maps and Analyses\Phase 1\30 Percent Design\BODR\Fig 02-3 7460 Infrastructure EAAs and ownership.mxd



**Figure 2-3. Infrastructure, early action areas, upland sites, and land ownership**  
 30% BASIS OF DESIGN REPORT FOR THE LDW UPPER REACH  
 AUGUST 29, 2022



— River mile

▭ Parcel boundary

▭ ROD-defined habitat area<sup>1</sup>

**Habitat types (feet in MLLW)**

- ▭ Deep subtidal: -10 feet and deeper
- ▭ Shallow subtidal: -4 feet to -10 feet
- ▭ Intertidal: -4 feet to +4 feet
- ▭ Upper intertidal: +4 feet to +11.3 feet

**Notes:**

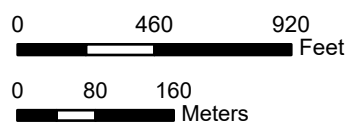
1. Habitat areas include all areas between -10 feet MLLW and MHHW (+11.3 feet MLLW), as defined in the ROD.

Prepared by JIanson, 8/19/2022, I:\projects\GIS\Jobs\KingCounty\_0067\LDW\Maps\Reports\BasisDesign\Report\LDW\_BDR.aprx

**Windward**  
environmental LLC

**ANCHOR QEA**

**Lower Duwamish Waterway Group**  
Port of Seattle / City of Seattle / King County / The Boeing Company

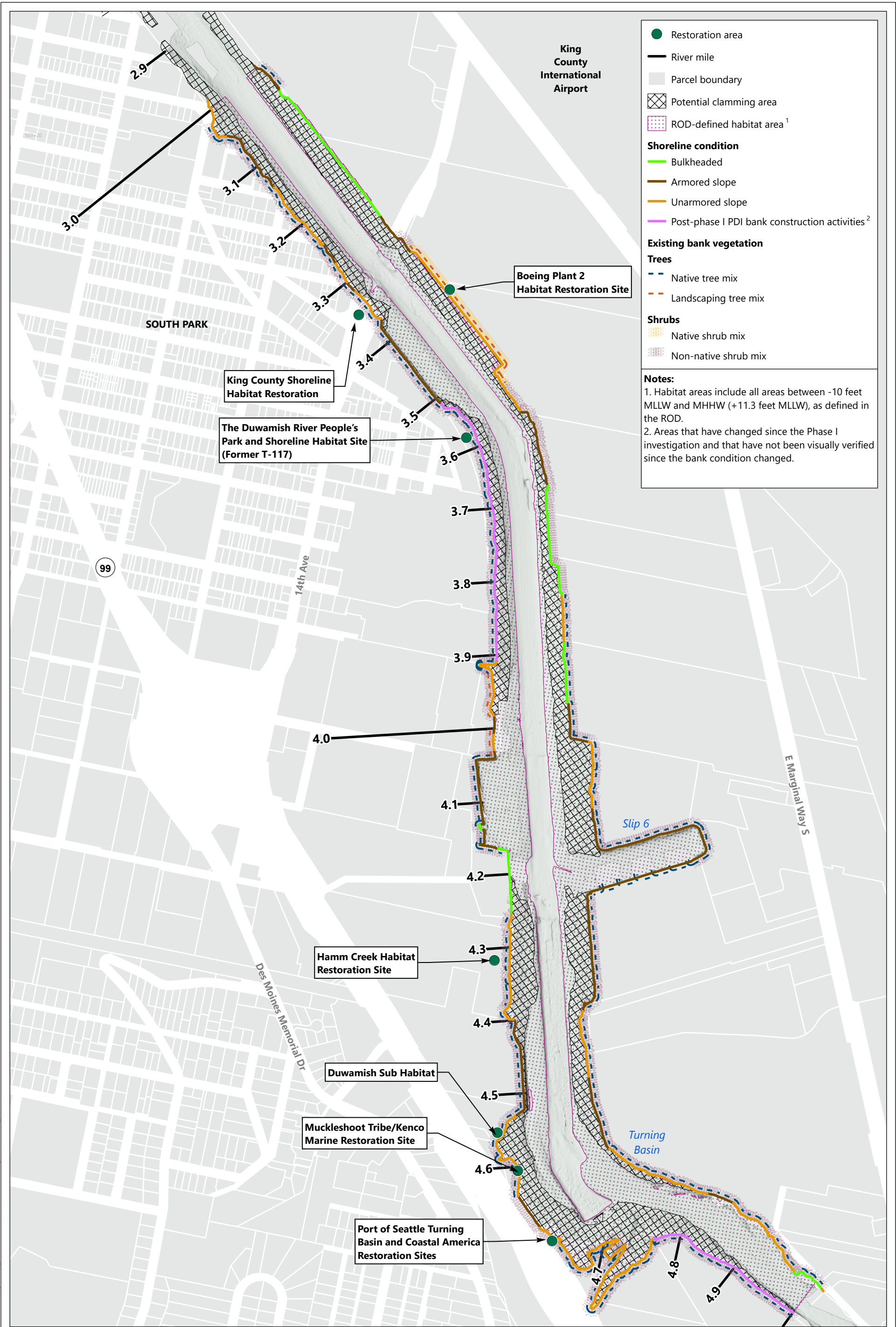


**Map 2-4a**  
**Existing habitat types and ROD-defined habitat areas**

BASIS OF DESIGN REPORT FOR THE  
LDW UPPER REACH

AUGUST 29, 2022





- Restoration area
- River mile
- ▭ Parcel boundary
- ▨ Potential clamming area
- ▨ ROD-defined habitat area<sup>1</sup>

**Shoreline condition**

- Bulkheaded
- Armored slope
- Unarmored slope
- Post-phase I PDI bank construction activities<sup>2</sup>

**Existing bank vegetation**

**Trees**

- Native tree mix
- Landscaping tree mix

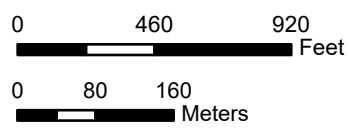
**Shrubs**

- Native shrub mix
- Non-native shrub mix

**Notes:**

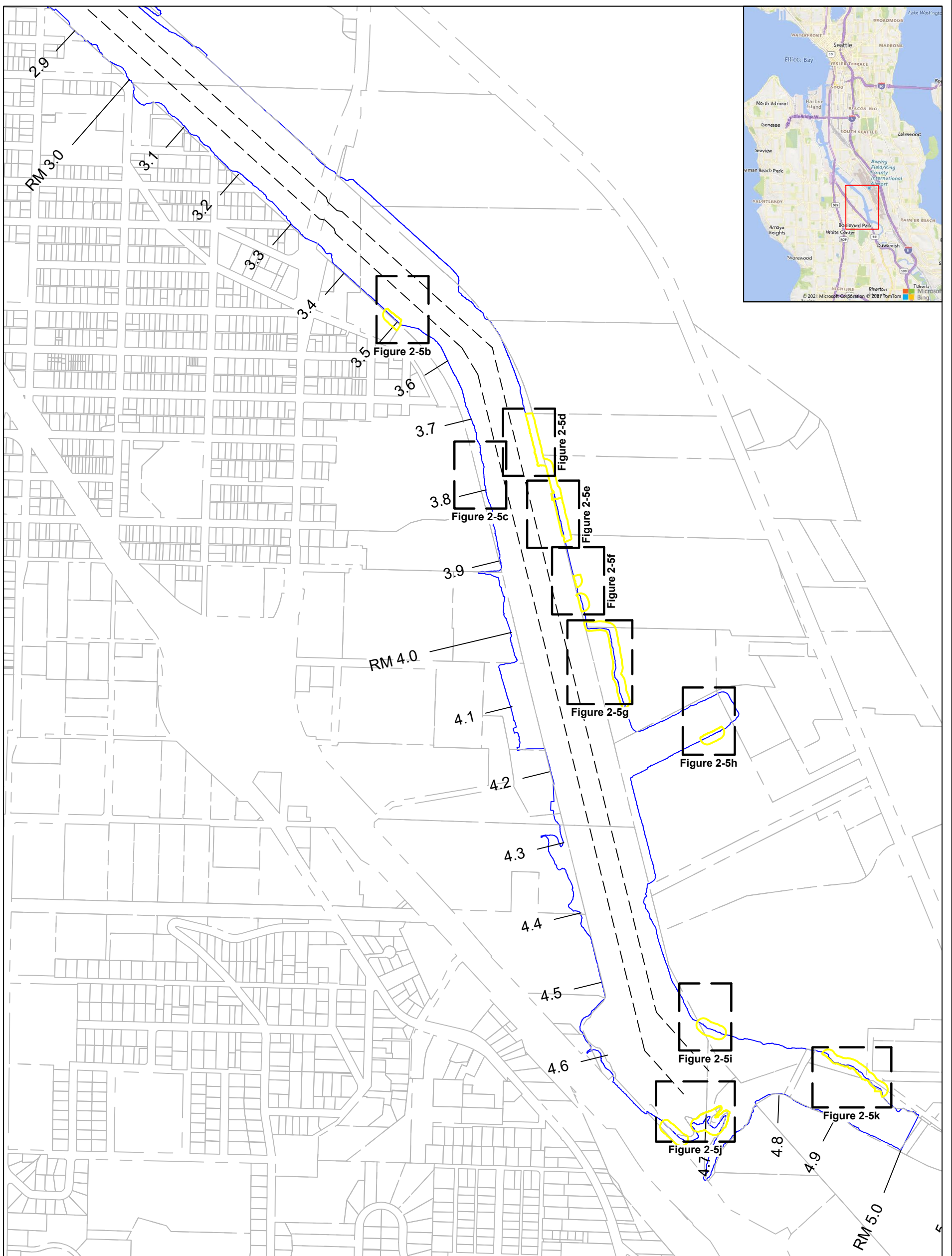
1. Habitat areas include all areas between -10 feet MLLW and MHHW (+11.3 feet MLLW), as defined in the ROD.
2. Areas that have changed since the Phase I investigation and that have not been visually verified since the bank condition changed.

Prepared by JIanson, 8/22/2022, I:\projects\GIS\Jobs\KingCounty\_0067\LDW\Maps\Reports\BasisDesign\Report\LDW\_BDR.aprx





Aug 29, 2022 9:59am tgrlga \\glaia\CAD\Projects\0067-King County\LDW Upper Reach Engineering Services\067-RP-031 Survey Merge Overview.dwg Figure 2-5a



**Source:** Topographic survey by True North Land Surveying, Inc. performed between June 30, 2021 and August 10, 2021. Bathymetric survey by Northwest Hydro performed between April 18, 2019 and May 15, 2019. Additional survey by Northwest Hydro performed June 2020. Composite data updated December 23, 2020. LiDAR survey from Puget Sound LiDAR Consortium dated 2016.

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

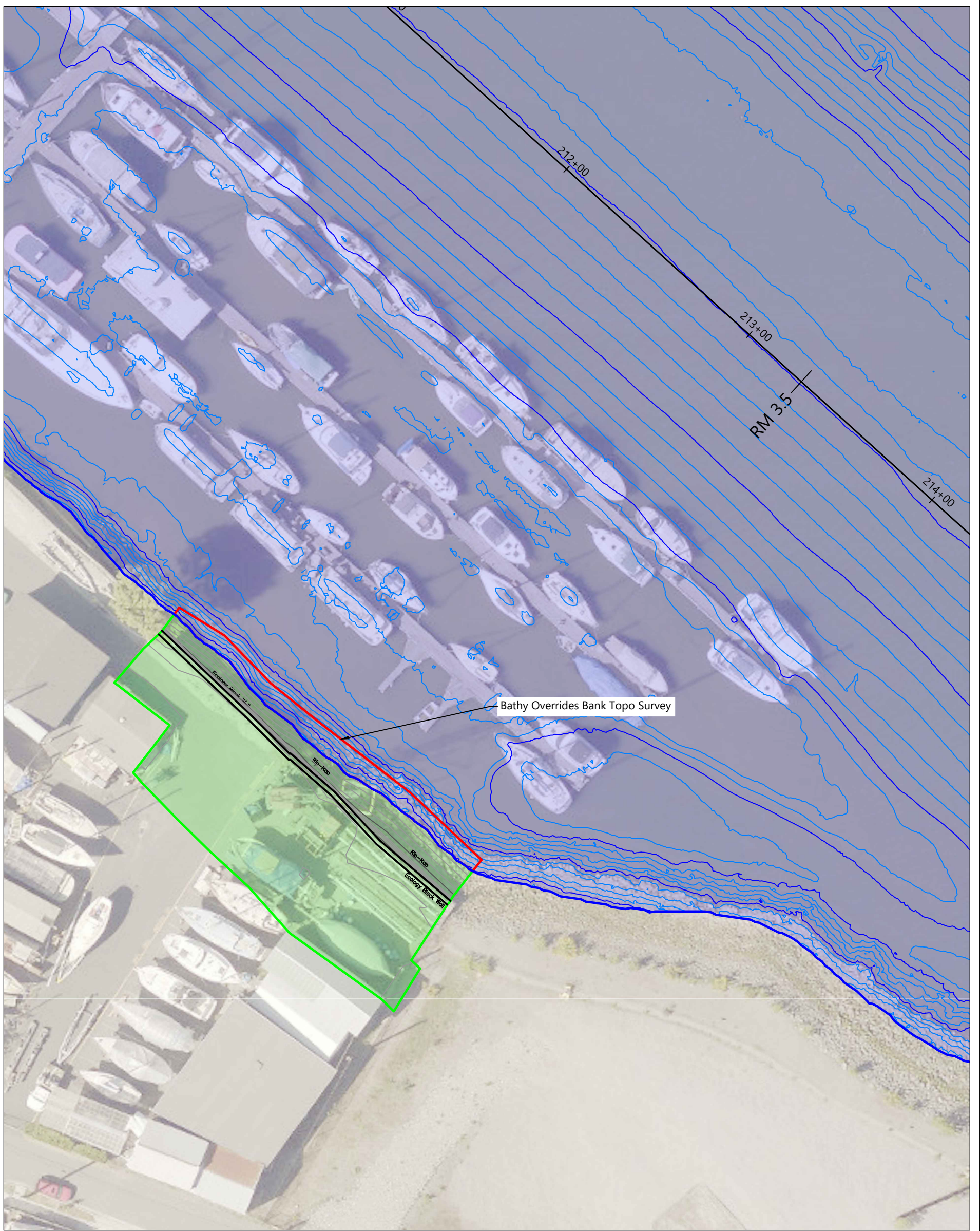
**Vertical Datum:** Mean Lower Low Water (MLLW), MLLW Converted from NAD88 (NAVD88 + 2.34' to MLLW)

- Legend:**
- Federal Navigation Channel
  - Channel Centerline  
250+00
  - LDW Upper Reach Approximate Boundary
  - Topographic Survey Area
  - Figure Extents



**Figure 2-5a.**  
Bathymetric/topographic survey merging overview





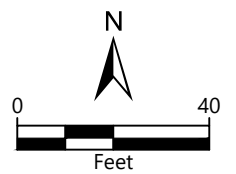
**Source:** Topographic survey by True North Land Surveying, Inc. performed between June 30, 2021 and August 10, 2021. Bathymetric survey by Northwest Hydro performed between April 18, 2019 and May 15, 2019. Additional survey by Northwest Hydro performed June 2020. Composite data updated December 23, 2020. LiDAR survey from Puget Sound LiDAR Consortium dated 2016.

**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)

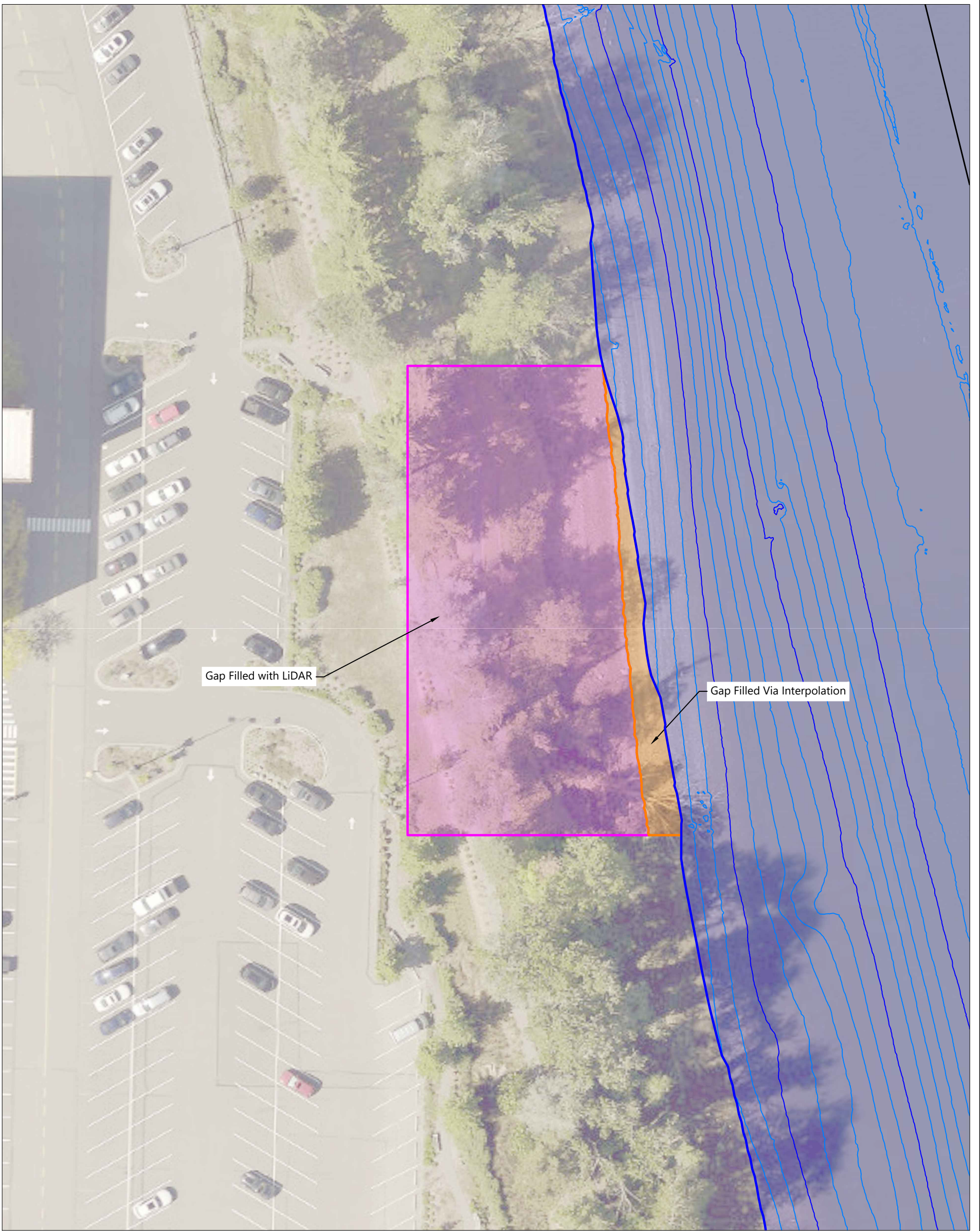
**Legend:**

- 2019/2020 Northwest Hydro Bathymetric Survey Extent
- 2021 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 2-5b.**  
Bathymetric/topographic merging plan




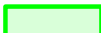







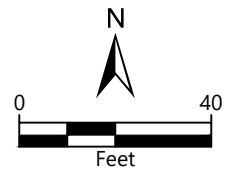
**Source:** Topographic survey by True North Land Surveying, Inc. performed between June 30, 2021 and August 10, 2021. Bathymetric survey by Northwest Hydro performed between April 18, 2019 and May 15, 2019. Additional survey by Northwest Hydro performed June 2020. Composite data updated December 23, 2020. LiDAR survey from Puget Sound LiDAR Consortium dated 2016.

**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)

**Legend:**

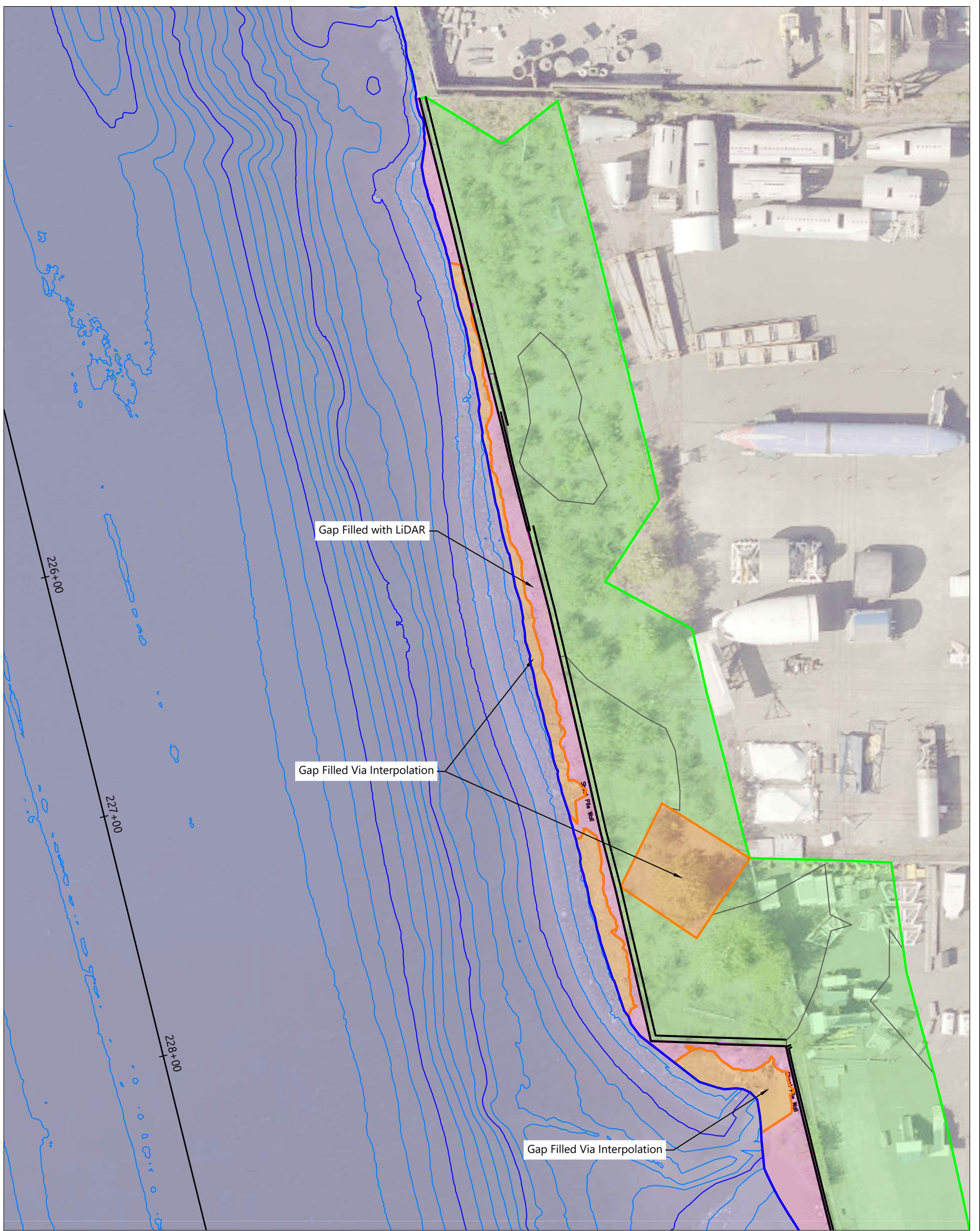
-  2019/2020 Northwest Hydro Bathymetric Survey Extent
-  2021 True North Bank Topographic Survey Extent (Not Shown where Bathymetric Survey Overrides Topo)
-  2016 Puget Sound LiDAR Consortium Survey LiDAR Data (Used to Fill in Gap between Bathymetric and Topographic Surveys)
-  Data Gap Filled Via Interpolation
-  Area where Bathymetric Survey Overrides Topographic Survey
-  Bathymetric Survey Contours (1' & 5' Intervals)
-  Topographic Survey Contours (1' & 5' Intervals)



**Figure 2-5c.**  
**Bathymetric/topographic merging plan**

30% BASIS OF DESIGN REPORT FOR THE LOWER DUWAMISH WATERWAY UPPER REACH      **AUGUST 29, 2022**





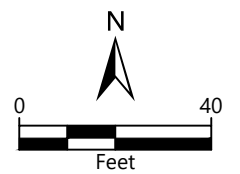
**Source:** Topographic survey by True North Land Surveying, Inc. performed between June 30, 2021 and August 10, 2021. Bathymetric survey by Northwest Hydro performed between April 18, 2019 and May 15, 2019. Additional survey by Northwest Hydro performed June 2020. Composite data updated December 23, 2020. LiDAR survey from Puget Sound LiDAR Consortium dated 2016.

**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)

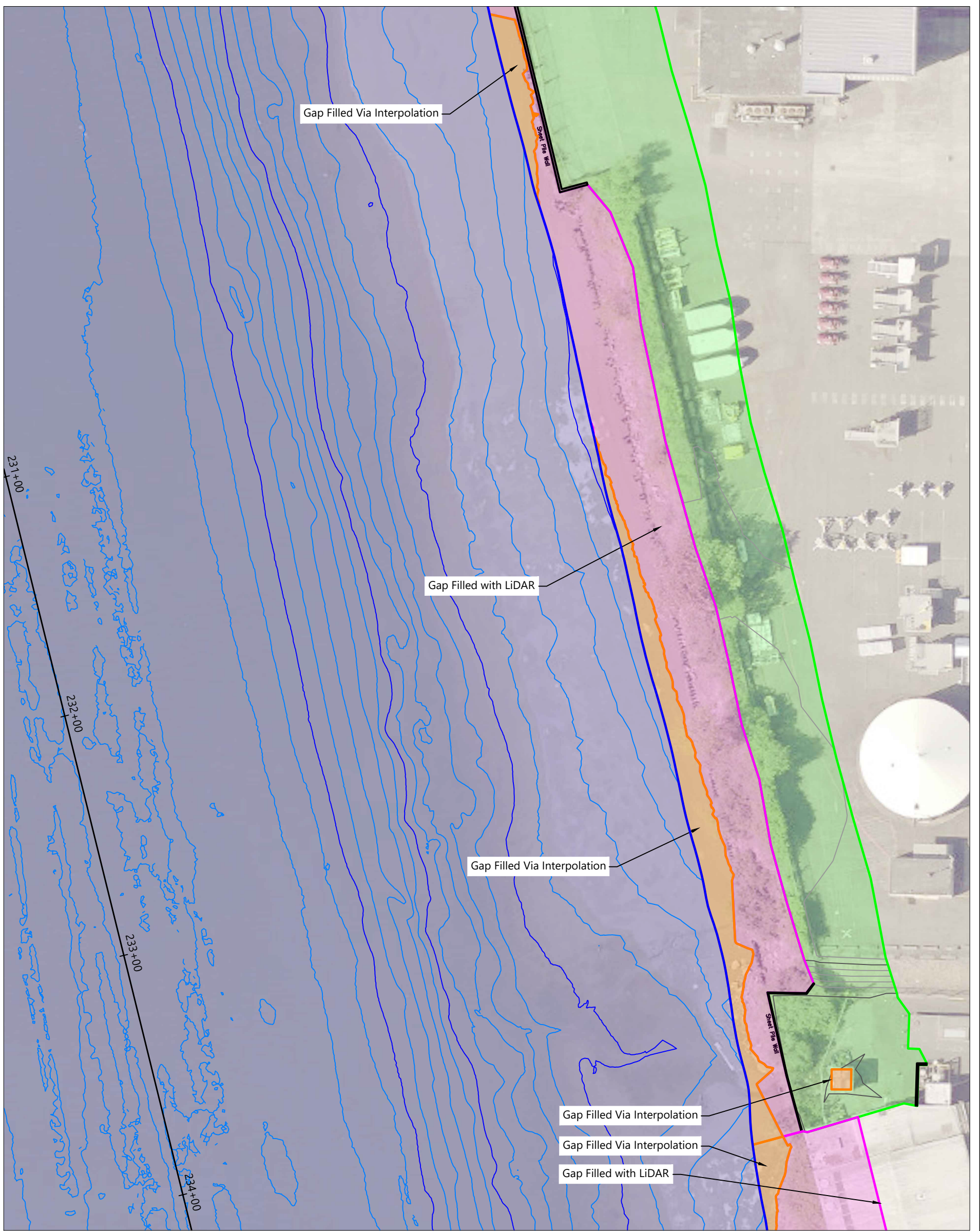
**Legend:**

- 2019/2020 Northwest Hydro Bathymetric Survey Extent
- 2021 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 2-5d.**  
**Bathymetric/topographic merging plan**  
 30% BASIS OF DESIGN REPORT FOR THE LOWER DUWAMISH WATERWAY UPPER REACH  
 AUGUST 29, 2022





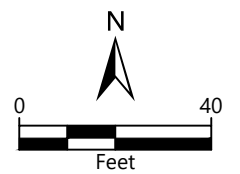
**Source:** Topographic survey by True North Land Surveying, Inc. performed between June 30, 2021 and August 10, 2021. Bathymetric survey by Northwest Hydro performed between April 18, 2019 and May 15, 2019. Additional survey by Northwest Hydro performed June 2020. Composite data updated December 23, 2020. LiDAR survey from Puget Sound LiDAR Consortium dated 2016.

**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)

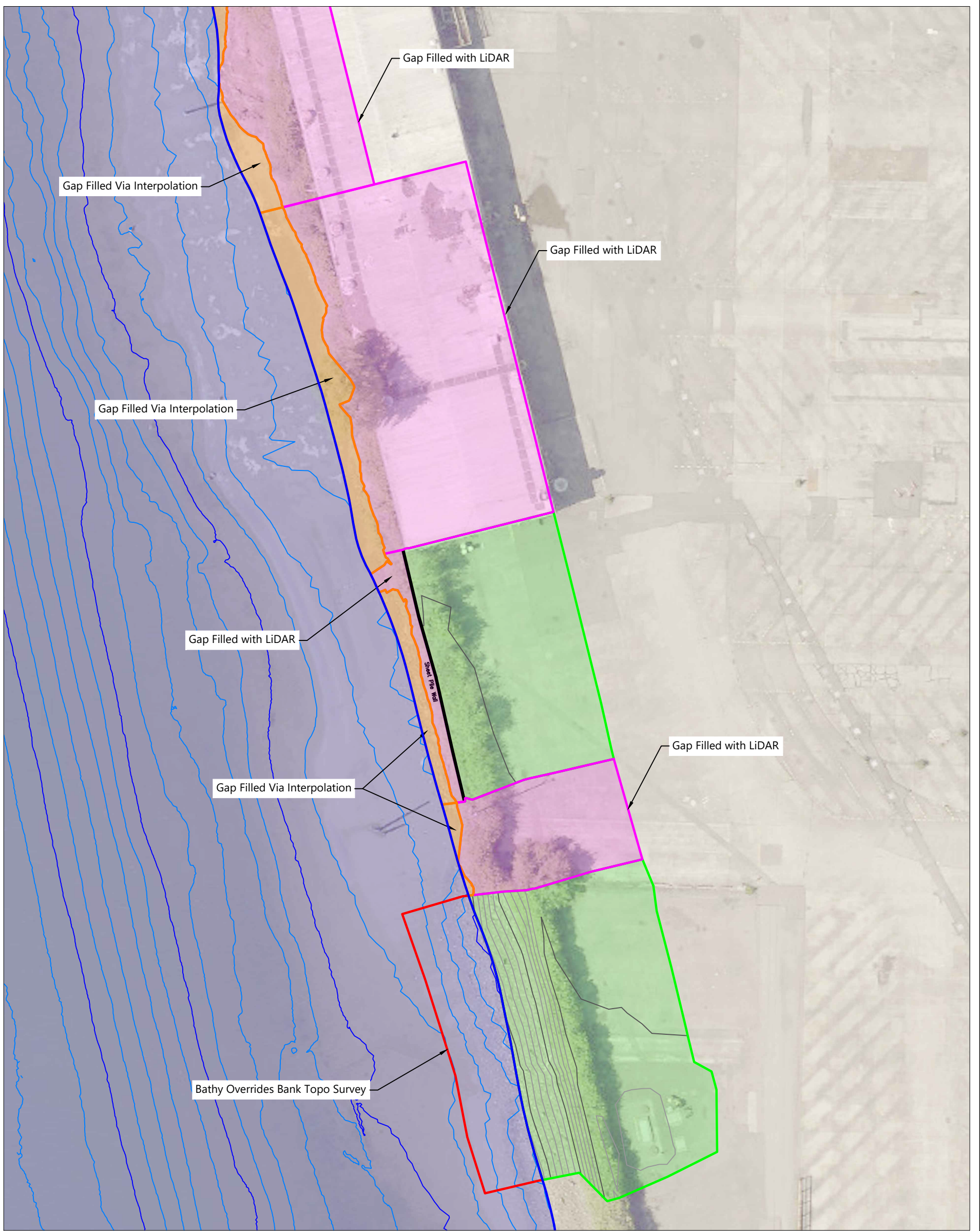
**Legend:**

- 2019/2020 Northwest Hydro Bathymetric Survey Extent
- 2021 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**  
 30% BASIS OF DESIGN REPORT FOR THE LOWER DUWAMISH WATERWAY UPPER REACH  
 AUGUST 29, 2022





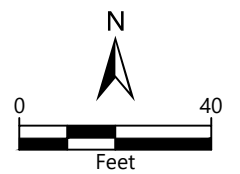
**Source:** Topographic survey by True North Land Surveying, Inc. performed between June 30, 2021 and August 10, 2021. Bathymetric survey by Northwest Hydro performed between April 18, 2019 and May 15, 2019. Additional survey by Northwest Hydro performed June 2020. Composite data updated December 23, 2020. LiDAR survey from Puget Sound LiDAR Consortium dated 2016.

**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)

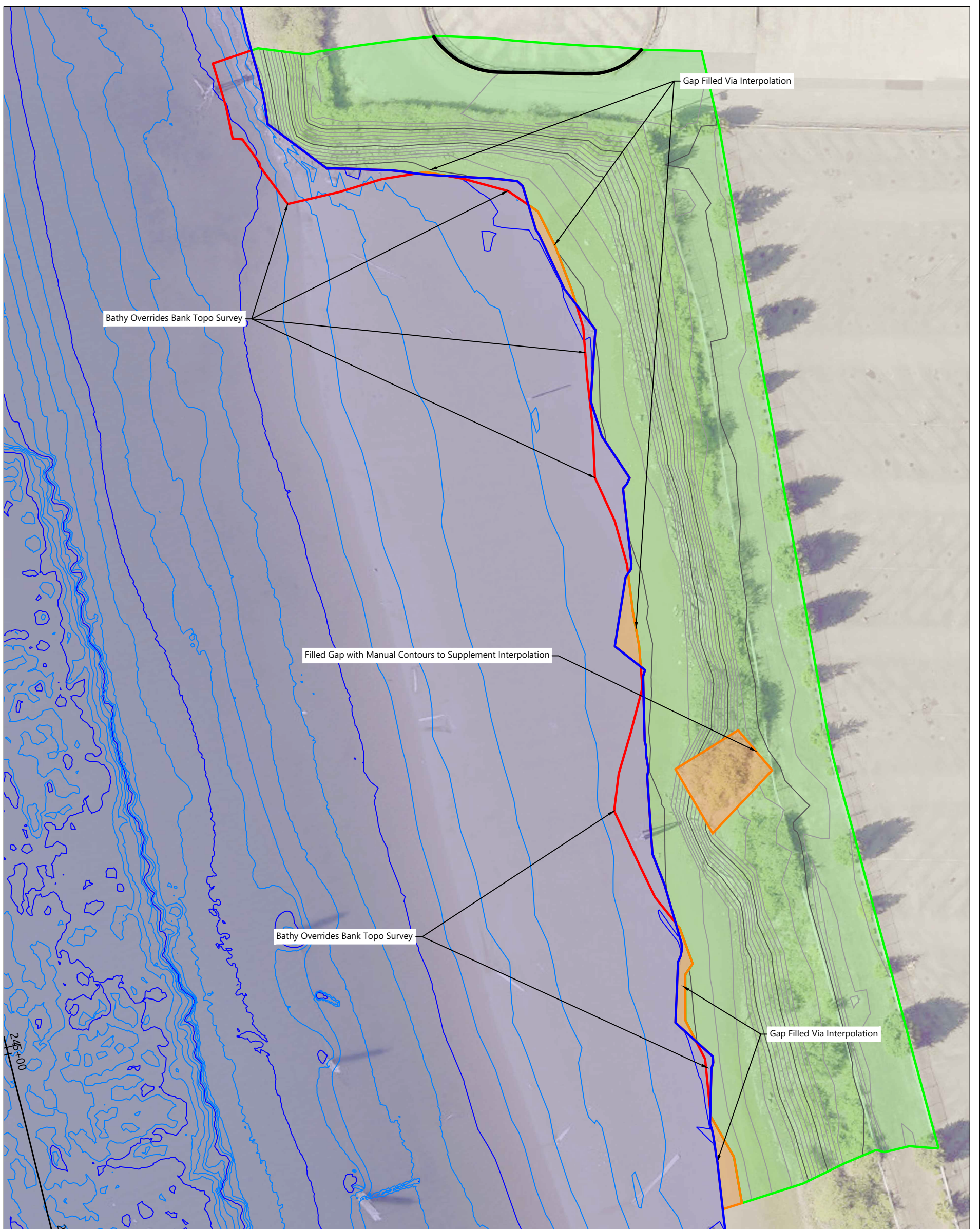
**Legend:**

- 2019/2020 Northwest Hydro Bathymetric Survey Extent
- 2021 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 2-5f.**  
Bathymetric/topographic merging plan





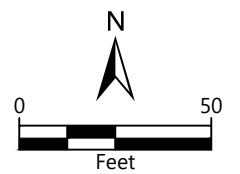
**Source:** Topographic survey by True North Land Surveying, Inc. performed between June 30, 2021 and August 10, 2021. Bathymetric survey by Northwest Hydro performed between April 18, 2019 and May 15, 2019. Additional survey by Northwest Hydro performed June 2020. Composite data updated December 23, 2020. LiDAR survey from Puget Sound LiDAR Consortium dated 2016.

**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)

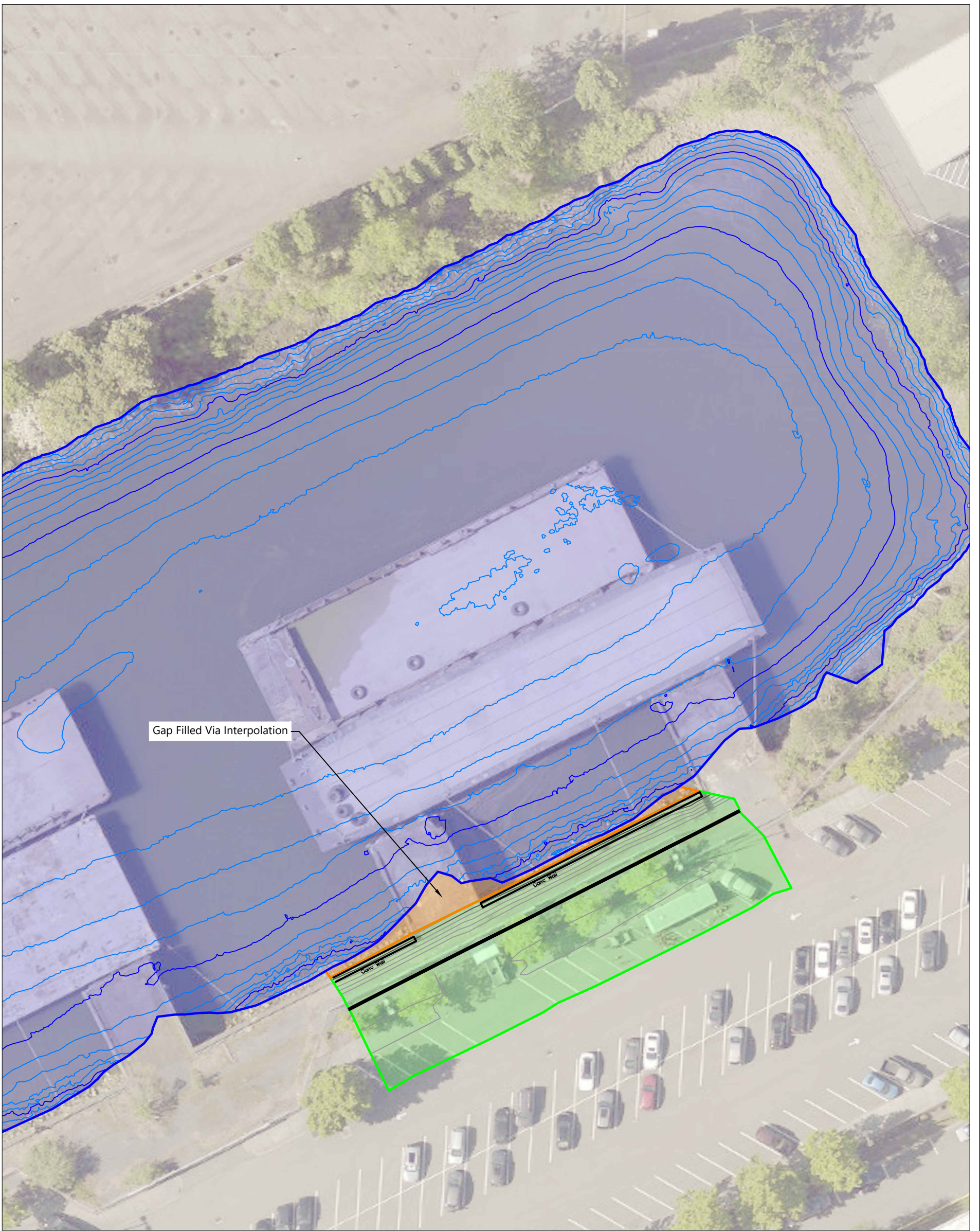
**Legend:**

- 2019/2020 Northwest Hydro Bathymetric Survey Extent
- 2021 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 2-5g.**  
**Bathymetric/topographic merging plan**  
 30% BASIS OF DESIGN REPORT FOR THE LOWER DUWAMISH WATERWAY UPPER REACH  
 AUGUST 29, 2022





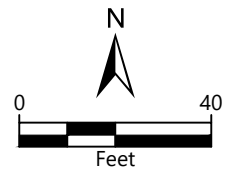
**Source:** Topographic survey by True North Land Surveying, Inc. performed between June 30, 2021 and August 10, 2021. Bathymetric survey by Northwest Hydro performed between April 18, 2019 and May 15, 2019. Additional survey by Northwest Hydro performed June 2020. Composite data updated December 23, 2020. LiDAR survey from Puget Sound LiDAR Consortium dated 2016.

**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)

**Legend:**

- 2019/2020 Northwest Hydro Bathymetric Survey Extent
- 2021 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)

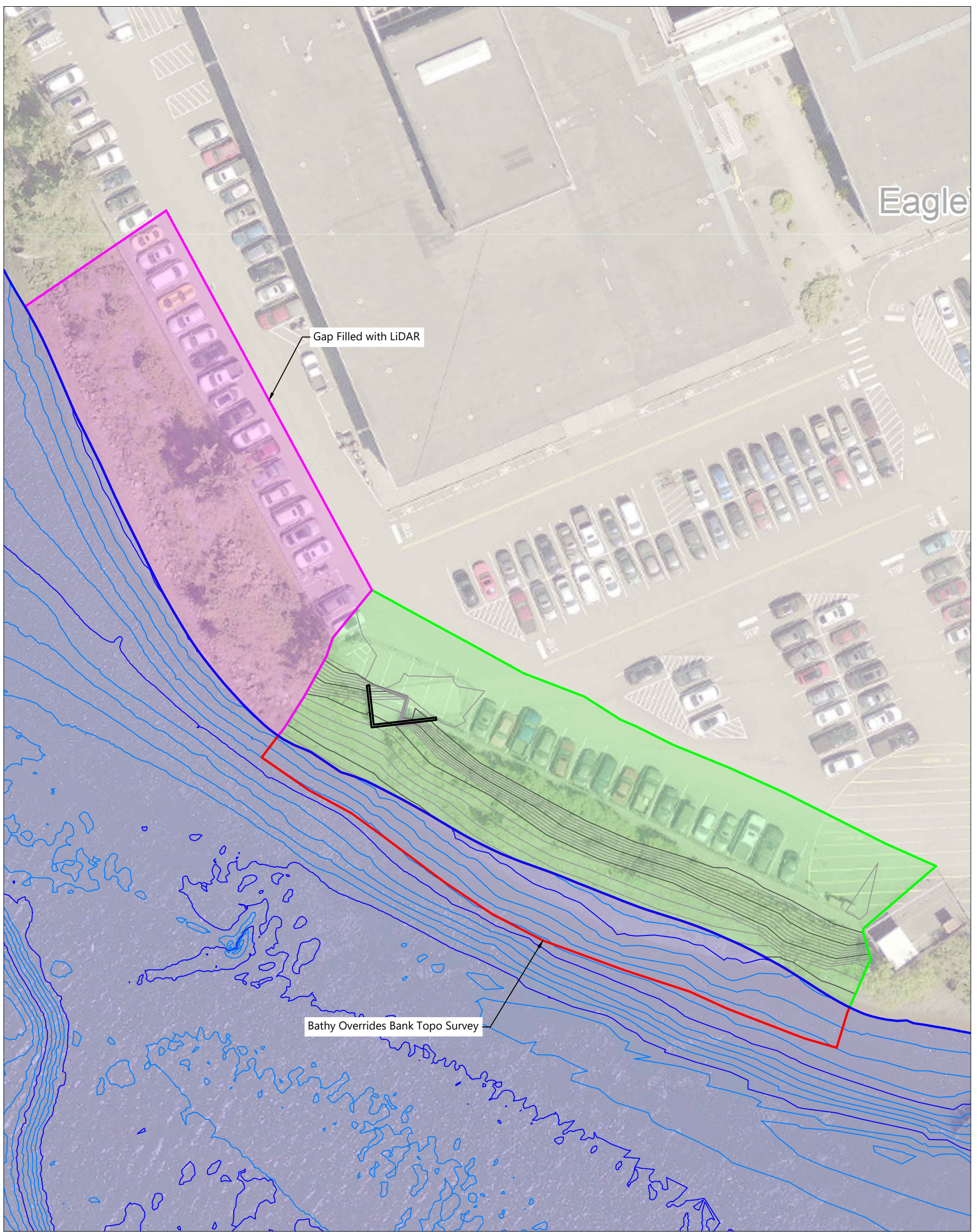


**Figure 2-5h.**  
**Bathymetric/topographic merging plan**

30% BASIS OF DESIGN REPORT FOR THE LOWER DUWAMISH WATERWAY UPPER REACH      **AUGUST 29, 2022**



Eagle



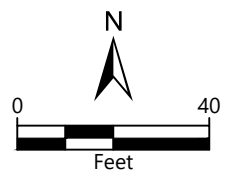
**Source:** Topographic survey by True North Land Surveying, Inc. performed between June 30, 2021 and August 10, 2021. Bathymetric survey by Northwest Hydro performed between April 18, 2019 and May 15, 2019. Additional survey by Northwest Hydro performed June 2020. Composite data updated December 23, 2020. LiDAR survey from Puget Sound LiDAR Consortium dated 2016.

**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)

**Legend:**

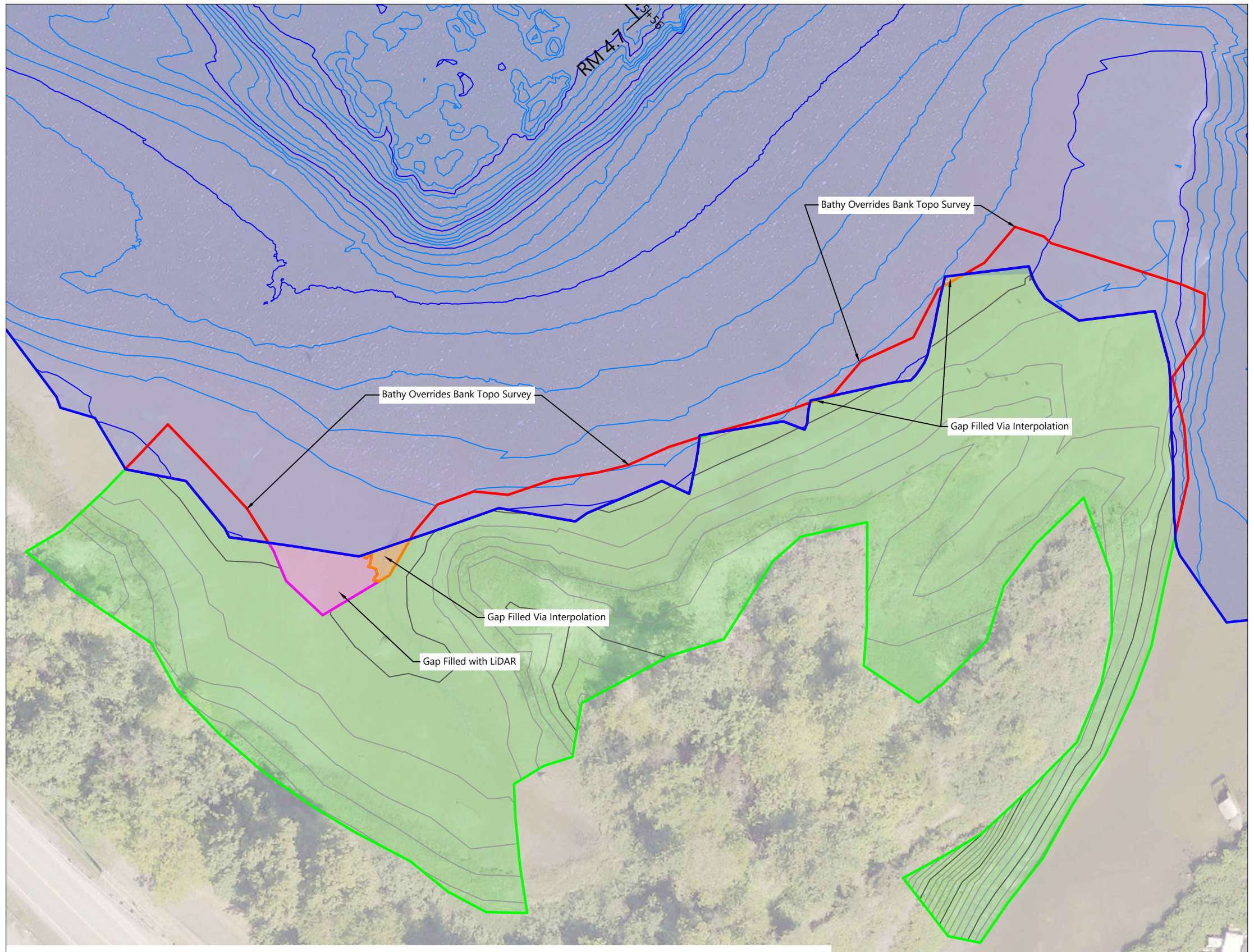
- 2019/2020 Northwest Hydro Bathymetric Survey Extent
- 2021 True North Bank Topographic Survey Extent (Not Shown where Bathymetric Survey Overrides Topo)
- 2016 Puget Sound LiDAR Consortium Survey LiDAR Data (Used to Fill in Gap between Bathymetric and Topographic Surveys)
- Data Gap Filled Via Interpolation
- Area where Bathymetric Survey Overrides Topographic Survey
- Bathymetric Survey Contours (1' & 5' Intervals)
- Topographic Survey Contours (1' & 5' Intervals)




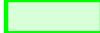



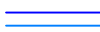

**Figure 2-5i.**  
Bathymetric/topographic merging plan



\\gala\CAD\Projects\067-King County\DW Upper Reach\Engineering Services\067-RP-028 BODR\Bathy Bank Topo Merge.dwg Figure 2-5j  
Aug 29, 2022 11:19am lgrida



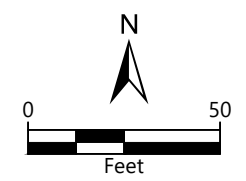
**Legend:**

-  2019/2020 Northwest Hydro Bathymetric Survey Extent
-  2021 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)

**Source:** Topographic survey by True North Land Surveying, Inc. performed between June 30, 2021 and August 10, 2021. Bathymetric survey by Northwest Hydro performed between April 18, 2019 and May 15, 2019. Additional survey by Northwest Hydro performed June 2020. Composite data updated December 23, 2020. LiDAR survey from Puget Sound LiDAR Consortium dated 2016.

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

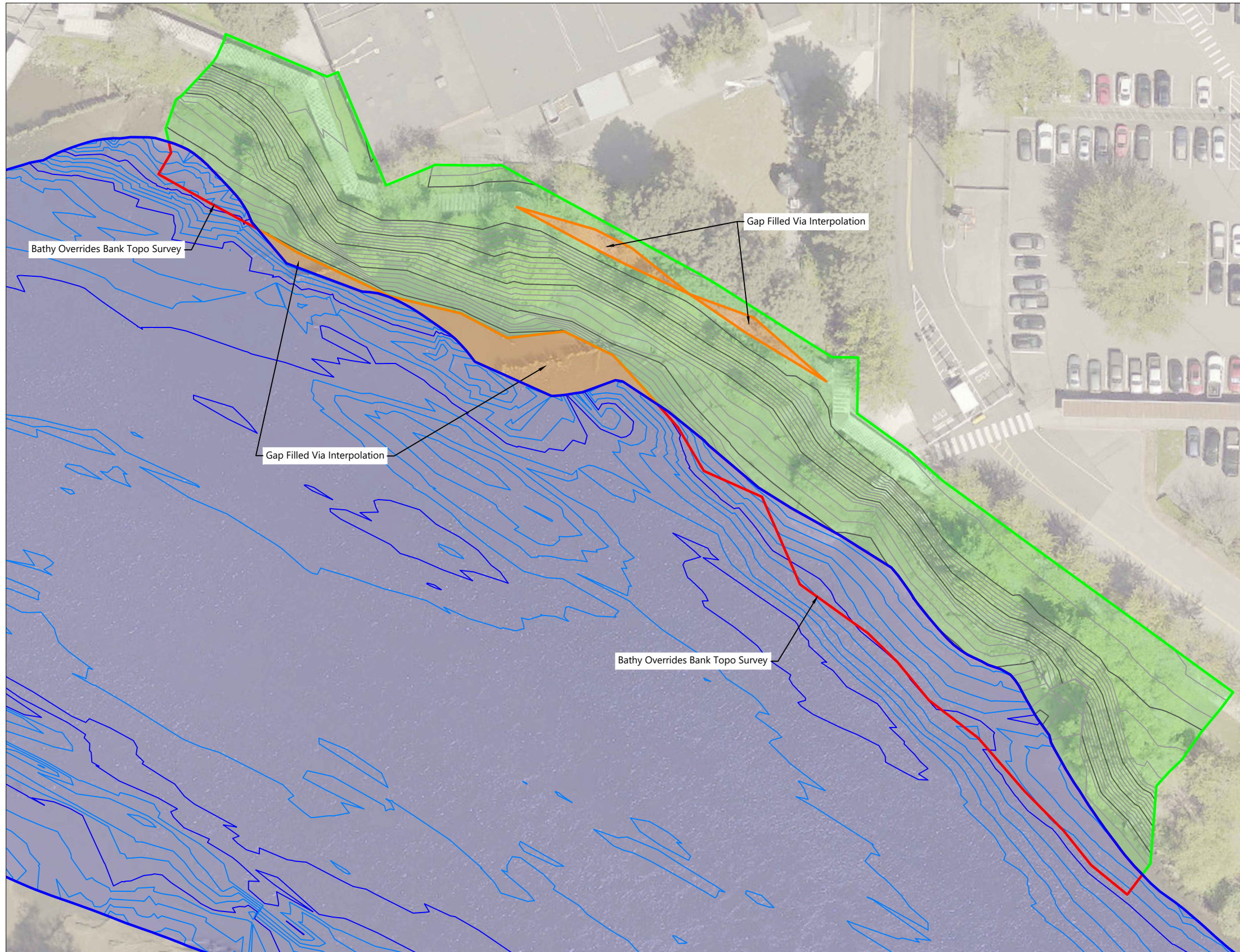
**Vertical Datum:** Mean Lower Low Water (MLLW), MLLW Converted from NAD88 (NAVD88 + 2.34' to MLLW)




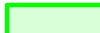





**Figure 2-5j.**  
**Bathymetric/topographic merging plan**



\\gala\CAD\Projects\067-King County\DW Upper Reach\Engineering Services\067-RP-028 BODR\Bathy Bank Topo Merge.dwg Figure 2-5k  
Aug 29, 2022 11:19am lgrida



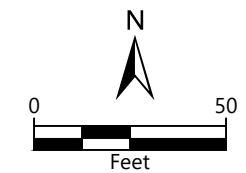
**Legend:**

-  2019/2020 Northwest Hydro Bathymetric Survey Extent
-  2021 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)

**Source:** Topographic survey by True North Land Surveying, Inc. performed between June 30, 2021 and August 10, 2021. Bathymetric survey by Northwest Hydro performed between April 18, 2019 and May 15, 2019. Additional survey by Northwest Hydro performed June 2020. Composite data updated December 23, 2020. LiDAR survey from Puget Sound LiDAR Consortium dated 2016.

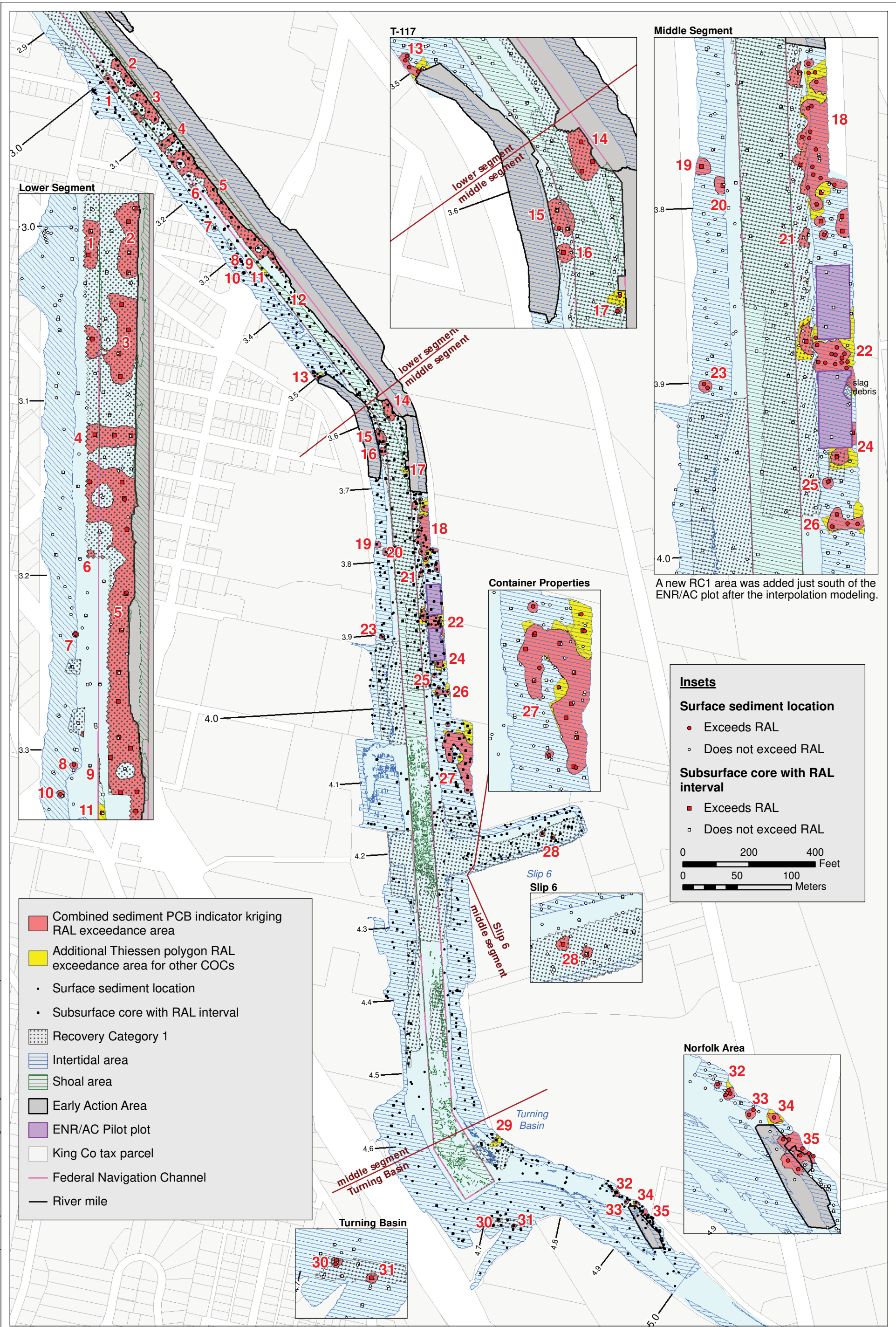
**Horizontal Datum:** Washington State Plane, North Zone, North American Datum of 1983/91, U.S. Survey Feet; WSDOT MON GP17005-176 & GP17005-181

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



**Figure 2-5k.**  
**Bathymetric/topographic merging plan**





**Combined sediment PCB indicator kriging RAL exceedance area**

**Additional Thiessen polygon RAL exceedance area for other COCs**

- Surface sediment location
- Subsurface core with RAL interval

**Recovery Category 1**

**Intertidal area**

**Shoal area**

**Early Action Area**

**ENR/AC Pilot plot**

**King Co tax parcel**

**Federal Navigation Channel**

**River mile**

**Insets**

**Surface sediment location**

- Exceeds RAL
- Does not exceed RAL

**Subsurface core with RAL interval**

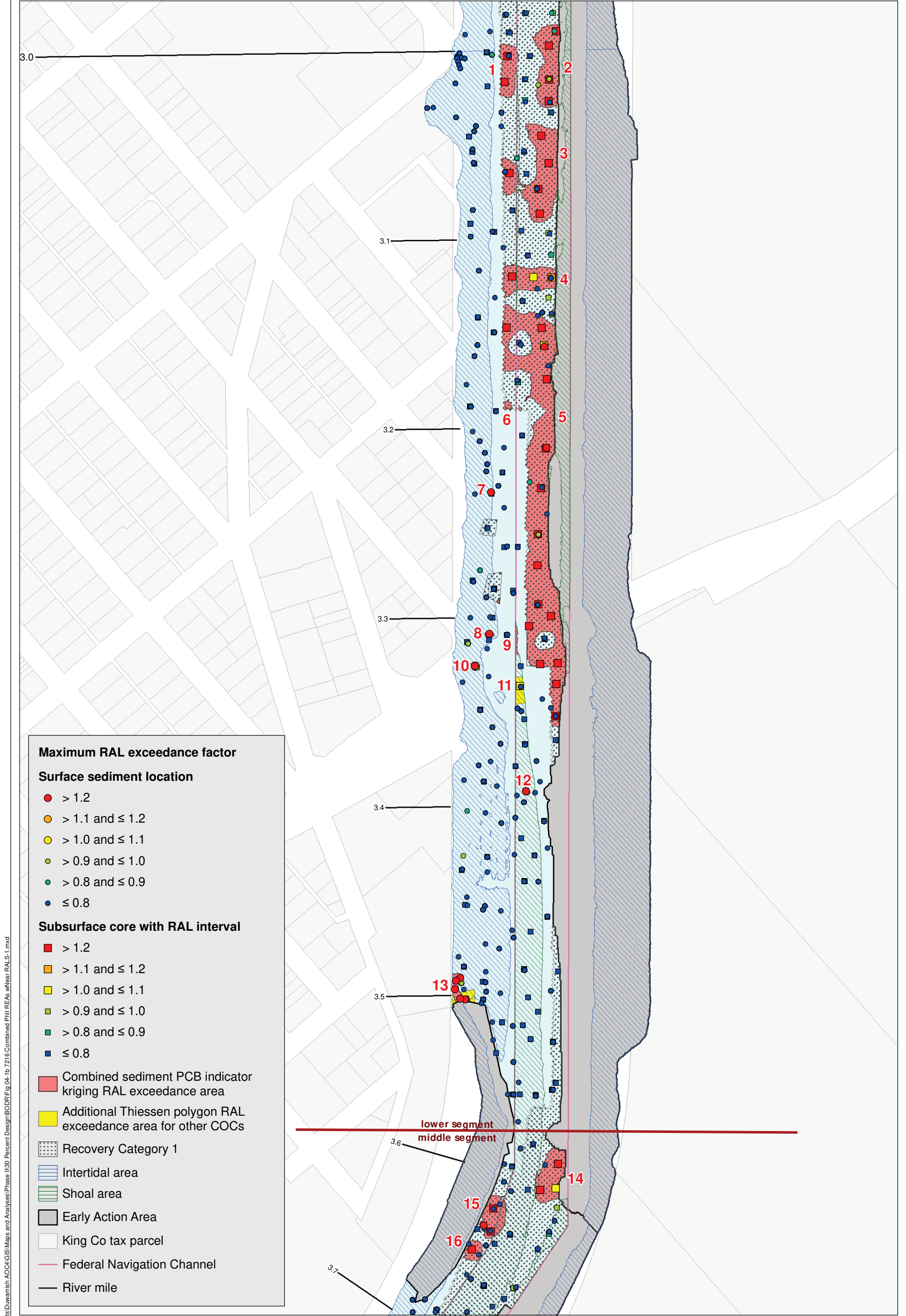
- Exceeds RAL
- Does not exceed RAL

0 200 400 Feet  
0 50 100 Meters

**Figure 4-1a. Total PCB combined surface and subsurface sediment indicator kriging interpolation with Thiessen polygons for other COCs**  
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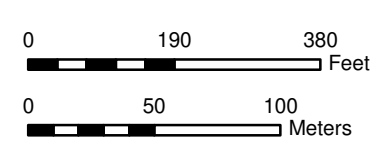
Prepared by craigh. 8/29/22. W:\Projects\Duwamish ACCA\GIS\Maps and Analyses\Phase 1\30 Percent Design\BODR\Fig 04-1a 7216 Combined PHU REAs wThPolys.mxd





- Maximum RAL exceedance factor**
- Surface sediment location**
- > 1.2
  - > 1.1 and ≤ 1.2
  - > 1.0 and ≤ 1.1
  - > 0.9 and ≤ 1.0
  - > 0.8 and ≤ 0.9
  - ≤ 0.8
- Subsurface core with RAL interval**
- > 1.2
  - > 1.1 and ≤ 1.2
  - > 1.0 and ≤ 1.1
  - > 0.9 and ≤ 1.0
  - > 0.8 and ≤ 0.9
  - ≤ 0.8
- Combined sediment PCB indicator kriging RAL exceedance area
  - Additional Thiessen polygon RAL exceedance area for other COCs
  - ▨ Recovery Category 1
  - ▨ Intertidal area
  - ▨ Shoal area
  - ▨ Early Action Area
  - ▨ King Co tax parcel
  - Federal Navigation Channel
  - River mile

Prepared by craigh. 8/29/22: W:\Projects\Duwamish\AOC4\GIS\Maps and Analyses\Phase II\30 Percent Design\BODR\Fig 04-1b 7216 Combined PHU REAs wNear RALS-1.mxd

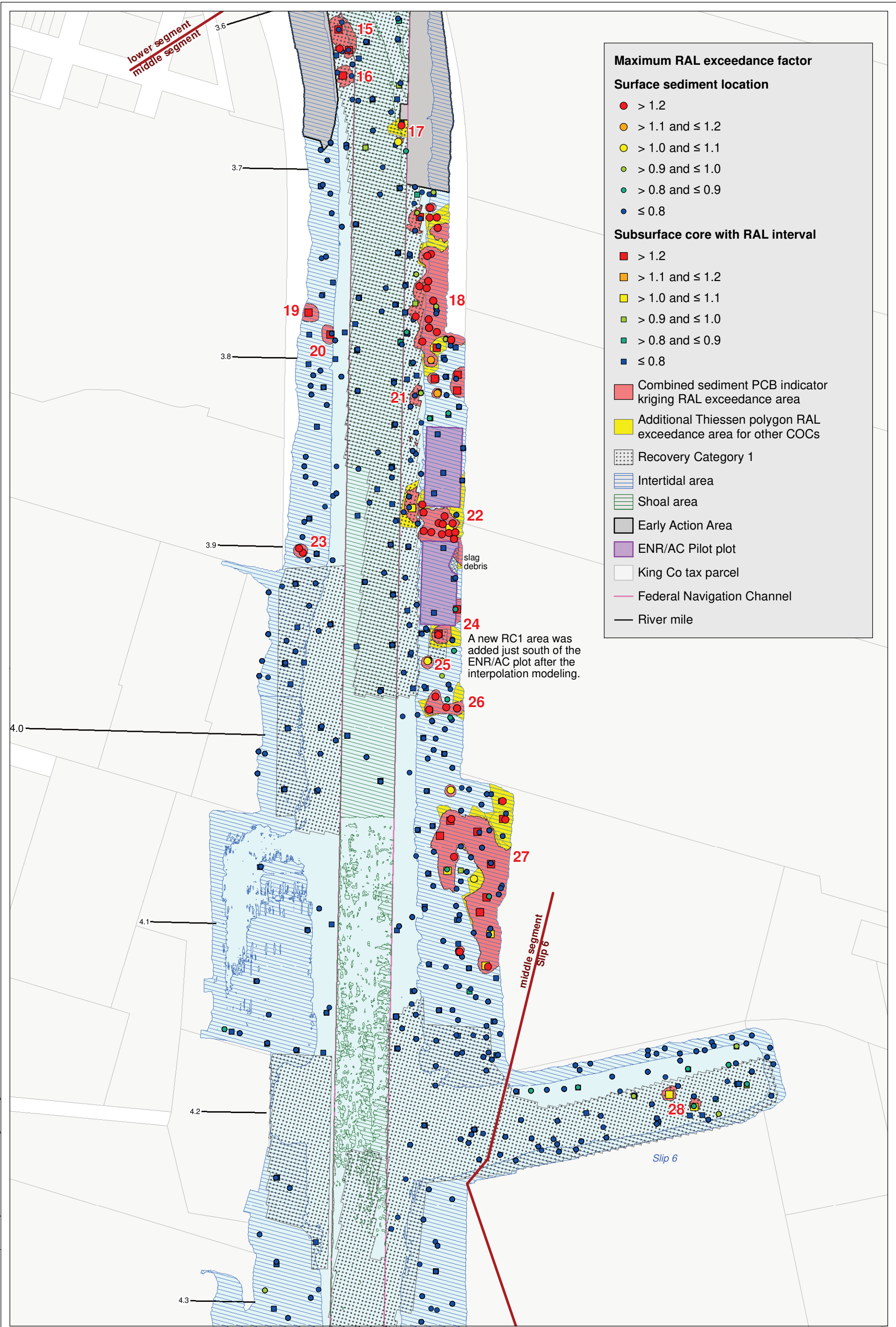


**Figure 4-1b. Combined RAL exceedance areas (PCB interpolation and Thiessen polygons for other COCs) with RAL exceedances, RM 3.0 to RM 3.7**

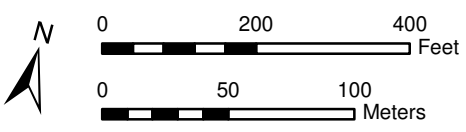
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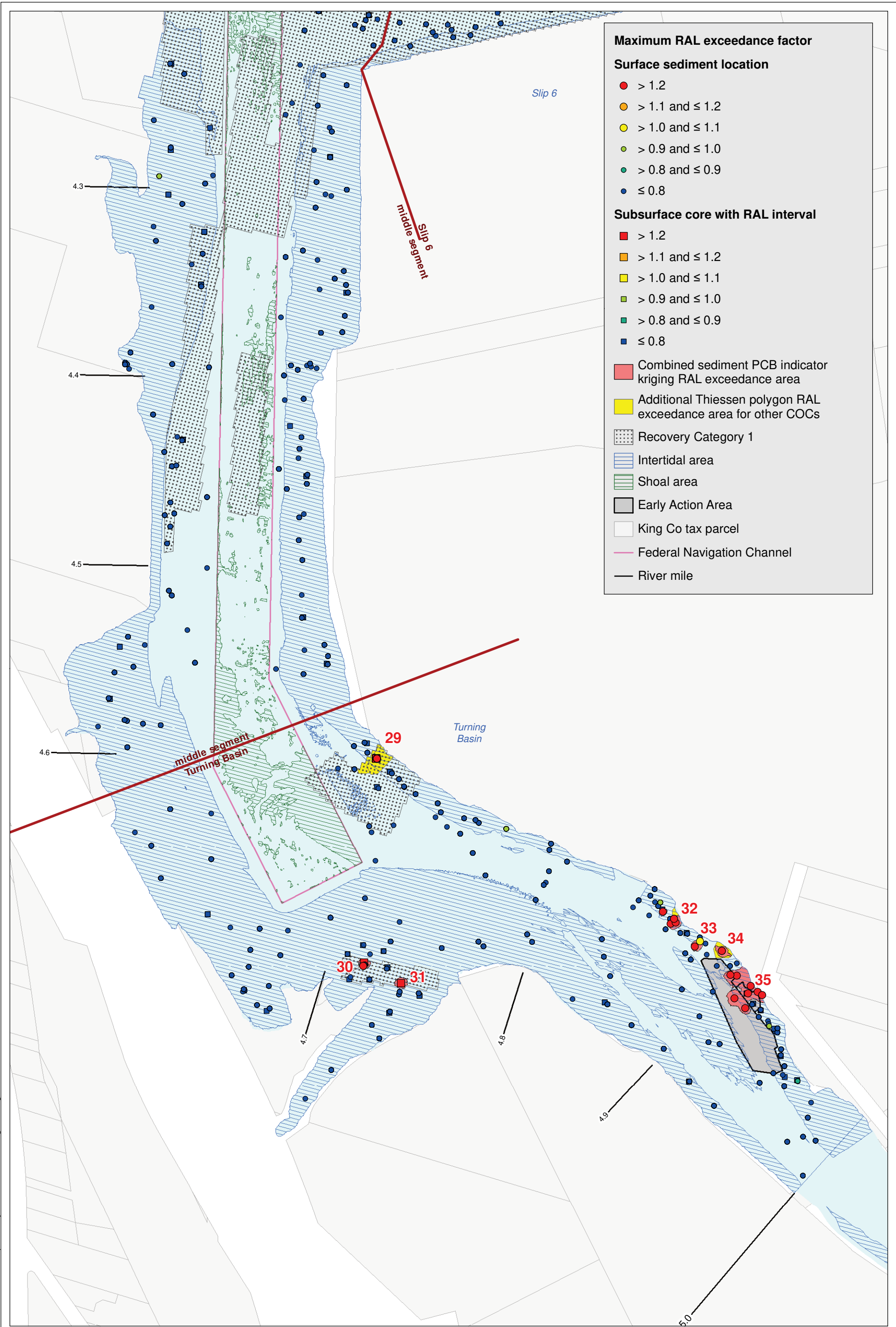


Prepared by craigh. 8/29/22. W:\Projects\Duwamish\AOC4\GIS\Maps and Analyses\Phase 1\30 Percent Design\BODD\Fig 04-1c 7216 Combined PHU REAs wNear RALS 2.mxd

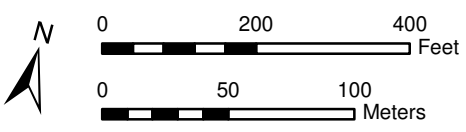


**Figure 4-1c. Combined RAL exceedance areas (PCB interpolation and Thiessen polygons for other COCs) with RAL exceedances, RM 3.7 to RM 4.3**  
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**Figure 4-1d. Combined RAL exceedance areas (PCB interpolation and Thiessen polygons for other COCs) with RAL exceedances, RM 4.3 to RM 5.0**  
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