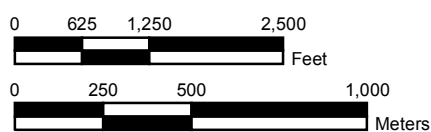


Figure 3-2. Intertidal habitat and crab and shrimp sampling locations in the Lower Duwamish Waterway



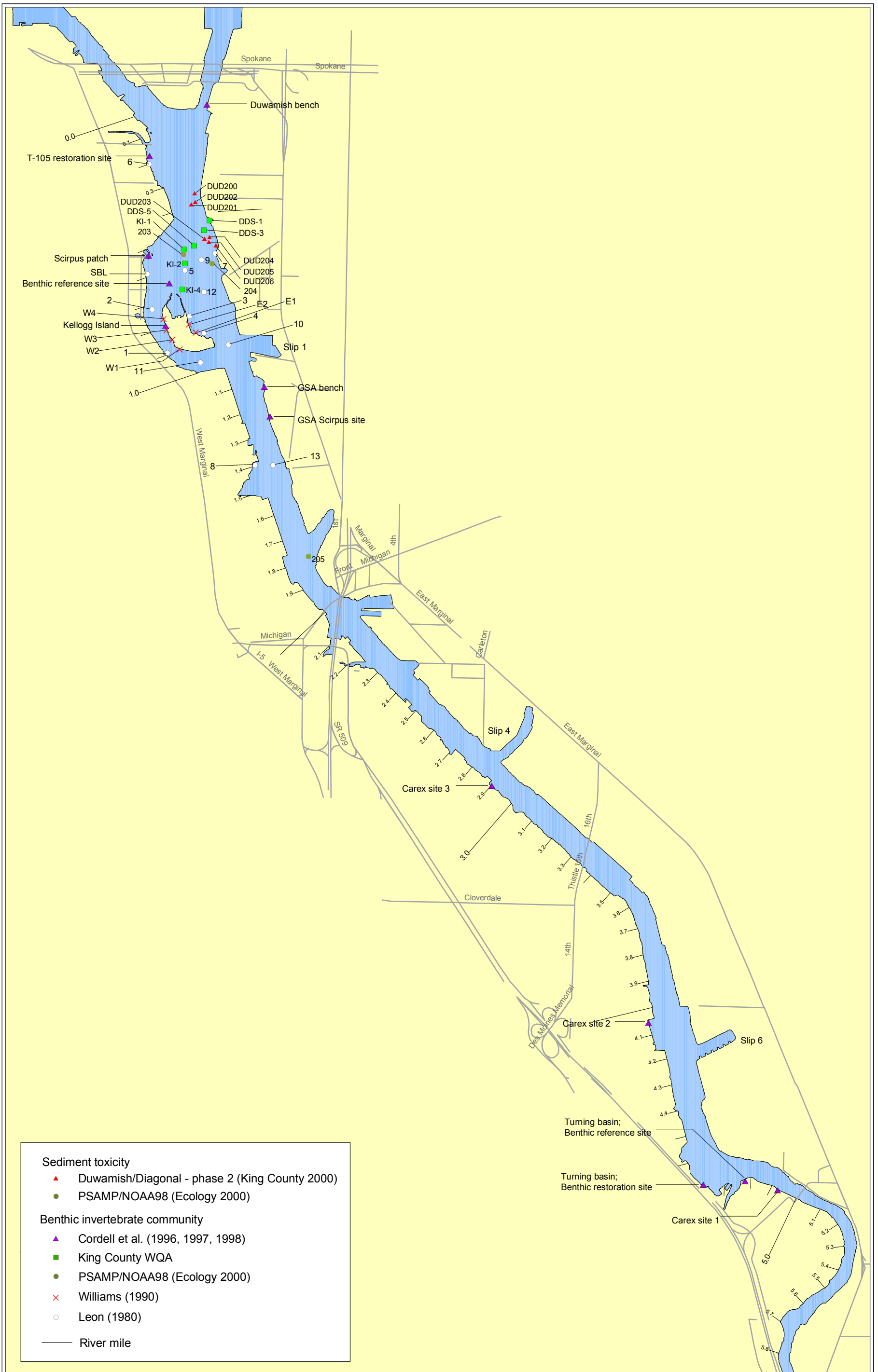
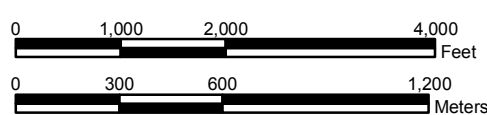


Figure 3-4. Benthic invertebrate community and sediment toxicity test sampling locations in the Lower Duwamish Waterway.



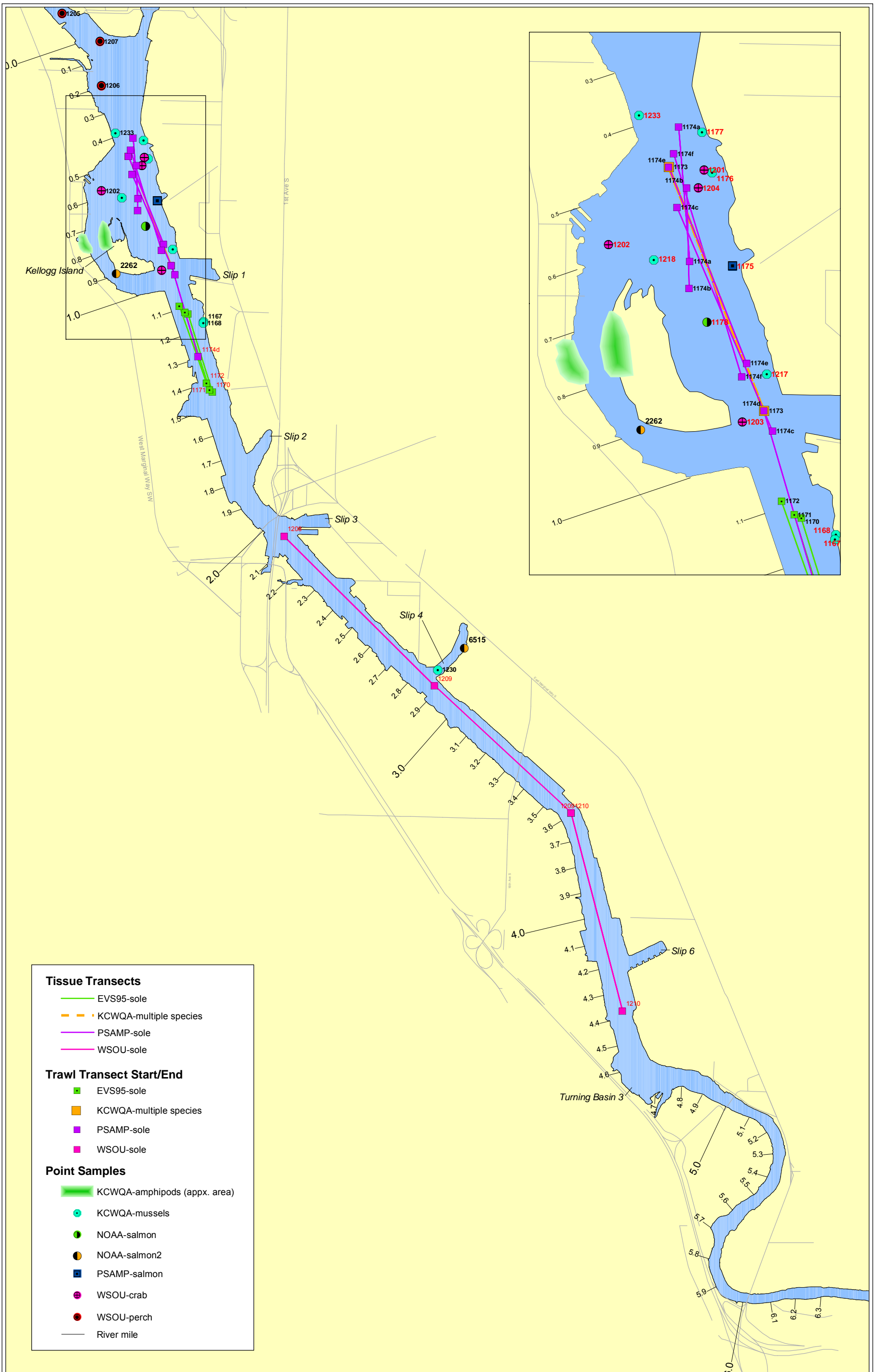
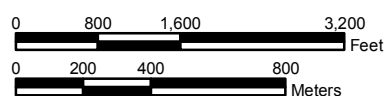


Figure 3-5. Historical LDW tissue sampling locations



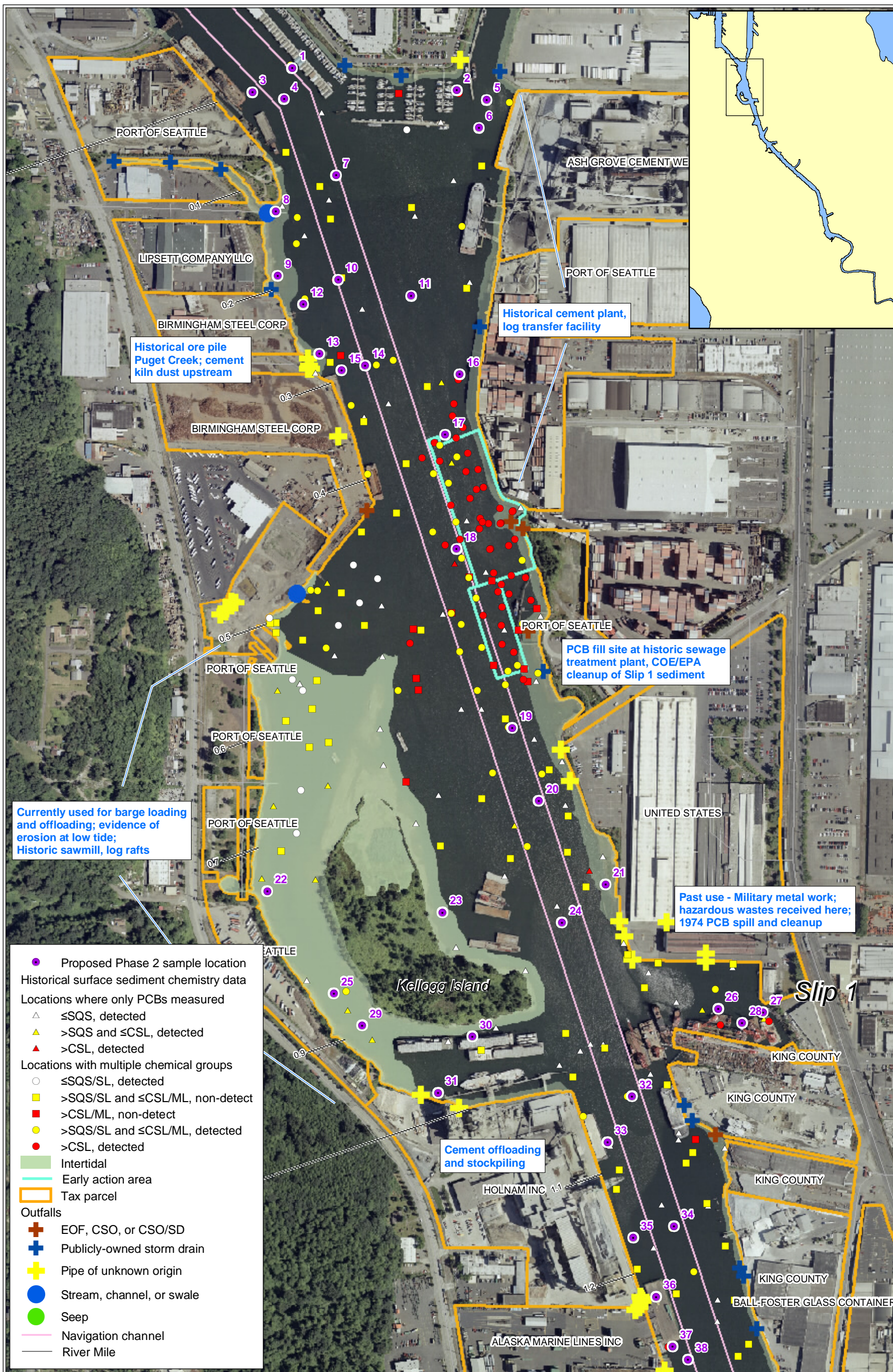
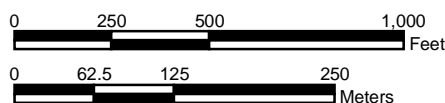


Figure 3-8a. Surface sampling locations for Phase 2 RI and historical surface sediment chemistry data (RM 0 - 1.2)



Windward
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Prepared by RAC 12/22/03 Map 1184

TOC normalization conducted for all samples with TOC concentrations greater than 0.2%. For samples with 0.2% TOC or lower or missing TOC concentrations, chemical concentrations were compared to lowest AET (equivalent to SQS) and second lowest AET (equivalent to CSL) in dry weight units

If both detected concentrations and detection limits exceed SQS or CSL at a location, only the exceedance associated with the detected concentration is shown.

Source information provided by EPA and Ecology based on a preliminary file search
Tax parcel information provided by Seattle Public Utilities, May 2002. Some tax parcel polygons were edited by Windward to conform to the LDW shoreline for the purpose of map presentation.

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Pipes and seeps shown on the map were identified during a City of Seattle survey conducted during May-June 2003. Pipe locations were first identified using drainage maps for many of the waterfront properties obtained from Ecology NPDES industrial stormwater permit files and property owners. Pipe locations exposed during low tides were then surveyed in the field. However, the status of the pipes found during the survey has not been confirmed. Some of the pipes may no longer be active. The seeps identified on the map were visible during the survey, but seep identification was not the primary objective of the survey. Other seeps not noted on this map probably do exist.

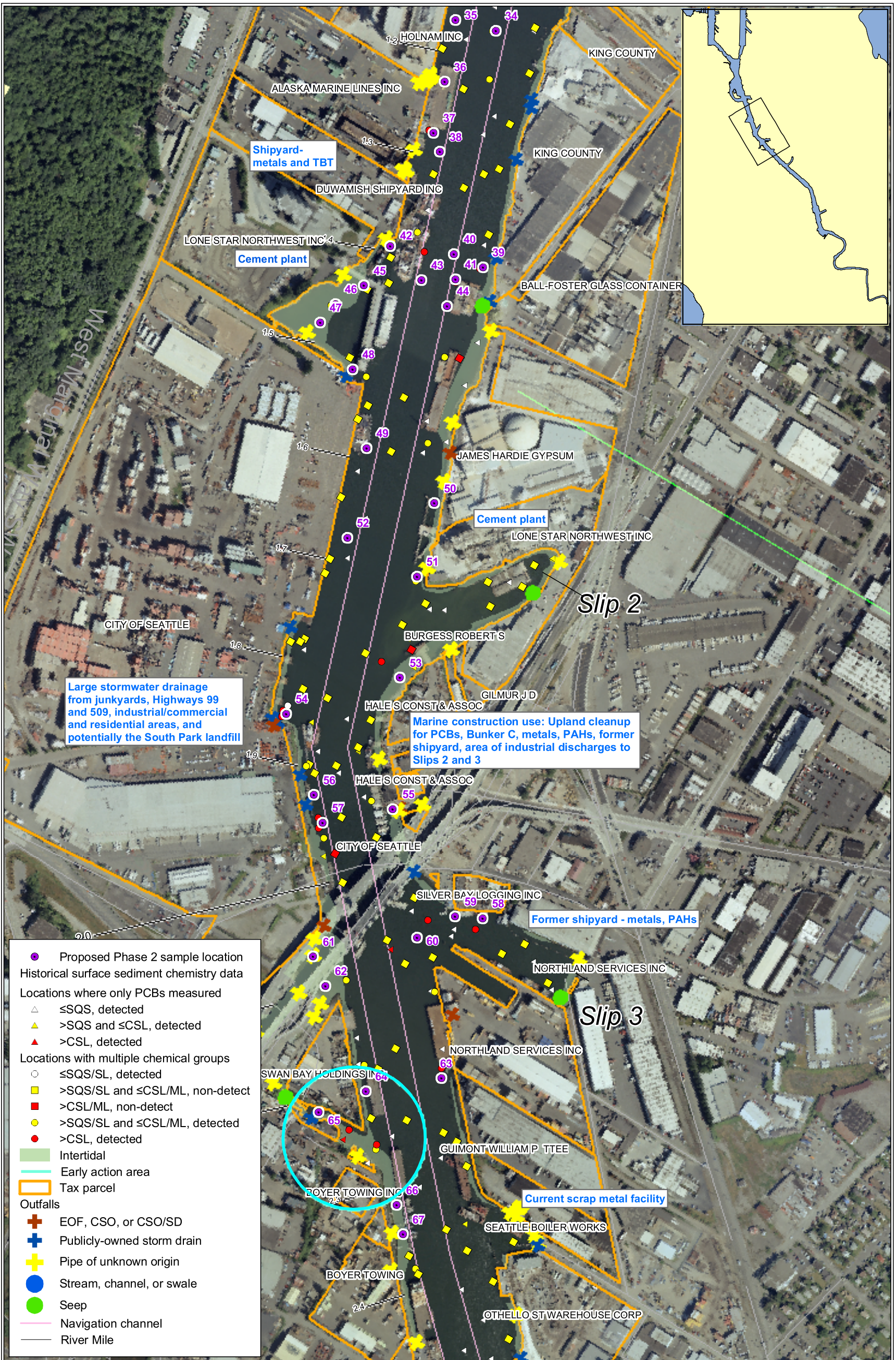
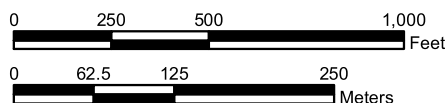


Figure 3-8b. Surface sampling locations for Phase 2 RI and historical surface sediment chemistry data (RM 1.2 - 2.4)



Windward
environmental LLC

Prepared by RAC 12/22/03 Map 1185

TOC normalization conducted for all samples with TOC concentrations greater than 0.2%. For samples with 0.2% TOC or lower or missing TOC concentrations, chemical concentrations were compared to lowest AET (equivalent to SQS) and second lowest AET (equivalent to CSL) in dry weight units. If both detected concentrations and detection limits exceeded SQS or CSL at a location, only the exceedance associated with the detected concentration is shown. Source information provided by EPA and Ecology based on a preliminary file search. Tax parcel information provided by Seattle Public Utilities, May 2002. Some tax parcel polygons were edited by Windward to conform to the LDW shoreline for the purpose of map presentation.

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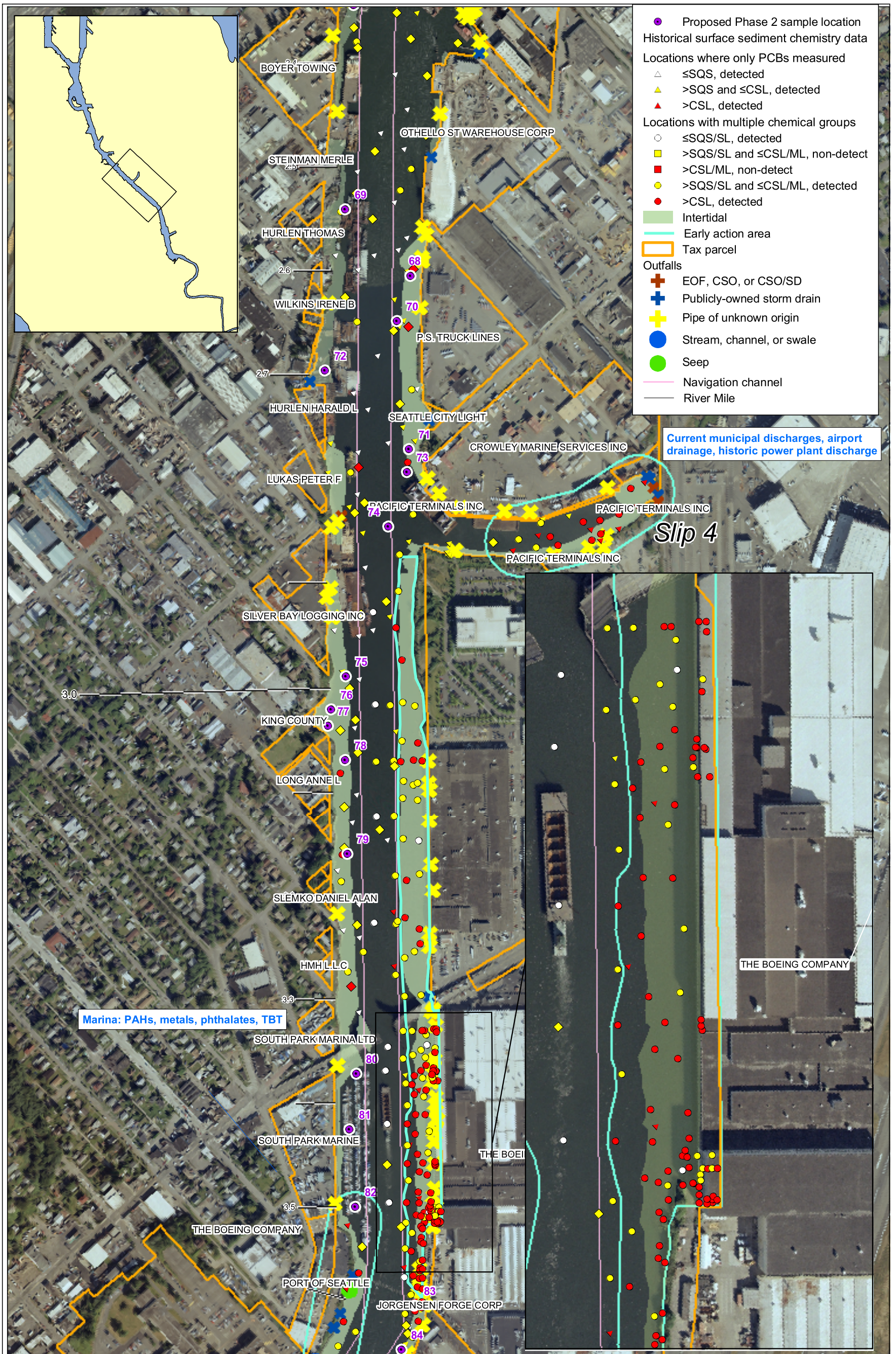
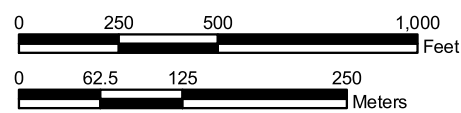


Figure 3-8c. Surface sampling locations for Phase 2 RI and historical surface sediment chemistry data (RM 2.4 - 3.6)



Windward
environmental LLC

Prepared by RAC 12/22/03 Map 1186

TOC normalization conducted for all samples with TOC concentrations greater than 0.2%. For samples with 0.2% TOC or lower or missing TOC concentrations, chemical concentrations were compared to lowest AET (equivalent to SQS) and second lowest AET (equivalent to CSL) in dry weight units

If both detected concentrations and detection limits exceed SQS or CSL at a location, only the exceedance associated with the detected concentration is shown.

Source information provided by EPA and Ecology based on a preliminary file search
Tax parcel information provided by Seattle Public Utilities, May 2002. Some tax parcel polygons were edited by Windward to conform to the LDW shoreline for the purpose of map presentation.

Pipes and seeps shown on the map were identified during a City of Seattle survey conducted during May-June 2003. Pipe locations were first identified using drainage maps for many of the waterfront properties obtained from Ecology NPDES industrial stormwater permit files and property owners. Pipe locations exposed during low tides were then surveyed in the field. However, the status of the pipes found during the survey has not been confirmed. Some of the pipes may no longer be active. The seeps identified on the map were visible during the survey, but seep identification was not the primary objective of the survey. Other seeps not noted on this map probably do exist.

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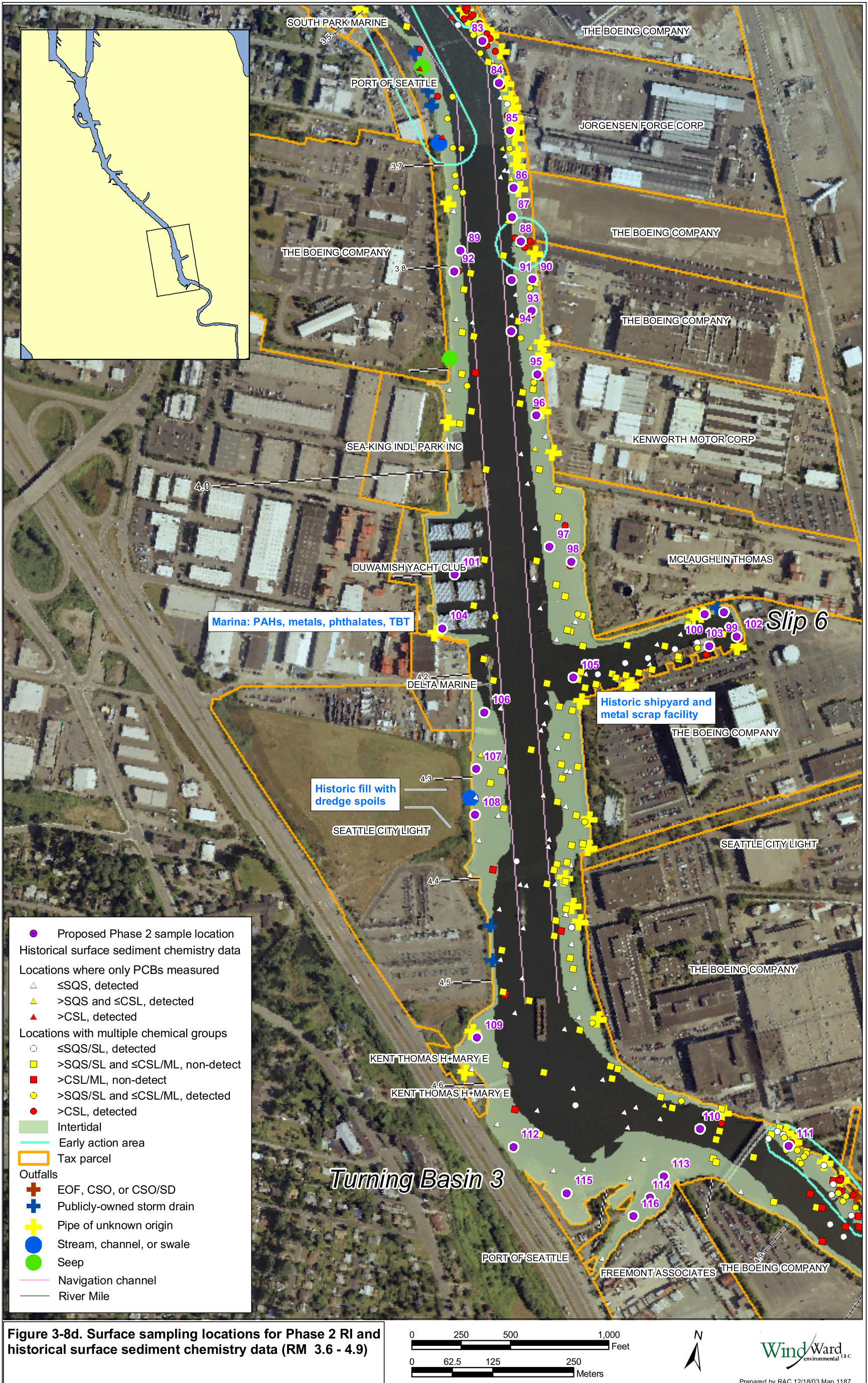
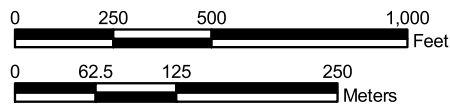


Figure 3-8d. Surface sampling locations for Phase 2 RI and historical surface sediment chemistry data (RM 3.6 - 4.9)



Windward environmental LLC

Prepared by RAC 12/18/03 Map 1187

TOC normalization conducted for all samples with TOC concentrations greater than 0.2%. For samples with 0.2% TOC or lower or missing TOC concentrations, chemical concentrations were compared to lowest AET (equivalent to SQS) and second lowest AET (equivalent to CSL) in dry weight units

If both detected concentrations and detection limits exceed SQS or CSL at a location, only the exceedance associated with the detected concentration is shown.
 Source information provided by EPA and Ecology based on a preliminary file search.
 Tax parcel information provided by Seattle Public Utilities, May 2002. Some tax parcel polygons were edited by Windward to conform to the LDW shoreline for the purpose of map presentation.

Pipes and seeps shown on the map were identified during a City of Seattle survey conducted during May-June 2003. Pipe locations were first identified using drainage maps for many of the waterfront properties obtained from Ecology NPDES industrial stormwater permit files and property owners. Pipe locations exposed during low tides were then surveyed in the field. However, the status of the pipes found during the survey has not been confirmed. Some of the pipes may no longer be active. The seeps identified on the map were visible during the survey, but seep identification was not the primary objective of the survey. Other seeps not noted on this map probably do exist.

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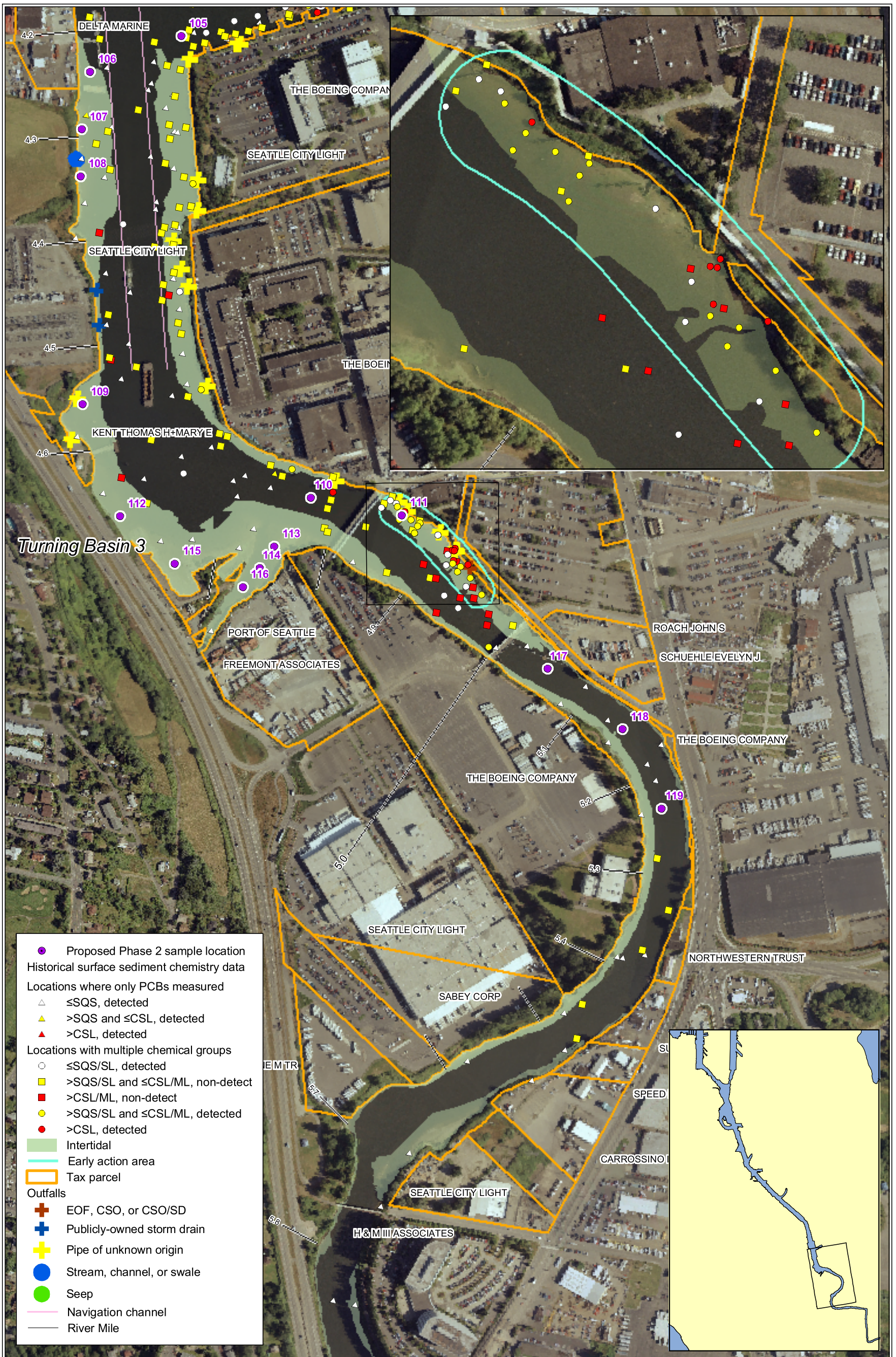
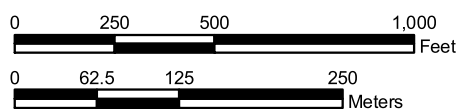


Figure 3-8e. Surface sampling locations for Phase 2 RI and historical surface sediment chemistry data (RM 4.2 - 5.8)



Windward environmental LLC

Prepared by RAC 12/18/03 Map 1188

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TOC normalization conducted for all samples with TOC concentrations greater than 0.2%. For samples with 0.2% TOC or lower or missing TOC concentrations, chemical concentrations were compared to lowest AET (equivalent to SQS) and second lowest AET (equivalent to CSL) in dry weight units

If both detected concentrations and detection limits exceed SQS or CSL at a location, only the exceedance associated with the detected concentration is shown.

Source information provided by EPA and Ecology based on a preliminary file search.
Tax parcel information provided by Seattle Public Utilities, May 2002. Some tax parcel polygons were edited by Windward to conform to the LDW shoreline for the purpose of map presentation.

Pipes and seeps shown on the map were identified during a City of Seattle survey conducted during May-June 2003. Pipe locations were first identified using drainage maps for many of the waterfront properties obtained from Ecology NPDES industrial stormwater permit files and property owners. Pipe locations exposed during low tides were then surveyed in the field. However, the status of the pipes found during the survey has not been confirmed. Some of the pipes may no longer be active. The seeps identified on the map were visible during the survey, but seep identification was not the primary objective of the survey. Other seeps not noted on this map probably do exist.

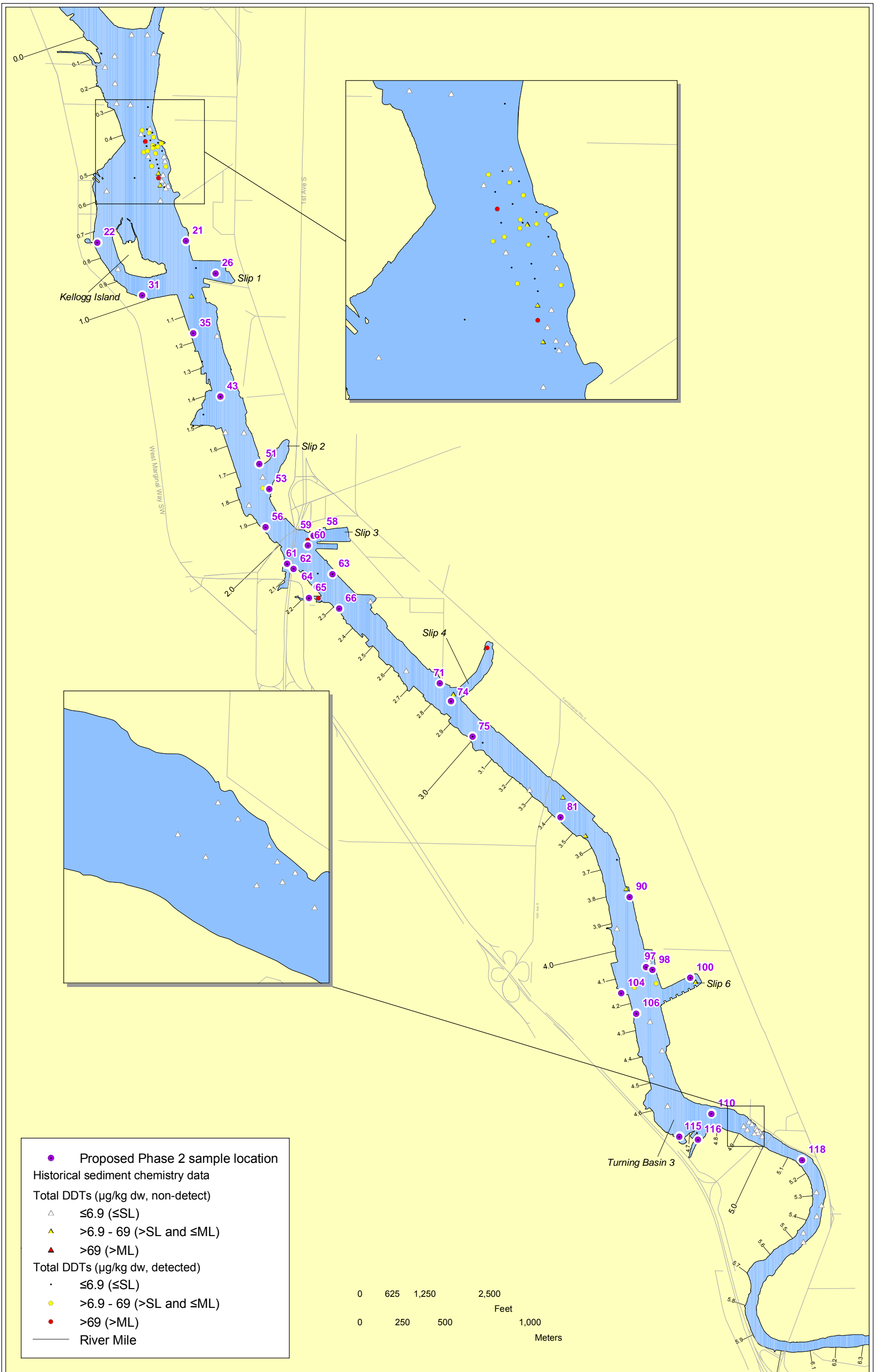
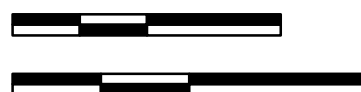
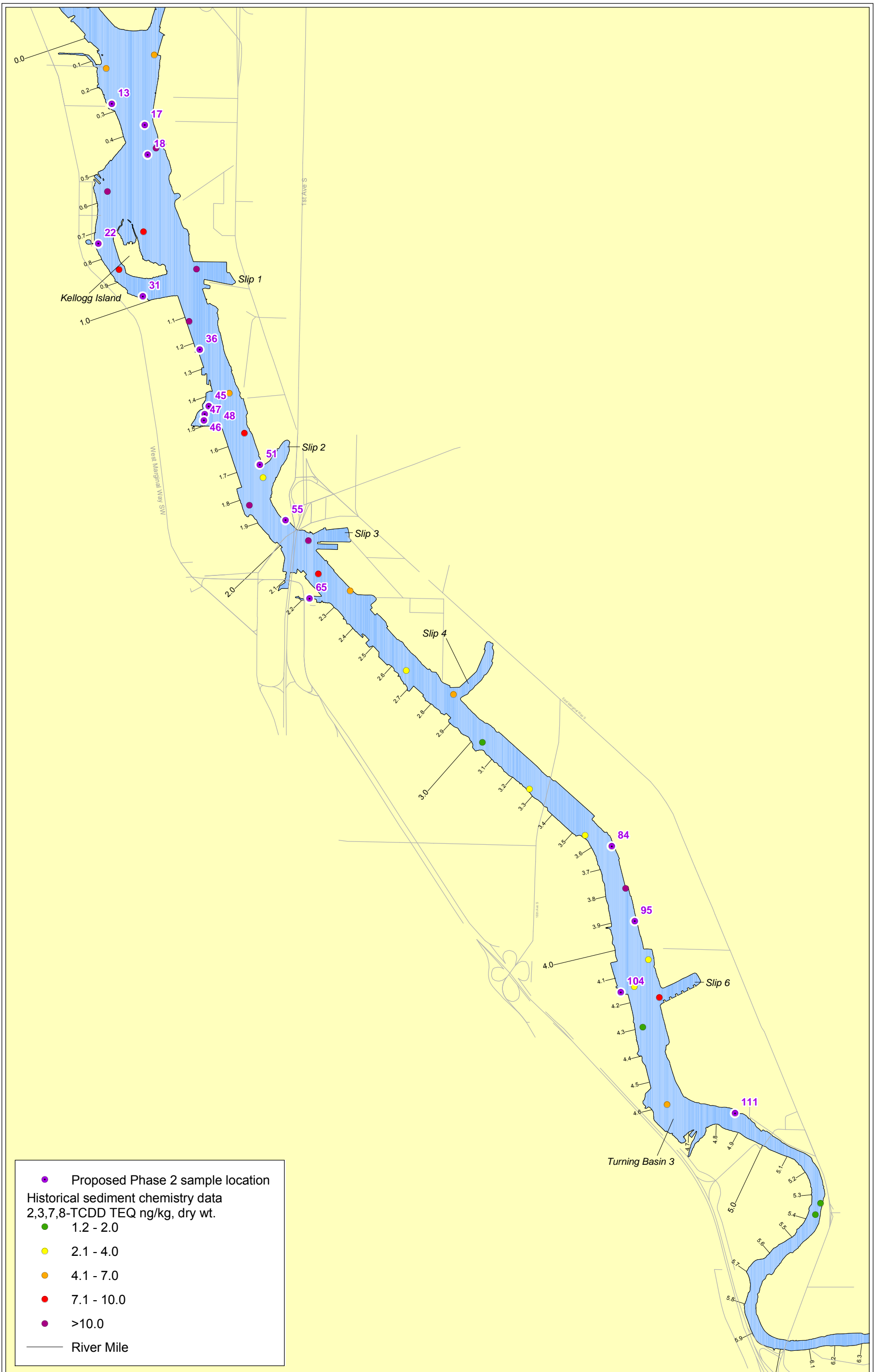


Figure 3-9. Phase 2 surface sediment sampling locations to be analyzed for organochlorine pesticides and historical DDT data





Detection limits for concentrations reported as undetected were assigned a value of half for the purpose of data aggregation.

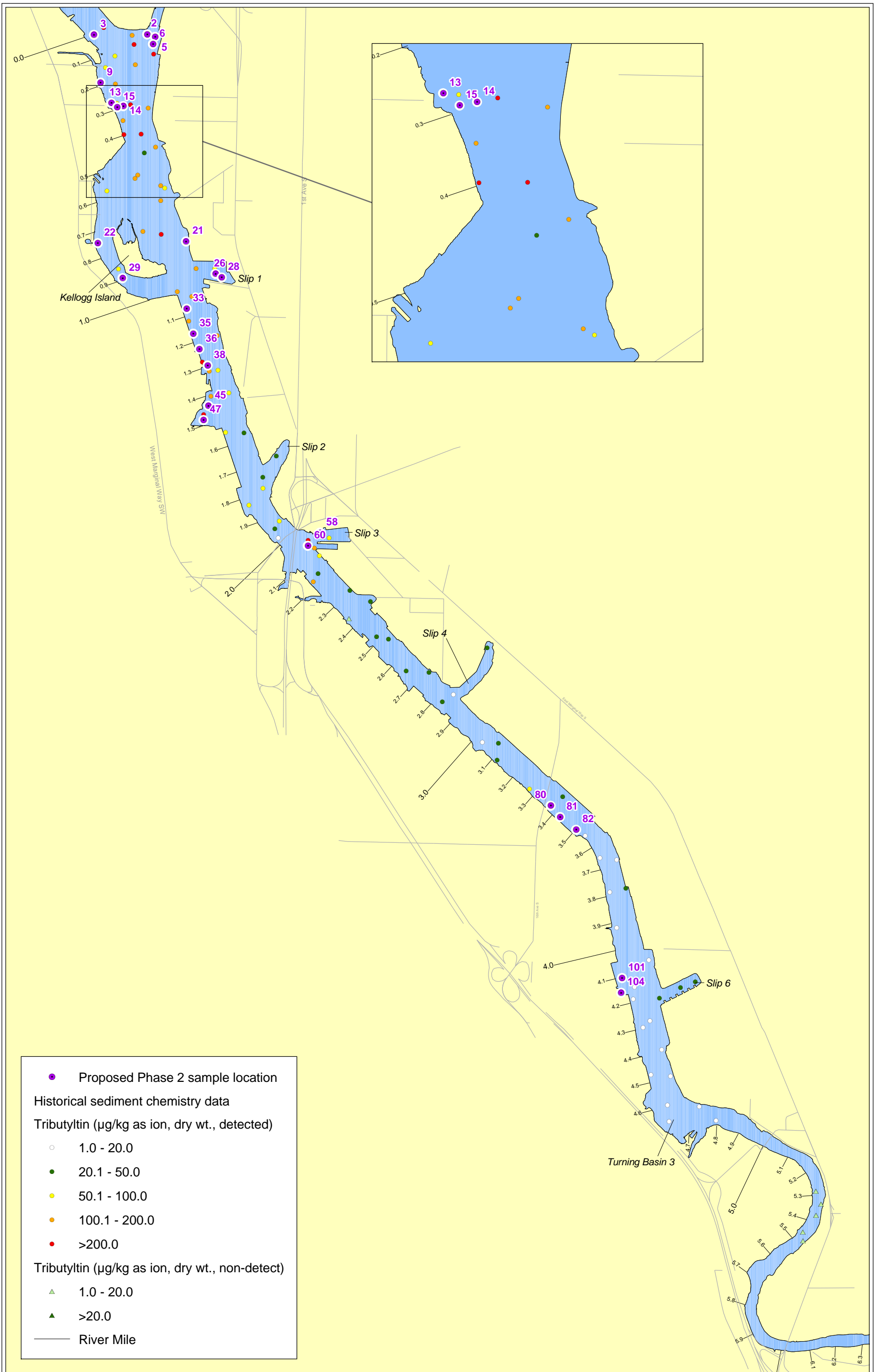
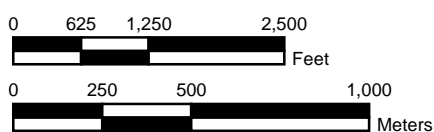


Figure 3-11. Phase 2 surface sediment sampling locations to be analyzed for TBT and historical TBT data



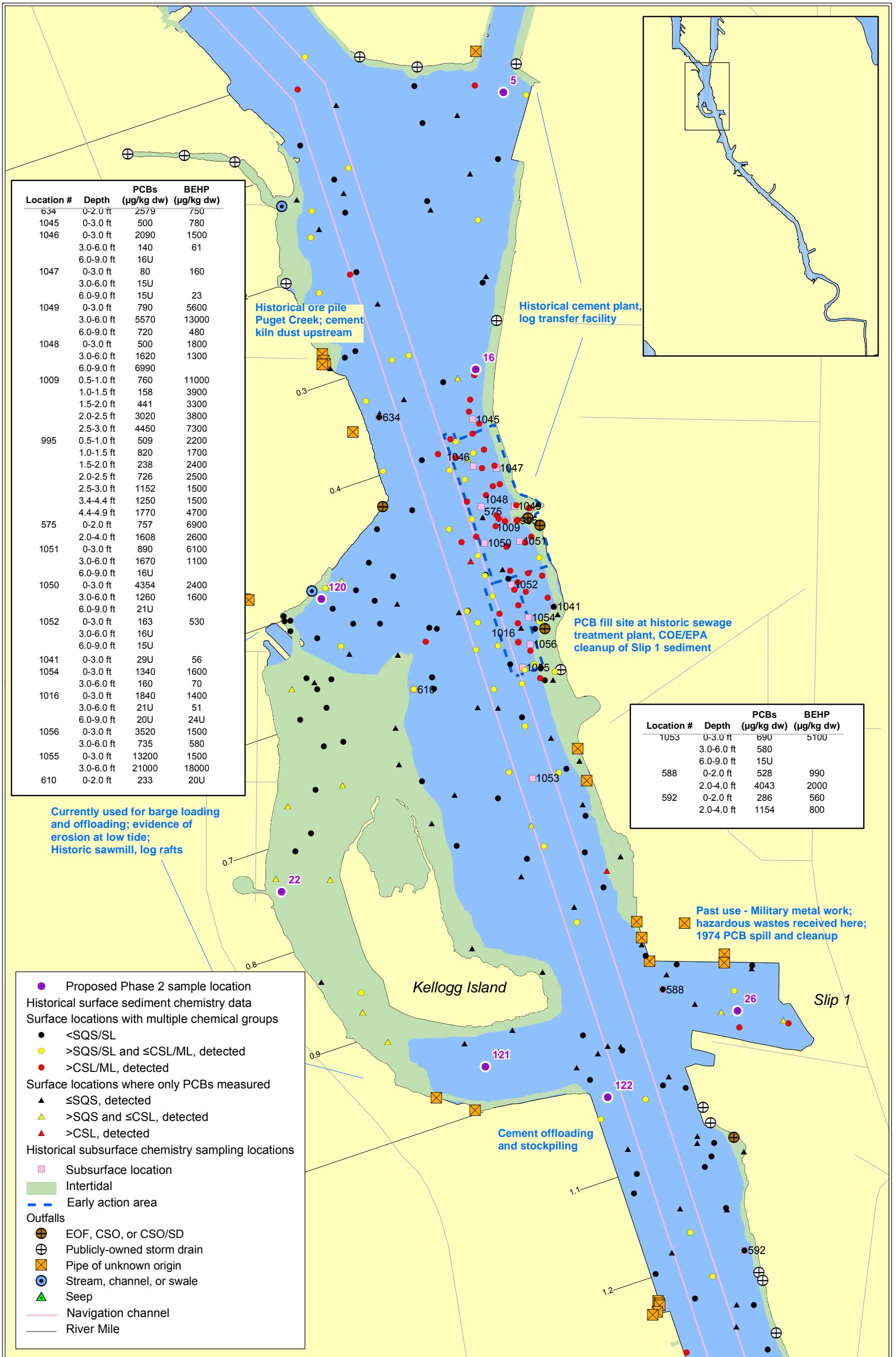
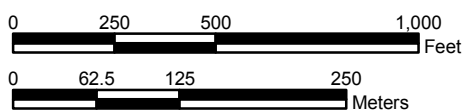


Figure 3-13a. Phase 2 subsurface sediment sampling locations, and historical surface and subsurface chemistry data (RM 0-1.2)



WindWard
environmental LLC

Prepared by CEJ 4/1/04 Map 1193

TOC normalization conducted for all samples with TOC concentrations greater than 0.2%. For samples with 0.2% TOC or lower or missing TOC concentrations, chemical concentrations were compared to lowest AET (equivalent to SQS) and second lowest AET (equivalent to CSL) in dry weight units. Detection limits for concentrations reported as undetected were assigned a value of zero for the purpose of data aggregation. Source information provided by EPA and Ecology based on a preliminary file search. Tax parcel information provided by Seattle Public Utilities, May 2002. Some tax parcel polygons were edited by Windward to conform to the LDW shoreline for the purpose of map presentation.

Pipes and seeps shown on the map were identified during a City of Seattle survey conducted during May-June 2003. Pipe locations were first identified using drainage maps for many of the waterfront properties obtained from Ecology NPDES industrial stormwater permit files and property owners. Pipe locations exposed during low tides were then surveyed in the field. However, the status of the pipes found during the survey has not been confirmed. Some of the pipes may no longer be active. The seeps identified on the map were visible during the survey, but seep identification was not the primary objective of the survey. Other seeps not noted on this map probably do exist.

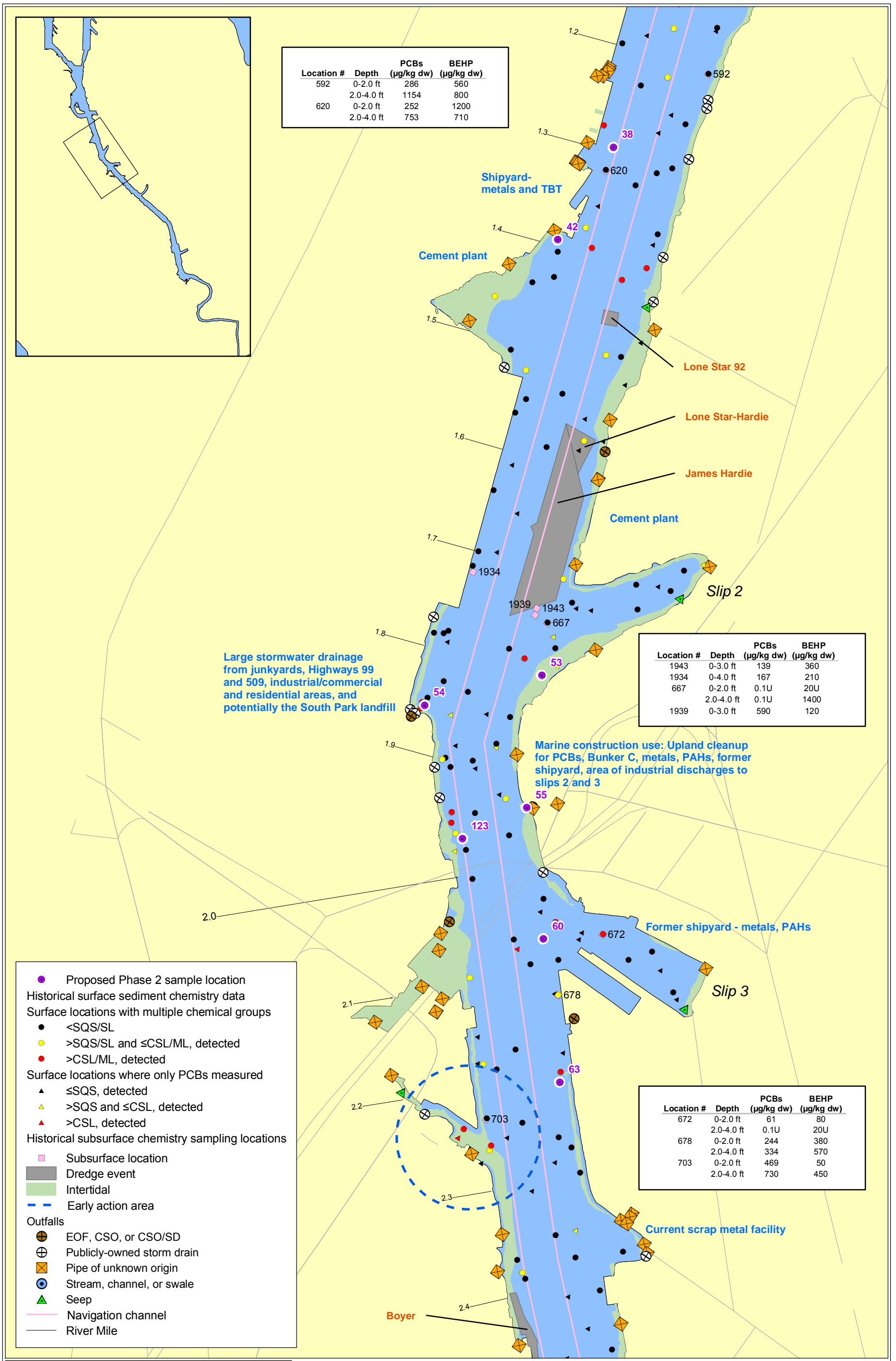
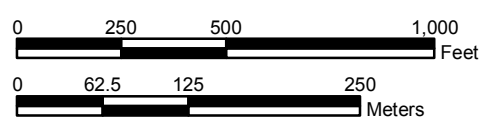


Figure 3-13b. Phase 2 subsurface sediment sampling locations, and historical surface and subsurface chemistry data (RM 1.2 - 2.4)



TOC normalization conducted for all samples with TOC concentrations greater than 0.2%. For samples with 0.2% TOC or lower or missing TOC concentrations, chemical concentrations were compared to lowest AET (equivalent to SQS) and second lowest AET (equivalent to CSL) in dry weight units. Detection limits for concentrations reported as undetected were assigned a value of zero for the purpose of data aggregation. Source information provided by EPA and Ecology based on a preliminary file search. Tax parcel information provided by Seattle Public Utilities, May 2002. Some tax parcel polygons were edited by Windward to conform to the LDW shoreline for the purpose of map presentation.

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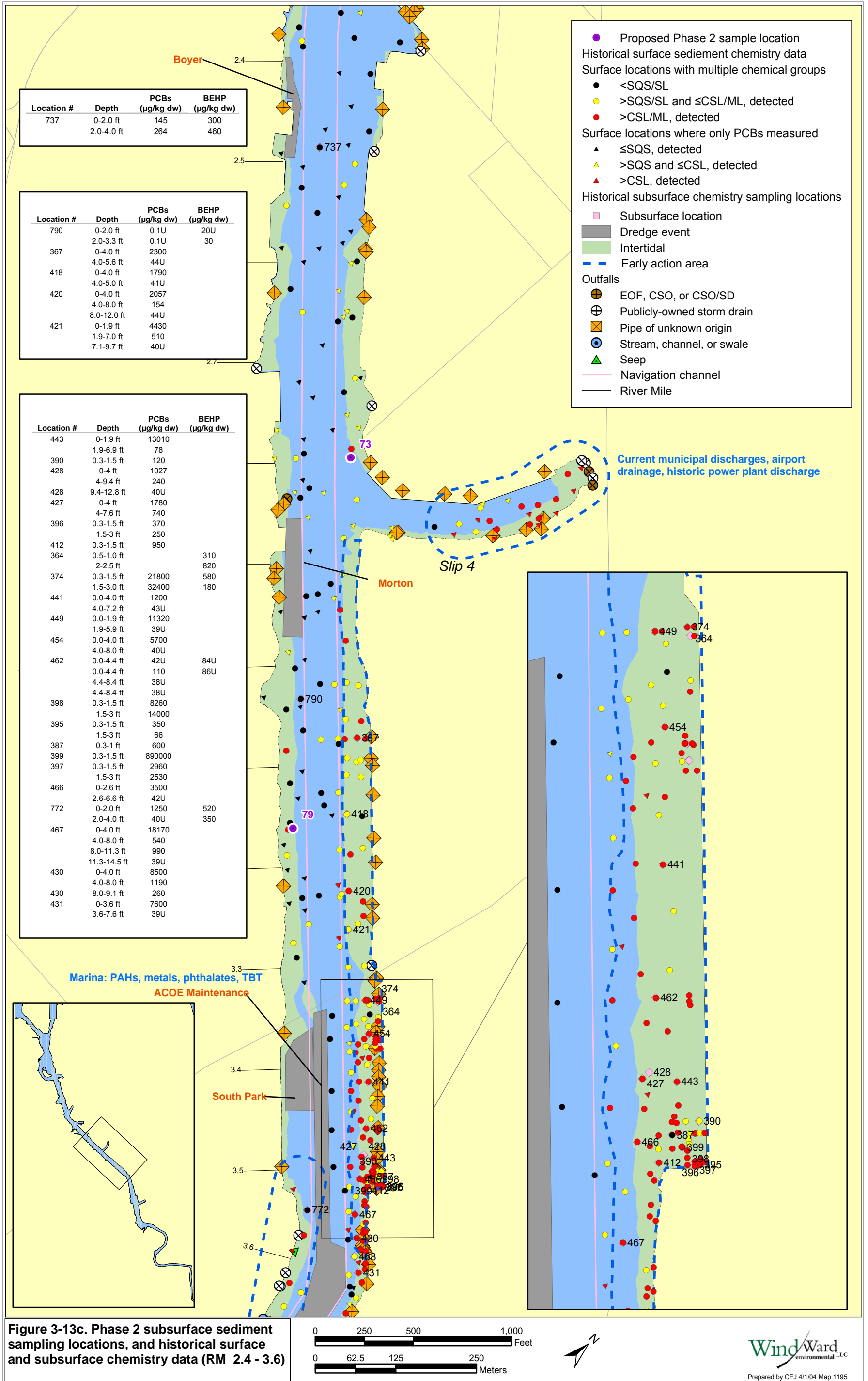
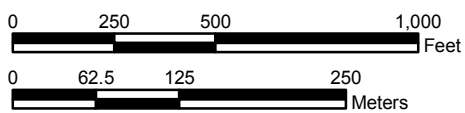


Figure 3-13c. Phase 2 subsurface sediment sampling locations, and historical surface and subsurface chemistry data (RM 2.4 - 3.6)



Windward environmental LLC

Prepared by CEJ 4/1/04 Map 1195

TOC normalization conducted for all samples with TOC concentrations greater than 0.2%. For samples with 0.2% TOC or lower or missing TOC concentrations, chemical concentrations were compared to lowest AET (equivalent to SQS) and second lowest AET (equivalent to CSL) in dry weight units

Detection limits for concentrations reported as undetected were assigned a value of zero for the purpose of data aggregation.

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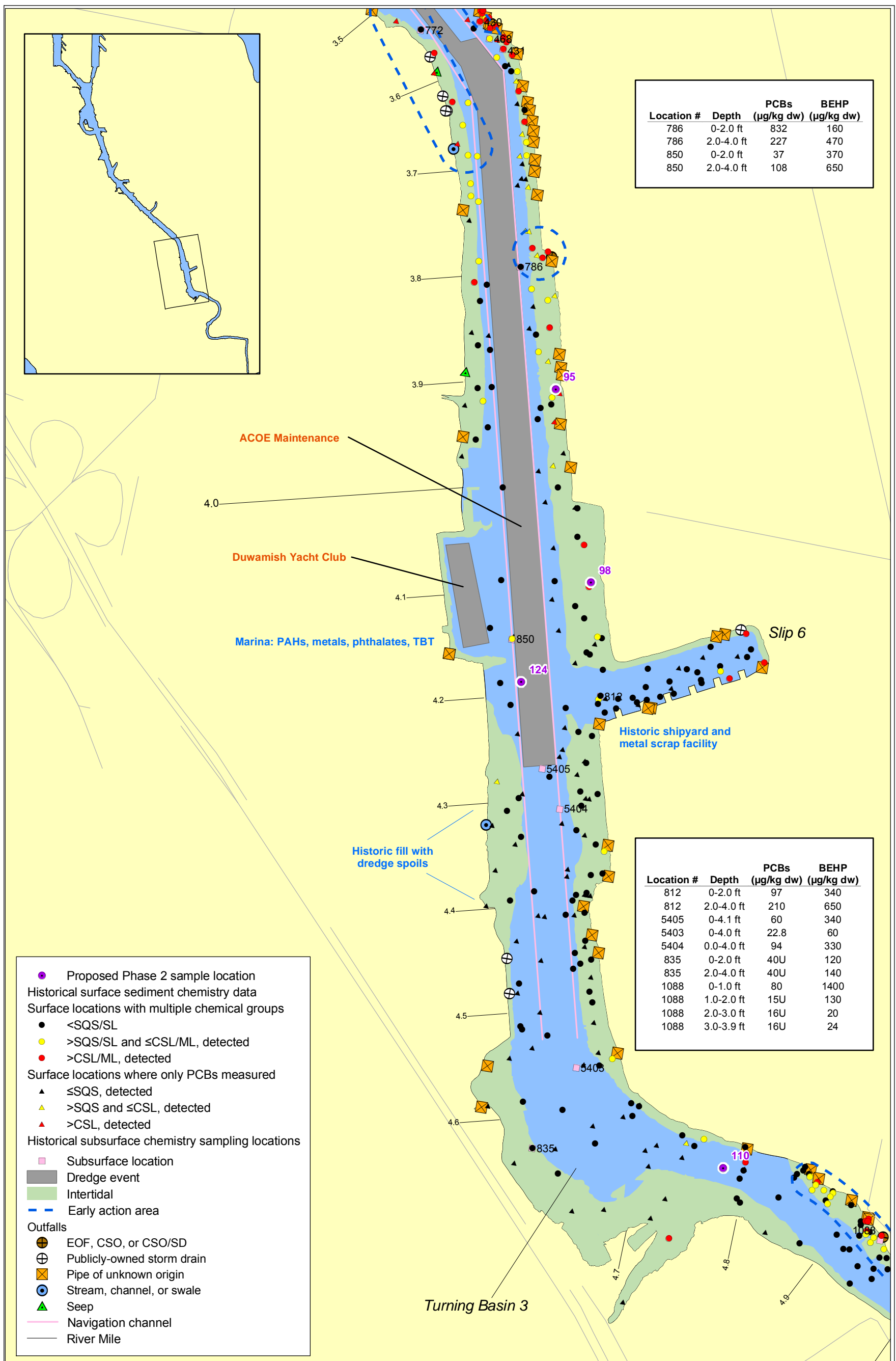
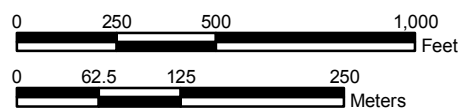


Figure 3-13d. Phase 2 subsurface sediment sampling locations, and historical surface and subsurface chemistry data (RM 3.6 - 4.9)



Prepared by CEJ 4/1/04 Map 1196

TOC normalization conducted for all samples with TOC concentrations greater than 0.2%. For samples with 0.2% TOC or lower or missing TOC concentrations, chemical concentrations were compared to lowest AET (equivalent to SQS) and second lowest AET (equivalent to CSL) in dry weight units

Detection limits for concentrations reported as undetected were assigned a value of zero for the purpose of data aggregation.

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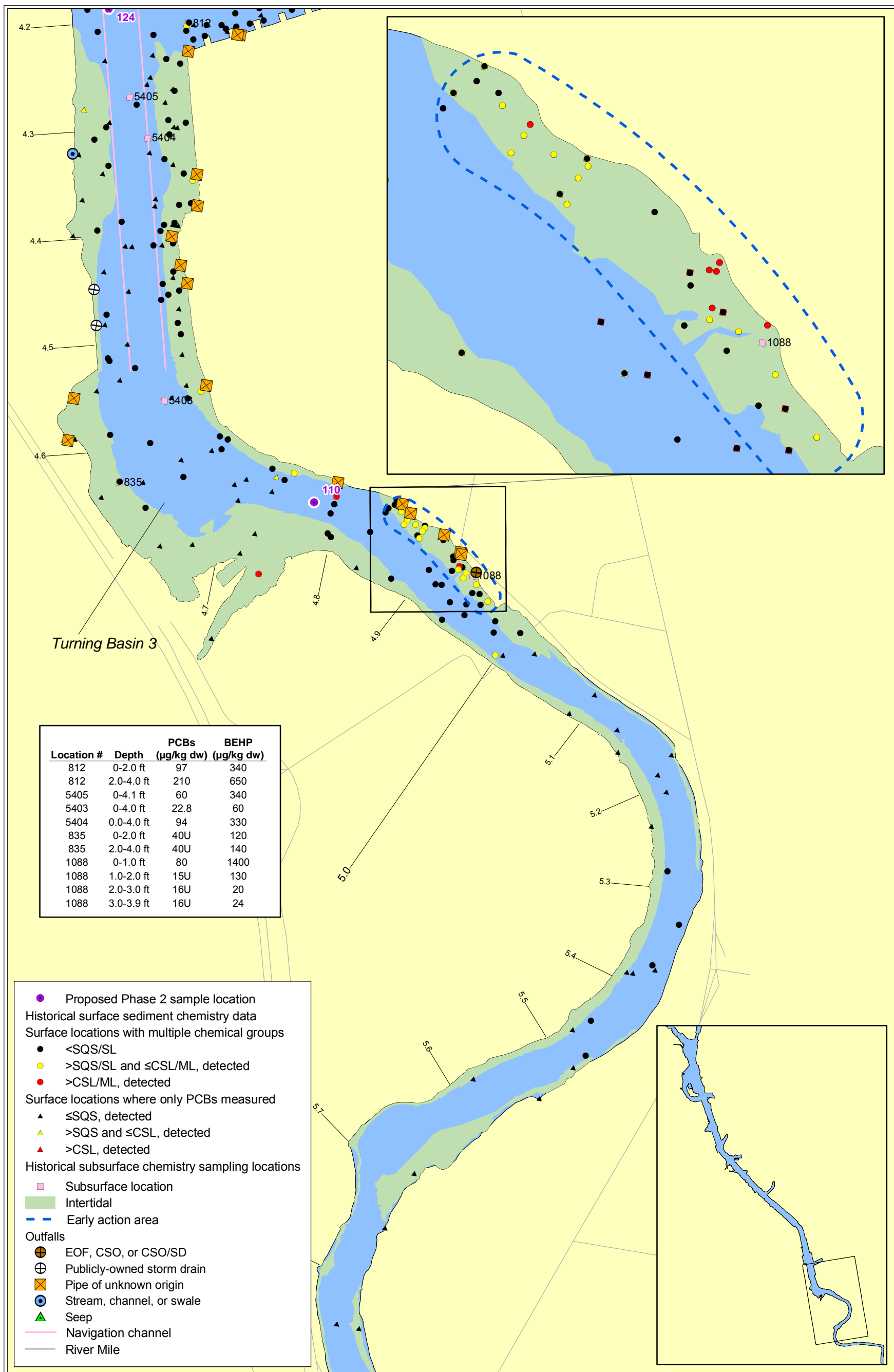
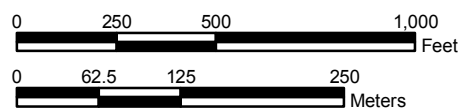


Figure 3-13e. Phase 2 subsurface sediment sampling locations, and historical surface and subsurface chemistry data (RM 4.2 - 5.8)



Windward
 environmental LLC

Prepared by CEJ 4/1/04 Map 1197

TOC normalization conducted for all samples with TOC concentrations greater than 0.2%. For samples with 0.2% TOC or lower or missing TOC concentrations, chemical concentrations were compared to lowest AET (equivalent to SQS) and second lowest AET (equivalent to CSL) in dry weight units. Detection limits for concentrations reported as undetected were assigned a value of zero for the purpose of data aggregation.

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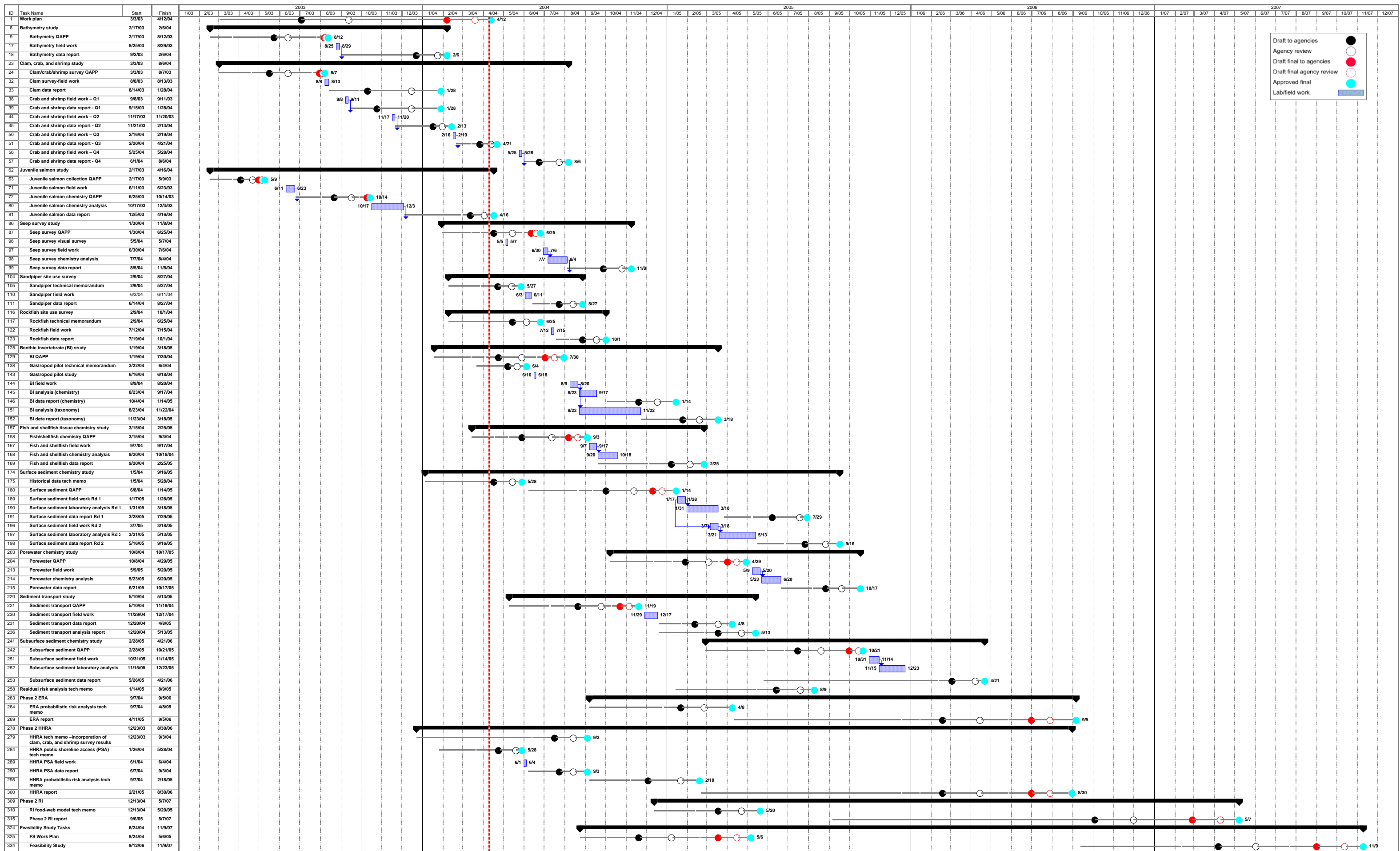


Figure 4-1. Phase 2 RI/FS schedule