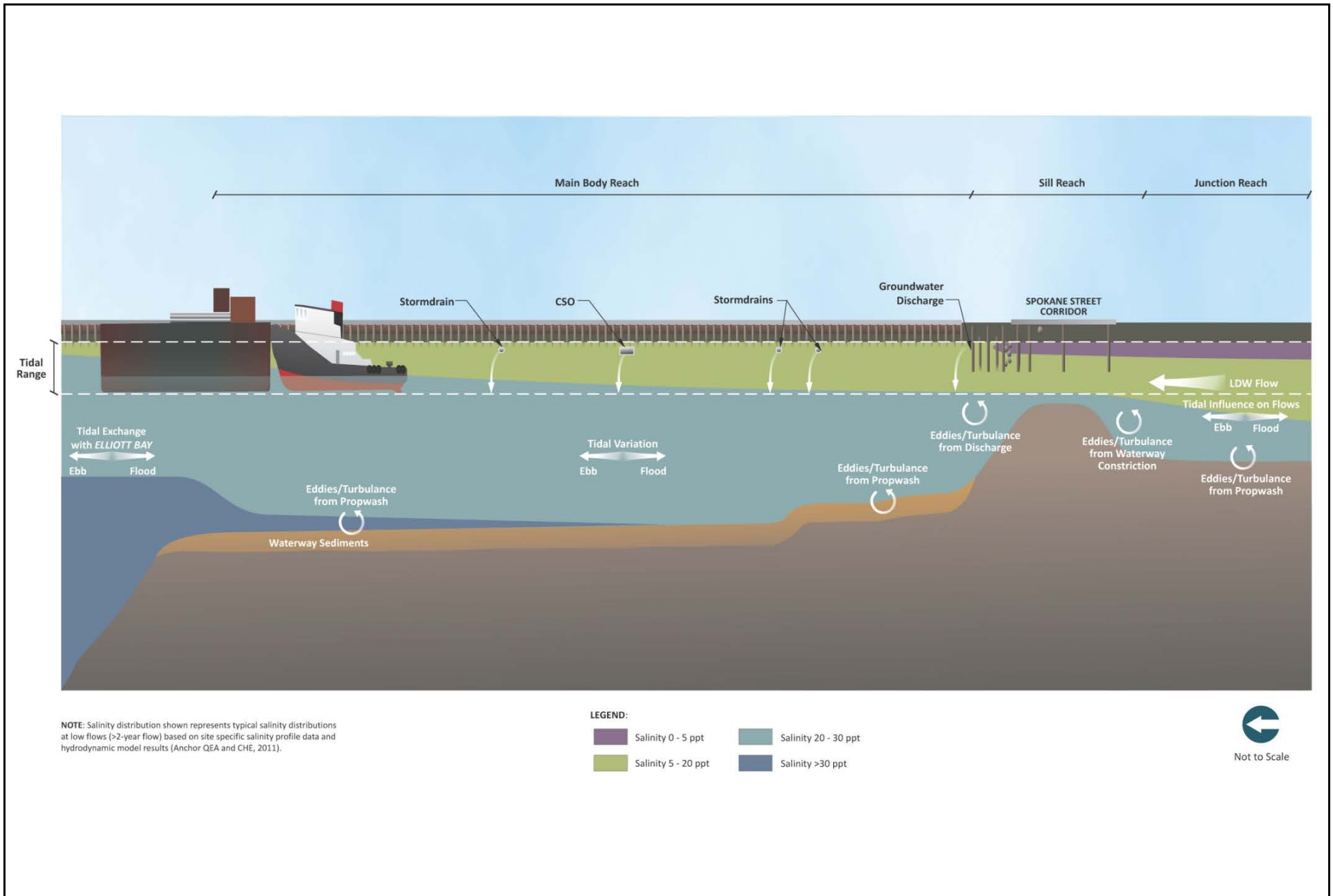
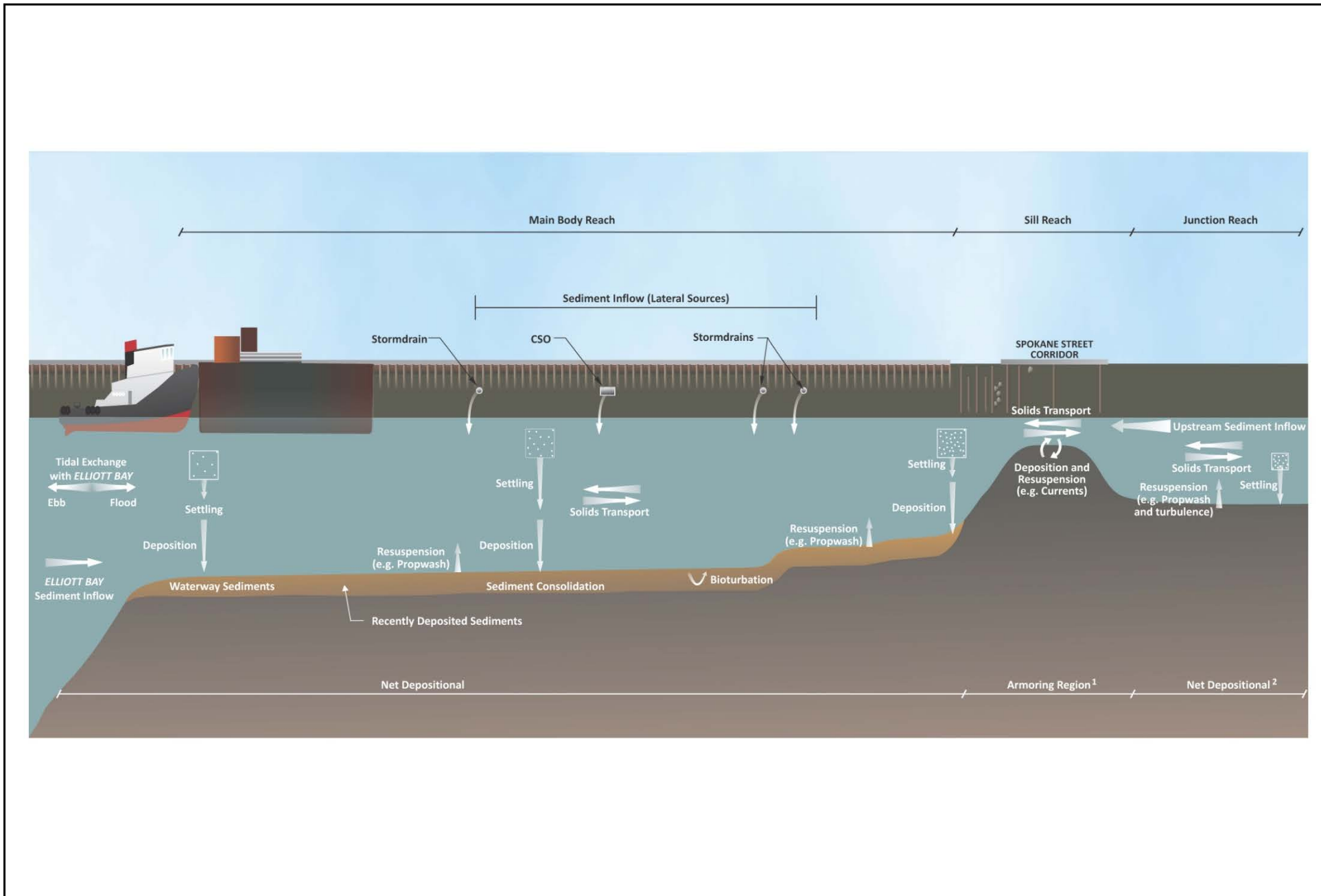


Map 3-1a
 Summary of Hydrodynamics in East Waterway, Flow Events Greater than a 2-Year Flow
 Draft Supplemental Remedial Investigation
 East Waterway Operable Unit

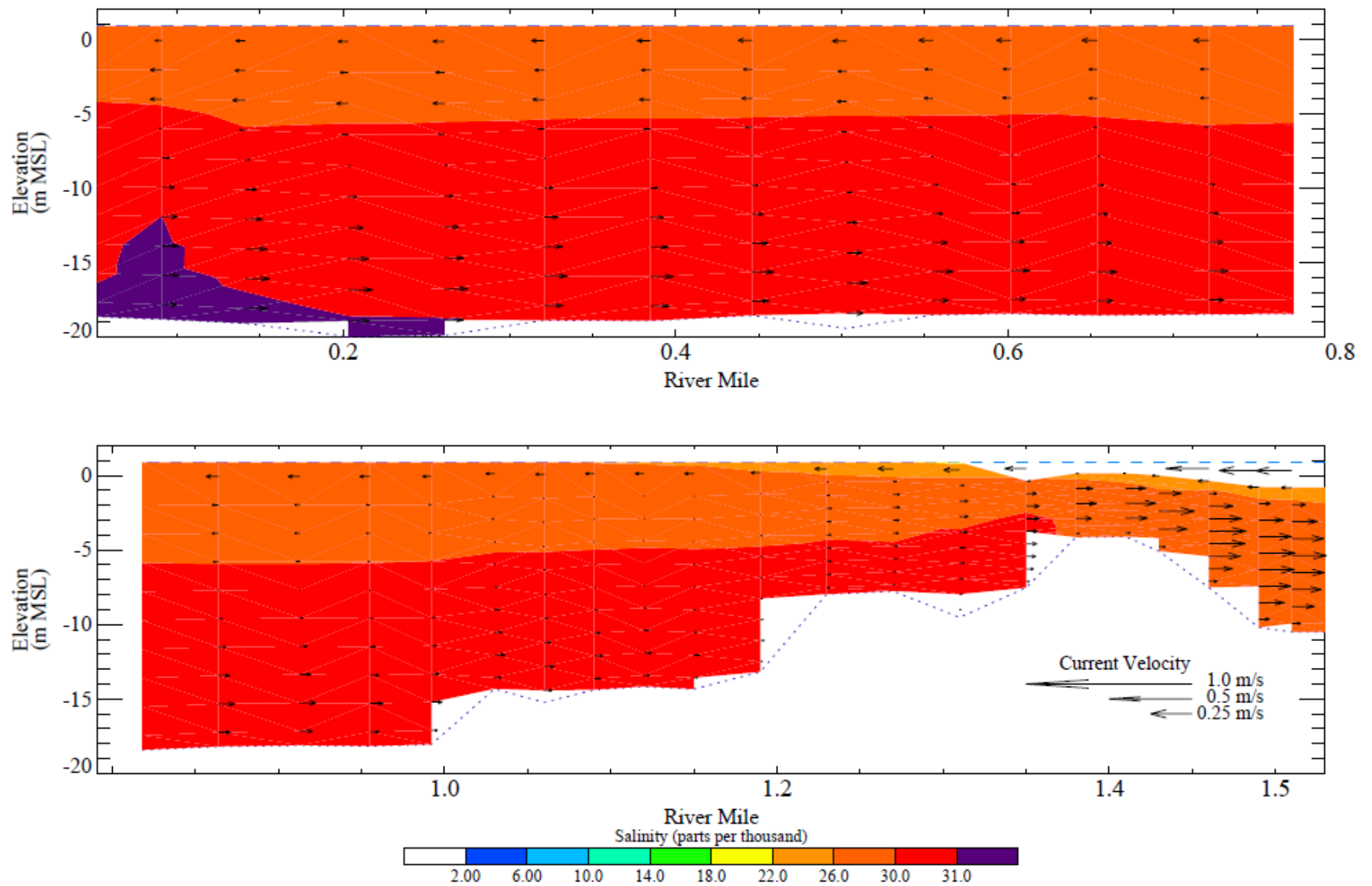


Map 3-1b

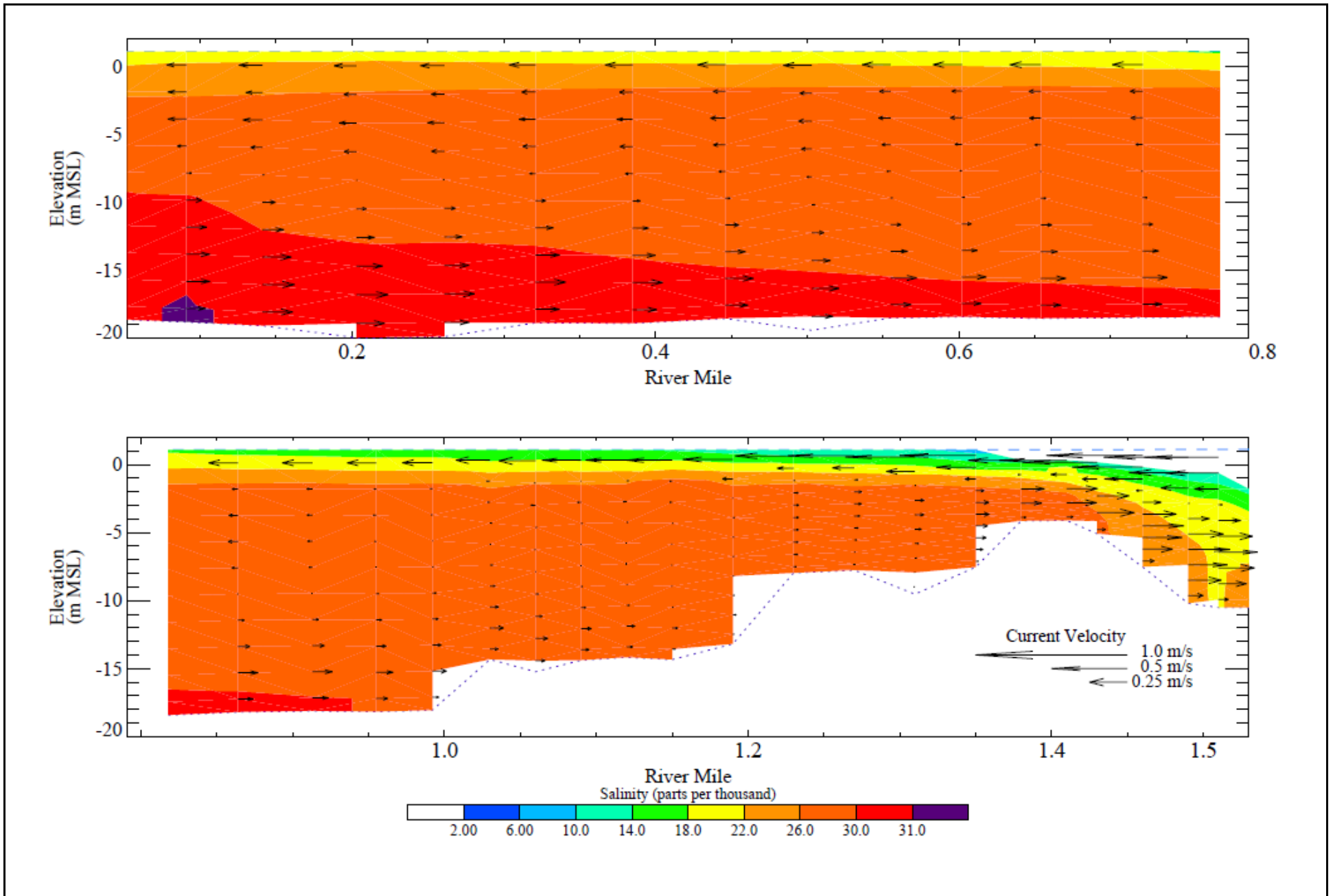
Summary of Hydrodynamics in East Waterway, Flow Events Equal to or Less than a 2-Year Flow
Draft Supplemental Remedial Investigation
East Waterway Operable Unit



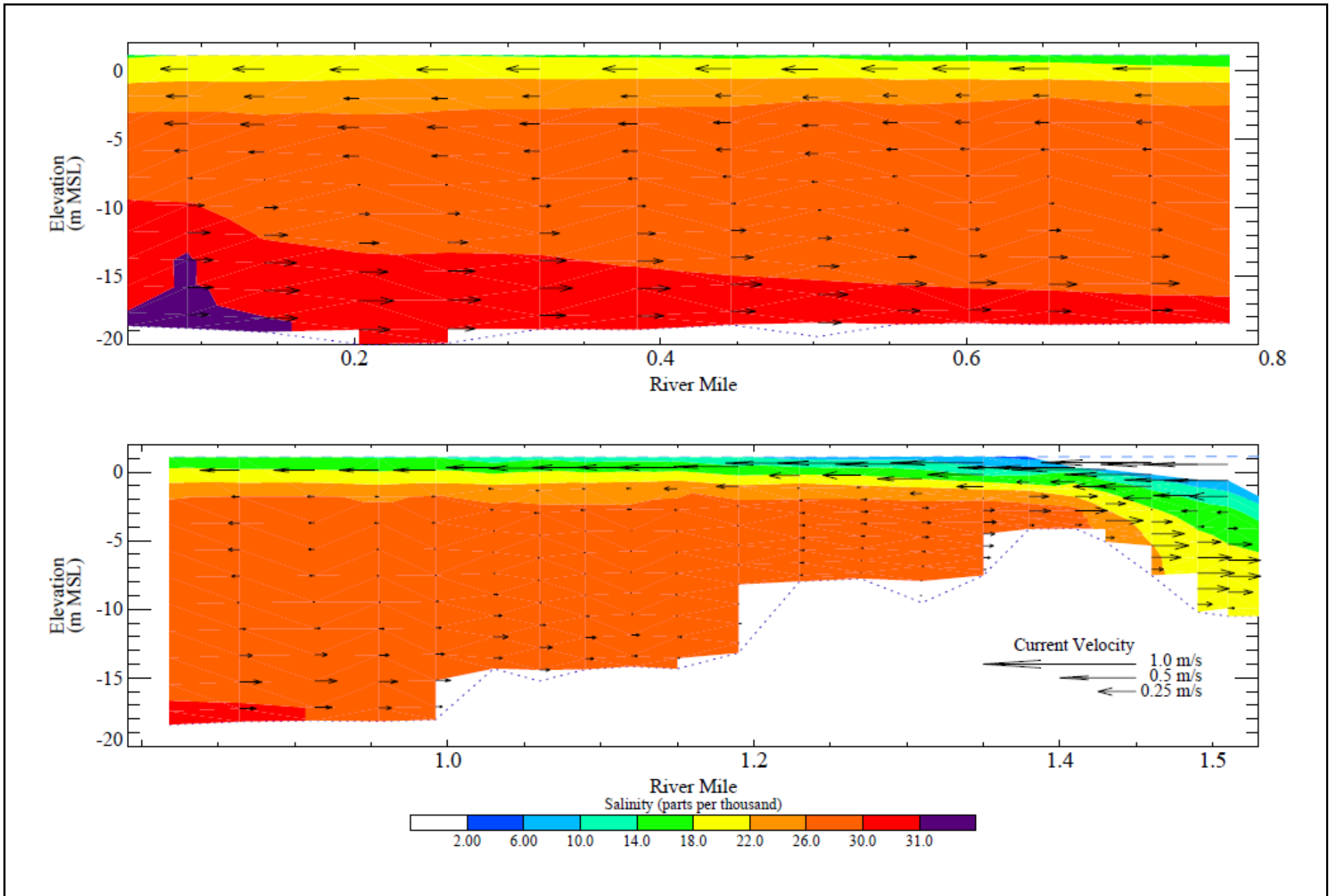
Map 3-2
 Summary of Sediment Transport in East Waterway
 Draft Supplemental Remedial Investigation
 East Waterway Operable Unit



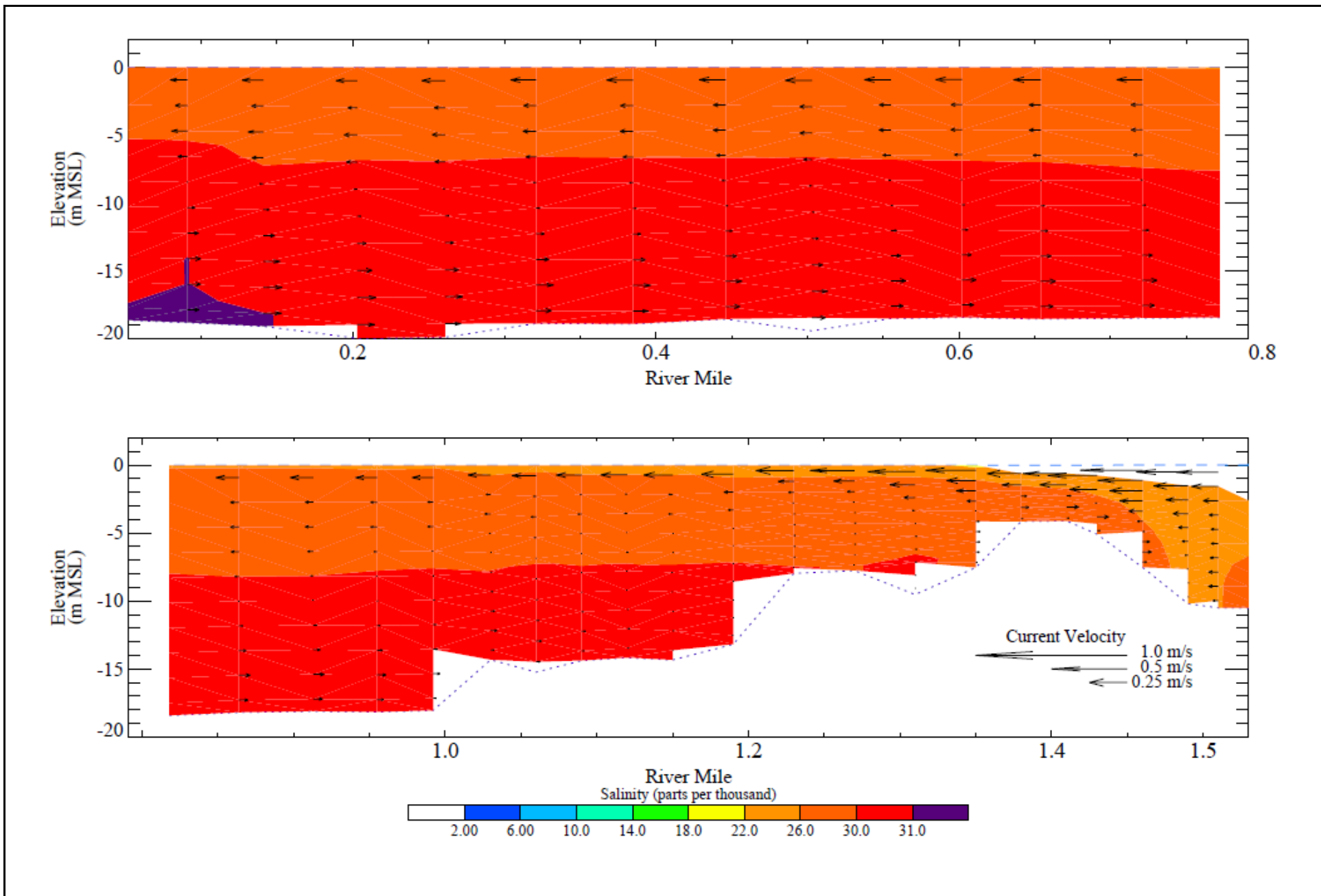
Map 3-3
Hydrodynamic Model Results: Transect of Salinity and Velocity at Flood Tide with Mean Annual Upstream Flow
Supplemental Remedial Investigation
East Waterway Study Area



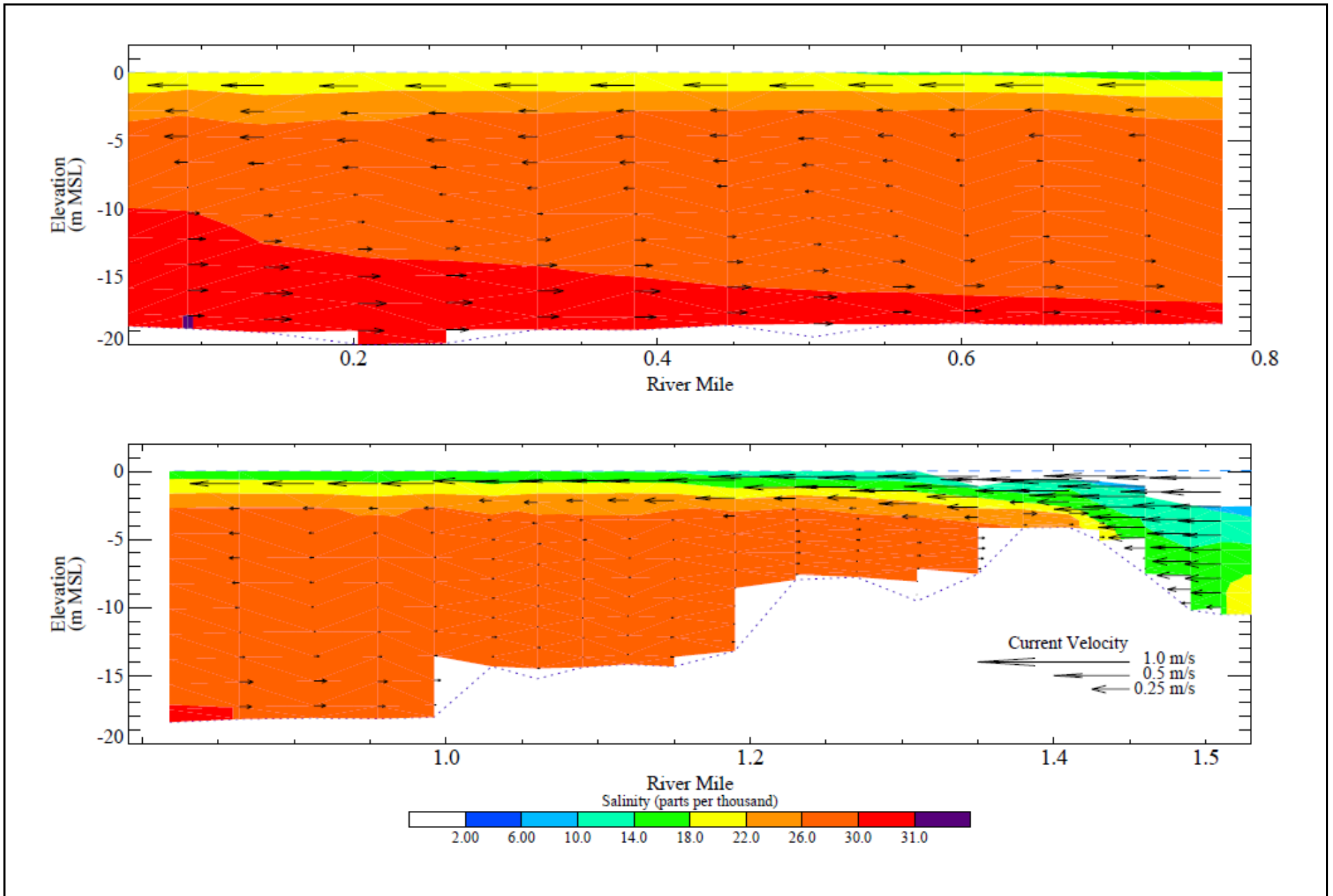
Map 3-4
Hydrodynamic Model Results: Transect of Salinity and Velocity at Flood Tide with 2-Year Upstream Flow
Supplemental Remedial Investigation
East Waterway Study Area



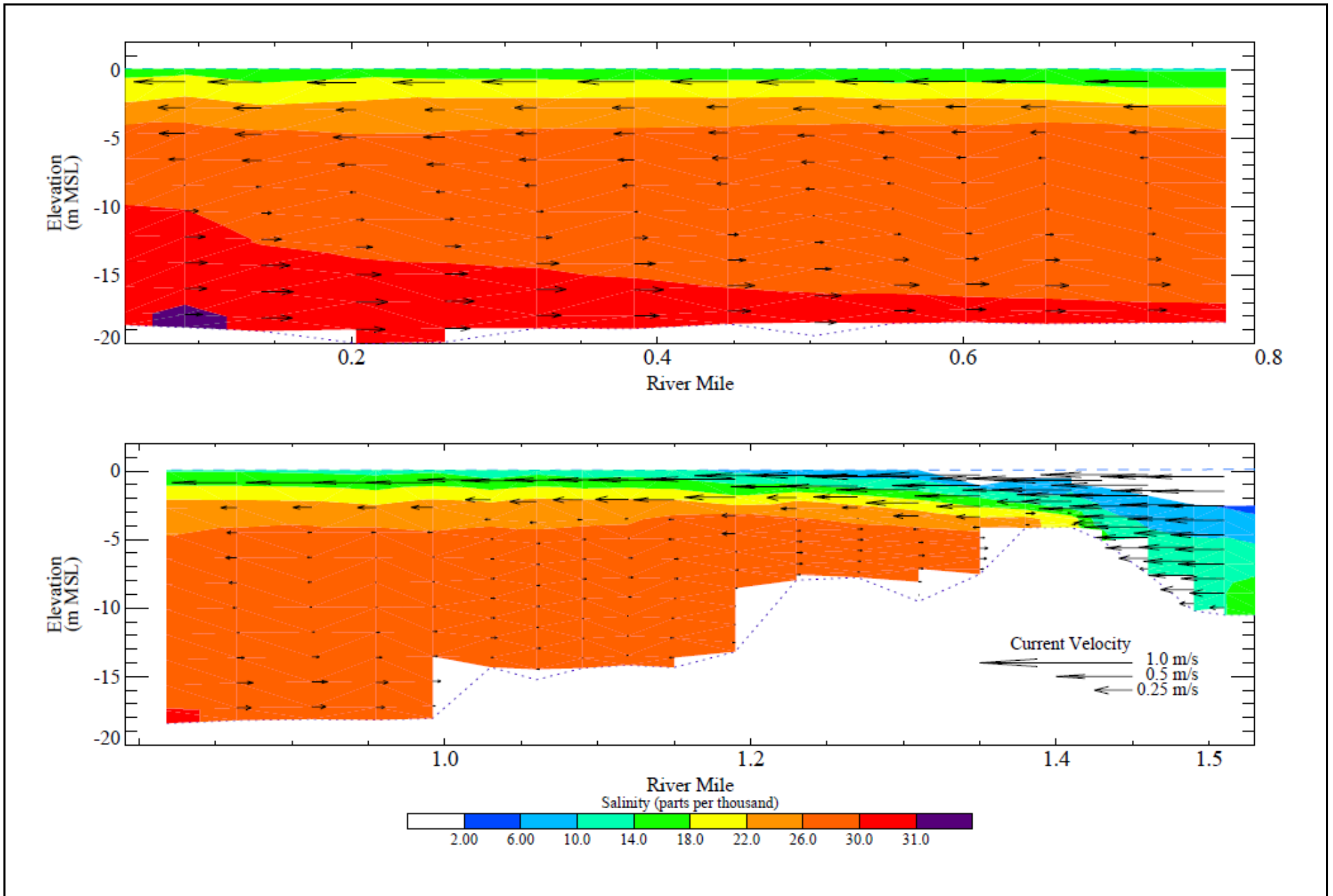
Map 3-5
Hydrodynamic Model Results: Transect of Salinity and Velocity at Flood Tide with 100-Year Upstream Flow
Supplemental Remedial Investigation
East Waterway Study Area



Map 3-6
Hydrodynamic Model Results: Transect of Salinity and Velocity at Ebb Tide with Mean Annual Upstream Flow
Supplemental Remedial Investigation
East Waterway Study Area



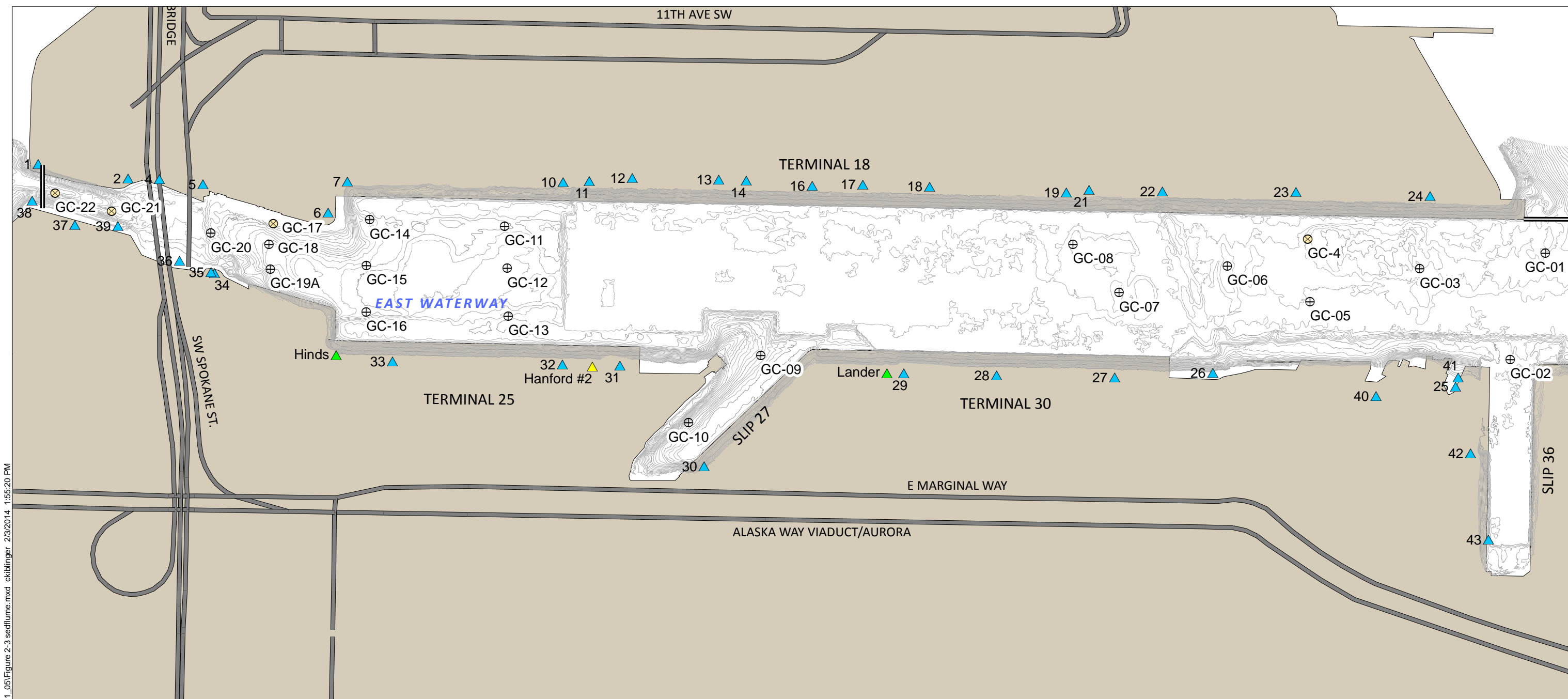
Map 3-7
Hydrodynamic Model Results: Transect of Salinity and Velocity at Ebb Tide with 2-Year Upstream Flow
Supplemental Remedial Investigation
East Waterway Study Area



Map 3-8
Hydrodynamic Model Results: Transect of Salinity and Velocity at Ebb Tide with 100-Year Upstream Flow
Supplemental Remedial Investigation
East Waterway Study Area

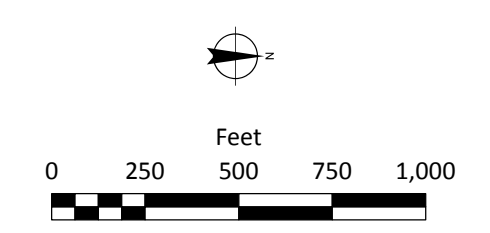


Map 3-9
Operational Propwash Areas
Draft Supplemental Remedial Investigation
East Waterway Operable Unit

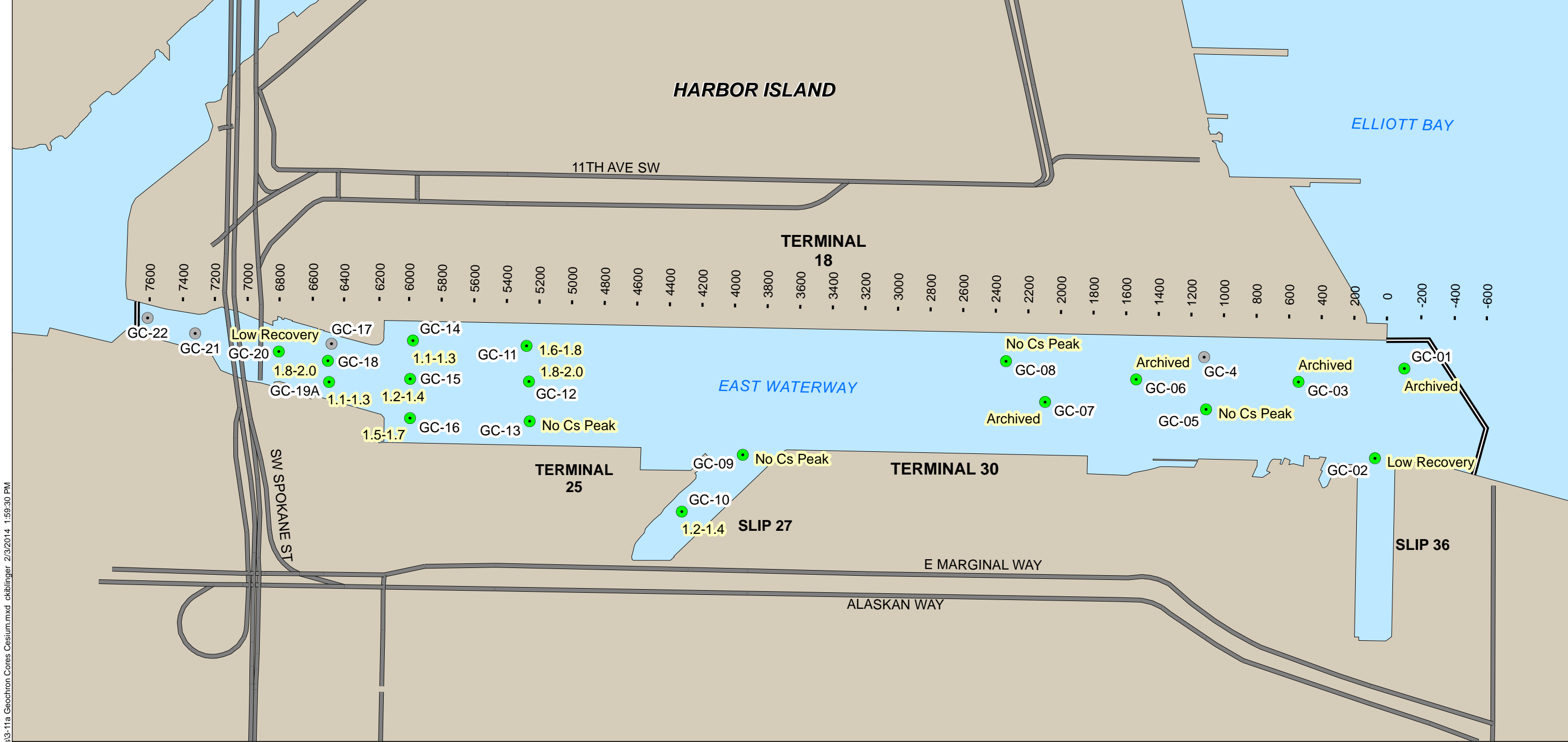


R:\Jobs\060003-01_East_Waterway_SedTrans\Maps\2011_05\Figure 2-3.sedflume.mxd ckbinger 2/3/2014 1:55:20 PM

- ⊗ Geochronological Cores - No Recovery
- ⊕ Geochronological Cores - Collected
- ▲ Storm Drain
- ▲ CSO/SD
- ▲ CSO
- ▬ Study Area Boundary



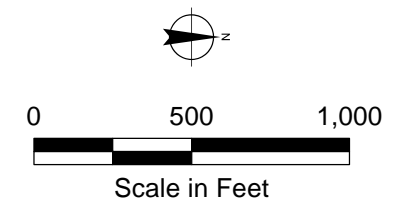
Map 3-10
 Geochronological Core Locations
 Draft Supplemental Remedial Investigation Report
 East Waterway Operable Unit



NOTES:

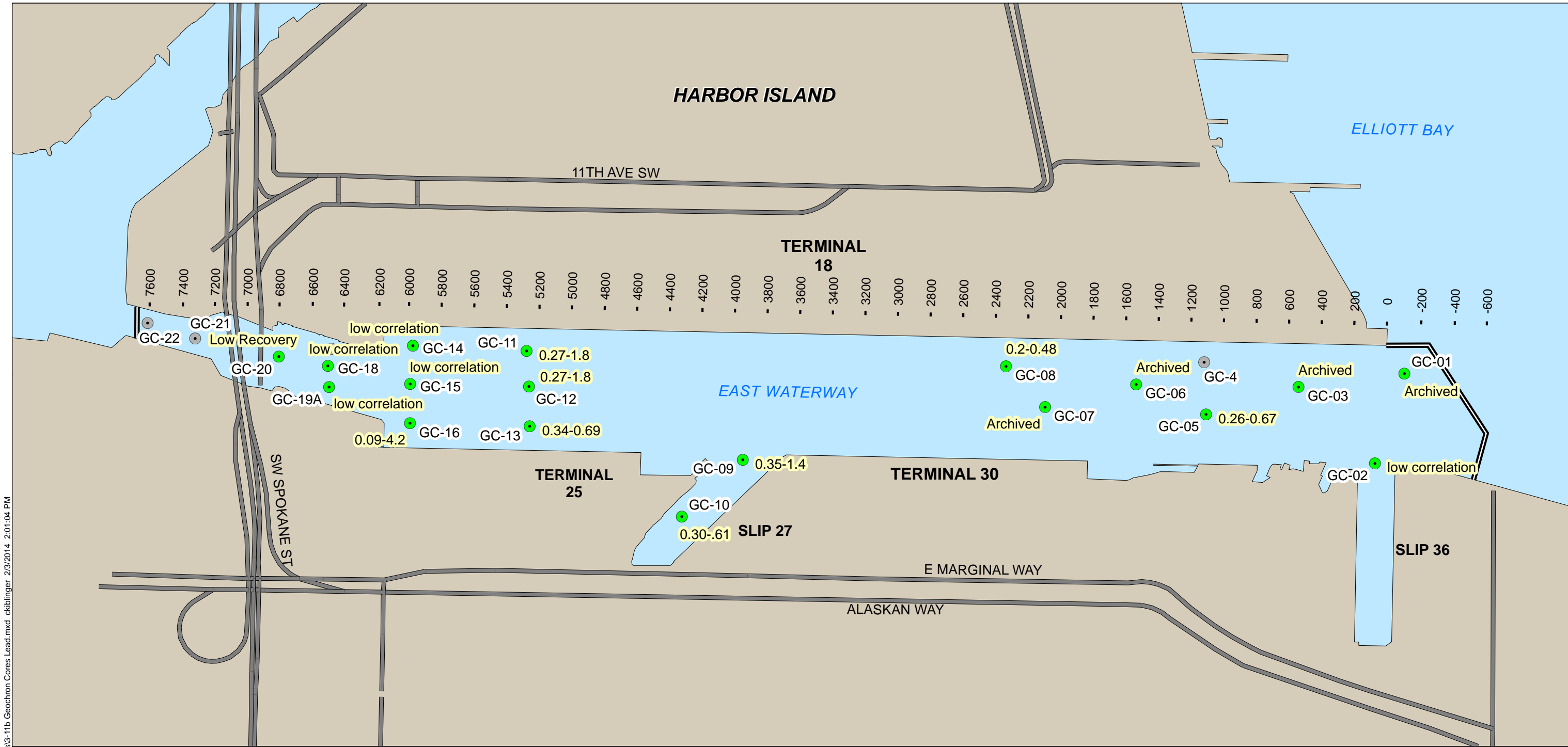
1. Horizontal Datum: NAD 83 WA North US ft
2. Rates are in cm/yr.
3. Presented locations represent accepted at or final attempt.
4. Low recovery: cores that were less than 45 cm in length upon retrieval.
5. Samples collected in July 2010 have been archived to support additional testing.

- Geochronological Cores, Cesium-137 Results
- Geochronological Cores - No Recovery
- Study Area Boundary



R:\Jobs\060003-01 East WW SRI_FSM\3-11a Geochron Cores Cesium.mxd ckb\lgr 2/3/2014 1:59:30 PM

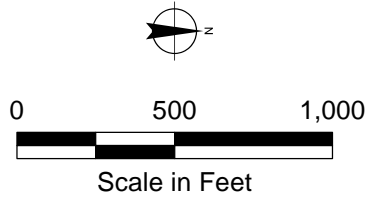
Map 3-11a
 Geochronology Core Location Map and Cesium-137 Sedimentation Rates (cm/yr)
 Supplemental Remedial Investigation Report
 East Waterway Operable Unit SRI/FS



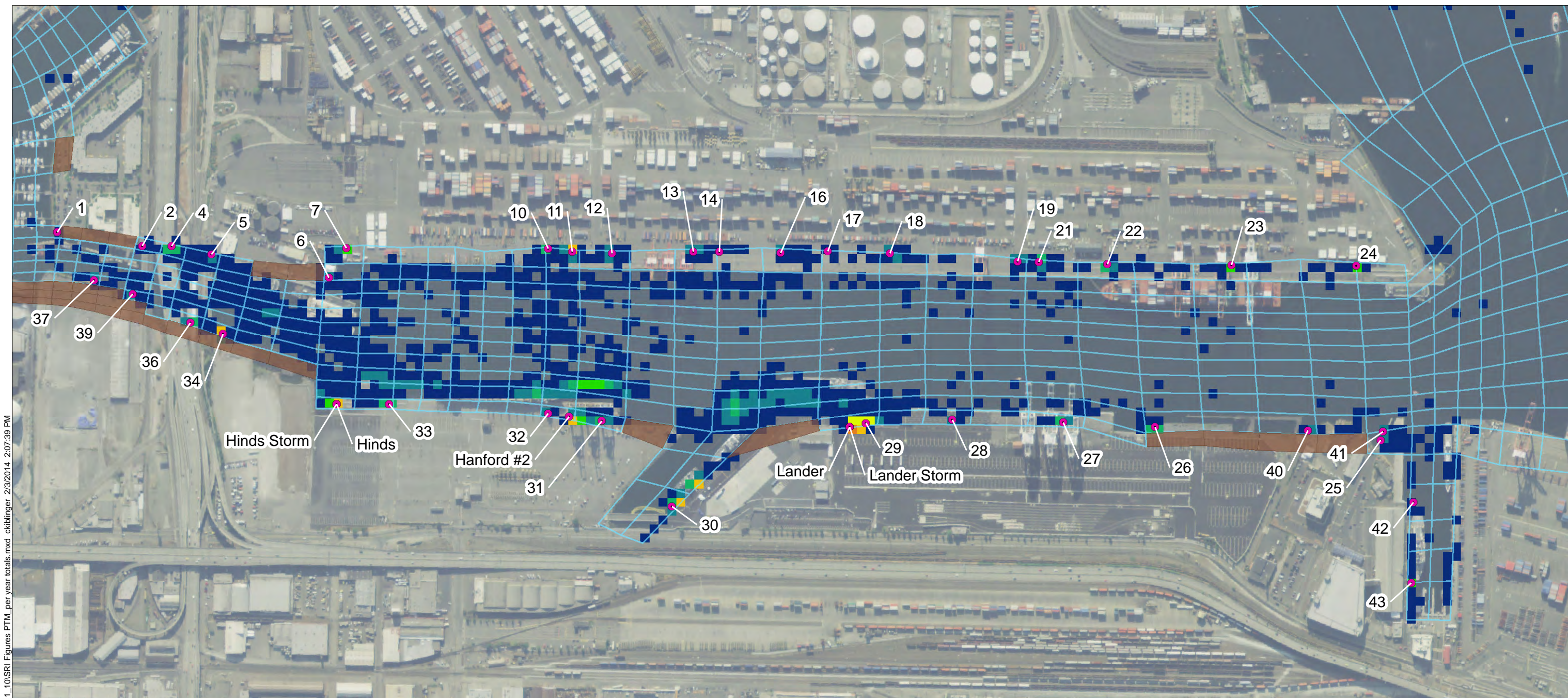
NOTES:

1. Horizontal Datum: NAD 83 WA North US ft
2. Rates are in cm/yr.
3. Presented locations represent accepted at or final attempt.
4. Low recovery: cores that were less than 45 cm in length upon retrieval.
5. Low correlation: cores where the statistical relationship between depth in the core (below mudline) and Pb-210 value had a R^2 value less than 0.5.
6. Samples collected in July 2010 have been archived to support additional testing.

- Geochronological Cores, Lead-210 Results
- Geochronological Cores - No Recovery
- ══ Study Area Boundary



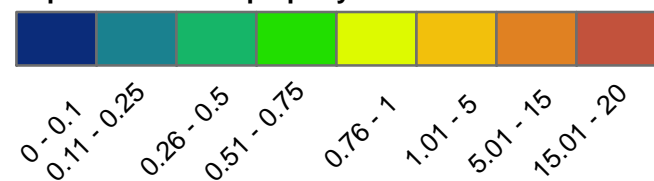
Map 3-11b
Geochronology Core Location Map and Lead-210 Sedimentation Rates (cm/yr)
Supplemental Remedial Investigation Report
East Waterway Operable Unit SRI/FS



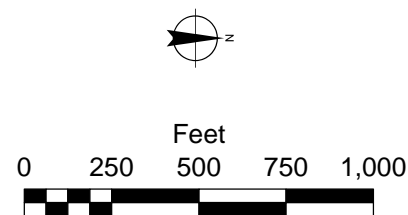
R:\Jobs\060003-01_East_Waterway_SedTransMaps\2011_10\SRF\Figures\PTM_per_year_totals.mxd ckbinger 2/3/2014 2:07:39 PM

● PTM Outfall Locations
EFDC Hydrodynamic Model Grid
 Land
 Water

Deposition in lb/sq.ft per year

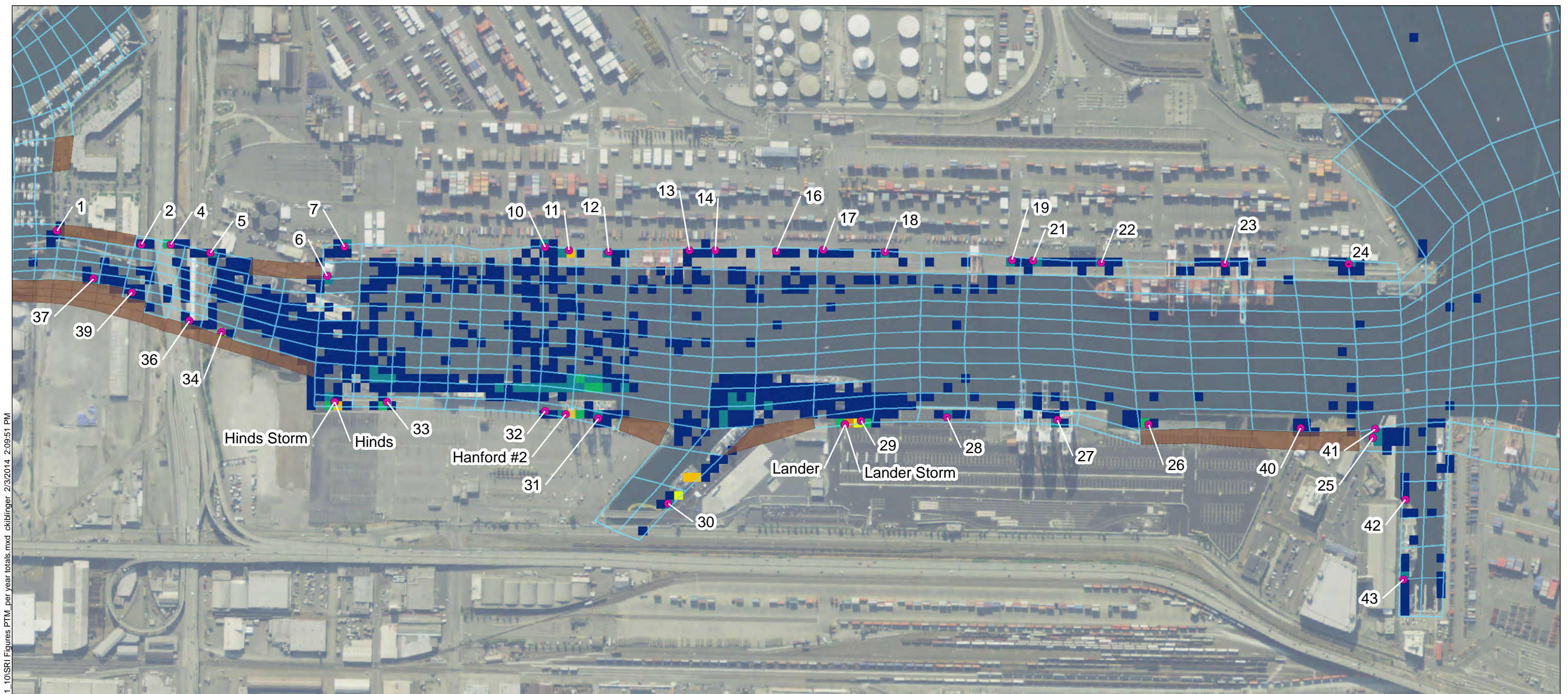


Areas with no color shading had no deposition during the model simulation period.



NOTES:

1. Deposition data (points) output from PTM model simulation has been represented by a 50 ft x 50 ft resolution raster map of mass accumulation per square foot (lb/sq foot)
2. Mass accumulation represents deposition over one year (extrapolated from a 28 day simulation time).
4. Lander, Hanford, and Hines are CSOs.
5. Outfall numbers (names) correspond to drainage basins.
6. Deposition pattern shown does not account for re-suspension of particles due to prop wash.



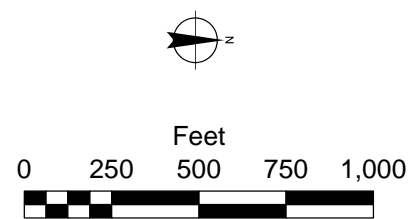
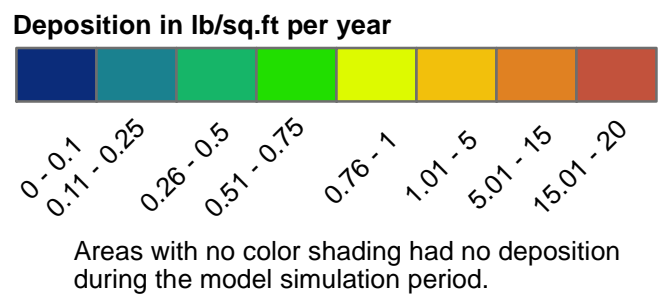
R:\Jobs\060003-01_East_Waterway_SedTransMaps\2011_10\SRF\Figures\PTM_per_year_totals.mxd ckbinger 2/3/2014 2:09:51 PM

● PTM Outfall Locations

EFDC Hydrodynamic Model Grid

Land

Water



NOTES:

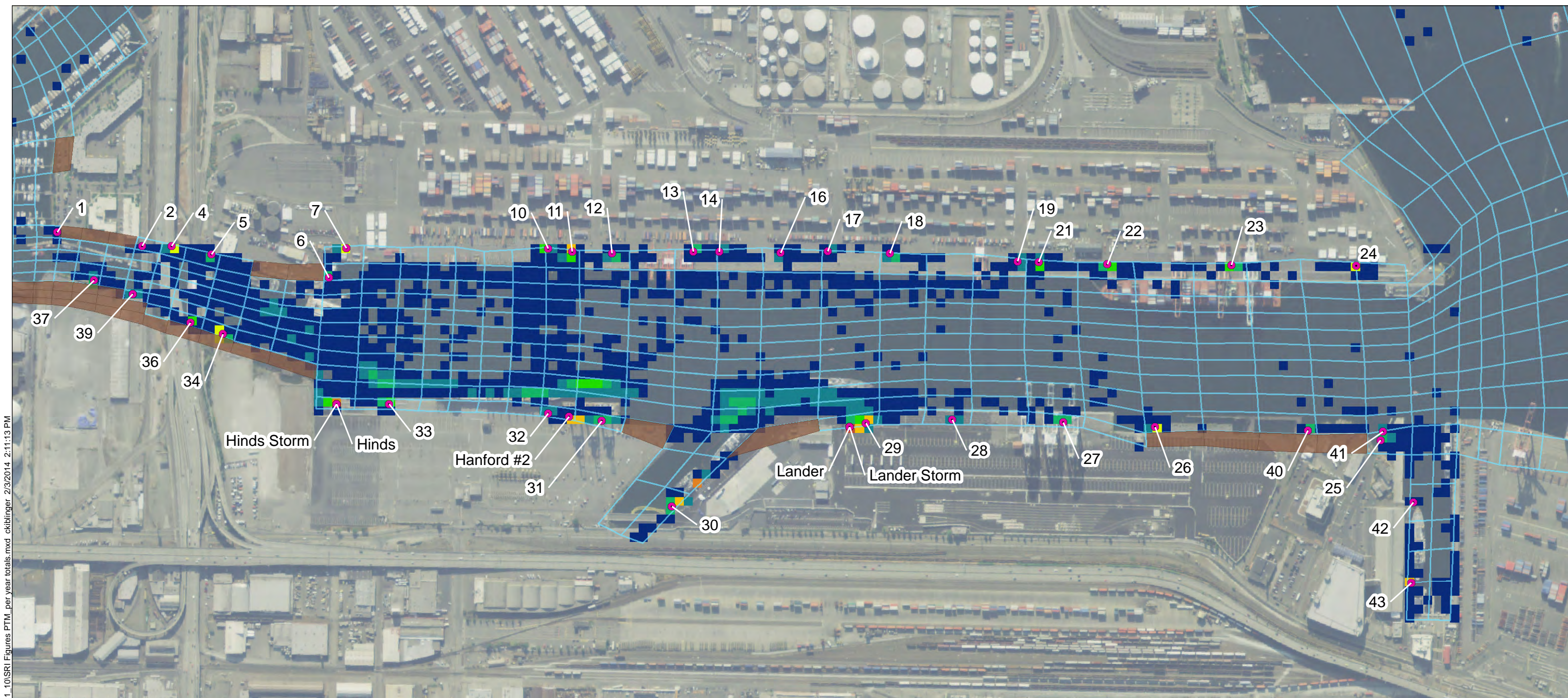
1. Deposition data (points) output from PTM model simulation has been represented by a 50 ft x 50 ft resolution raster map of mass accumulation per square foot (lb/sq foot)
2. Mass accumulation represents deposition over one year (extrapolated from a 28 day simulation time).
4. Lander, Hanford, and Hines are CSOs.
5. Outfall numbers (names) correspond to drainage basins.
6. Deposition pattern shown does not account for re-suspension of particles due to prop wash.

Map 3-13

Predicted Annual Deposition (lb/sq.ft.) due to Lateral Loads, Lower Bounding Case (25% TSS Values)

Draft Supplemental Remedial Investigation Report

East Waterway Operable Unit



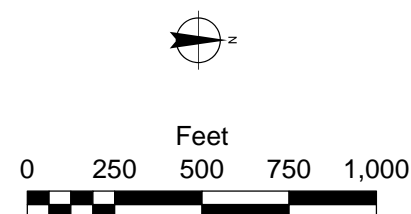
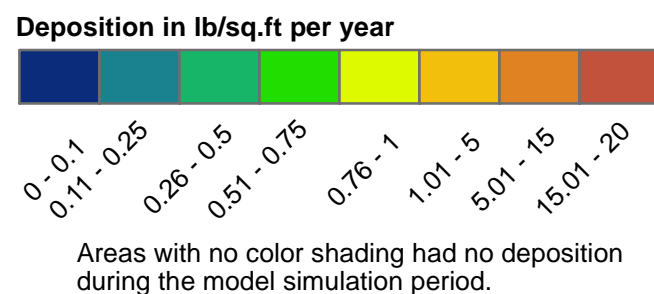
R:\Jobs\060003-01_East_Waterway_SedTransMaps\2011_10\SRF\Figures\PTM_per_year_totals.mxd ckbinger 2/3/2014 2:11:13 PM

● PTM Outfall Locations

EFDC Hydrodynamic Model Grid

Land

Water



NOTES:

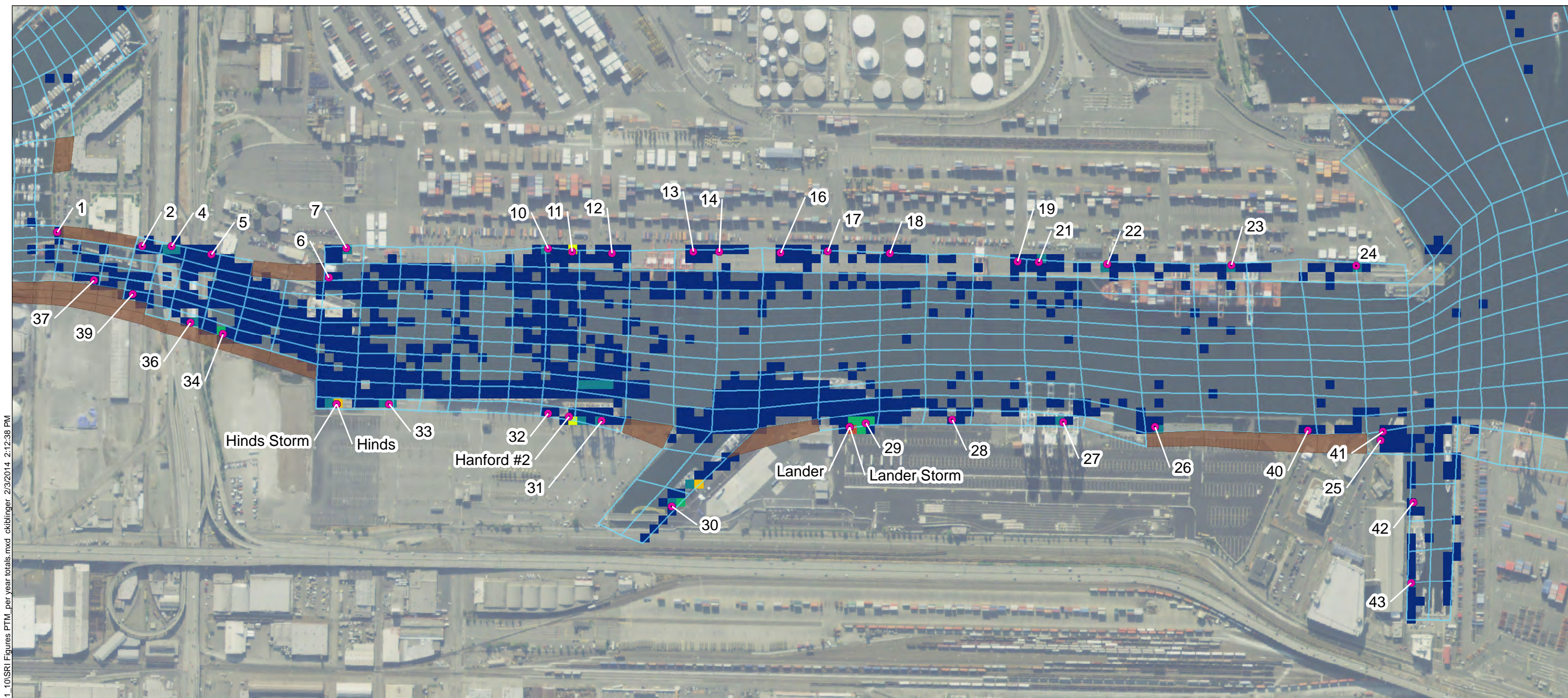
1. Deposition data (points) output from PTM model simulation has been represented by a 50 ft x 50 ft resolution raster map of mass accumulation per square foot (lb/sq foot)
2. Mass accumulation represents deposition over one year (extrapolated from a 28 day simulation time).
4. Lander, Hanford, and Hines are CSOs.
5. Outfall numbers (names) correspond to drainage basins.
6. Deposition pattern shown does not account for re-suspension of particles due to prop wash.

Map 3-14

Predicted Annual Deposition (lb/sq.ft.) due to Lateral Loads, Upper Bounding Case (75% TSS Values)

Draft Supplemental Remedial Investigation Report

East Waterway Operable Unit



R:\Jobs\060003-01_East_Waterway_SedTransMaps\2011_10\SRF\Figures\PTM_per_year_totals.mxd ckbinger 2/3/2014 2:12:38 PM

● PTM Outfall Locations

EFDC Hydrodynamic Model Grid

Land

Water

Deposition in cm/year

<0.1 0.11 - 0.25 0.26 - 0.5 0.51 - 0.75 0.76 - 1 1.01 - 2 2.01 - 4 4.01 - 7

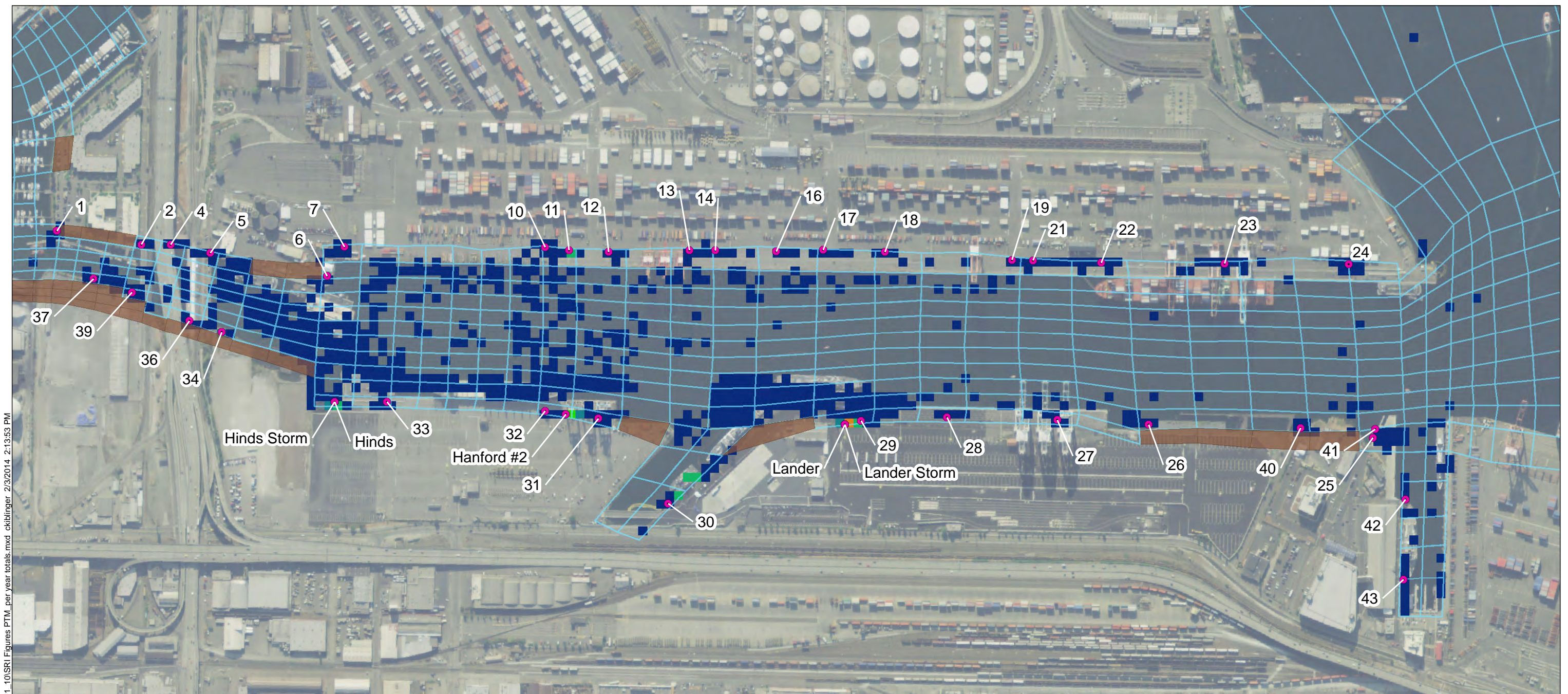
Areas with no color shading had no deposition during the model simulation period.

0 250 500 750 1,000

Feet

NOTES:

1. Deposition data (points) output from PTM model simulation has been represented by a 50 ft x 50 ft resolution raster map of mass accumulation per square foot (lb/sq foot)
2. Mass accumulation represents deposition over one year (extrapolated from a 28 day simulation time).
4. Lander, Hanford, and Hines are CSOs.
5. Outfall numbers (names) correspond to drainage basins.
6. Deposition pattern shown does not account for re-suspension of particles due to prop wash.



R:\Jobs\060003-01_East_Waterway_SedTransMaps\2011_10\SRF\Figures\PTM_per_year_totals.mxd ckbinger 2/3/2014 2:13:53 PM

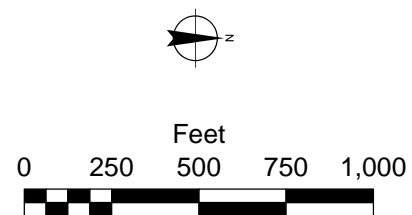
● PTM Outfall Locations
EFDC Hydrodynamic Model Grid
 Land
 Water

Deposition in cm/year

<0.1	0.11 - 0.25	0.26 - 0.5	0.51 - 0.75	0.76 - 1	1.01 - 2	2.01 - 4

4.01 - 1

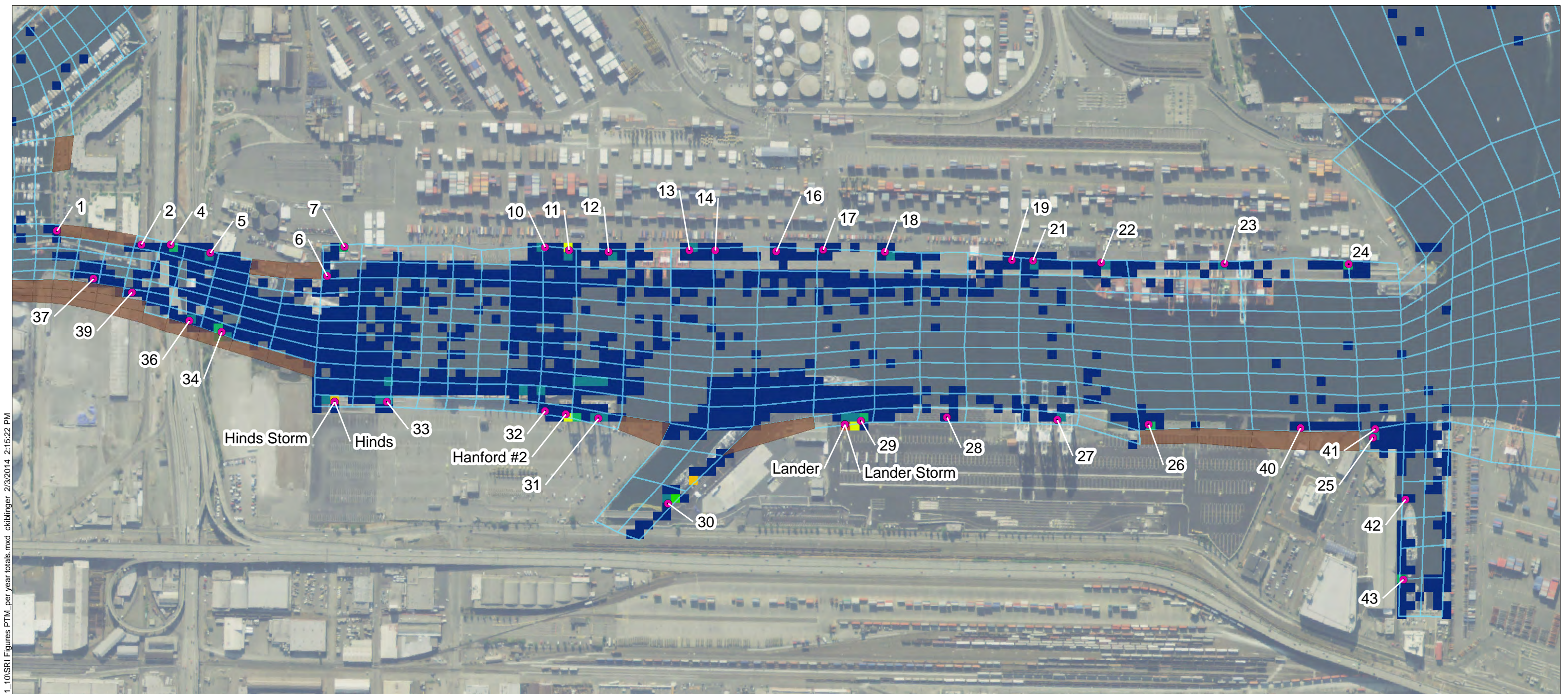
Areas with no color shading had no deposition during the model simulation period.



NOTES:

1. Deposition data (points) output from PTM model simulation has been represented by a 50 ft x 50 ft resolution raster map of mass accumulation per square foot (lb/sq foot)
2. Mass accumulation represents deposition over one year (extrapolated from a 28 day simulation time).
4. Lander, Hanford, and Hines are CSOs.
5. Outfall numbers (names) correspond to drainage basins.
6. Deposition pattern shown does not account for re-suspension of particles due to prop wash.

Map 3-16
 Predicted Annual Deposition (cm/yr) due to Lateral Loads, Lower Bounding Case (25% TSS Values)
 Draft Supplemental Remedial Investigation Report
 East Waterway Operable Unit



R:\Jobs\060003-01_East_Waterway_SedTransMaps\2011_10\SRF\Figures\PTM_per_year_totals.mxd ckbinger 2/3/2014 2:15:22 PM

● PTM Outfall Locations

EFDC Hydrodynamic Model Grid

Land

Water

Deposition in cm/year

<0.1 0.11 - 0.25 0.26 - 0.5 0.51 - 0.75 0.76 - 1 1.01 - 2 2.01 - 4 4.01 - 7

Areas with no color shading had no deposition during the model simulation period.

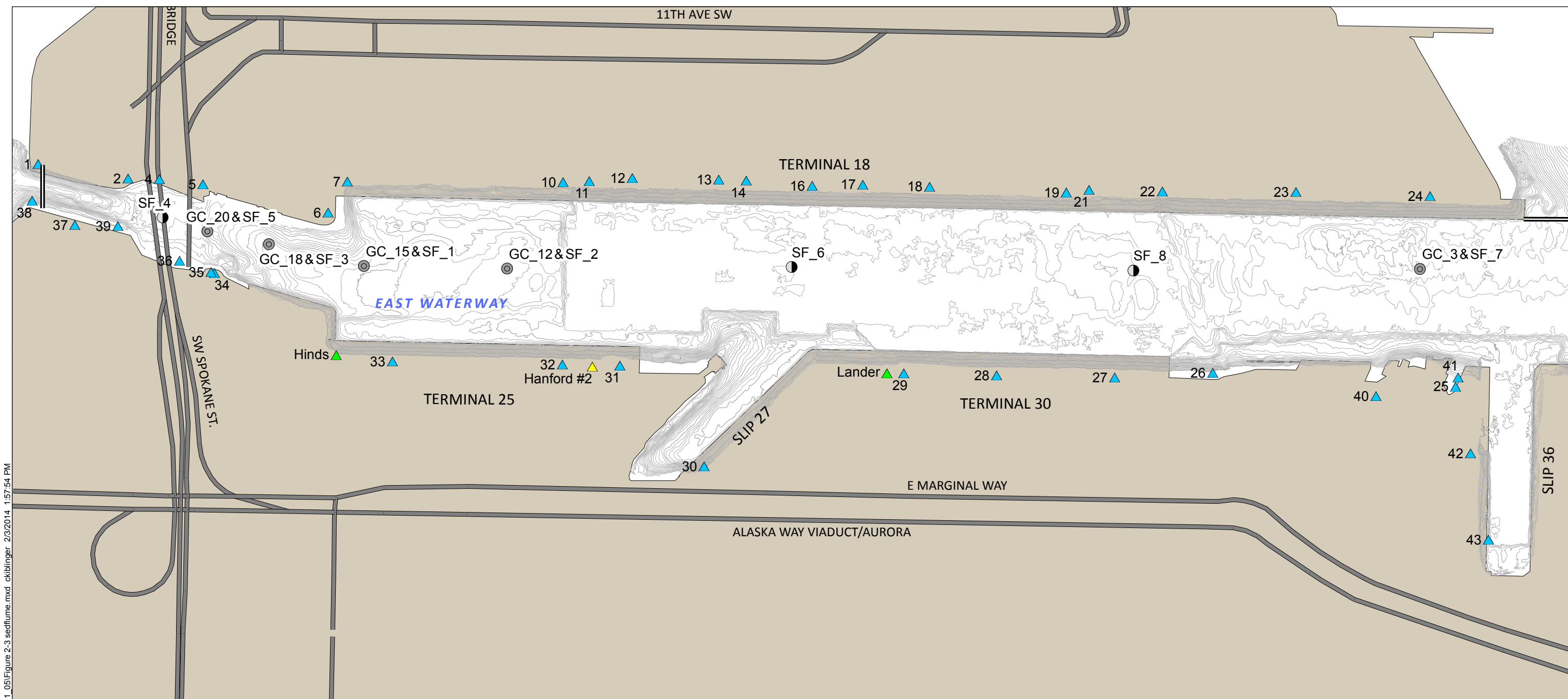
0 250 500 750 1,000

Feet

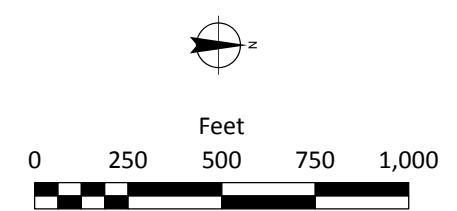
NOTES:

1. Deposition data (points) output from PTM model simulation has been represented by a 50 ft x 50 ft resolution raster map of mass accumulation per square foot (lb/sq foot)
2. Mass accumulation represents deposition over one year (extrapolated from a 28 day simulation time).
4. Lander, Hanford, and Hines are CSOs.
5. Outfall numbers (names) correspond to drainage basins.
6. Deposition pattern shown does not account for re-suspension of particles due to prop wash.

R:\Jobs\060003-01_East_Waterway_SedTransMaps\2011_05\Figure 2-3 sedflume.mxd ckblinger 2/3/2014 1:57:54 PM



- Sedflume Core Locations – Co-located with Geochron Cores
- Sedflume Core Locations
- ▲ Storm Drain
- ▲ CSO/SD
- ▲ CSO
- Study Area Boundary



Map 3-18
Sedflume Core Locations
Draft Supplemental Remedial Investigation Report
East Waterway Operable Unit