

Figure B-1. Cumulative frequency distribution of effective particle diameter for class 2 and 3 sediment in surface layer (0~1 ft) of LDW sediment bed.

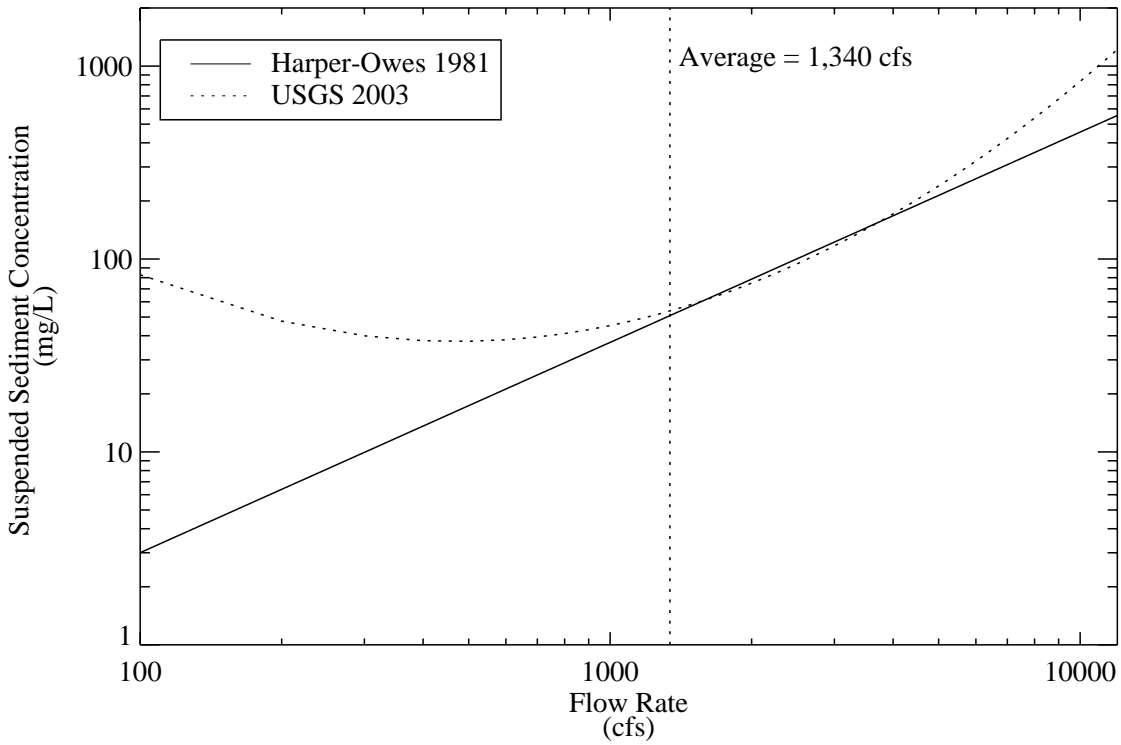
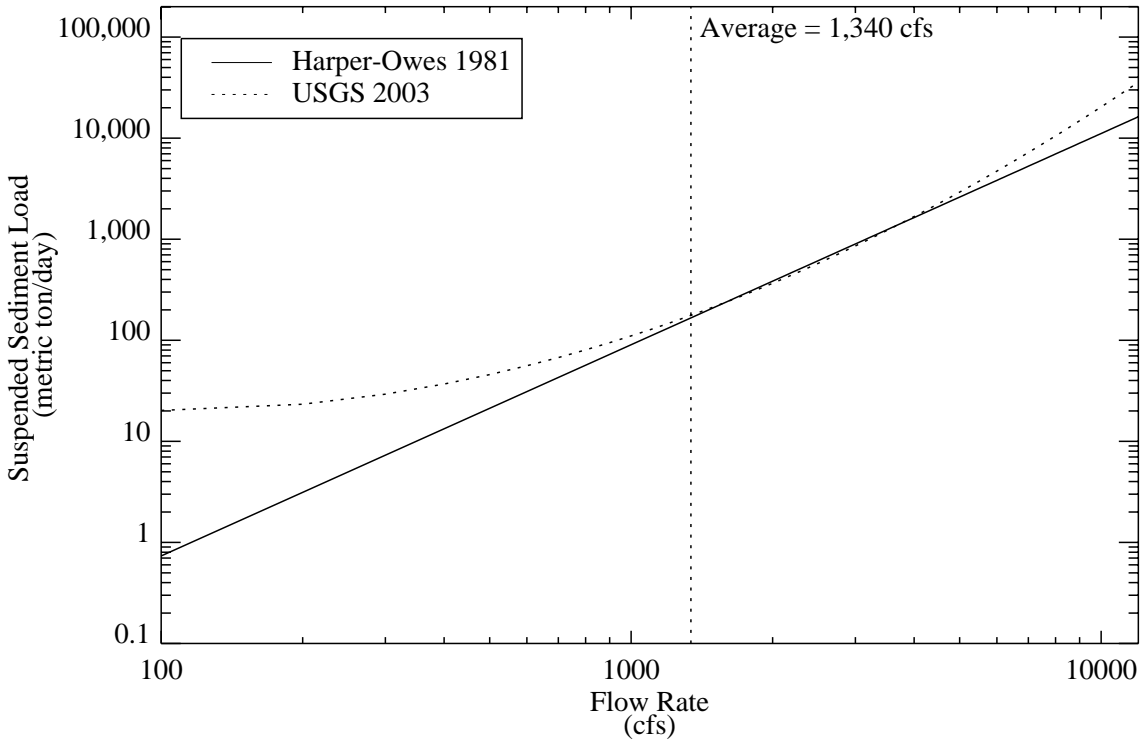


Figure B-2. Rating curves for suspended sediment load in Green River.

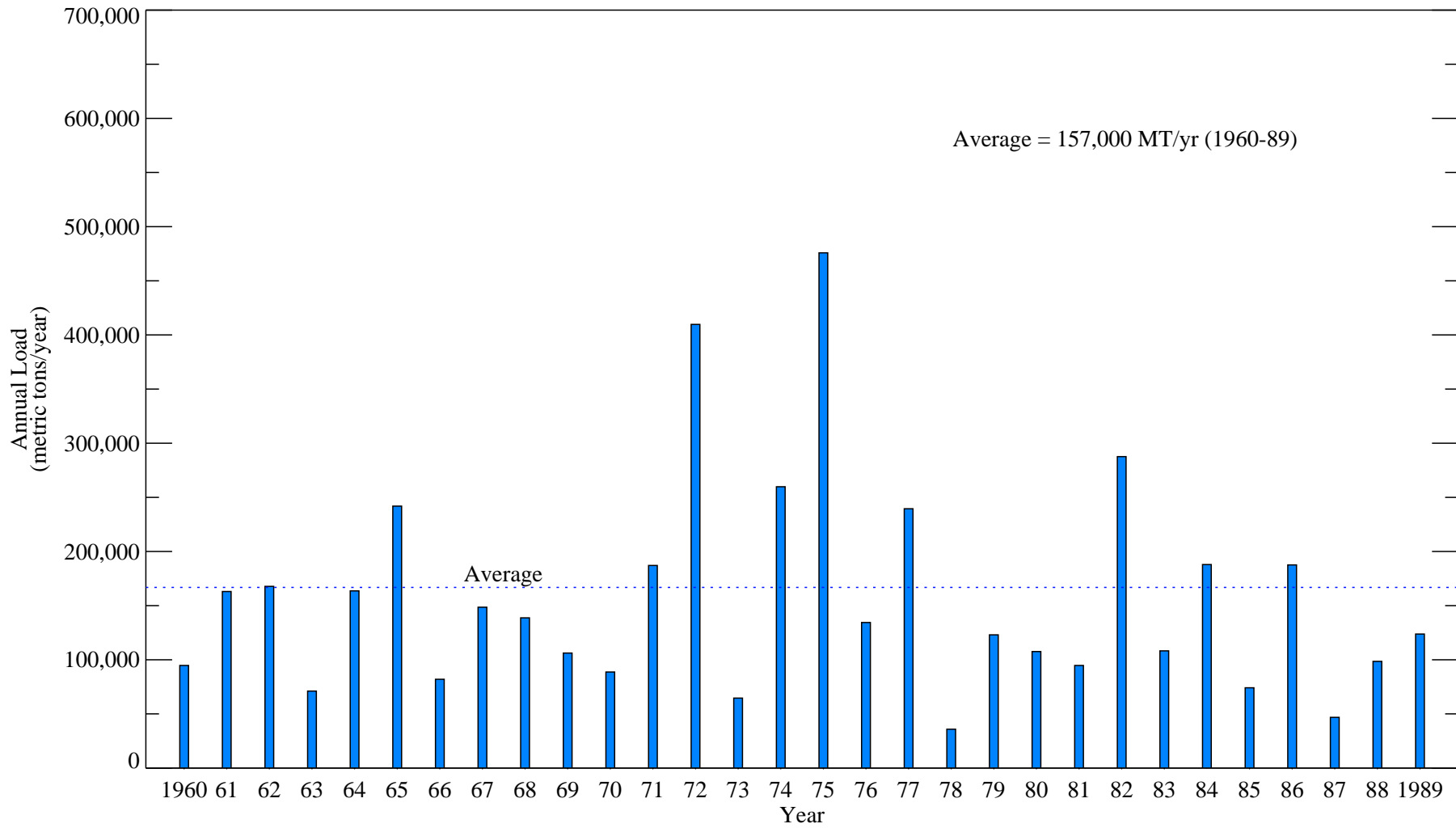


Figure B-3. Estimated annual suspended sediment load in the Green River: 1960 - 1989.

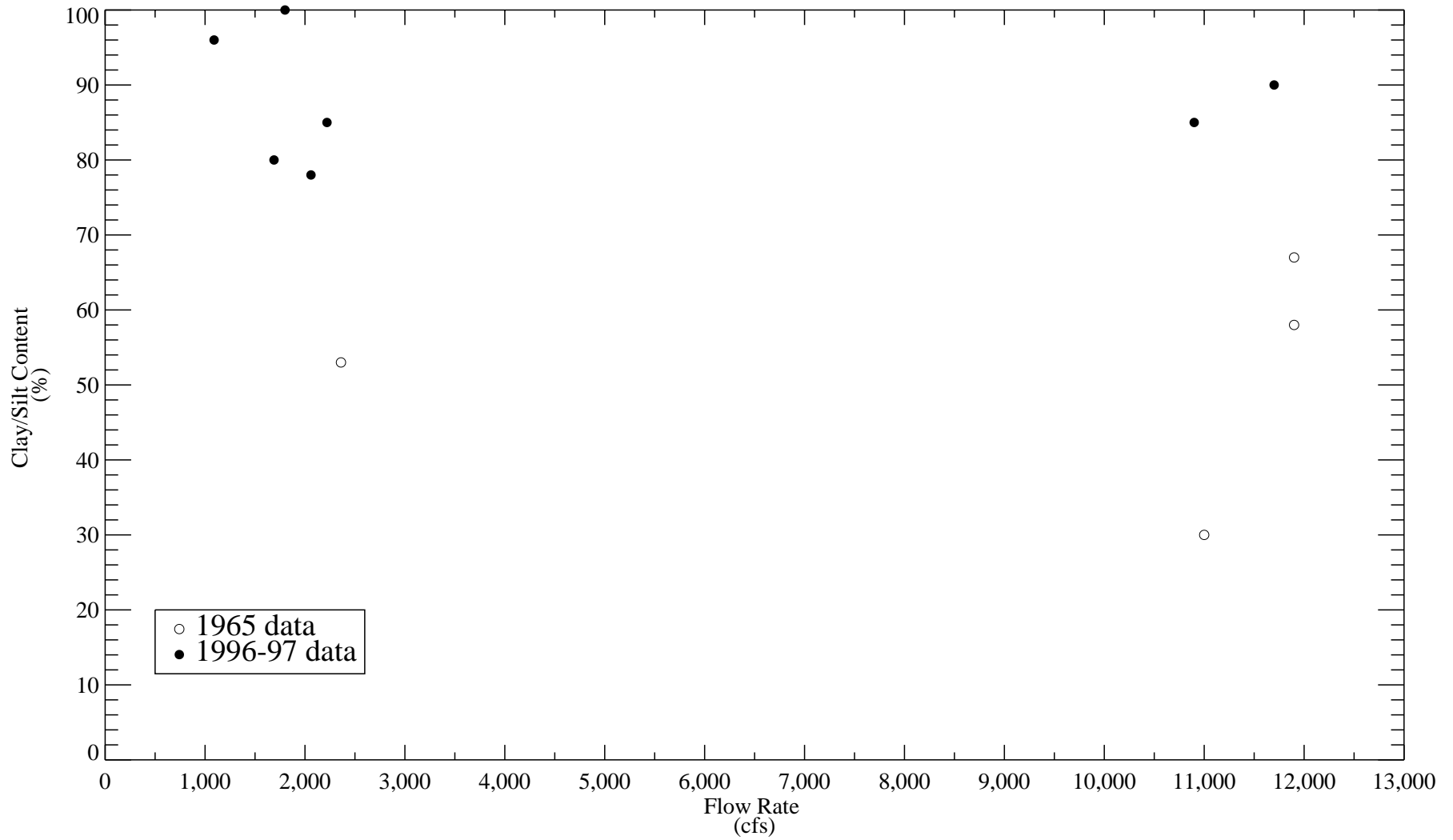


Figure B-4. Measured clay/silt content of suspended sediment load in the Green River as a function of river flow rate.

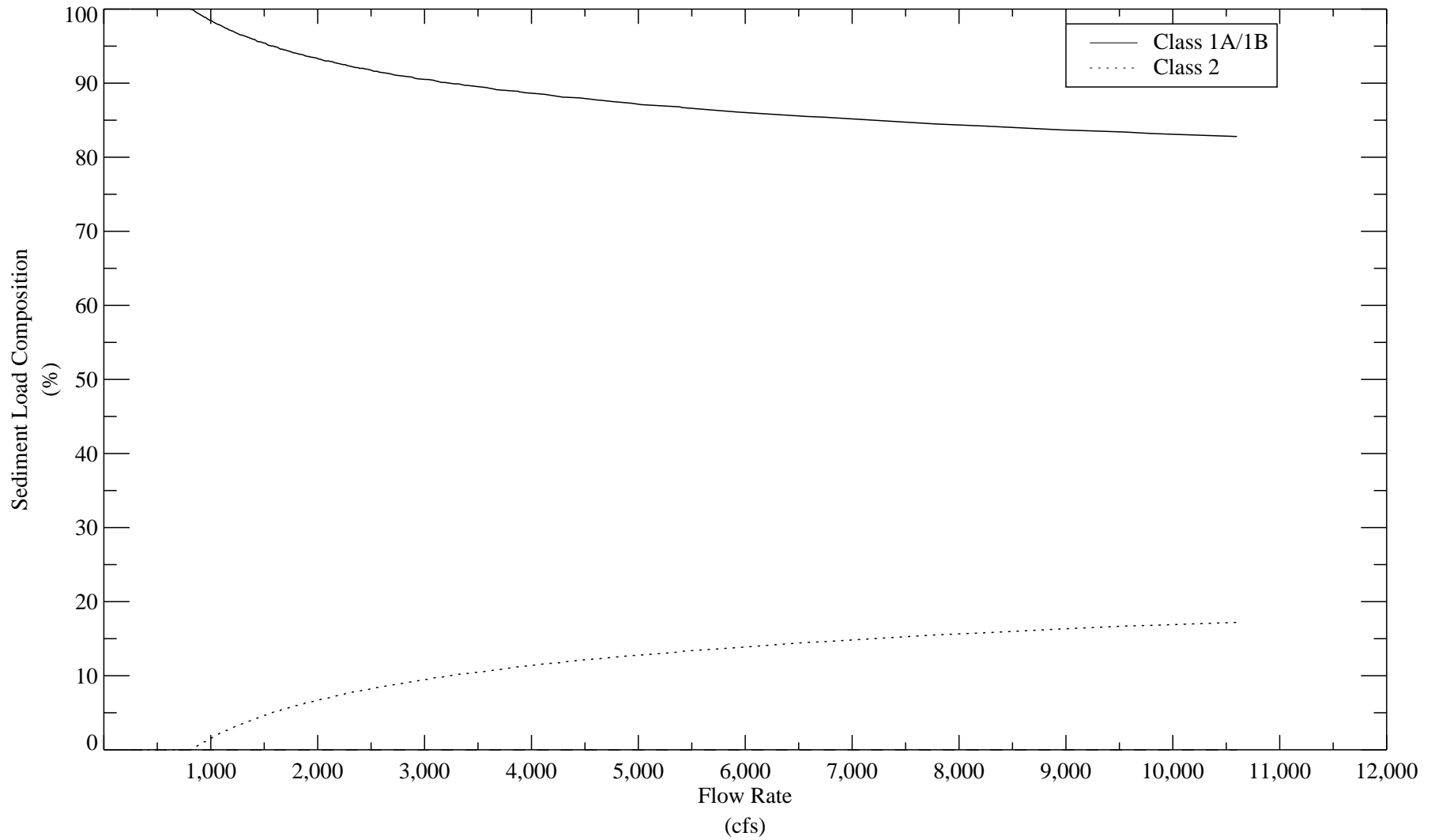


Figure B-5. Estimated composition of suspended sediment load in the Green River as a function of river flow rate.

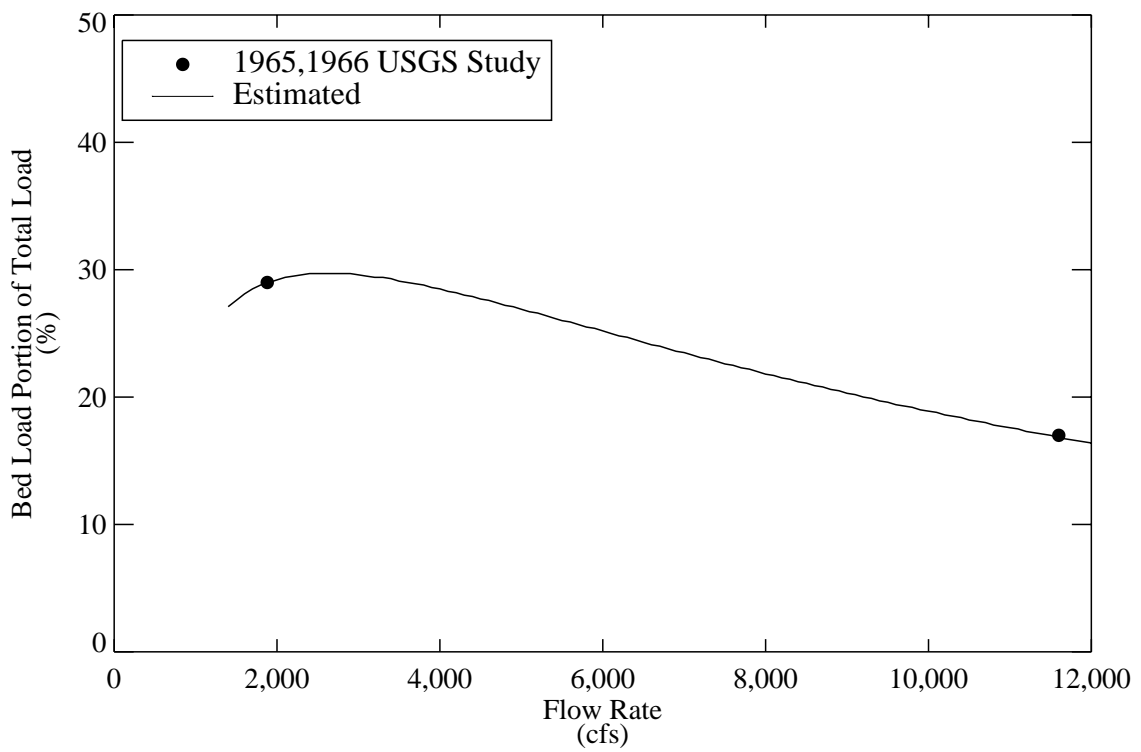
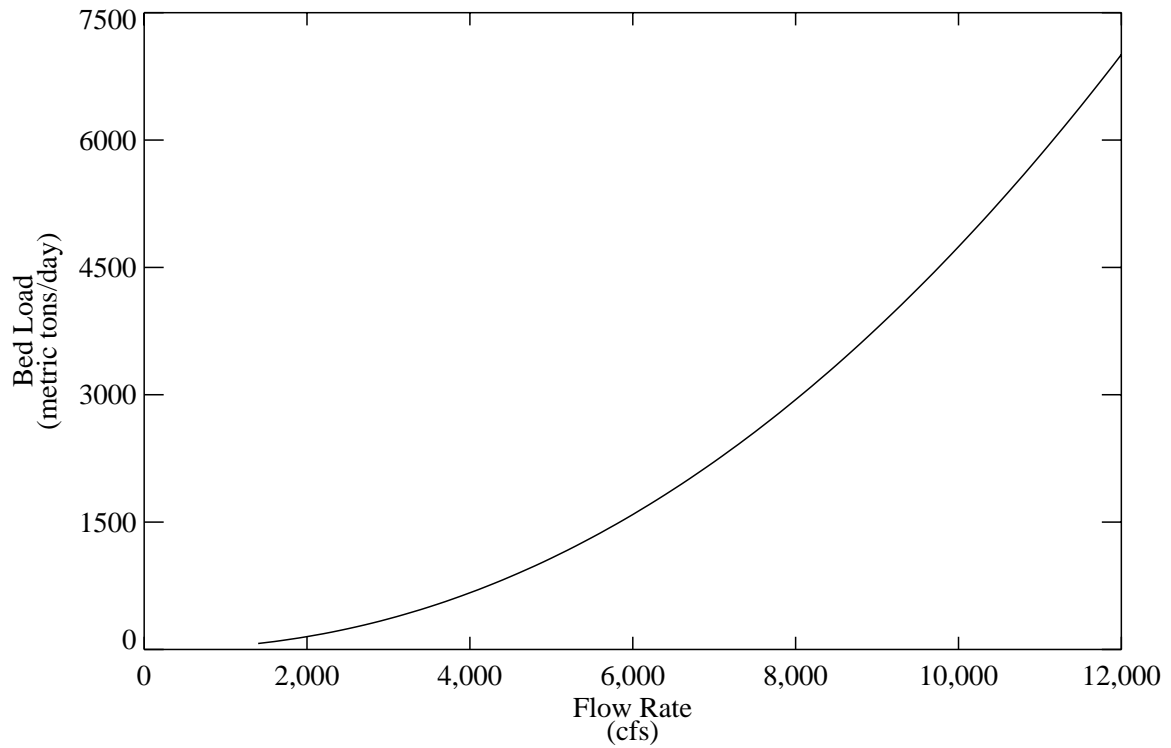


Figure B-6. Estimated bed load in the Green River as a function of river flow rate.

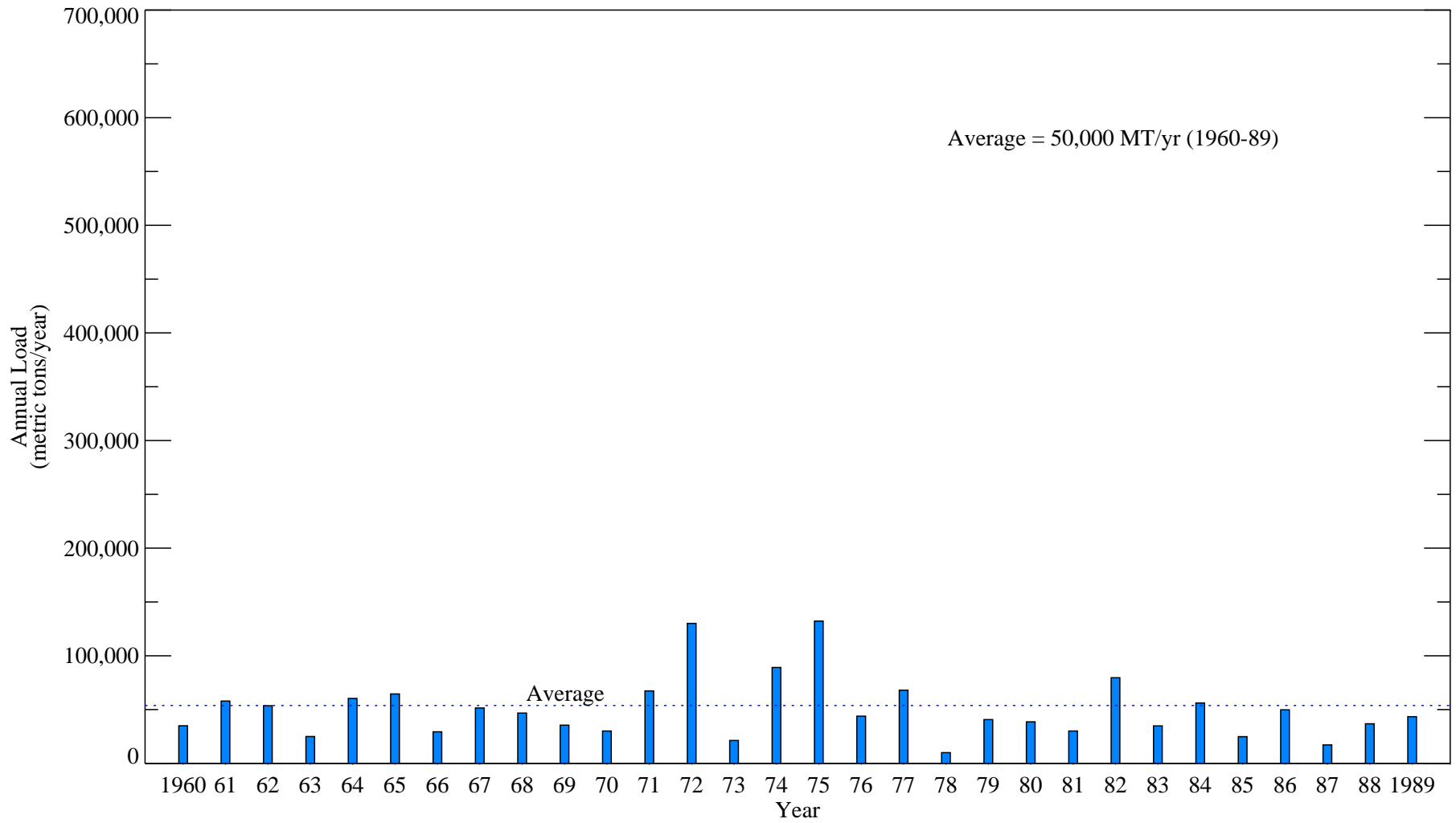
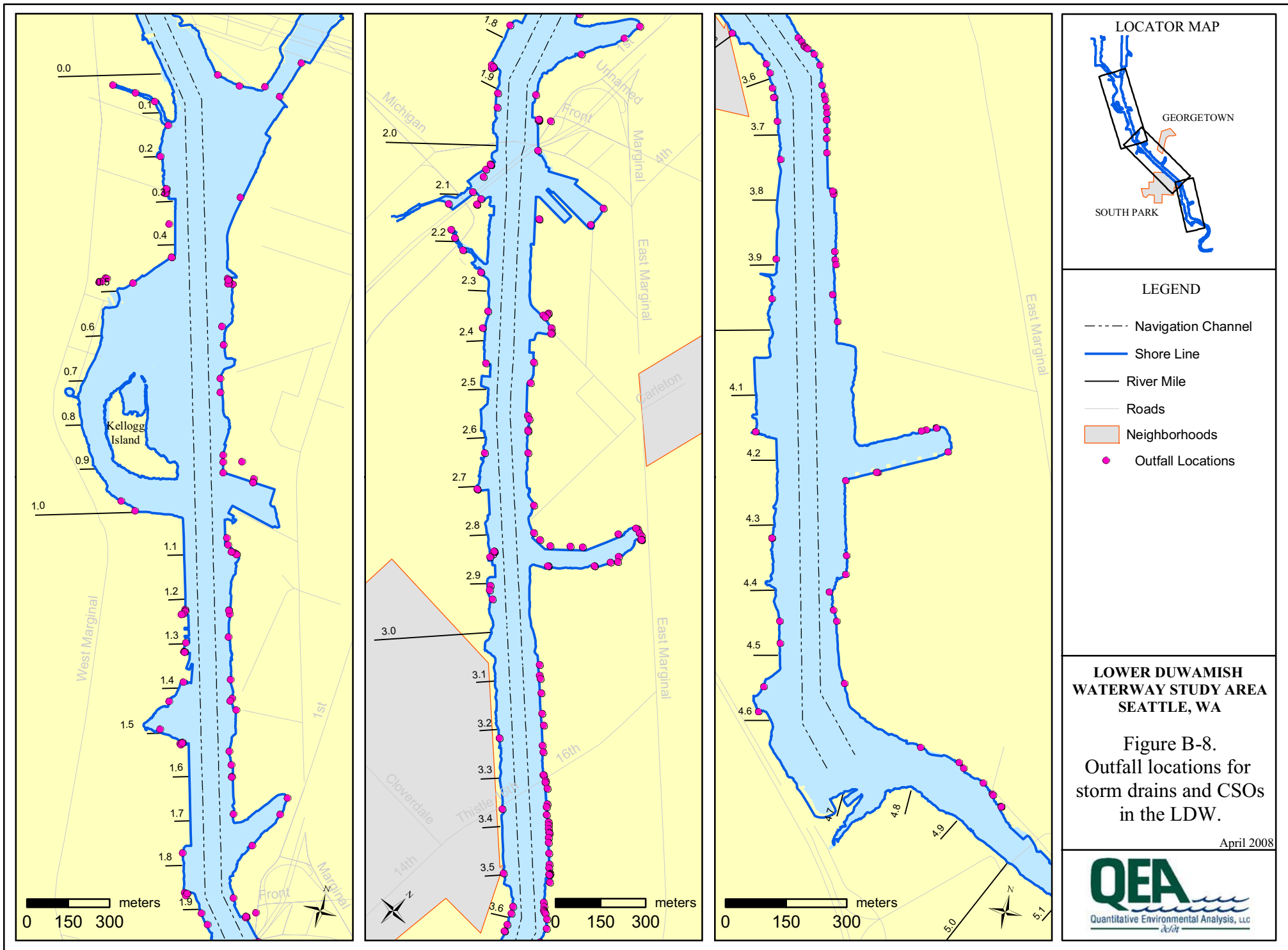


Figure B-7. Estimated annual bed load in the Green River: 1960 - 1989.



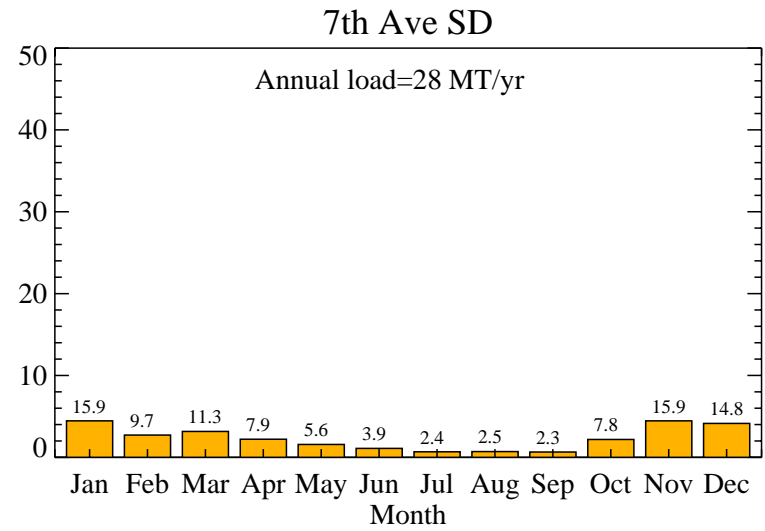
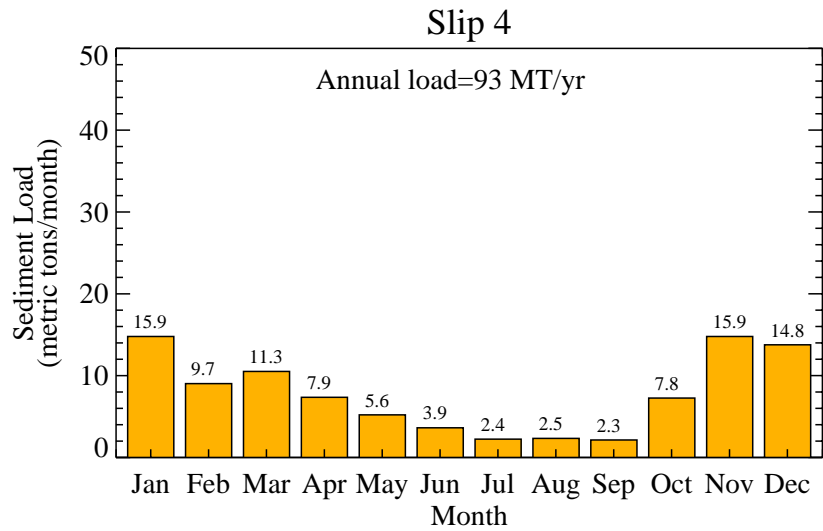
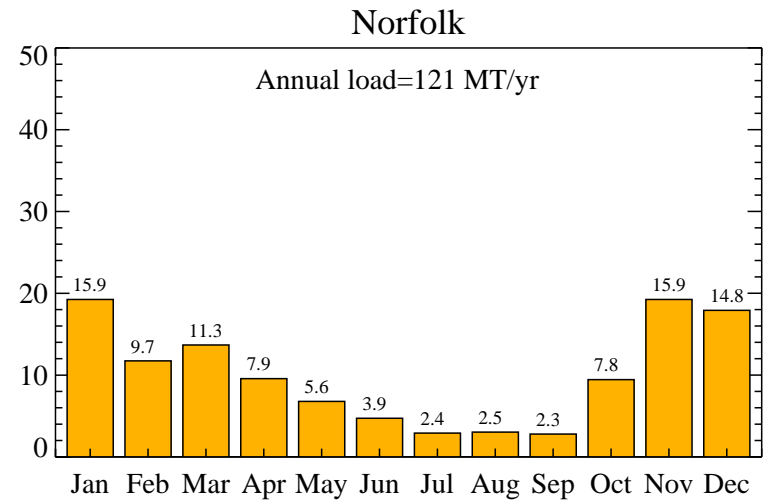
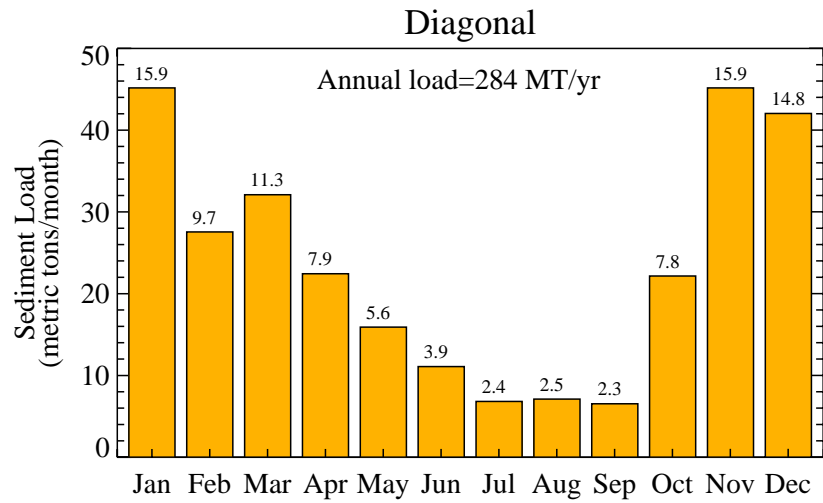


Figure B-9. Estimated monthly sediment load from LDW storm drains: Diagonal, Norfolk, Slip 4, and 7th Avenue.

Value at top of bar is percent of annual load.

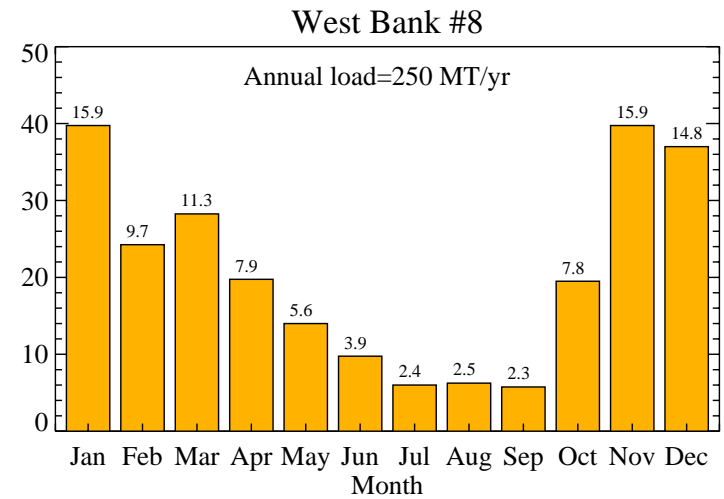
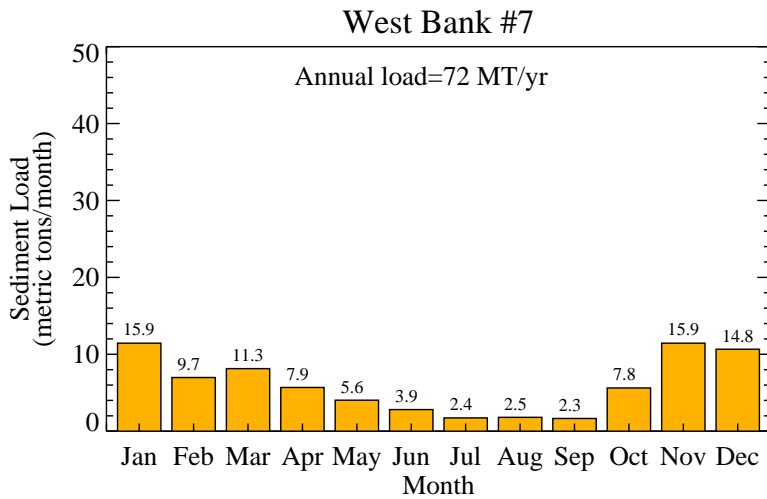
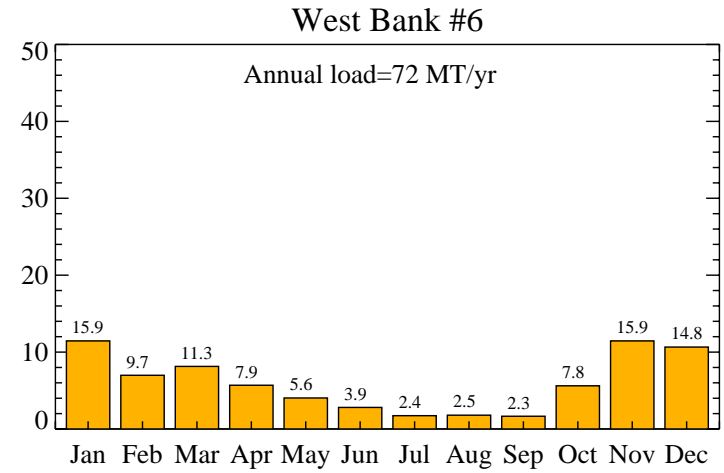
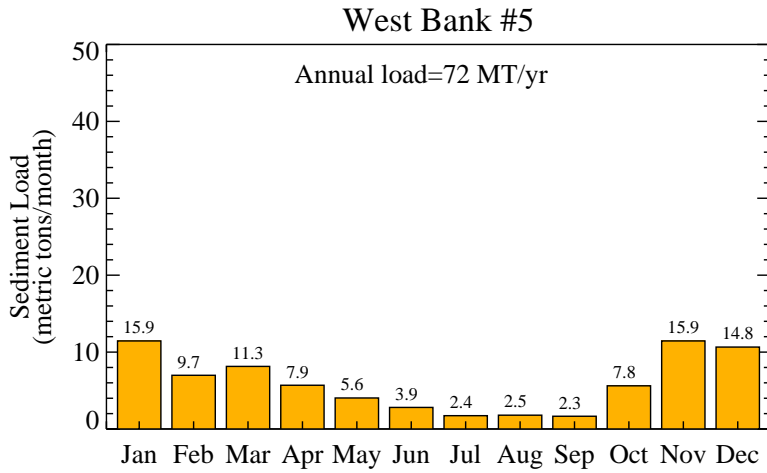


Figure B-10. Estimated monthly sediment load from LDW storm drains: West Bank #5, 6, 7, and 8.

Value at top of bar is percent of annual load.

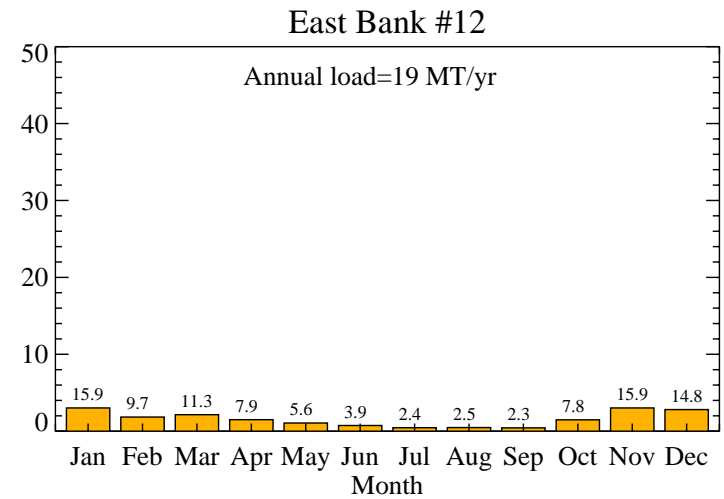
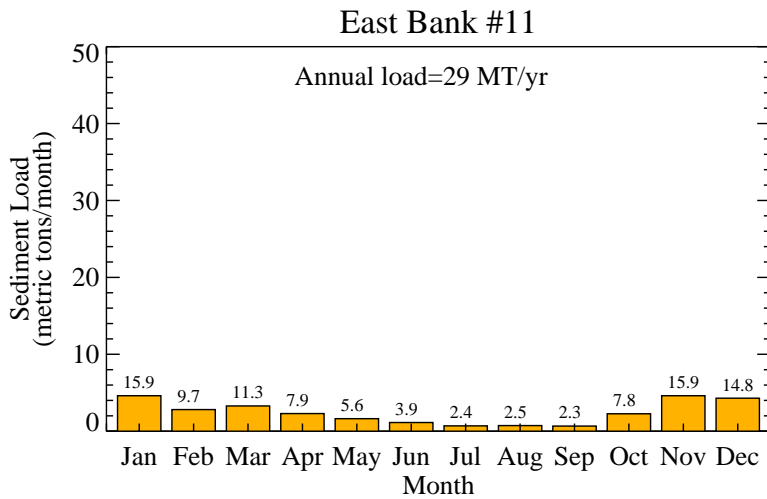
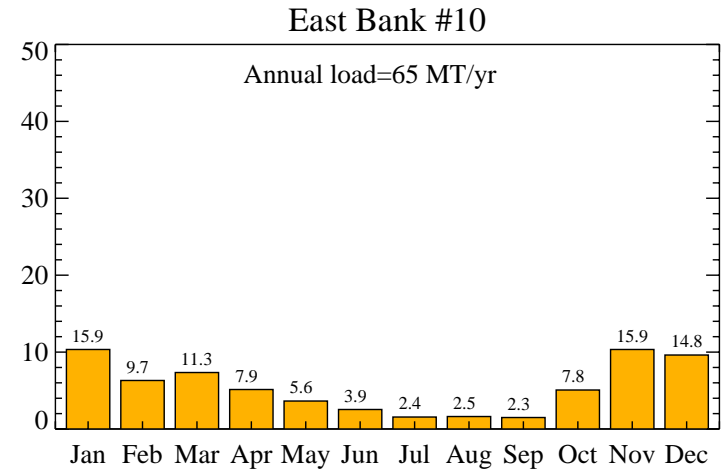
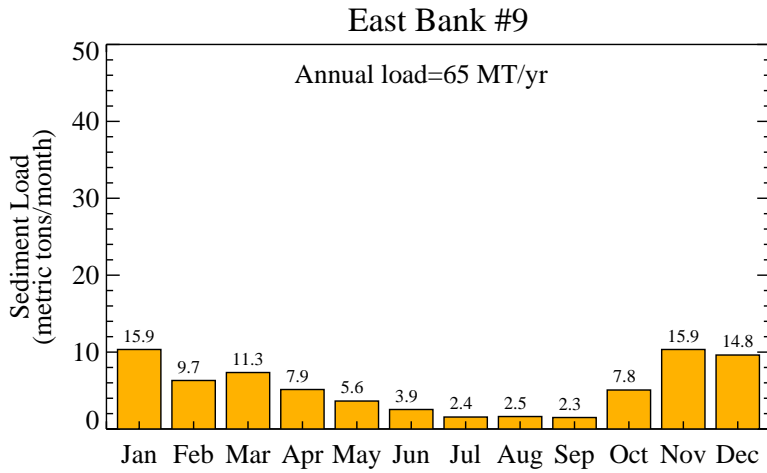


Figure B-11. Estimated monthly sediment load from LDW storm drains: East Bank # 9, 10, 11, and 12.

Value at top of bar is percent of annual load.

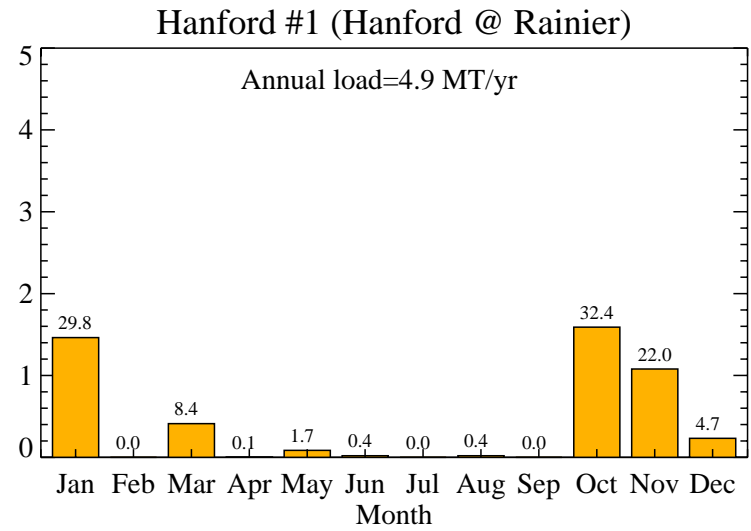
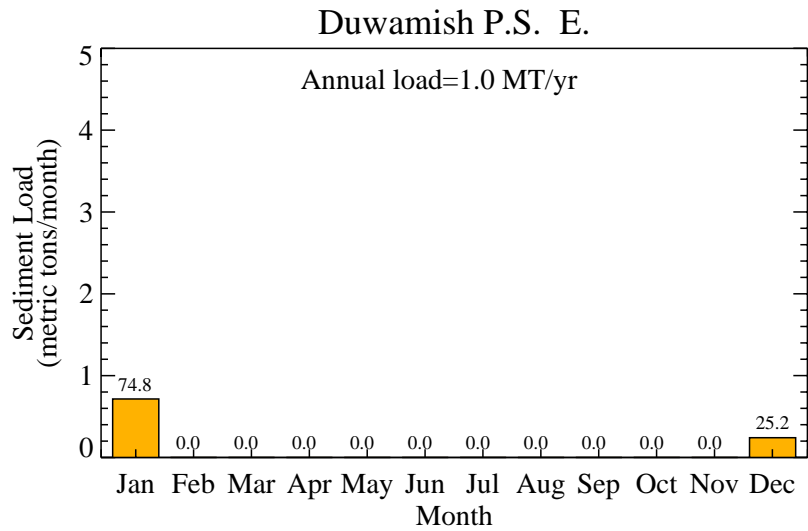
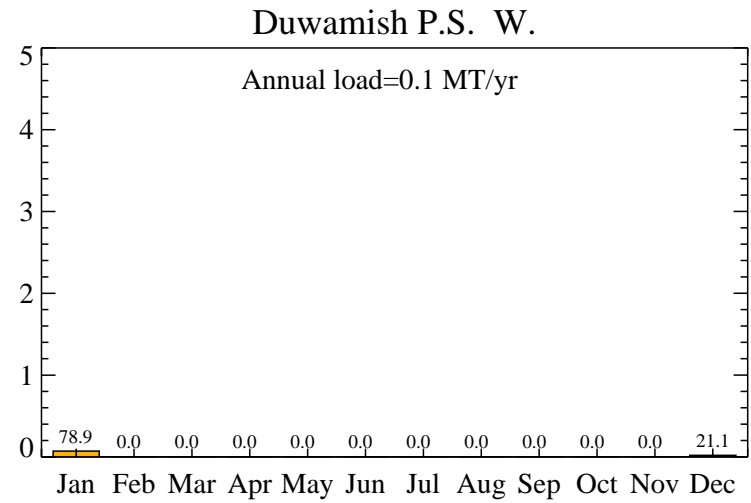
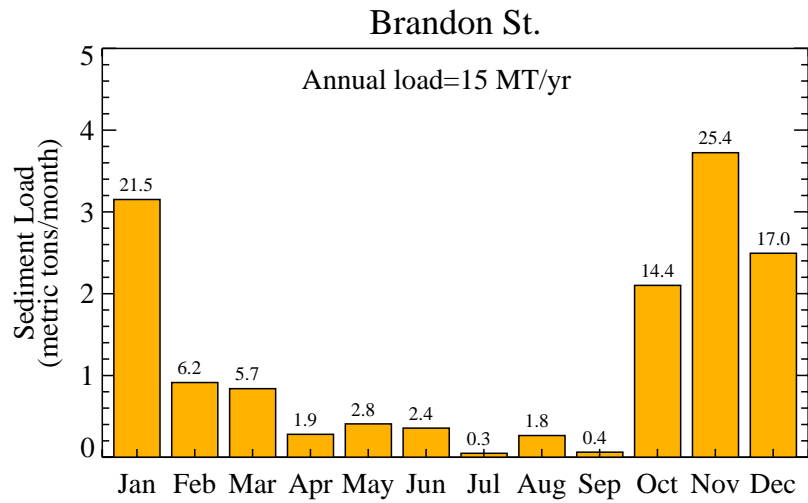


Figure B-12. Estimated monthly sediment load from LDW CSOs: Brandon St., Duwamish West, Duwamish East, and Hanford #1.

Value at top of bar is percent of annual load.

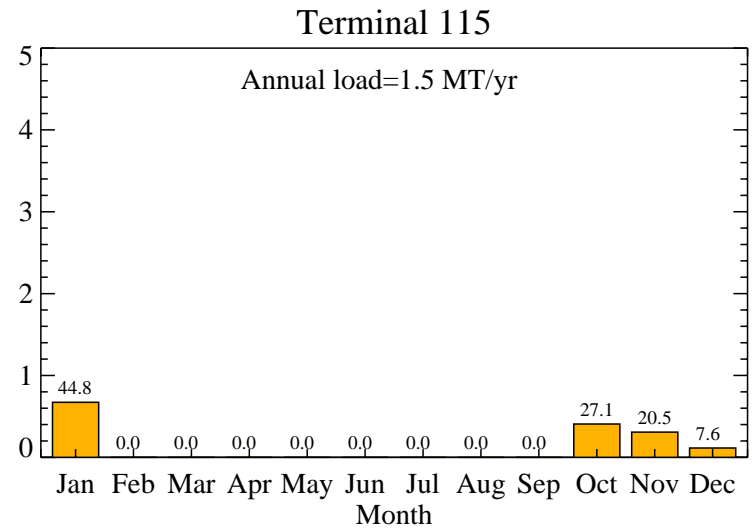
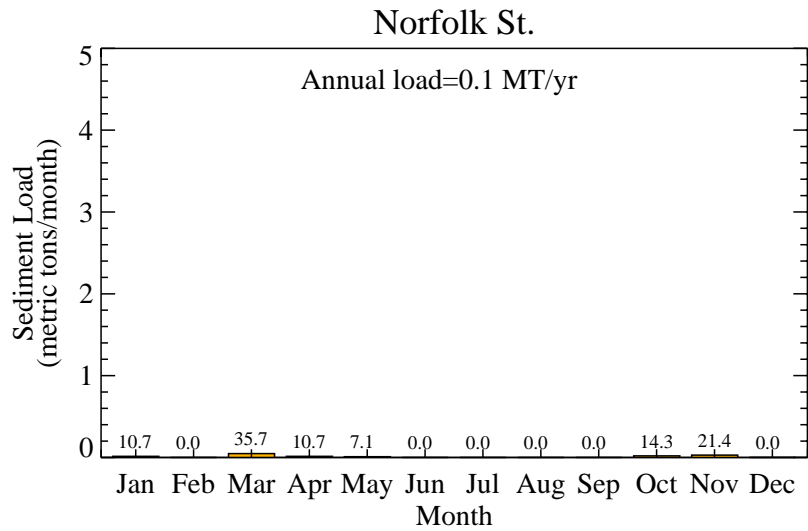
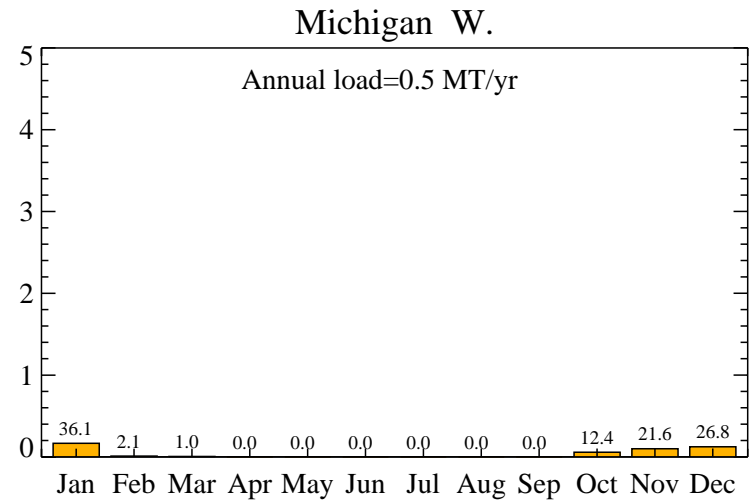
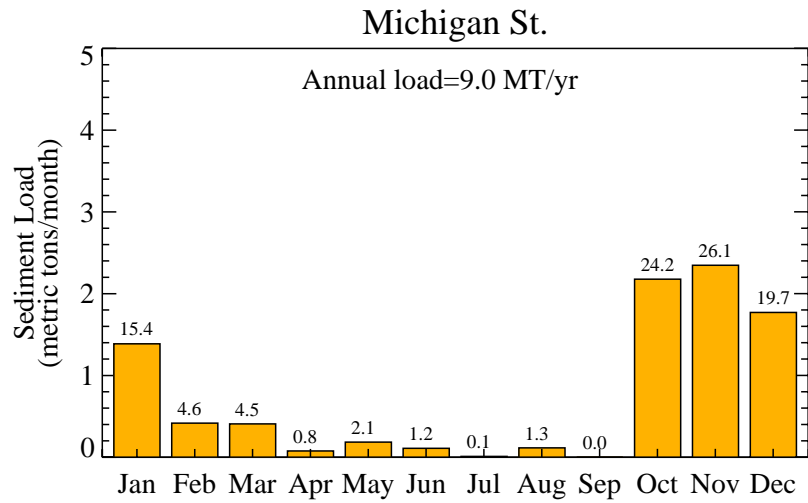


Figure B-13. Estimated monthly sediment load from LDW CSOs: Michigan St., Michigan West, Norfolk, and Terminal 115.

Value at top of bar is percent of annual load.

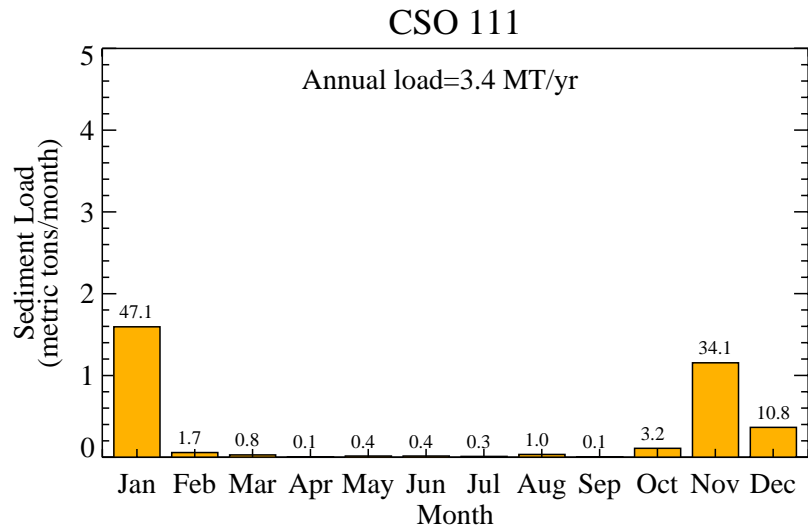


Figure B-14. Estimated monthly sediment load from LDW CSOs: CSO 111.
Value at top of bar is percent of annual load.

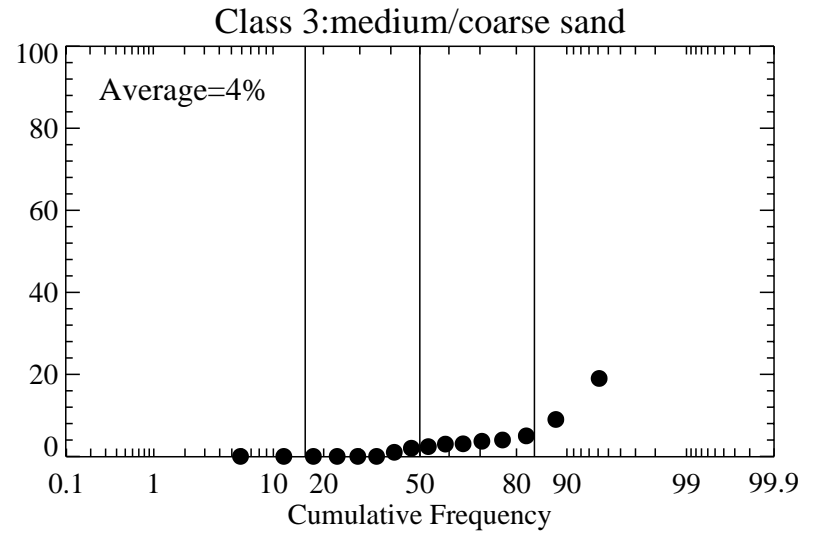
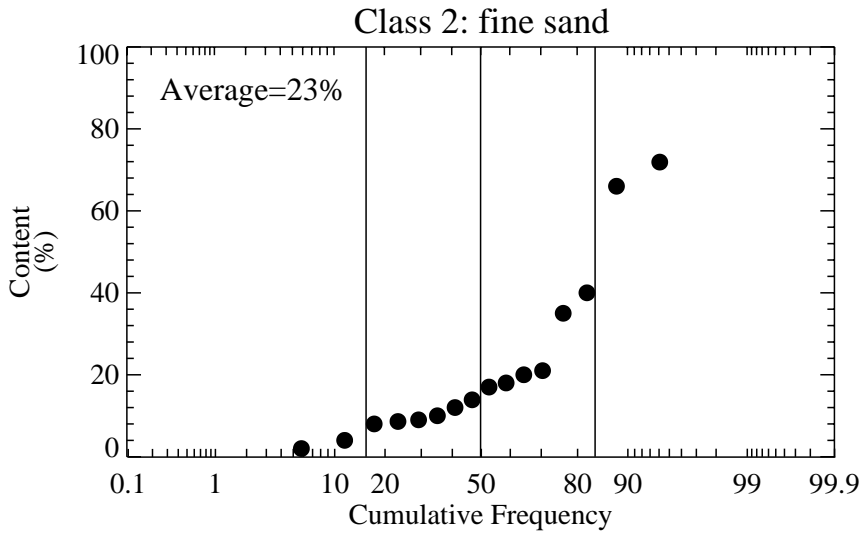
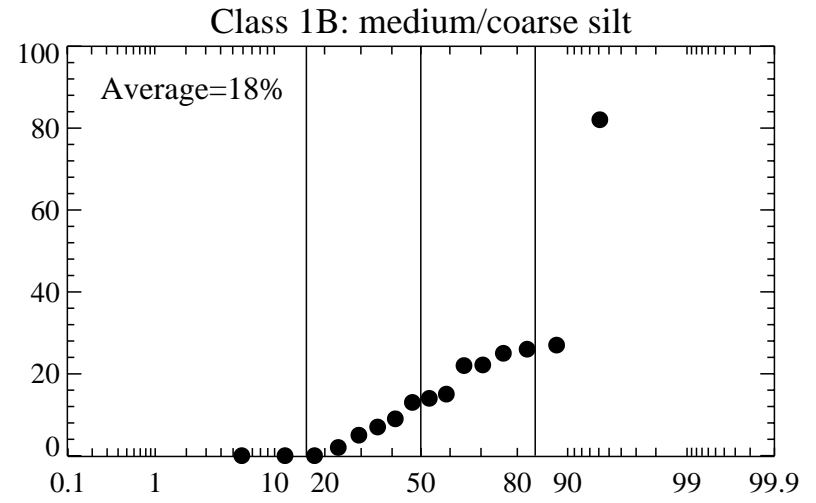
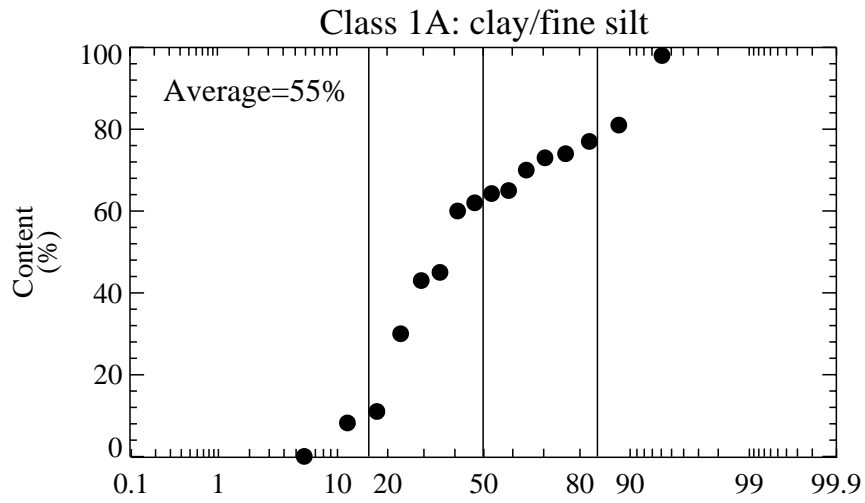
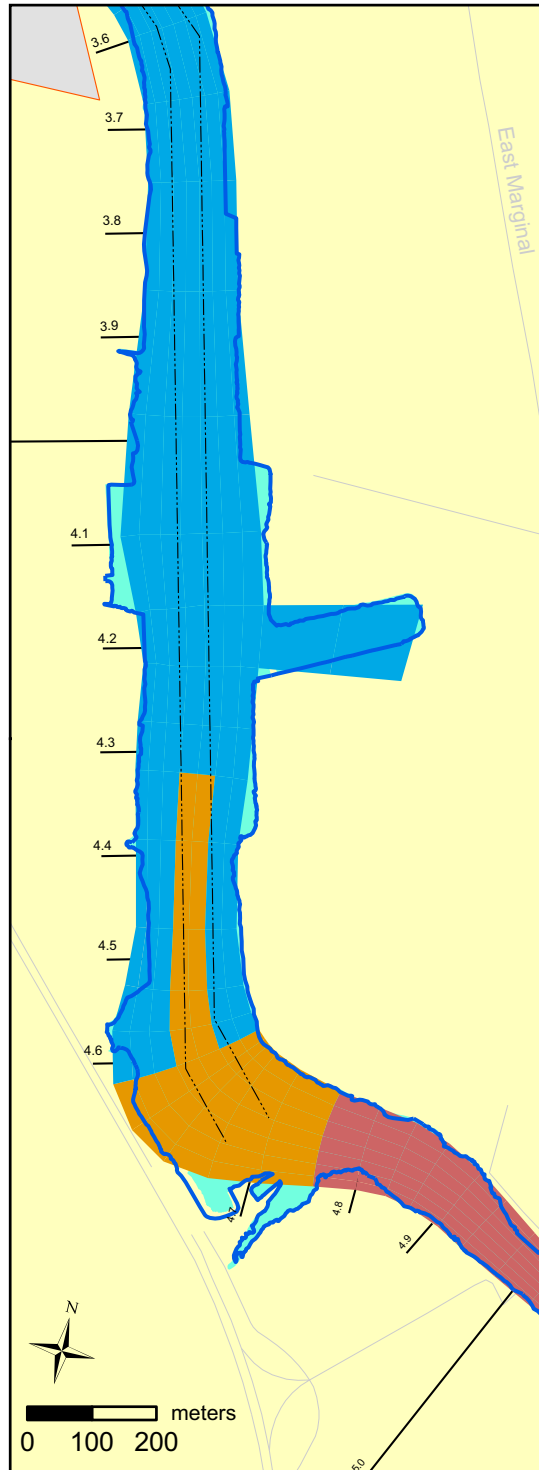
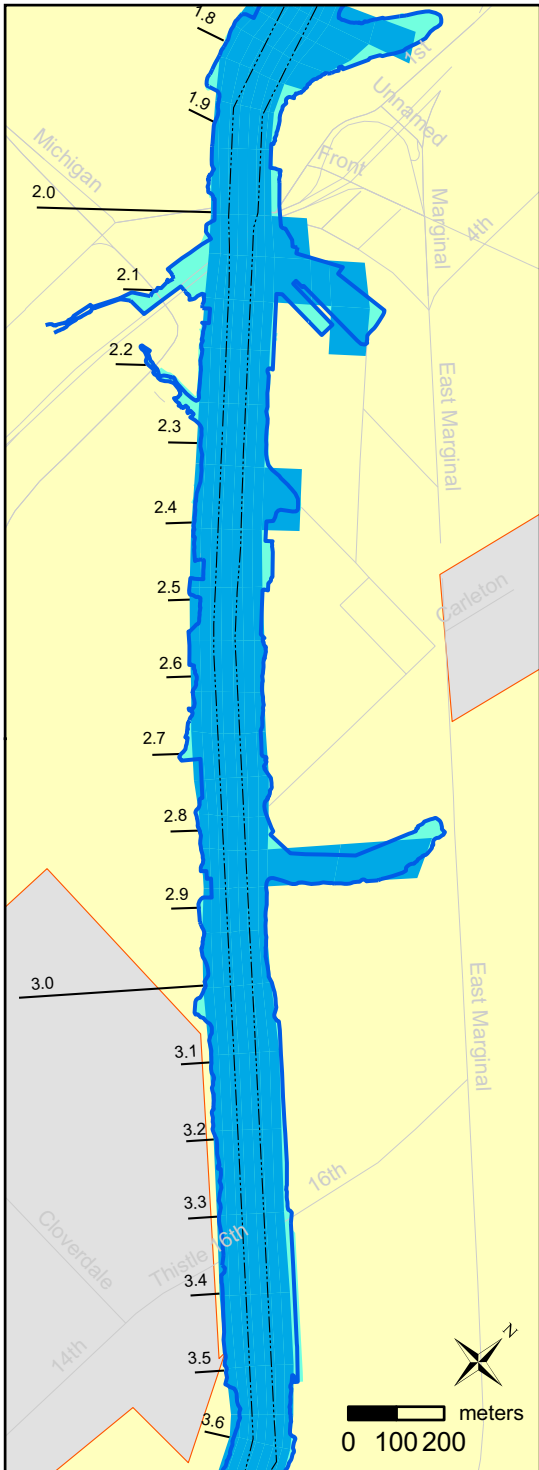
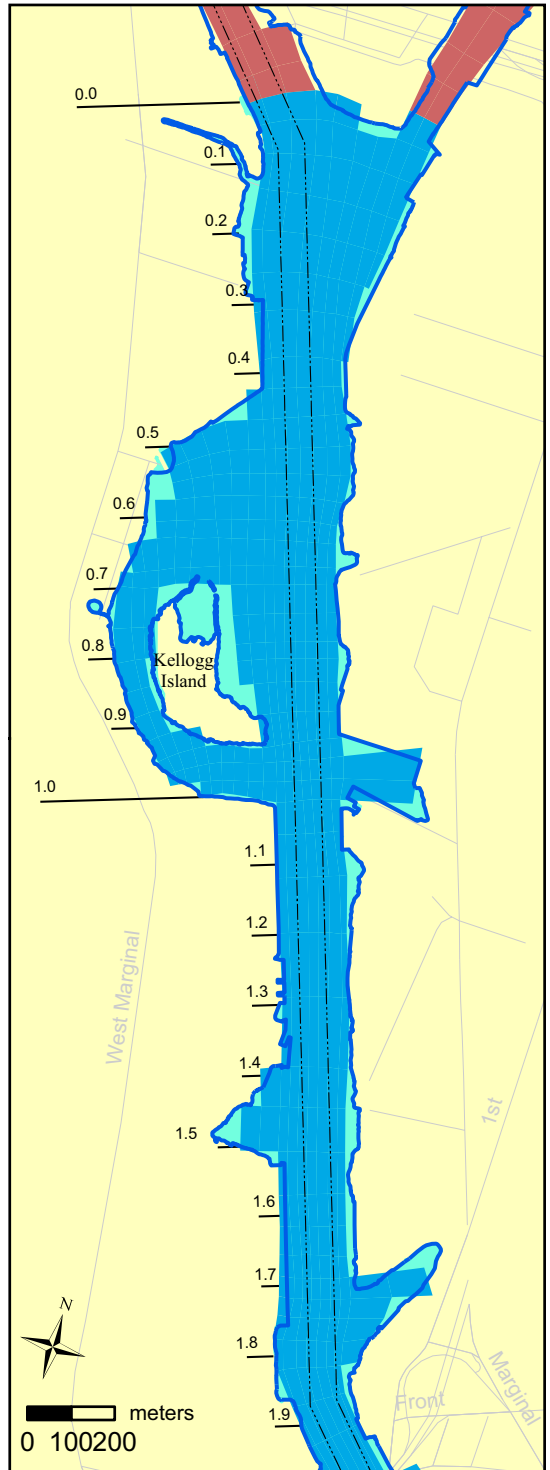
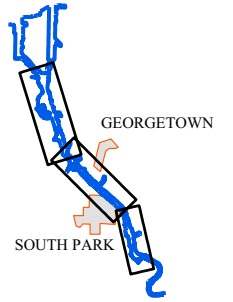


Figure B-15. Cumulative frequency distributions of sediment composition in LDW stormwater samples.



LOCATOR MAP



LEGEND

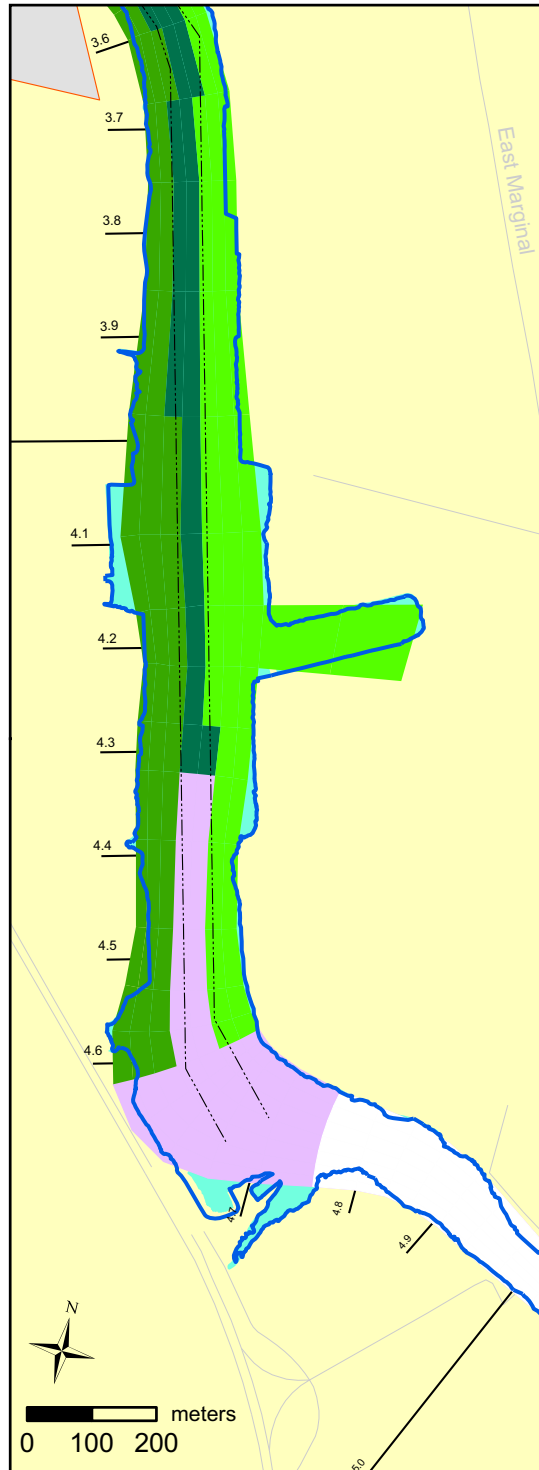
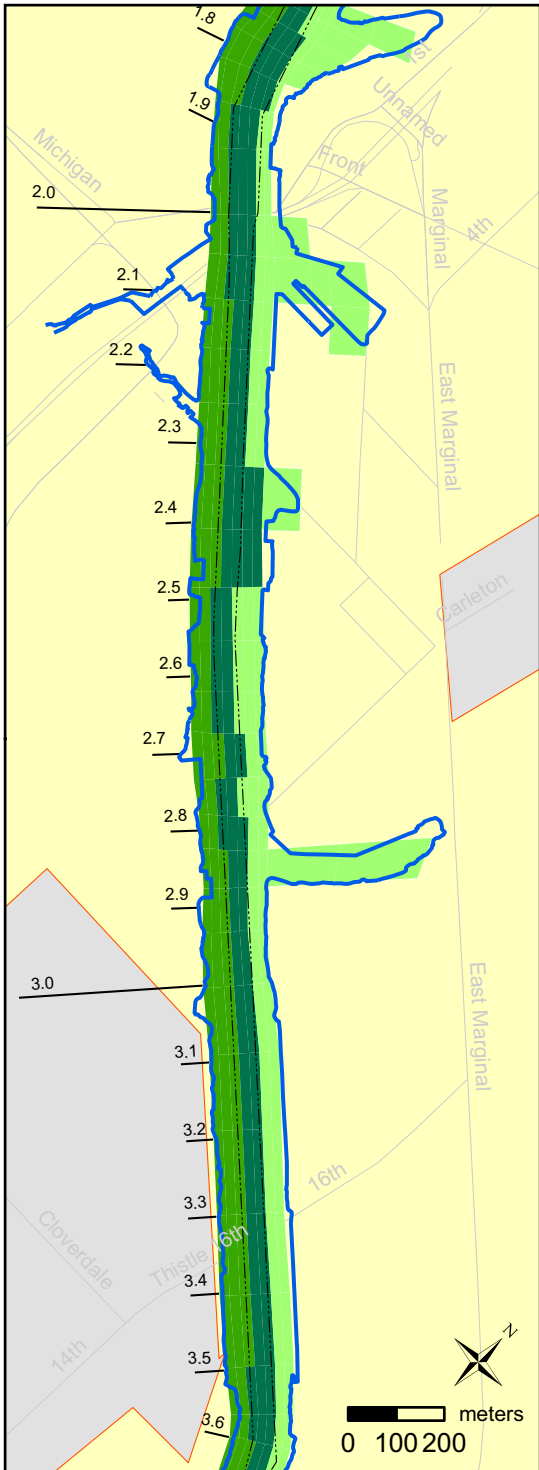
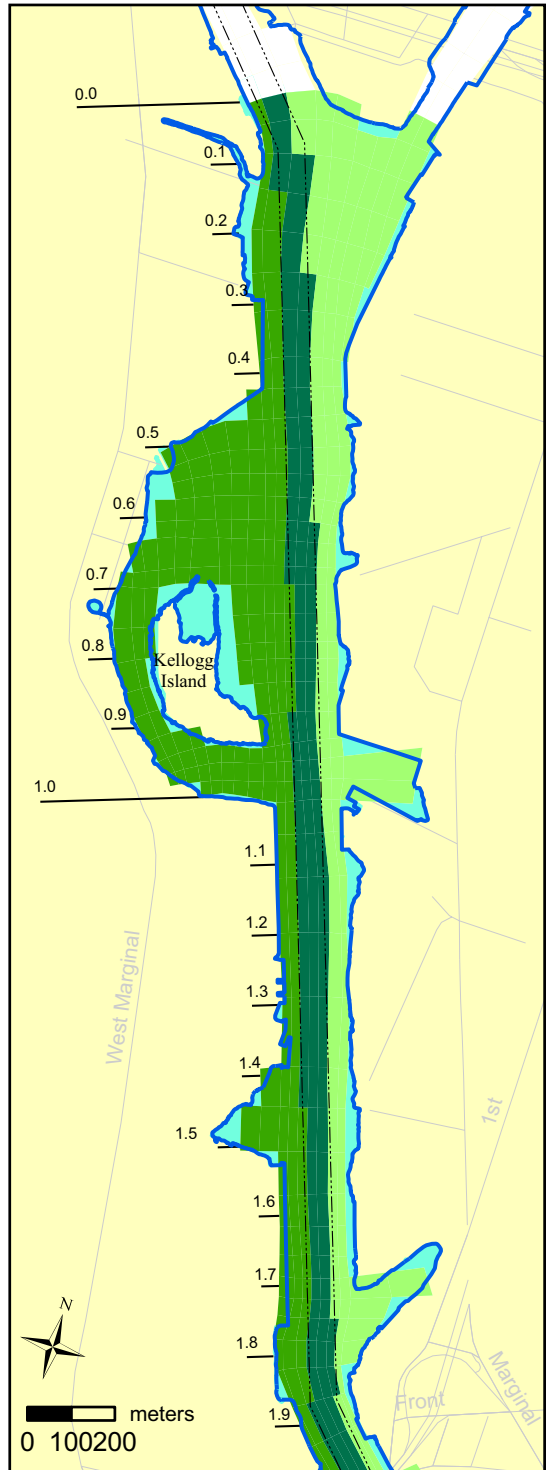
- Sediment bed type
- Hard bottom
 - Cohesive bed
 - Non-cohesive bed
 - Navigation channel
 - Shore line
 - River mile
 - Roads
 - Neighborhoods
 - Outside model domain

LOWER DUWAMISH WATERWAY STUDY AREA SEATTLE, WA

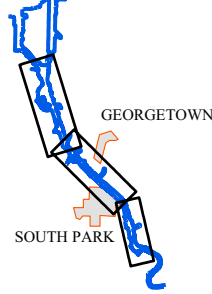
Figure B-16. Spatial distribution of sediment bed type.

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LOCATOR MAP



LEGEND

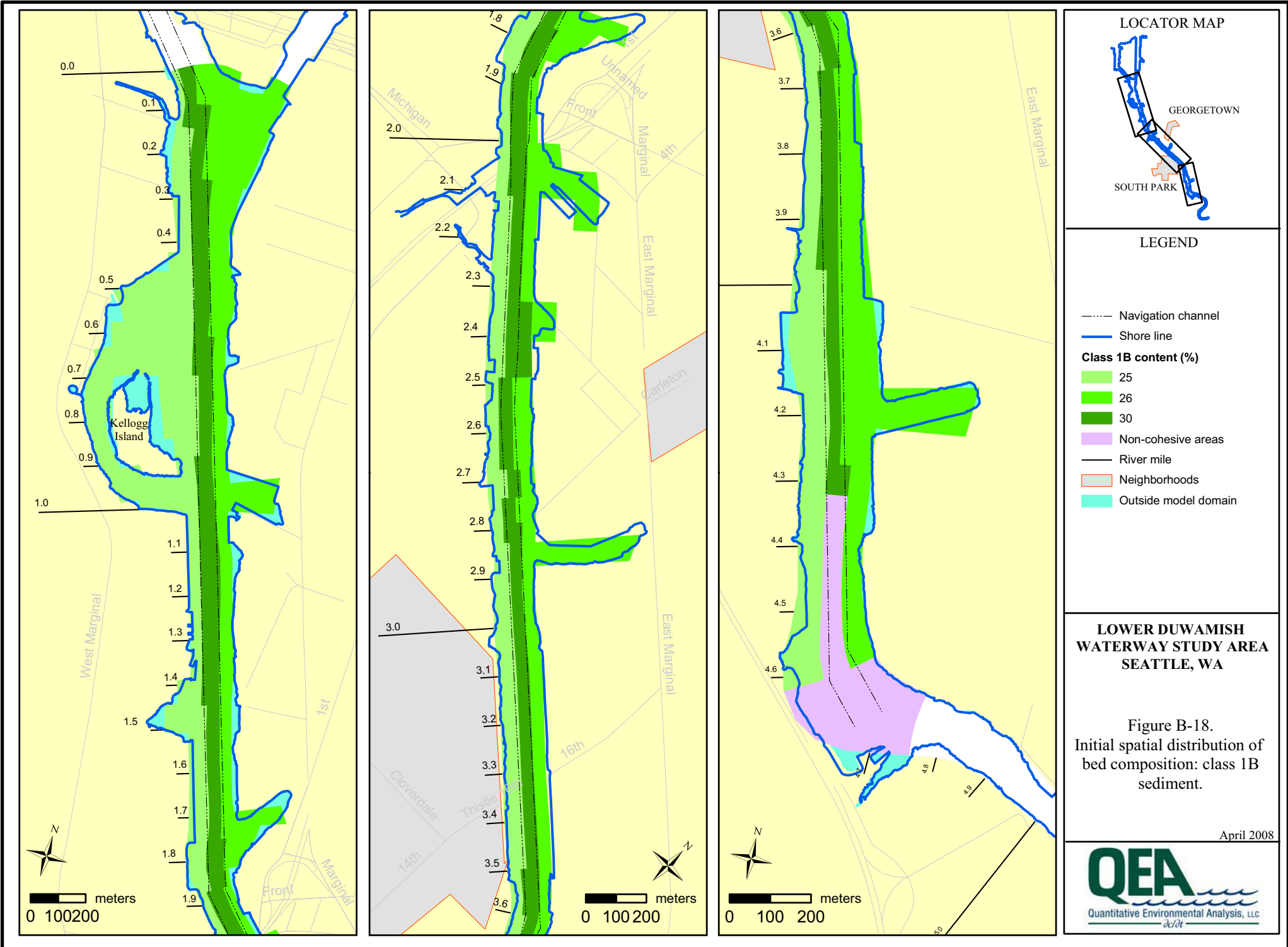
- Navigation channel
- Shore line
- Class 1A content (%)**
- 28
- 31
- 36
- Non-cohesive areas
- River mile
- Neighborhoods
- Outside model domain

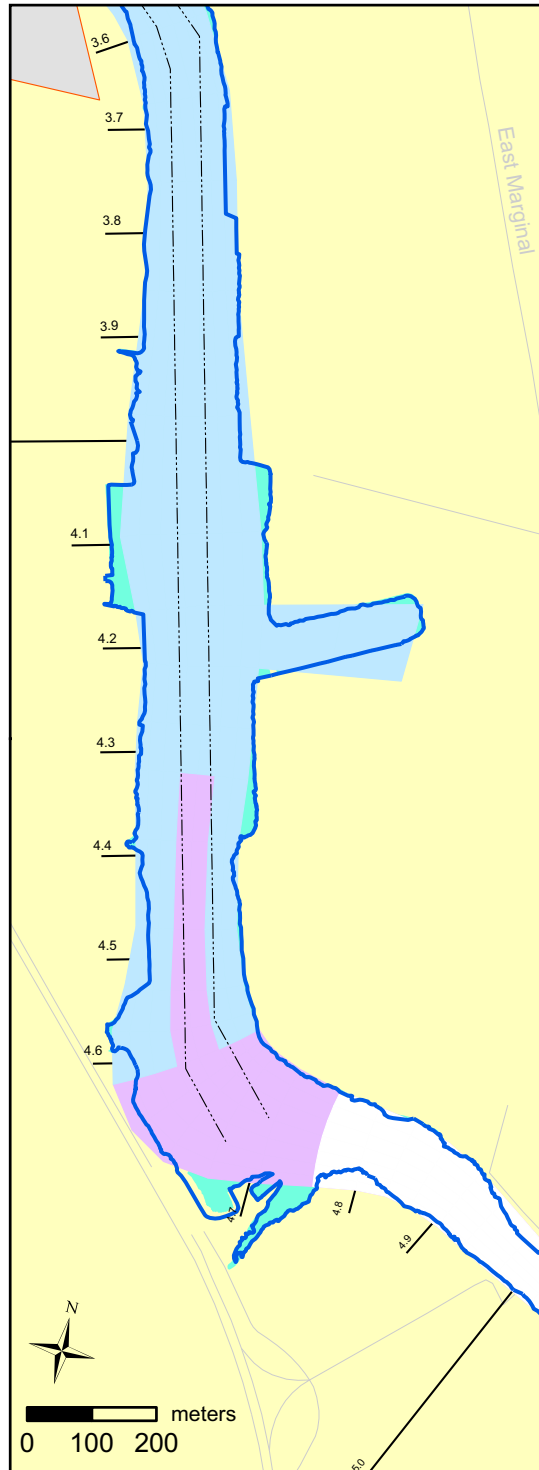
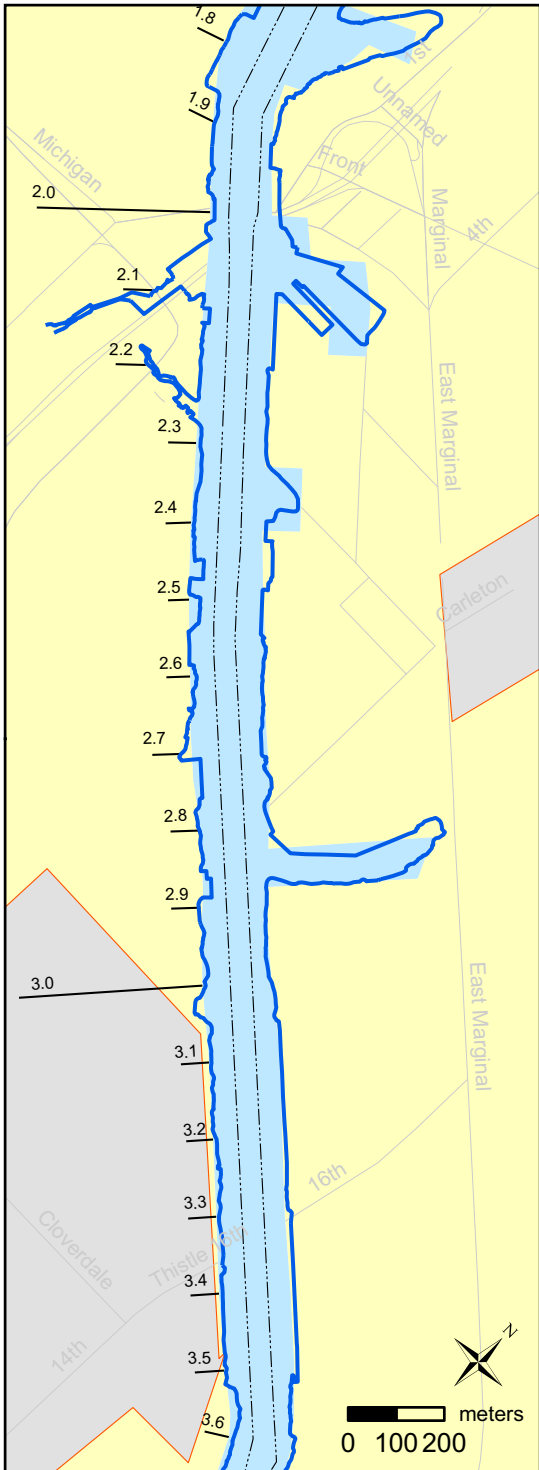
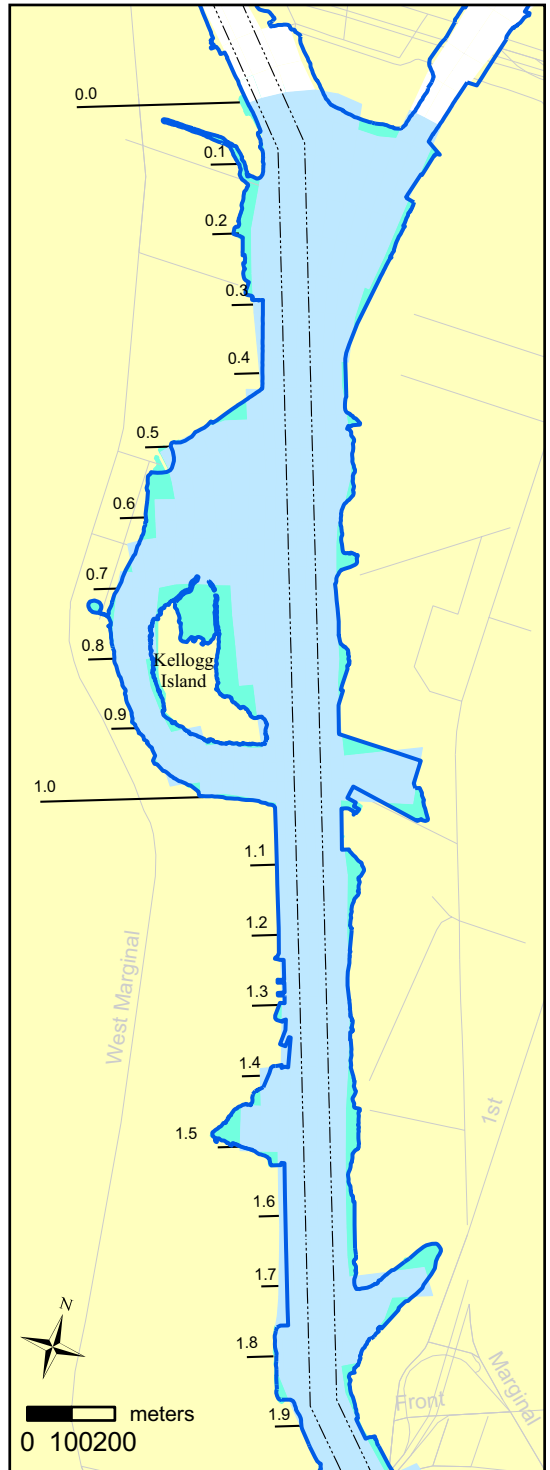
LOWER DUWAMISH WATERWAY STUDY AREA SEATTLE, WA

Figure B-17.
Initial spatial distribution of bed composition: class 1A sediment.

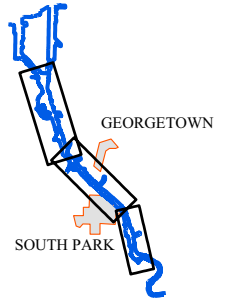
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LOCATOR MAP



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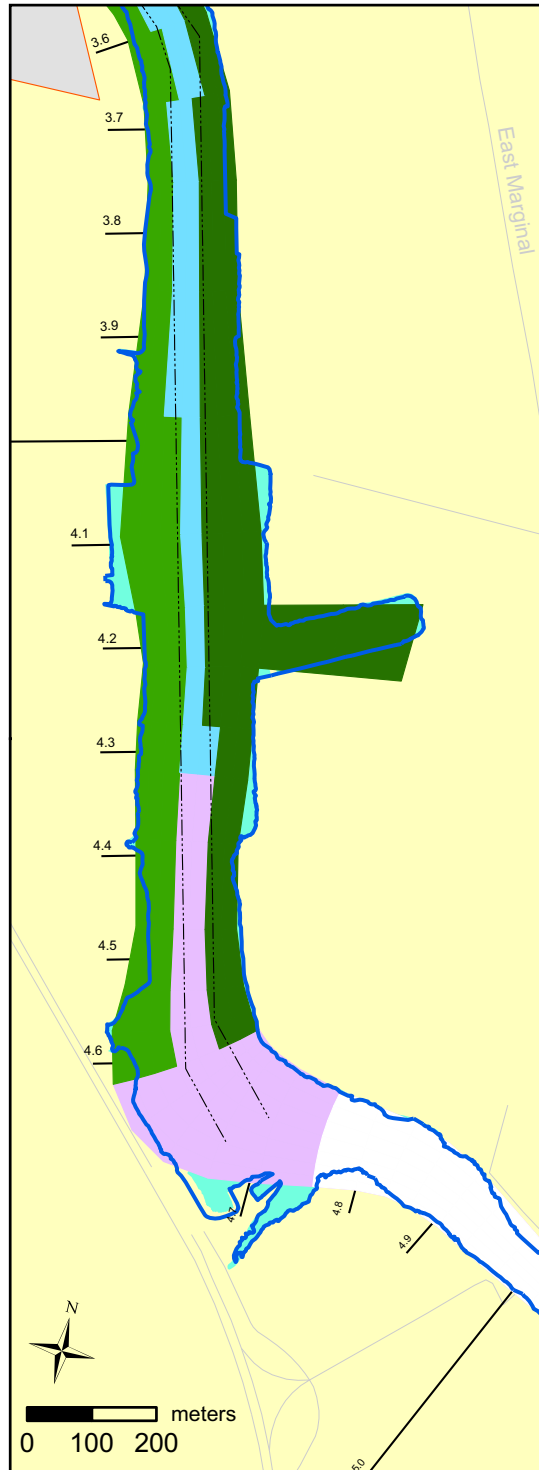
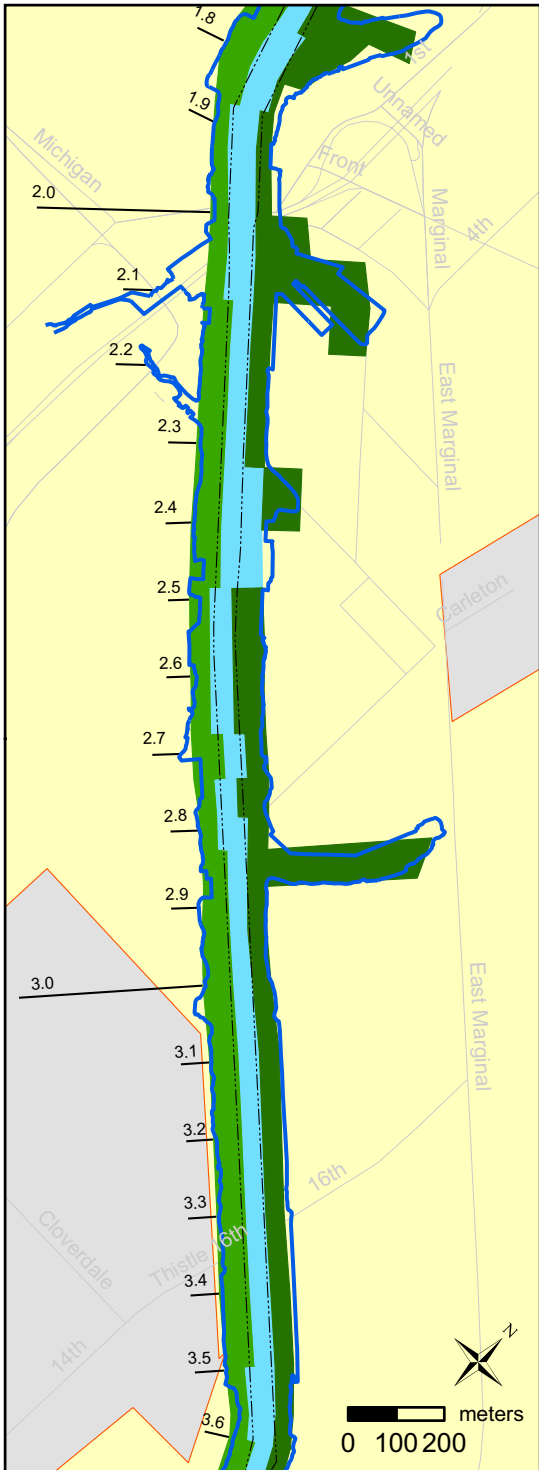
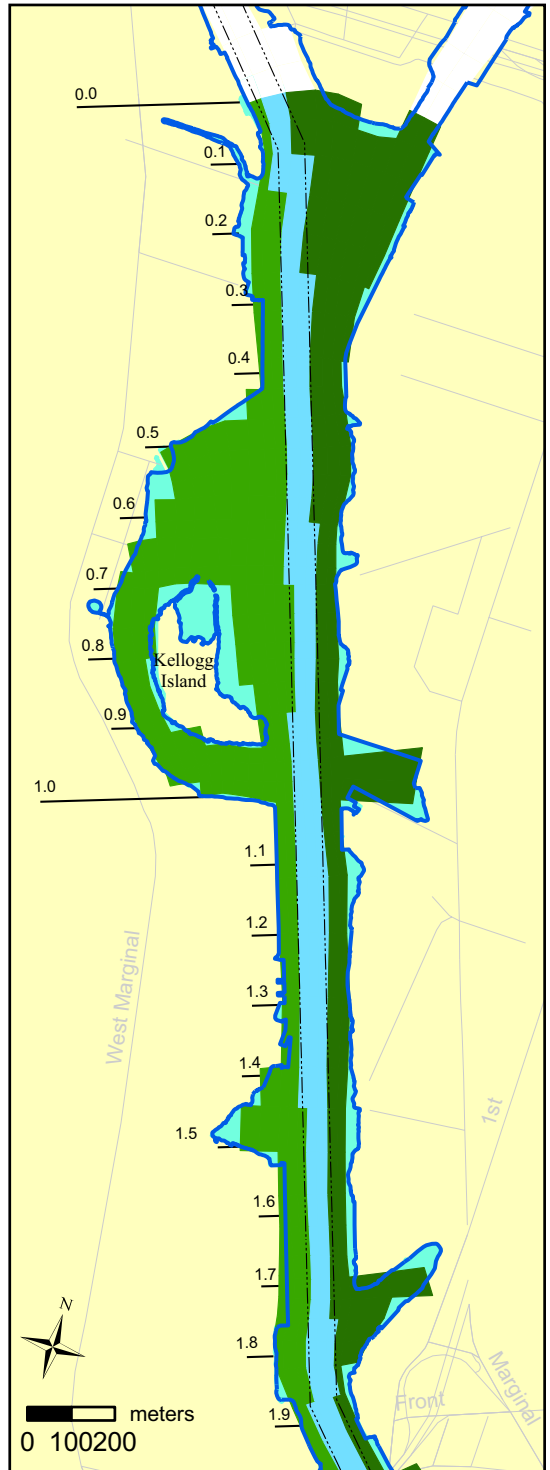
- Navigation channel
- Shore line
- Class 2 content (%)**
- 14
- Non-cohesive areas
- River mile
- Neighborhoods
- Outside model domain

LOWER DUWAMISH WATERWAY STUDY AREA SEATTLE, WA

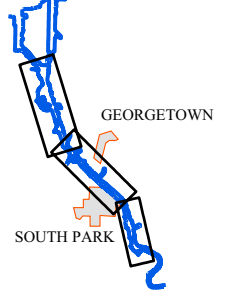
Figure B-19.
Initial spatial distribution of bed composition: class 2 sediment.

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LOCATOR MAP



LEGEND

- Navigation channel
- Shore line
- Class 3 content (%)**
- 20
- 30
- 32
- Non-cohesive areas
- River mile
- Neighborhoods
- Outside model domain

LOWER DUWAMISH WATERWAY STUDY AREA SEATTLE, WA

Figure B-20. Initial spatial distribution of bed composition: class 3 sediment.

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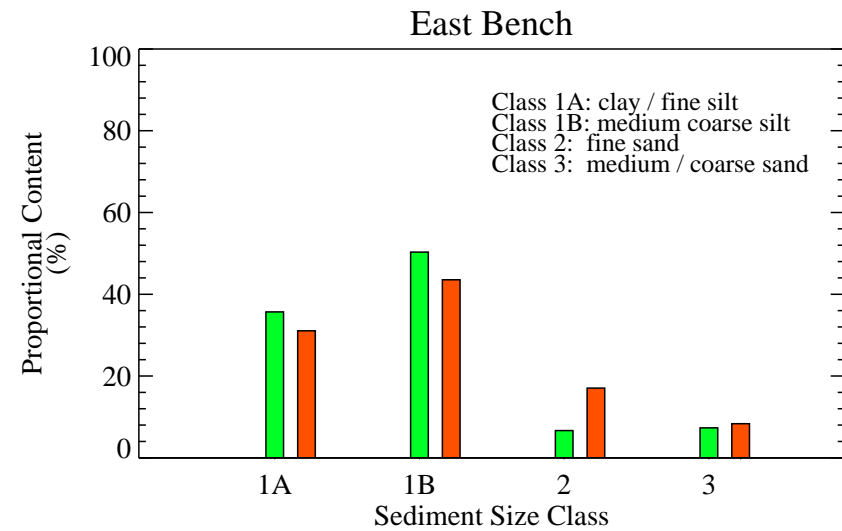
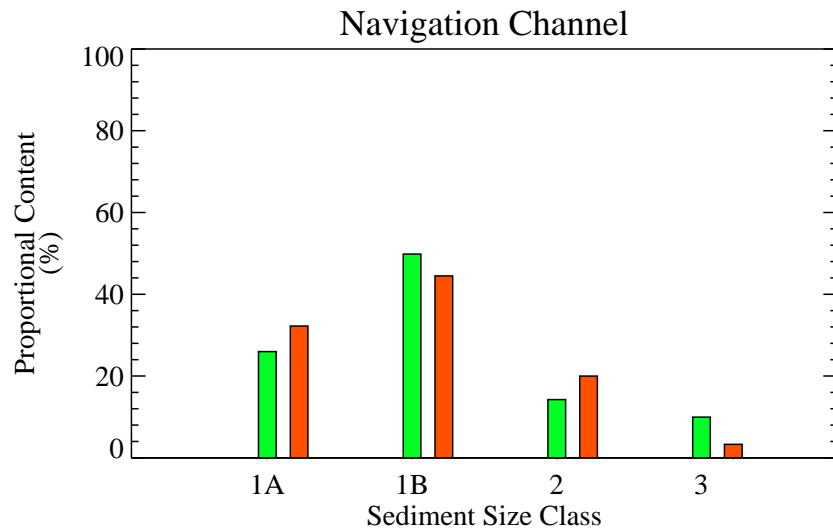
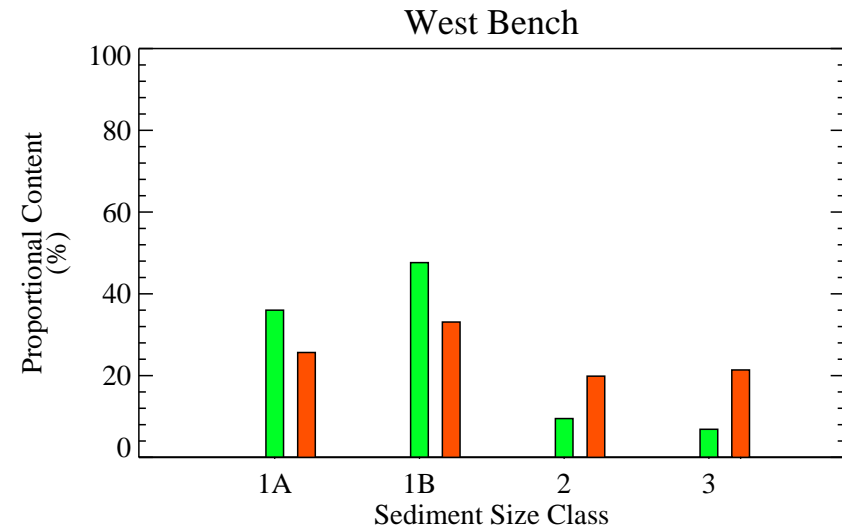
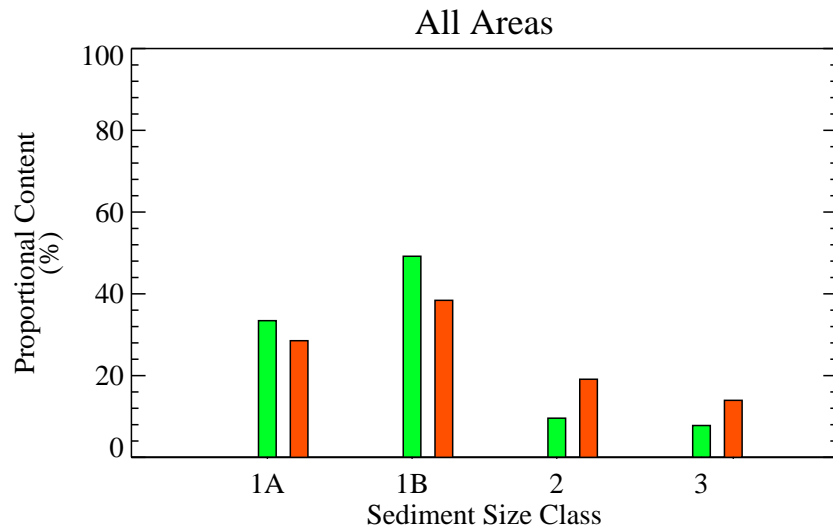
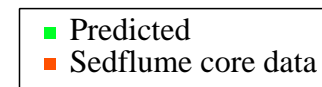
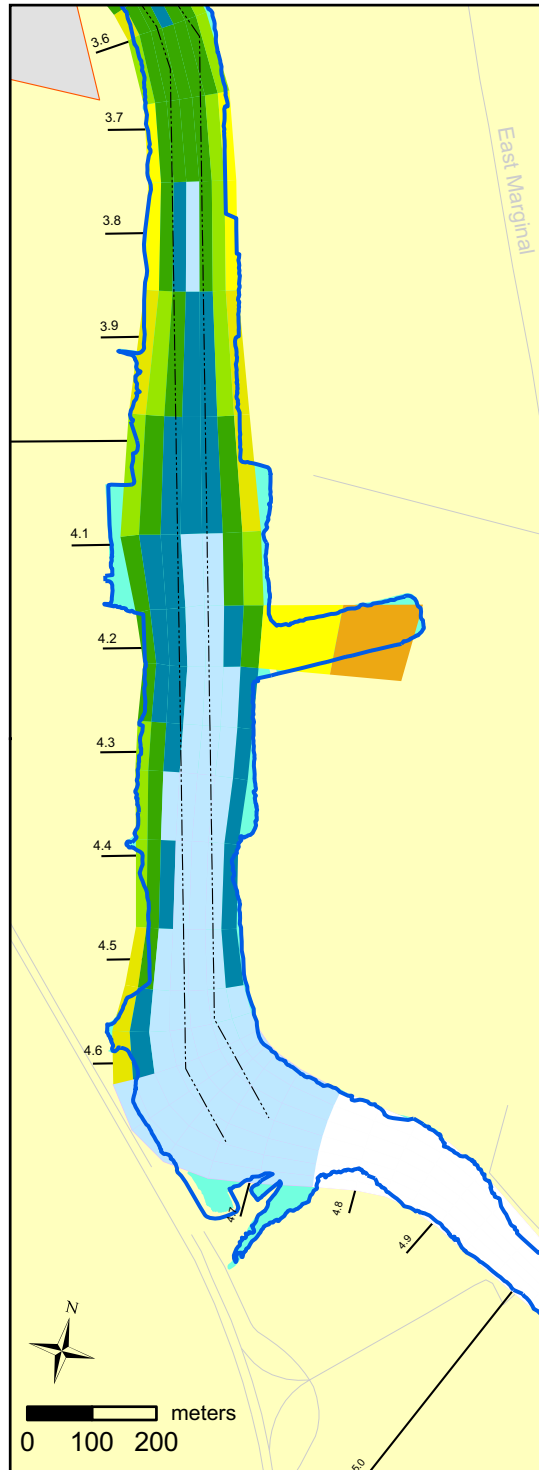
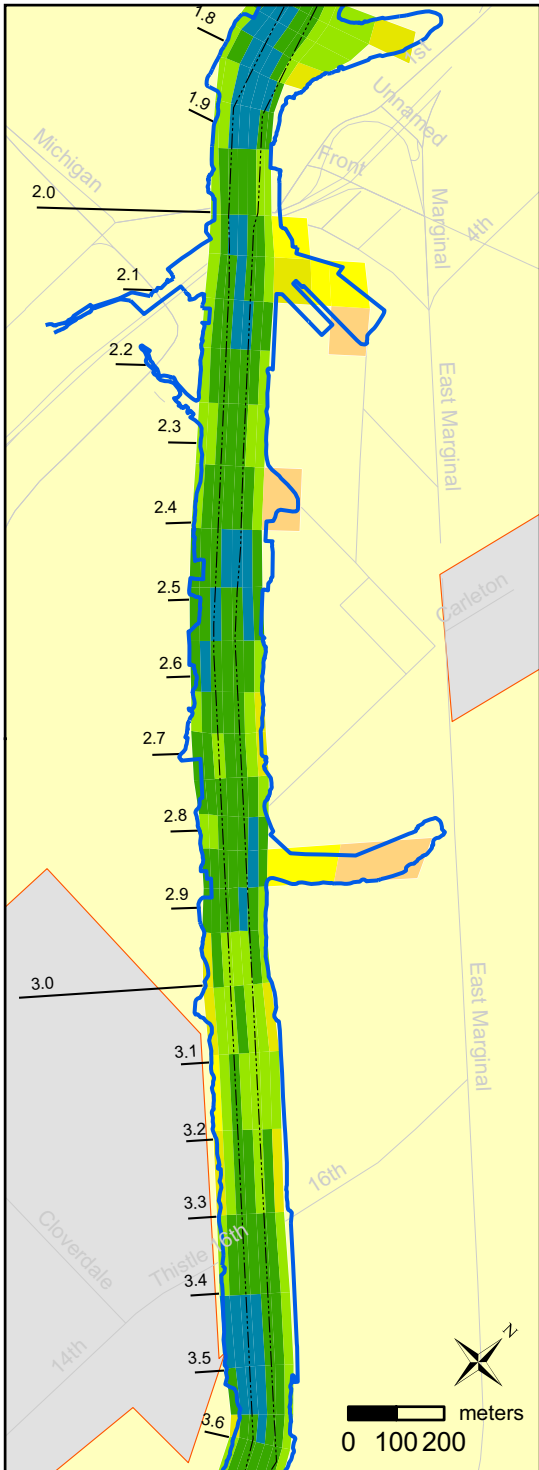
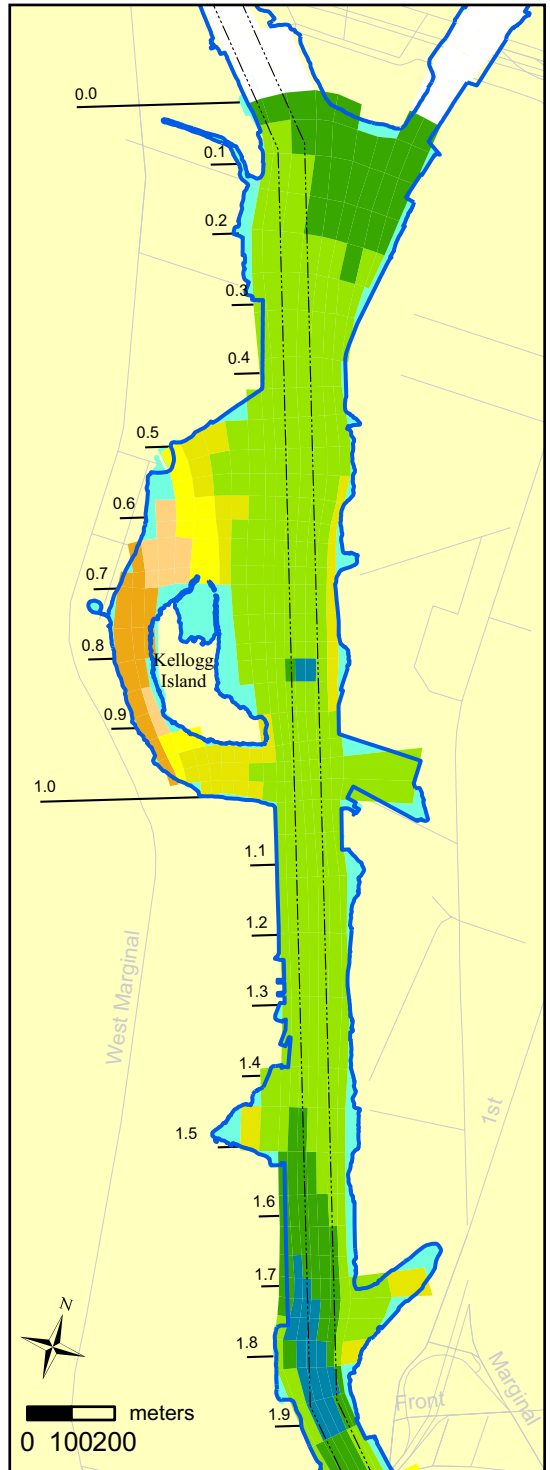
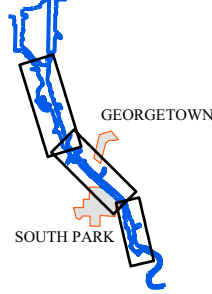


Figure B-21. Comparison of predicted and observed composition of surface-layer cohesive sediment in the LDW (RM 0-4.3). Predicted composition represents "evolved" bed used as initial conditions for simulations in Section 2, 3, and 4.





LOCATOR MAP



LEGEND

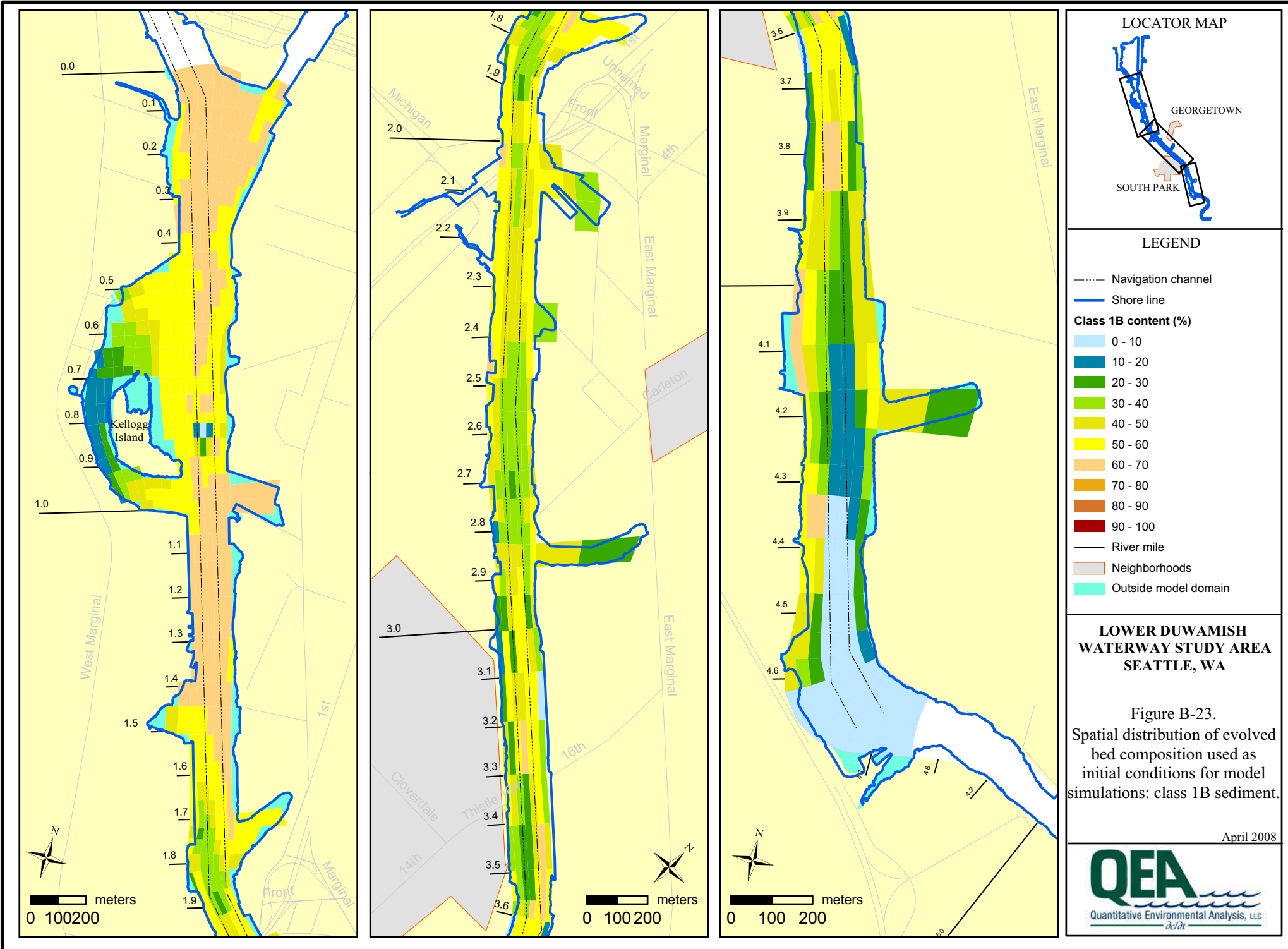
- Navigation channel
- Shore line
- Class 1A content (%)**
 - 0 - 10
 - 10 - 20
 - 20 - 30
 - 30 - 40
 - 40 - 50
 - 50 - 60
 - 60 - 70
 - 70 - 80
 - 80 - 90
 - 90 - 100
- River mile
- Neighborhoods
- Outside model domain

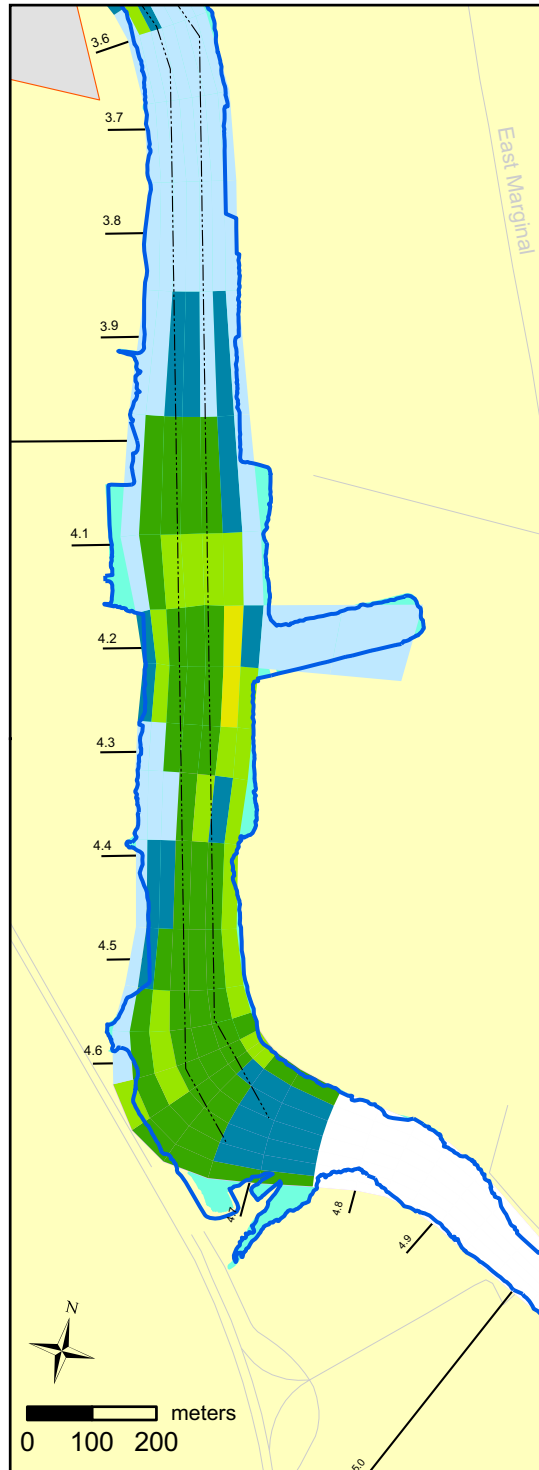
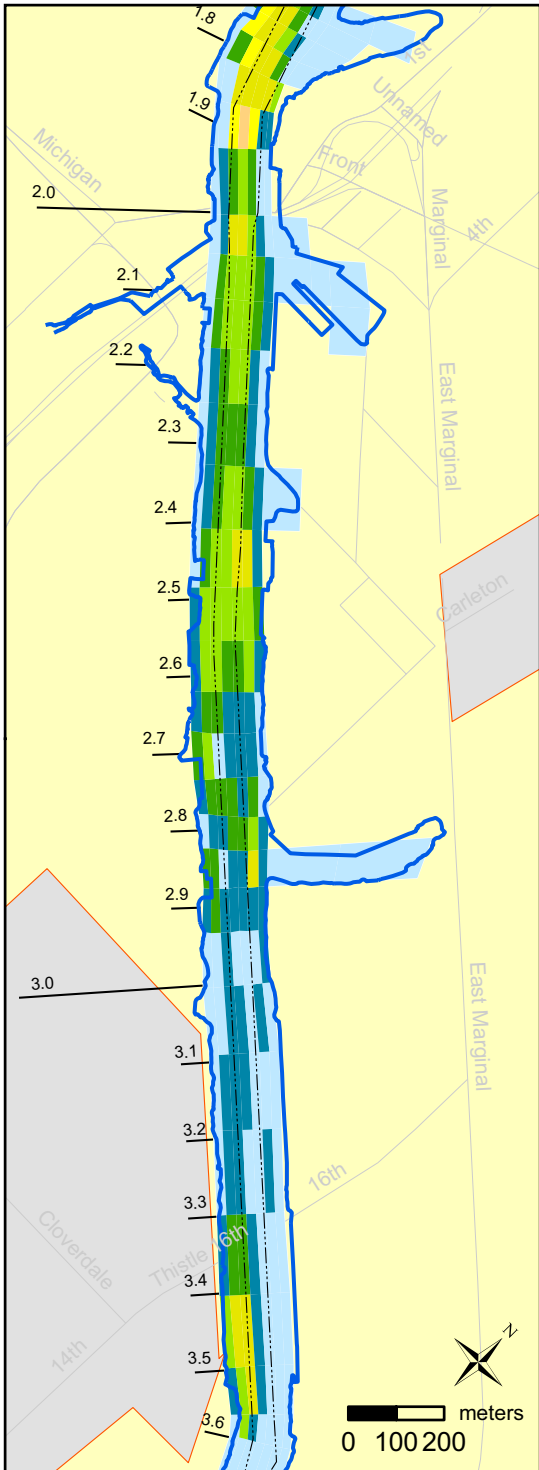
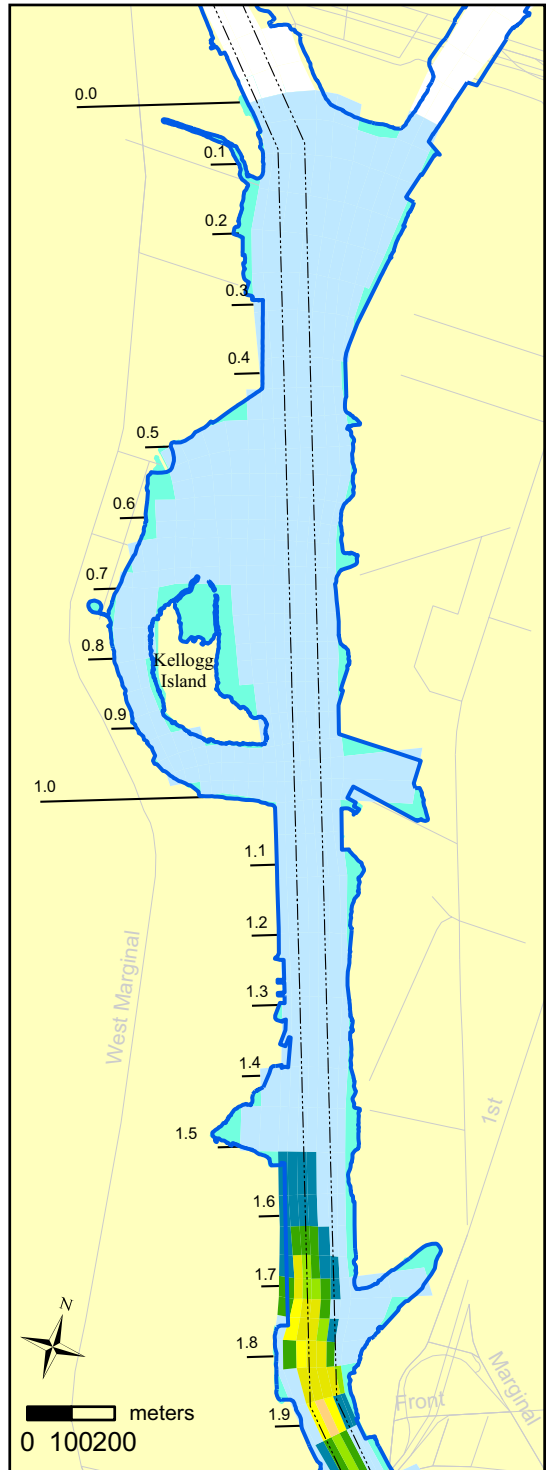
LOWER DUWAMISH WATERWAY STUDY AREA SEATTLE, WA

Figure B-22. Spatial distribution of evolved bed composition used as initial conditions for model simulations: class 1A sediment.

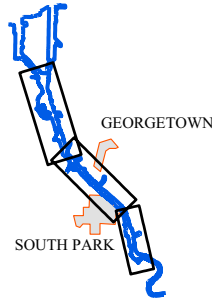
April 2008







LOCATOR MAP



LEGEND

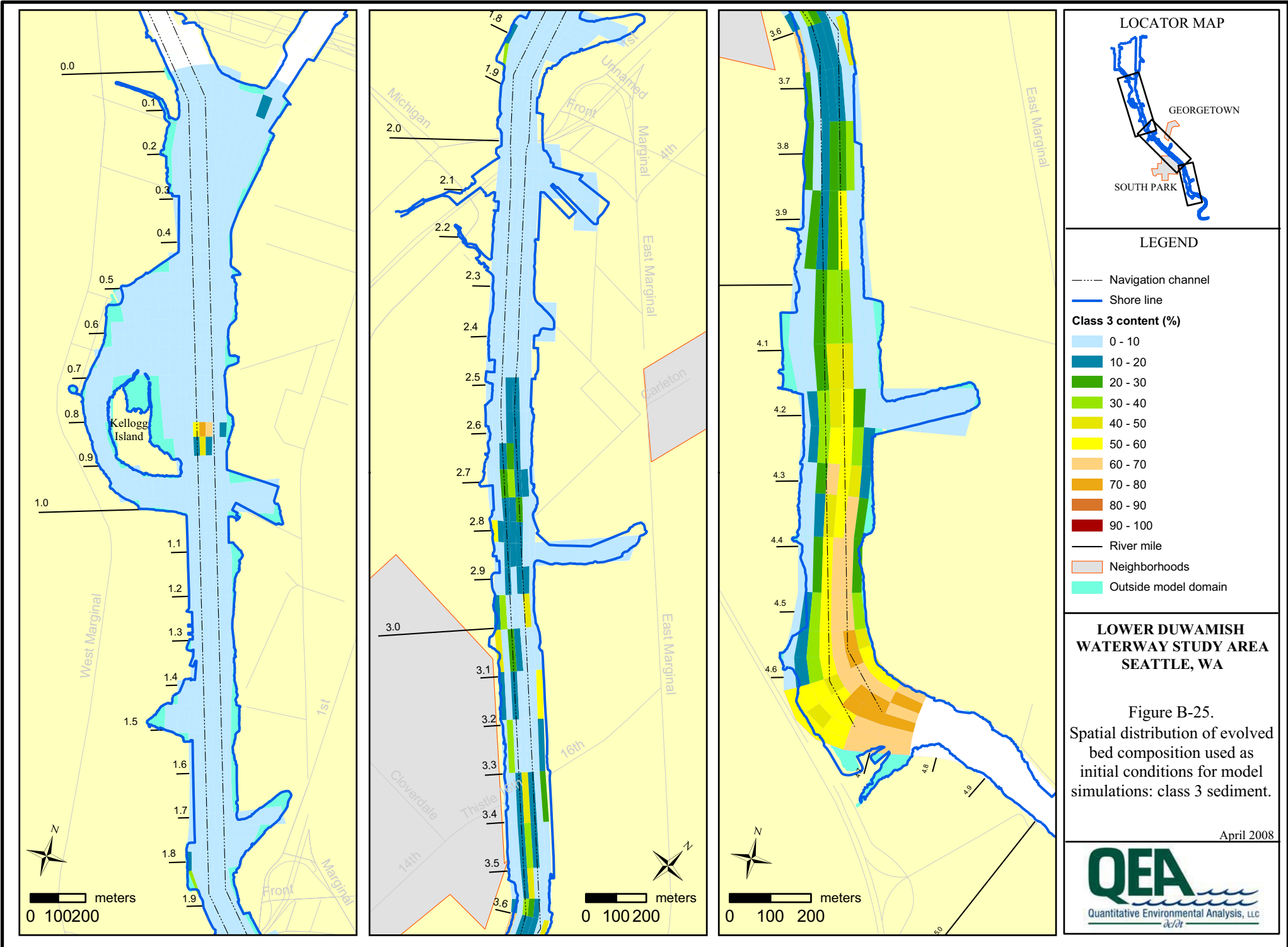
- Navigation channel
- Shore line
- Class 2 content (%)**
- 0 - 10
- 10 - 20
- 20 - 30
- 30 - 40
- 40 - 50
- 50 - 60
- 60 - 70
- 70 - 80
- 80 - 90
- 90 - 100
- River mile
- Neighborhoods
- Outside model domain

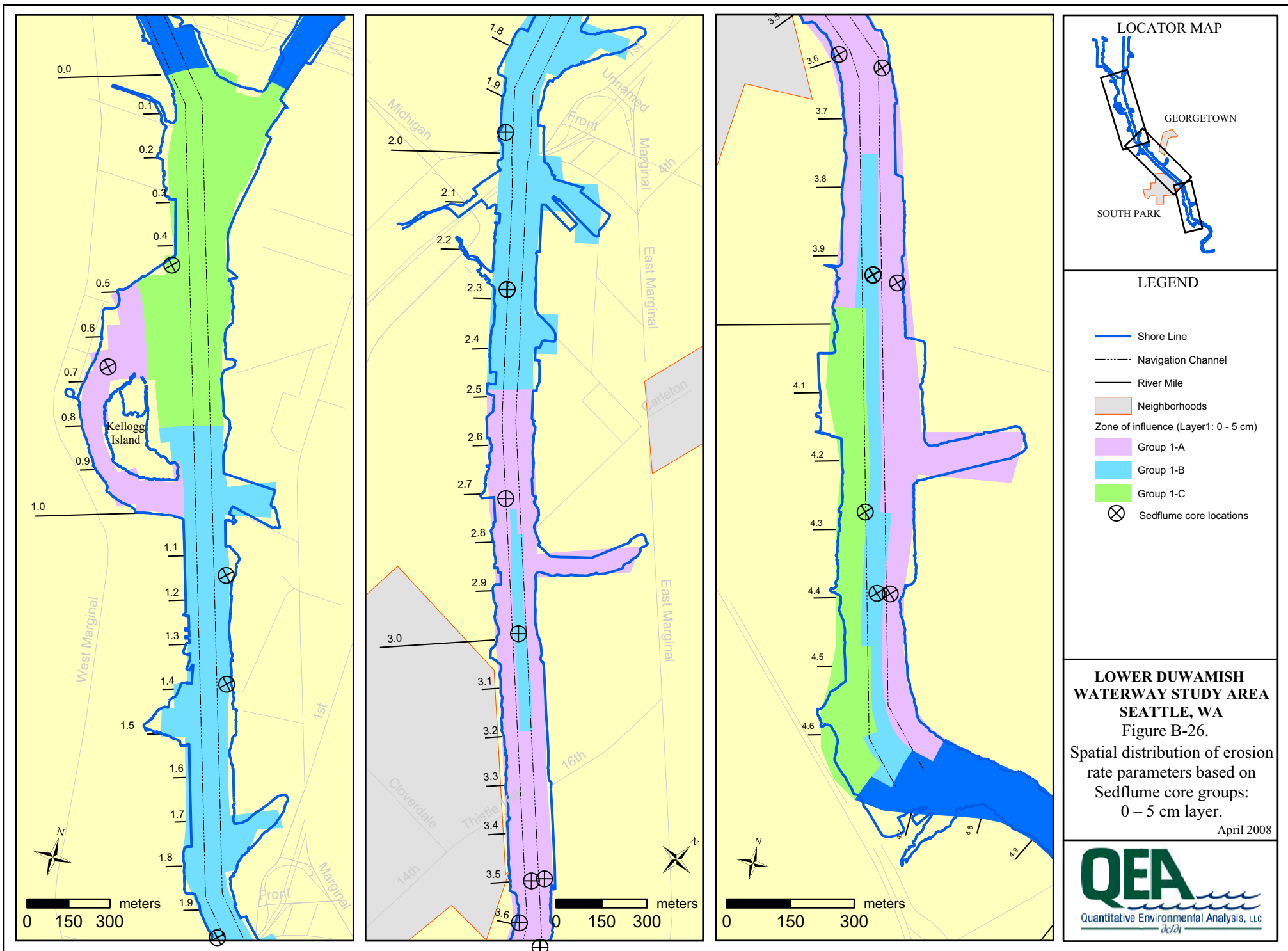
LOWER DUWAMISH WATERWAY STUDY AREA SEATTLE, WA

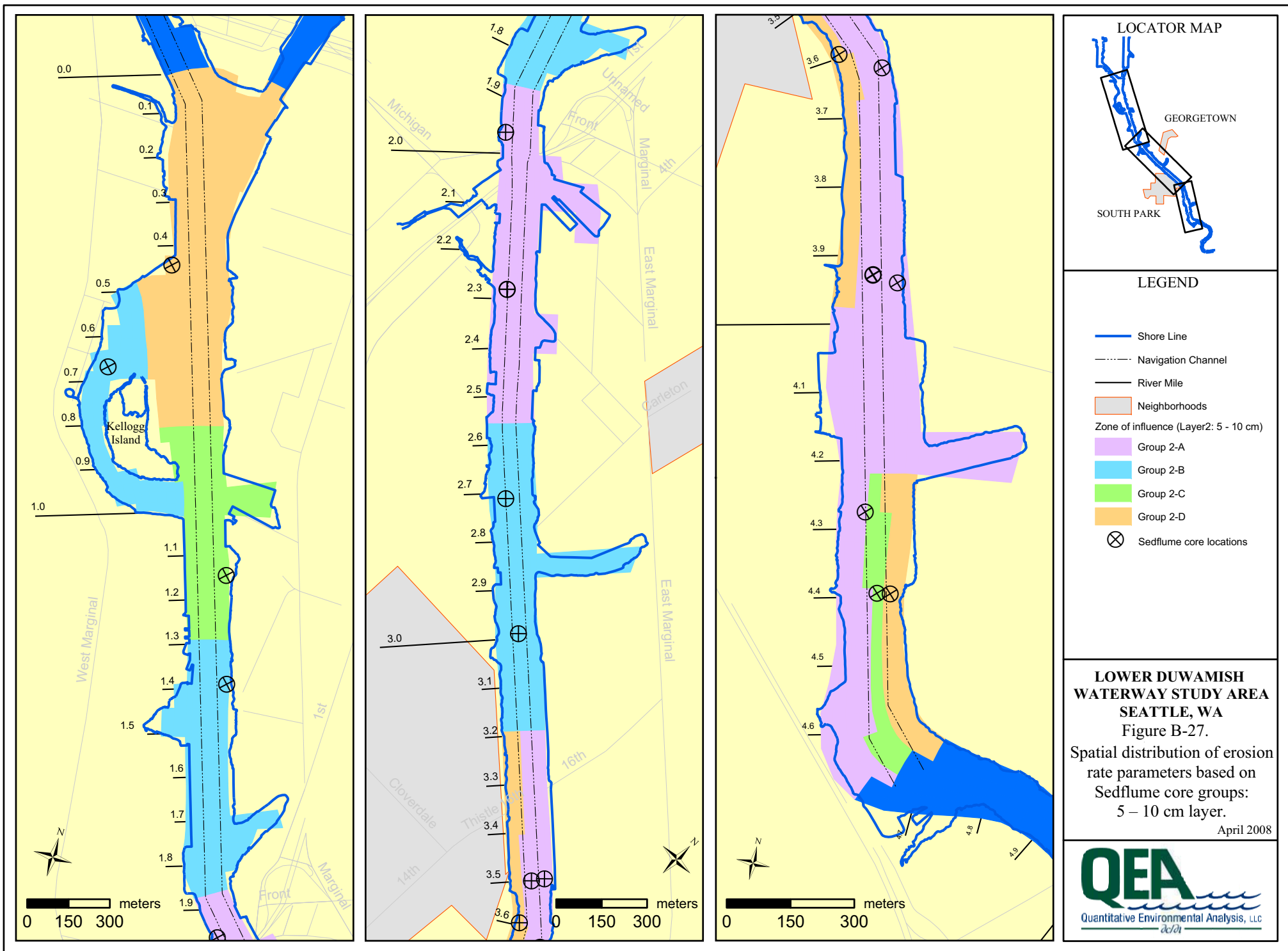
Figure B-24. Spatial distribution of evolved bed composition used as initial conditions for model simulations: class 2 sediment.

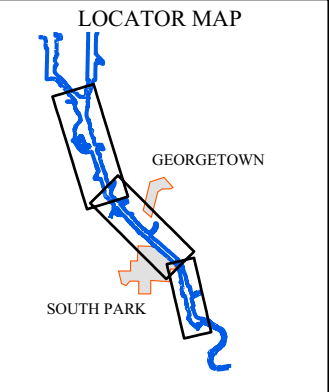
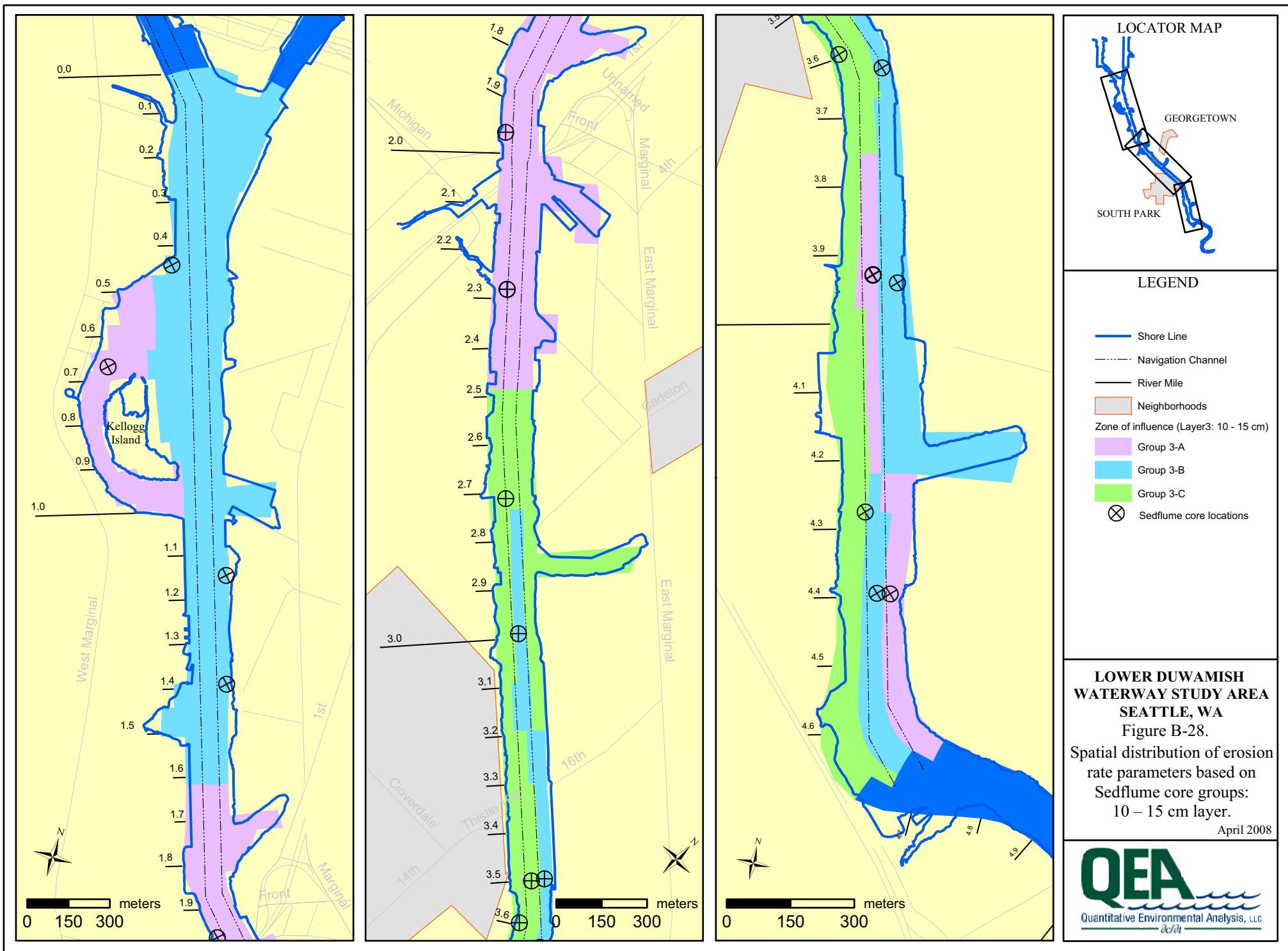
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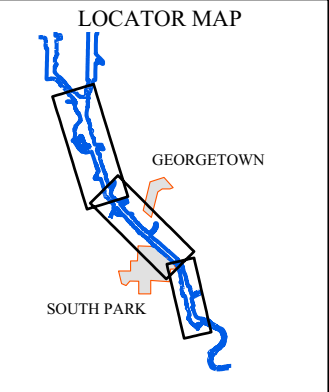
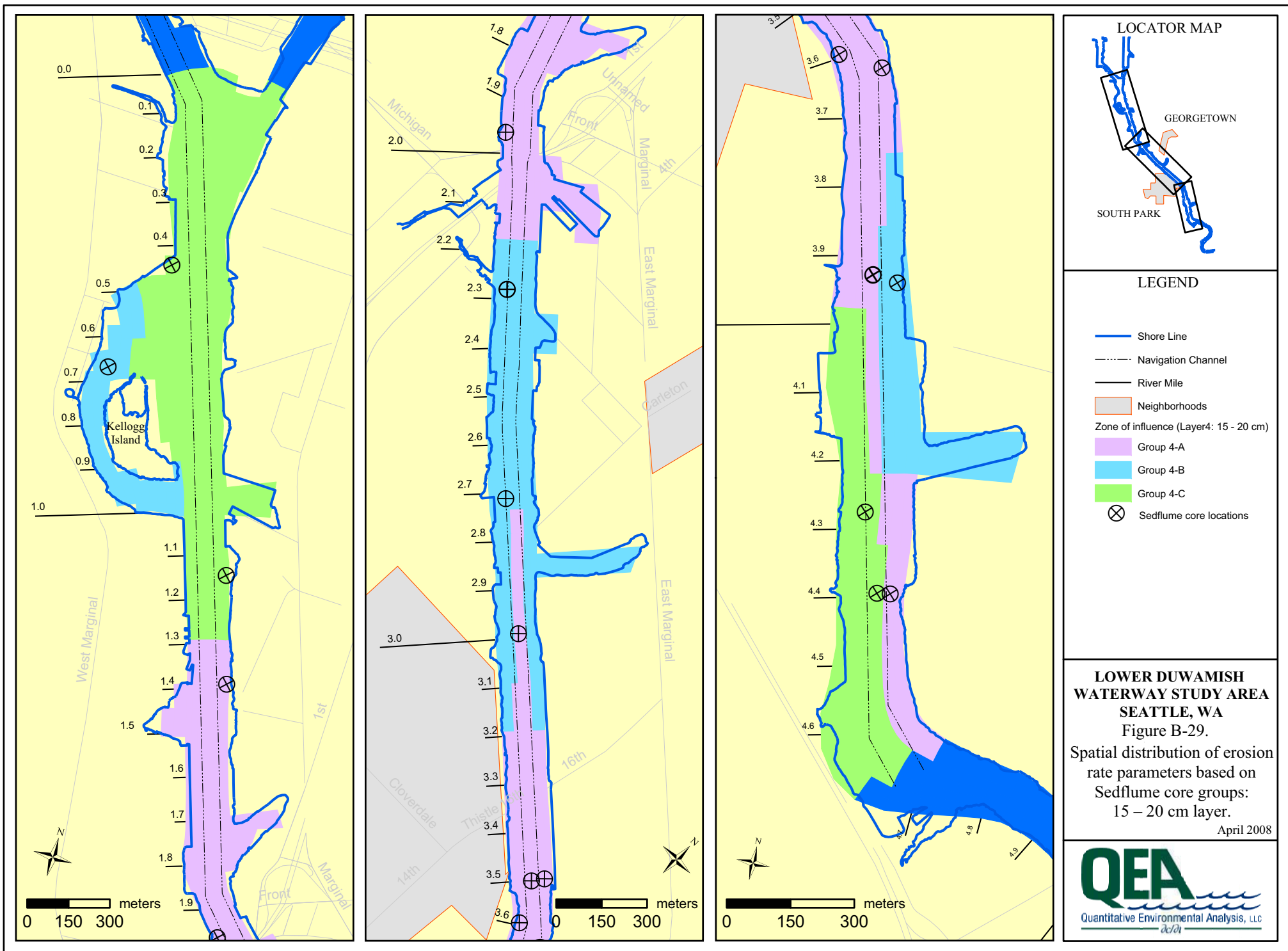


LEGEND

- Shore Line
- Navigation Channel
- River Mile
- Neighborhoods
- Zone of influence (Layer3: 10 - 15 cm)
 - Group 3-A
 - Group 3-B
 - Group 3-C
- Sedflume core locations

LOWER DUWAMISH WATERWAY STUDY AREA SEATTLE, WA
 Figure B-28.
 Spatial distribution of erosion rate parameters based on Sedflume core groups: 10 – 15 cm layer.
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LEGEND

- Shore Line
- Navigation Channel
- River Mile
- Neighborhoods
- Zone of influence (Layer4: 15 - 20 cm)
 - Group 4-A
 - Group 4-B
 - Group 4-C
- Sedflume core locations

LOWER DUWAMISH WATERWAY STUDY AREA SEATTLE, WA
 Figure B-29.
 Spatial distribution of erosion rate parameters based on Sedflume core groups: 15 – 20 cm layer.
 April 2008



