

NOTES:
1. Areas designated as hot spots will be dredged one additional meter.

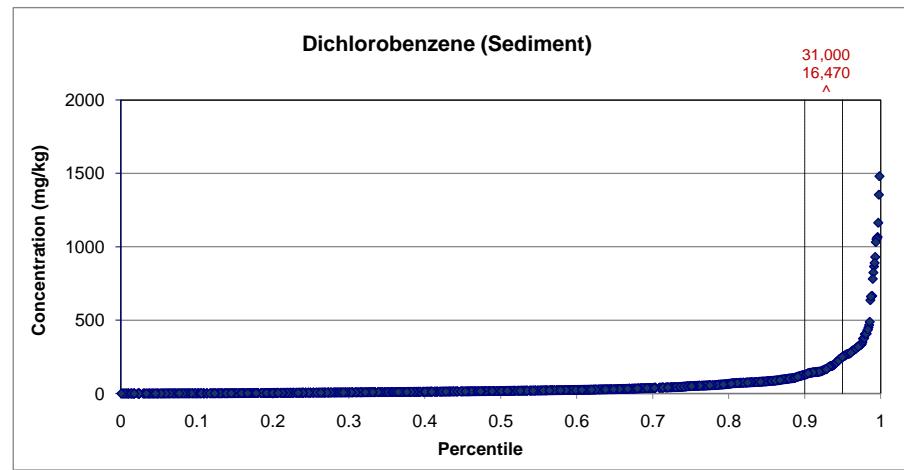
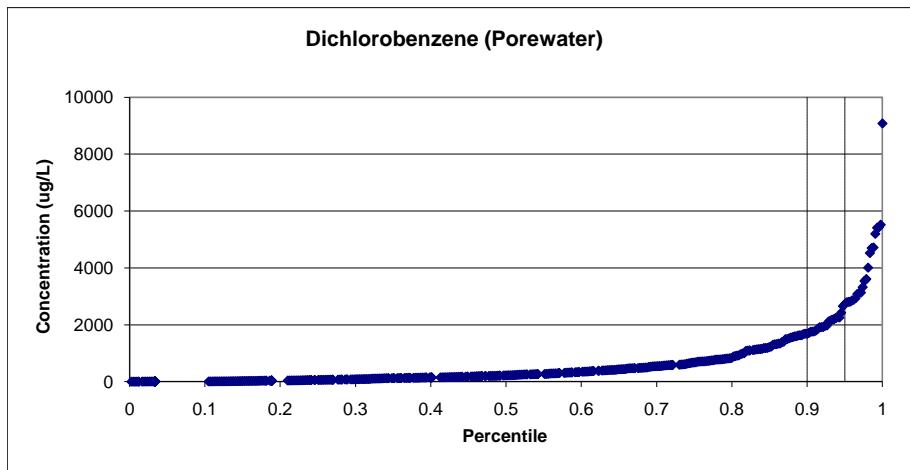
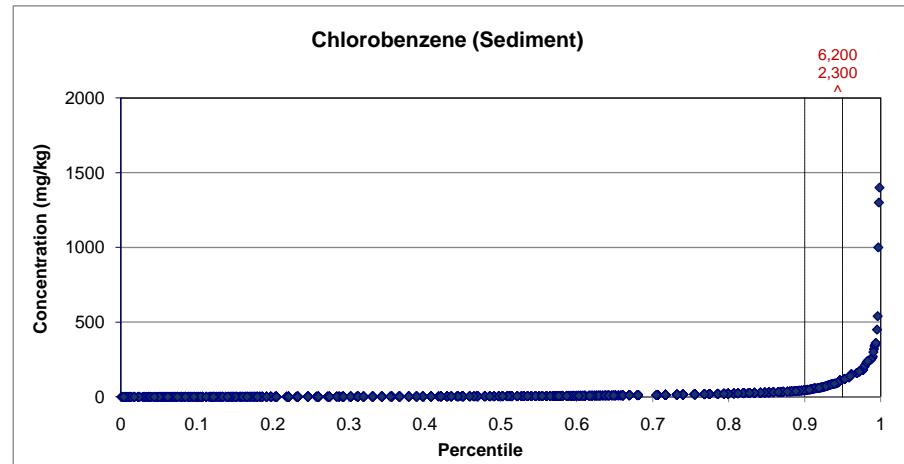
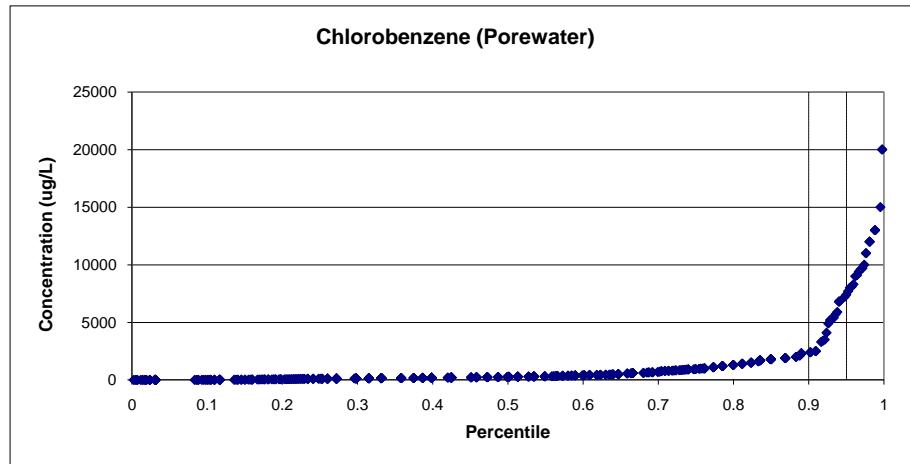
FIGURE G-1

ONONDAGA LAKE
SYRACUSE, NEW YORK

ILWD Removal Depths – 2 Meter
Average Removal Plus Hot Spots

Scale 1"=300'

Figure G-2. Percentile Distributions Used to Develop Optimal ILWD Removal Depths

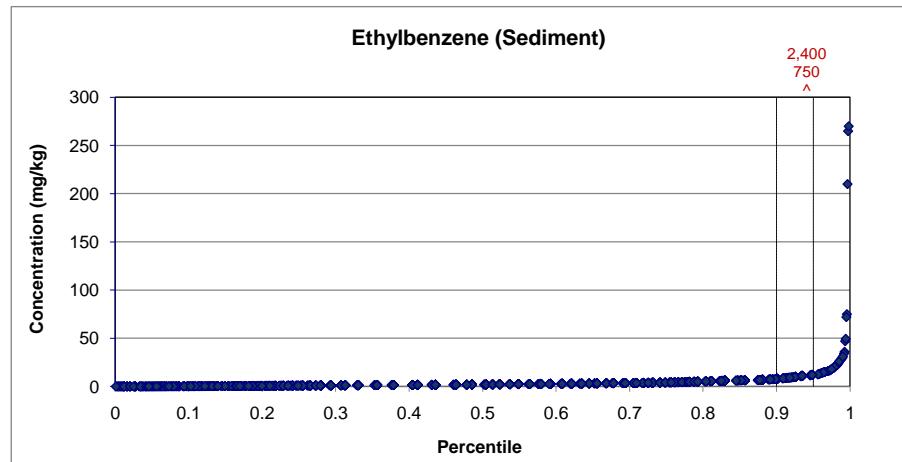
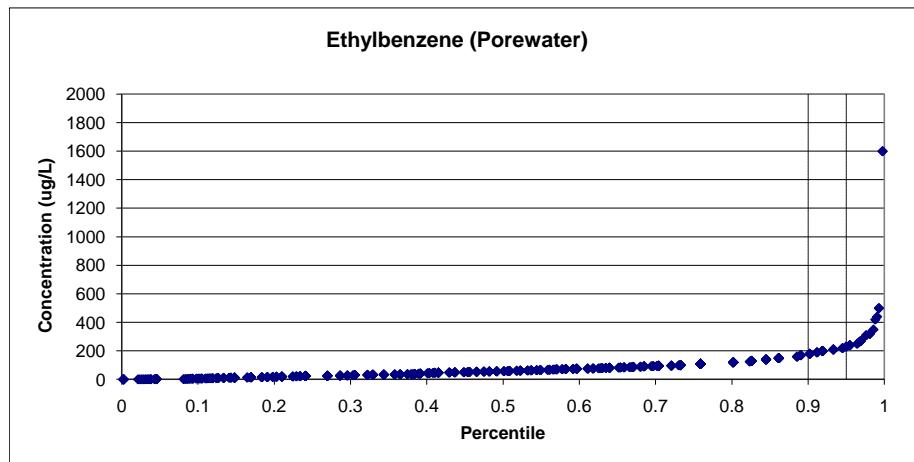
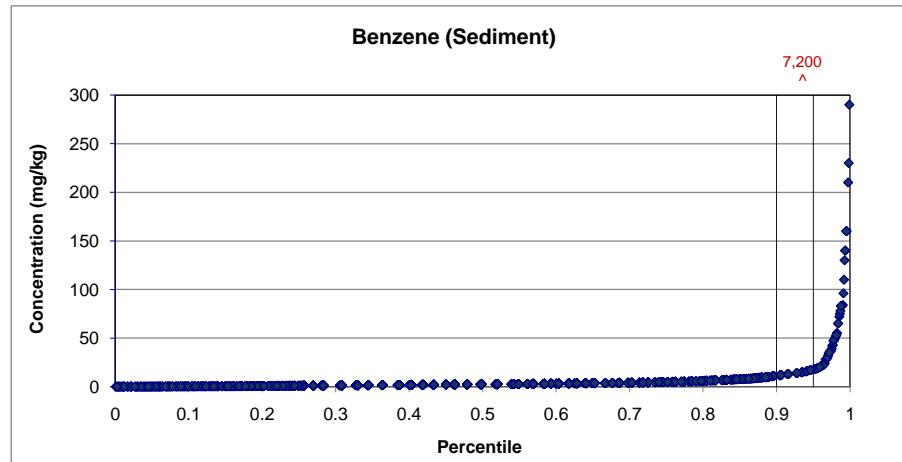
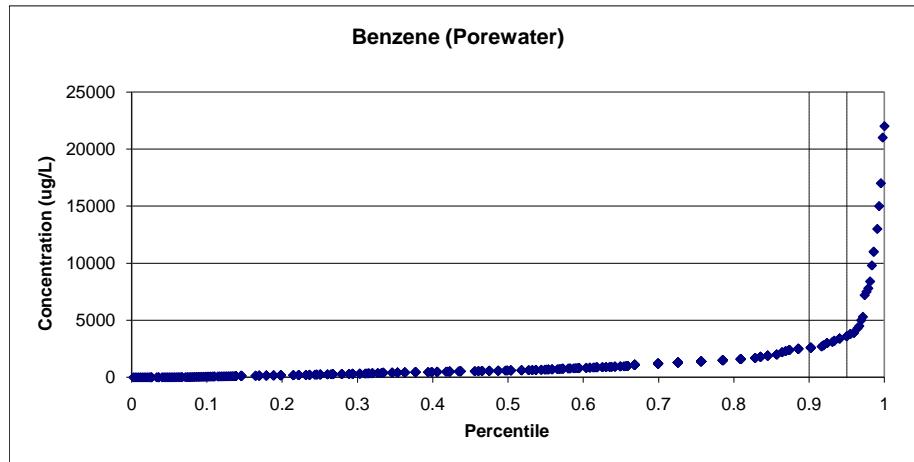


	Percentile	Porewater (ug/L)
Chloro-benzene	90th	2300
	95th	7000
Dichloro-benzene	90th	1633
	95th	2542

	Percentile	Sediment (mg/kg)
Chloro-benzene	90th	44
	95th	110
Dichloro-benzene	90th	128
	95th	250

Note: Numbers in red denote concentrations beyond the range of the plots.

Figure G-2. Percentile Distributions Used to Develop Optimal ILWD Removal Depths (continued)

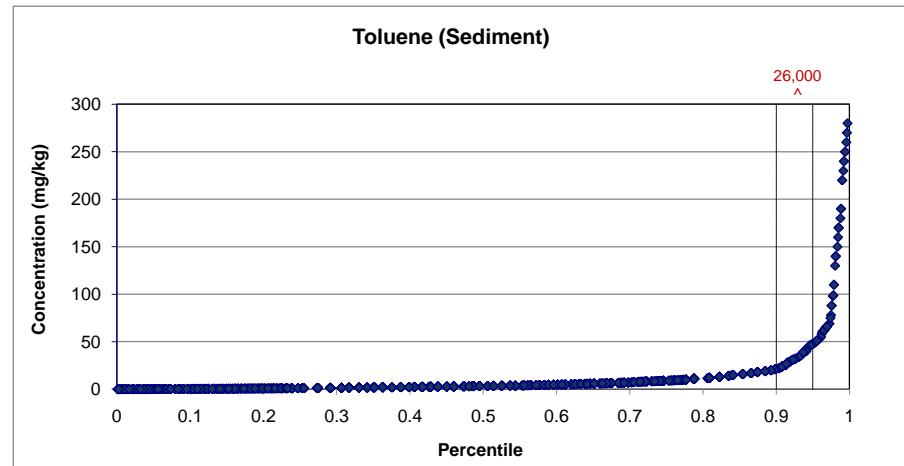
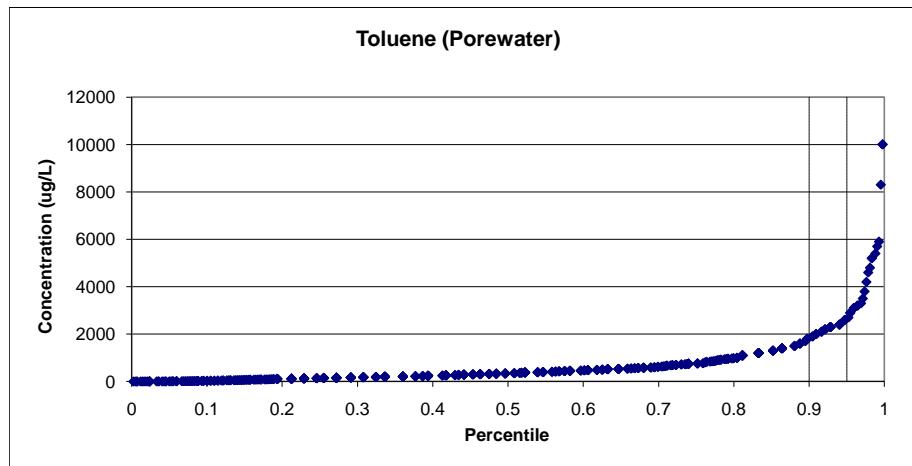
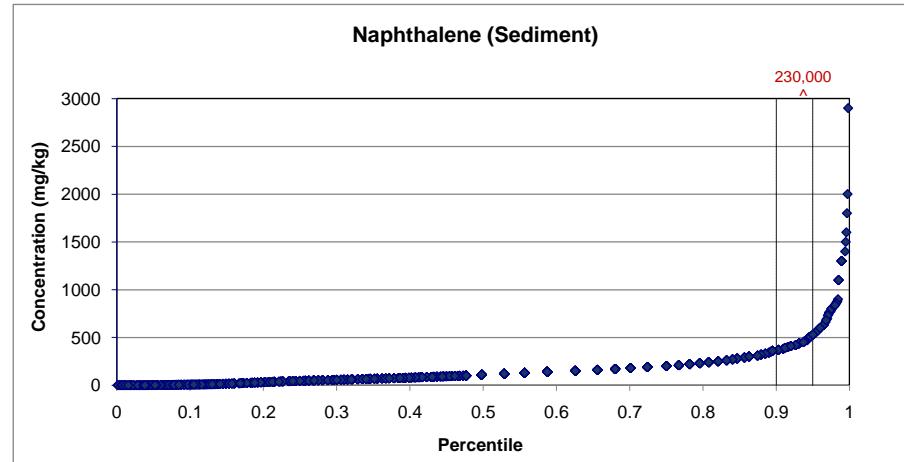
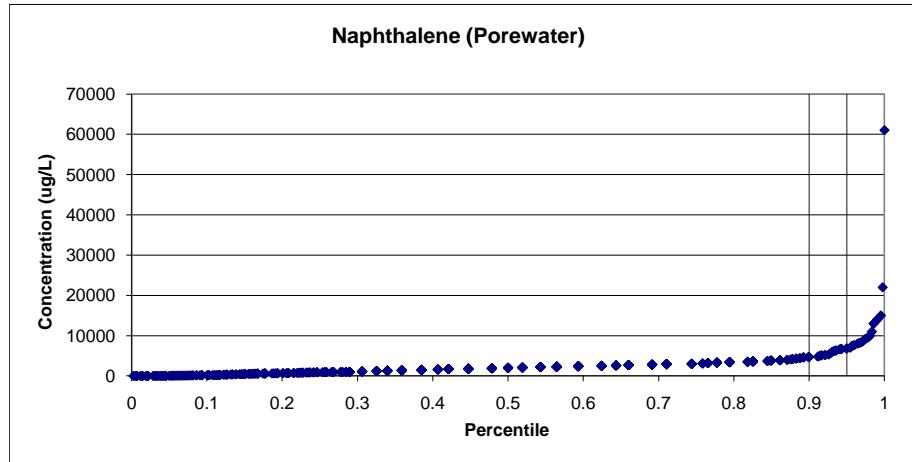


	Percentile	Porewater (ug/L)
Benzene	90th	2500
	95th	3400
Ethyl-benzene	90th	170
	95th	220

	Percentile	Sediment (mg/kg)
Benzene	90th	11
	95th	17
Ethyl-benzene	90th	8
	95th	12

Note: Numbers in red denote concentrations beyond the range of the plots.

Figure G-2. Percentile Distributions Used to Develop Optimal ILWD Removal Depths (continued)

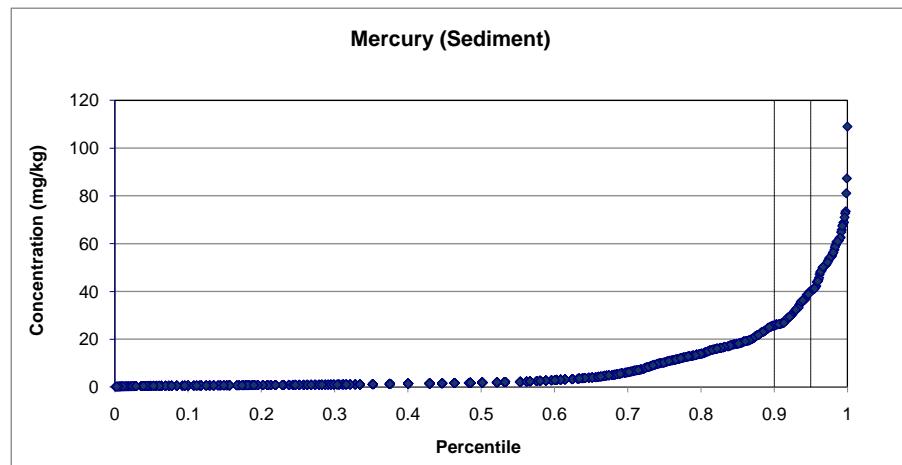
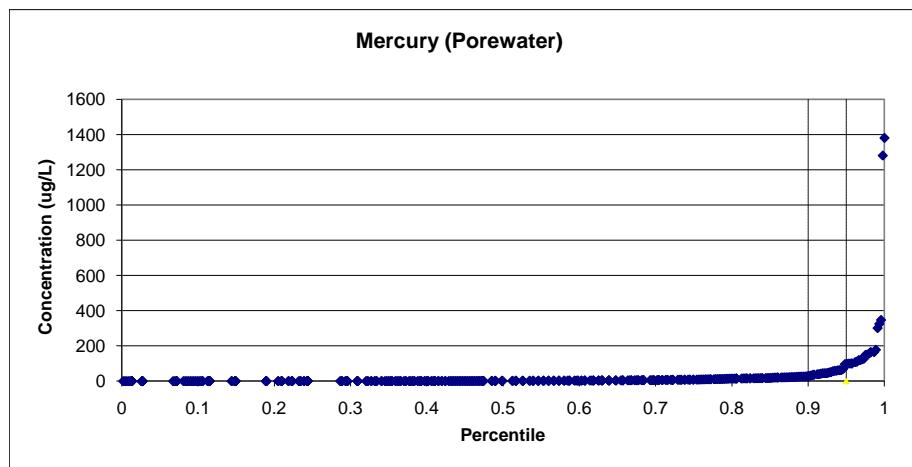
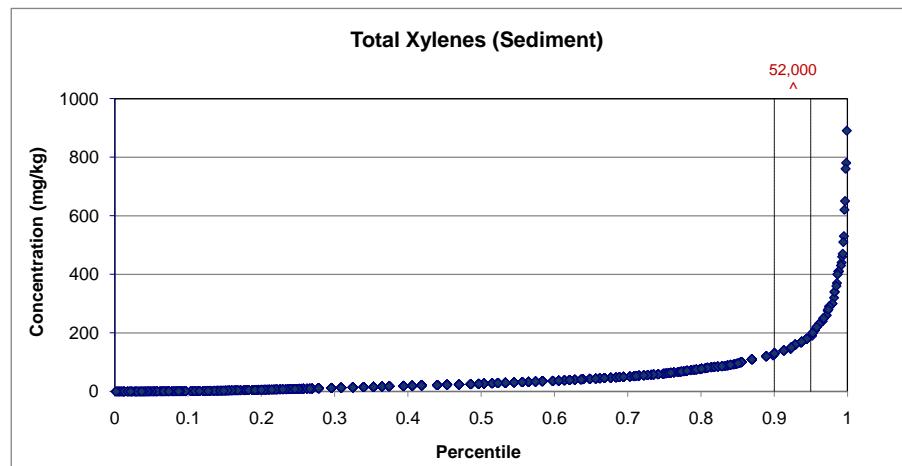
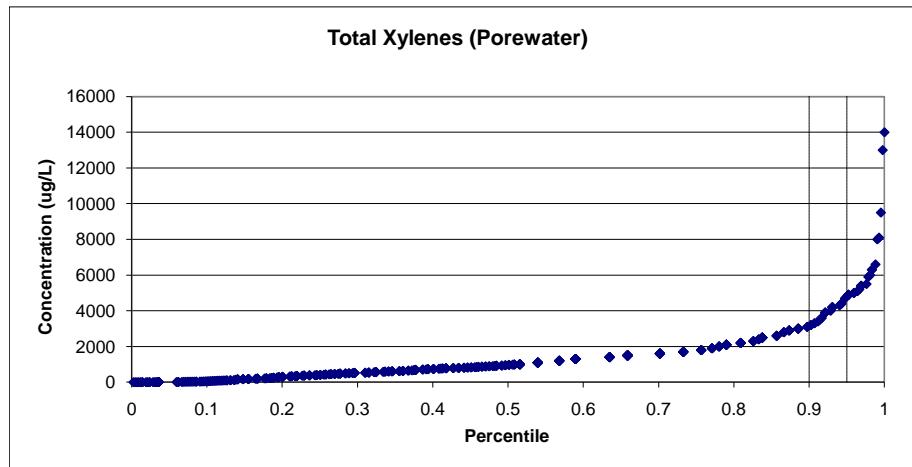


	Percentile	Porewater (ug/L)
Naphthalene	90th	4610
	95th	6700
Toluene	90th	1600
	95th	2500

	Percentile	Sediment (mg/kg)
Naphthalene	90th	360
	95th	526
Toluene	90th	21
	95th	47

Note: Numbers in red denote concentrations beyond the range of the plots.

Figure G-2. Percentile Distributions Used to Develop Optimal ILWD Removal Depths (continued)

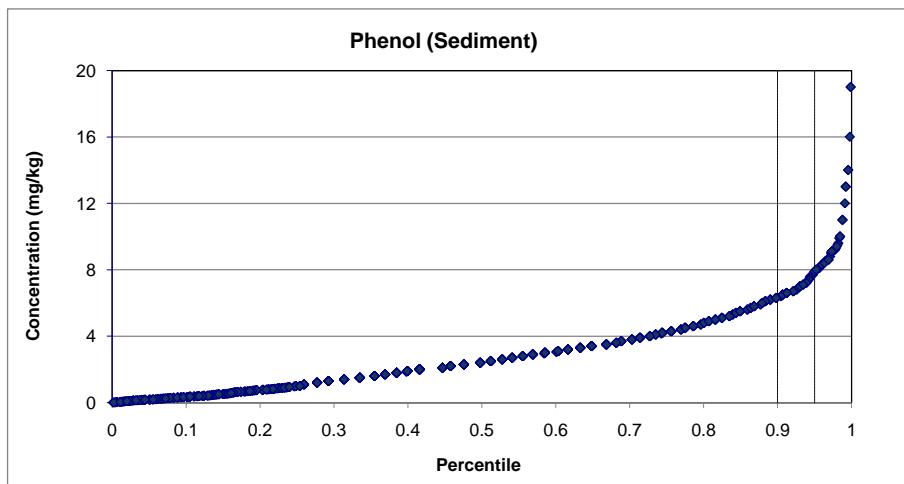
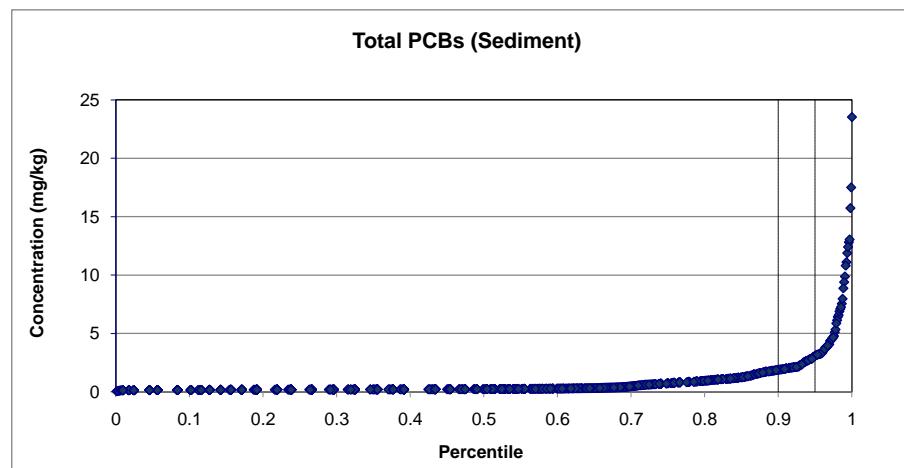
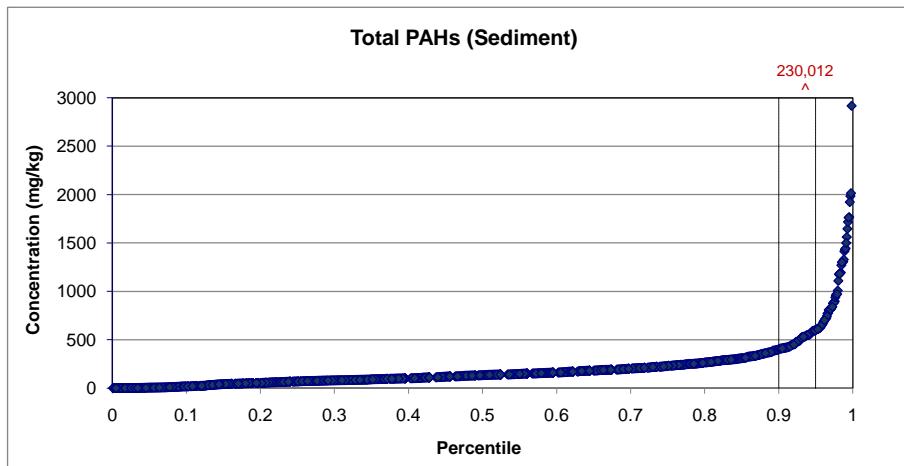


	Percentile	Porewater (ug/L)
Total Xylenes	90th	3000
	95th	4550
Mercury	90th	26
	95th	79

	Percentile	Sediment (mg/kg)
Total Xylenes	90th	127
	95th	180
Mercury	90th	26
	95th	40

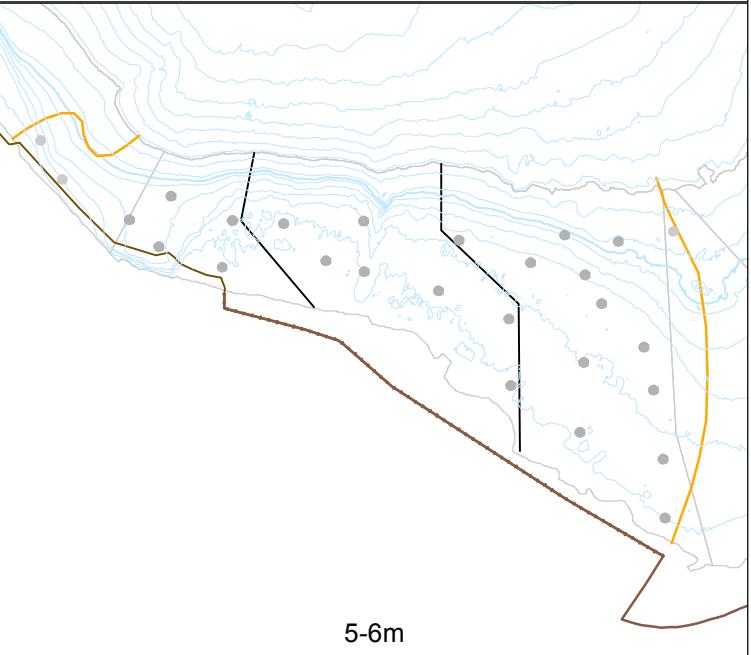
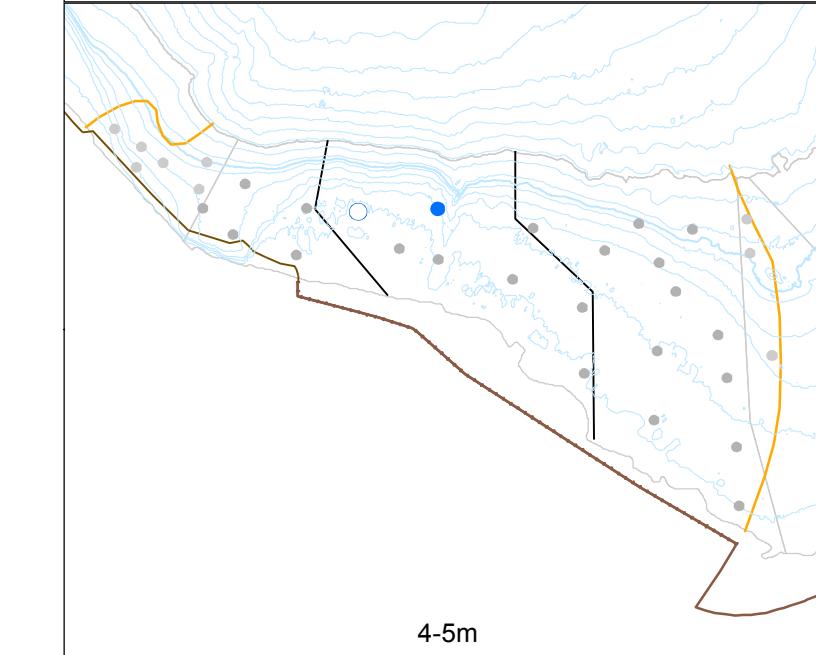
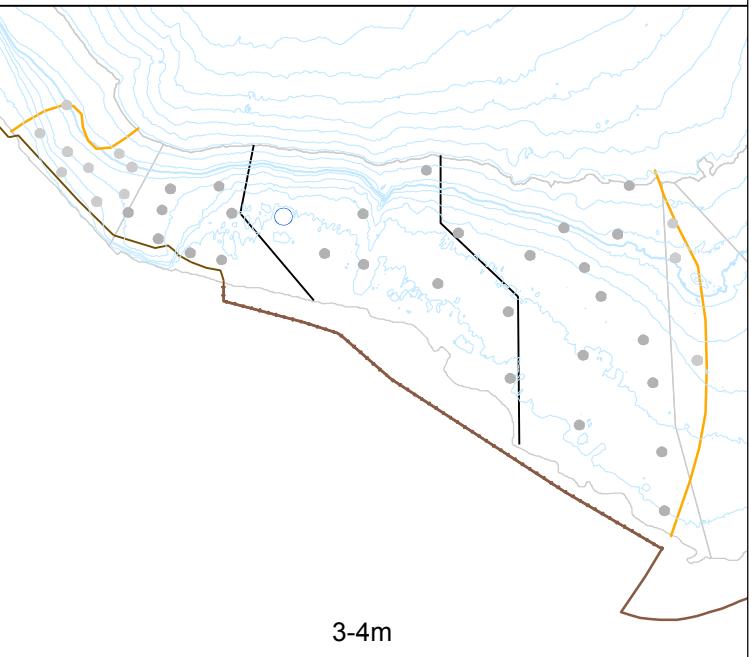
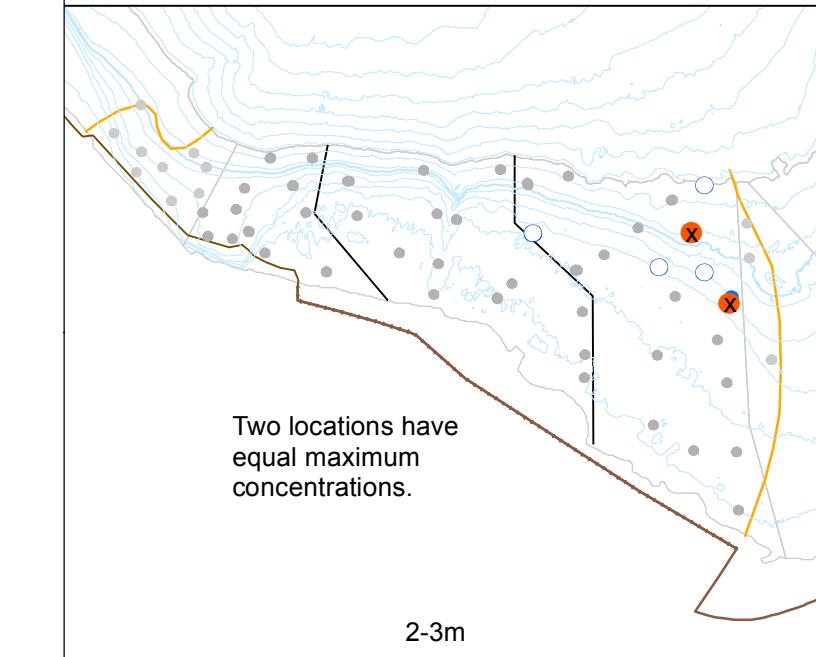
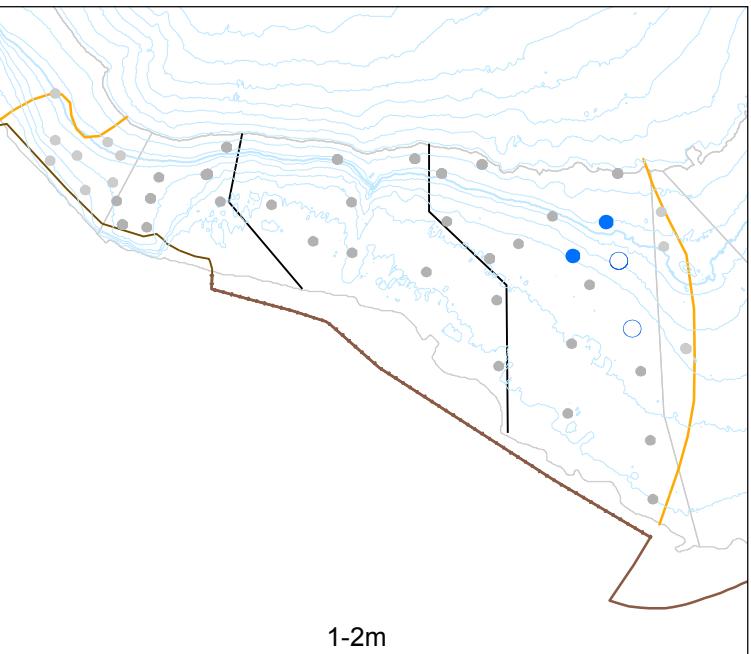
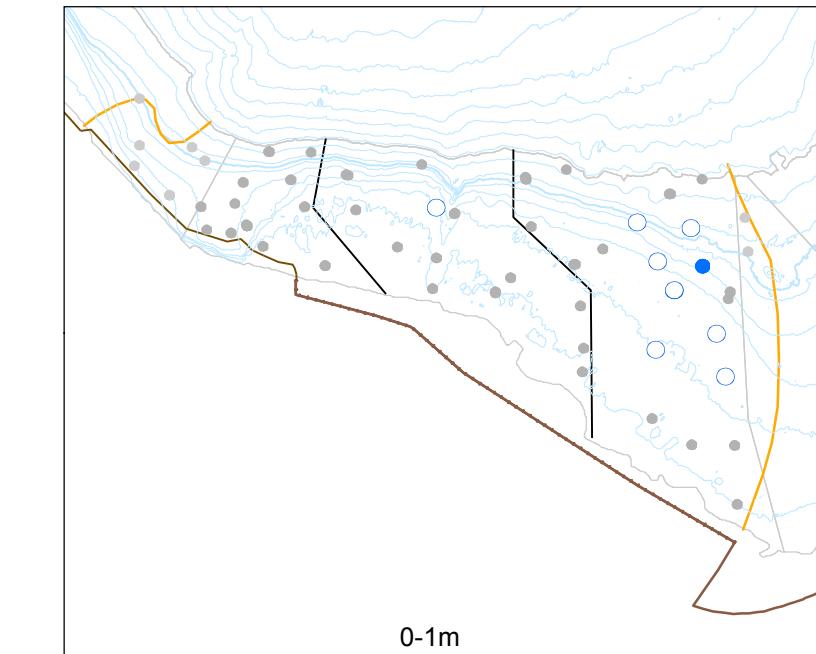
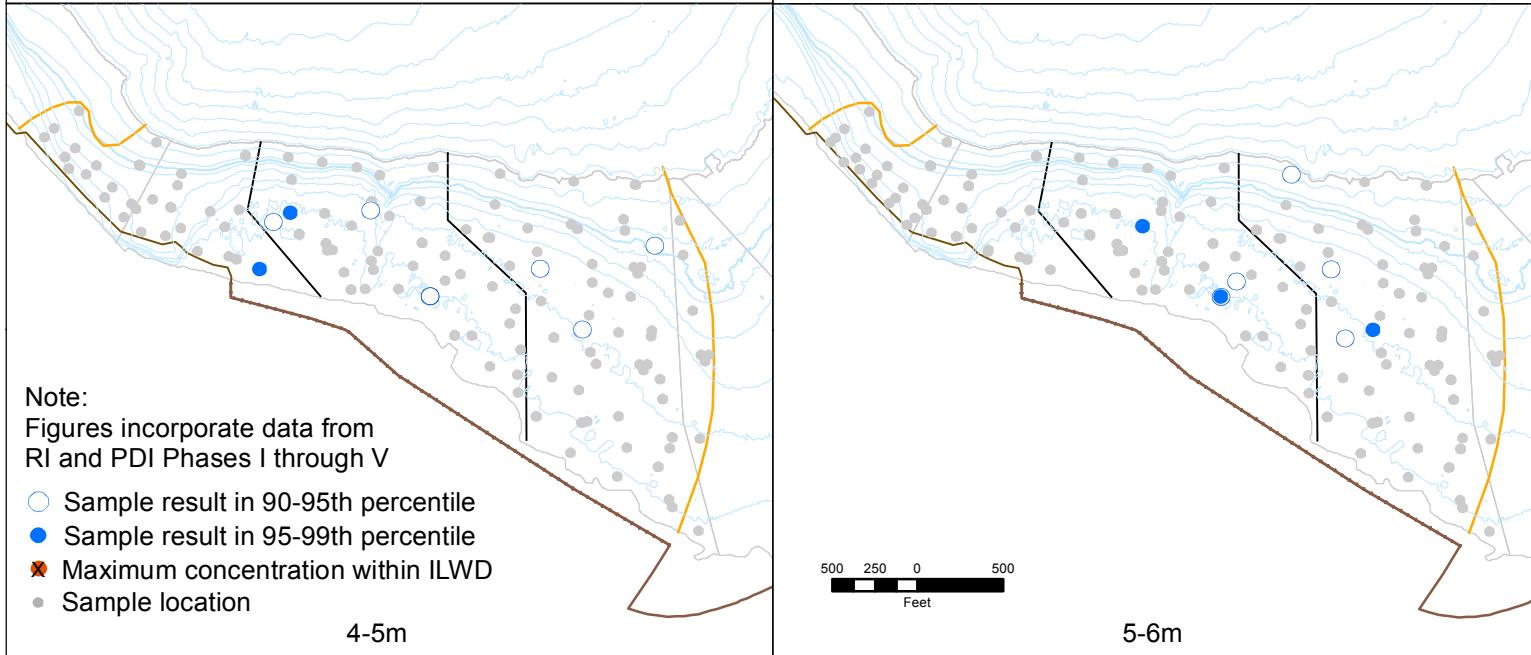
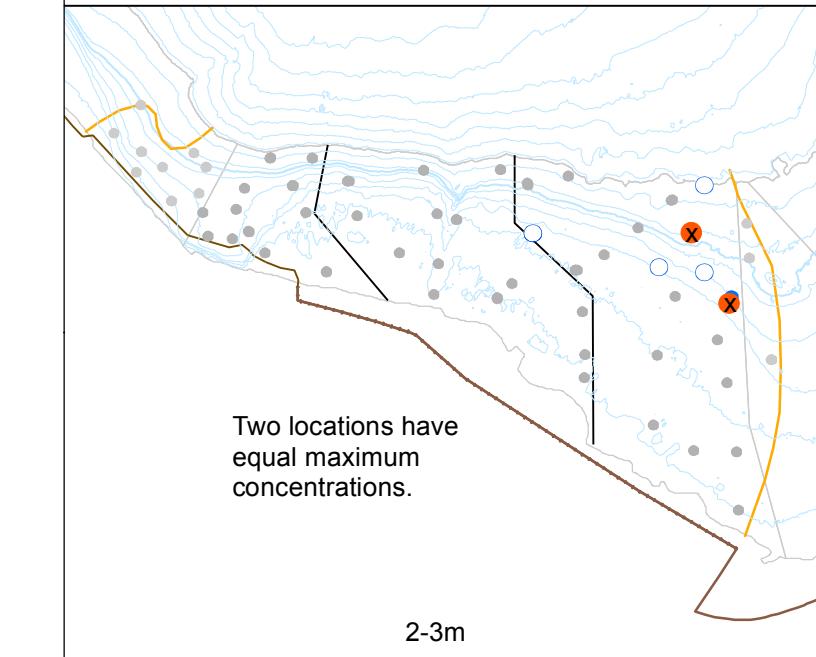
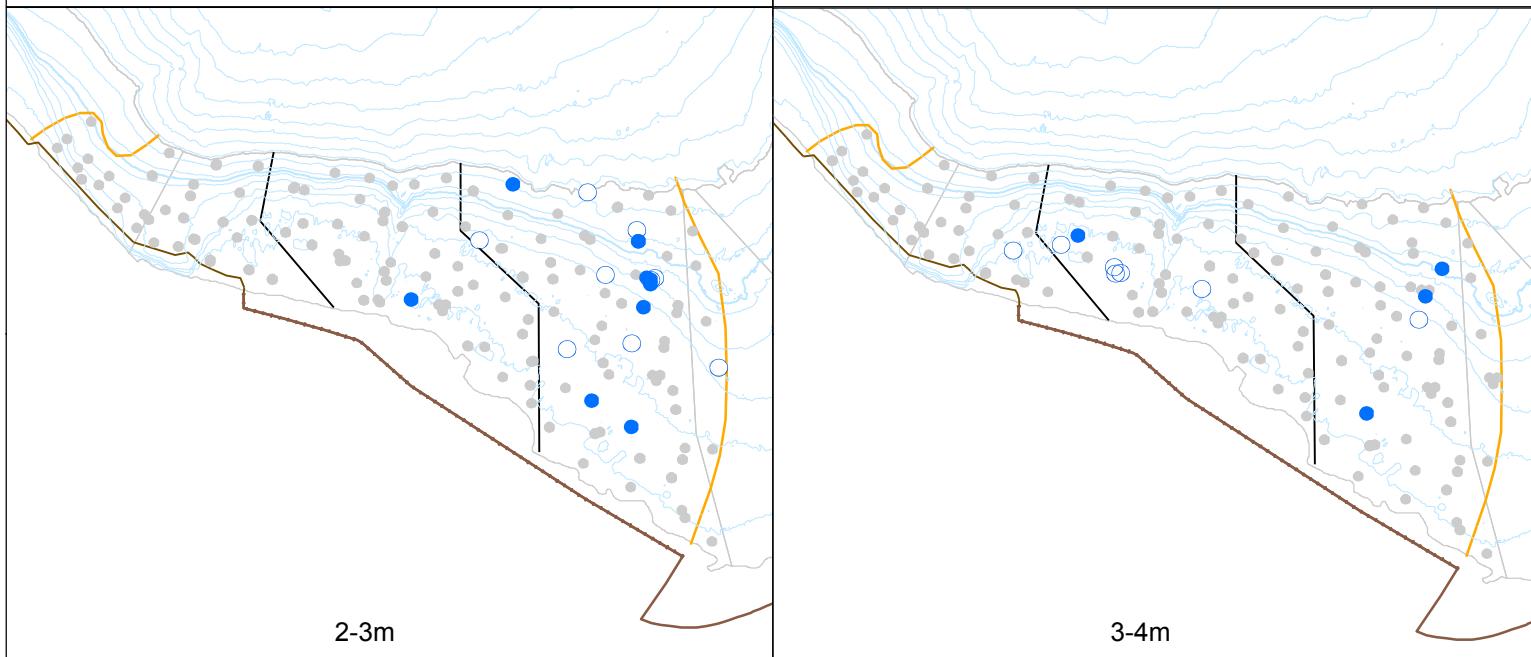
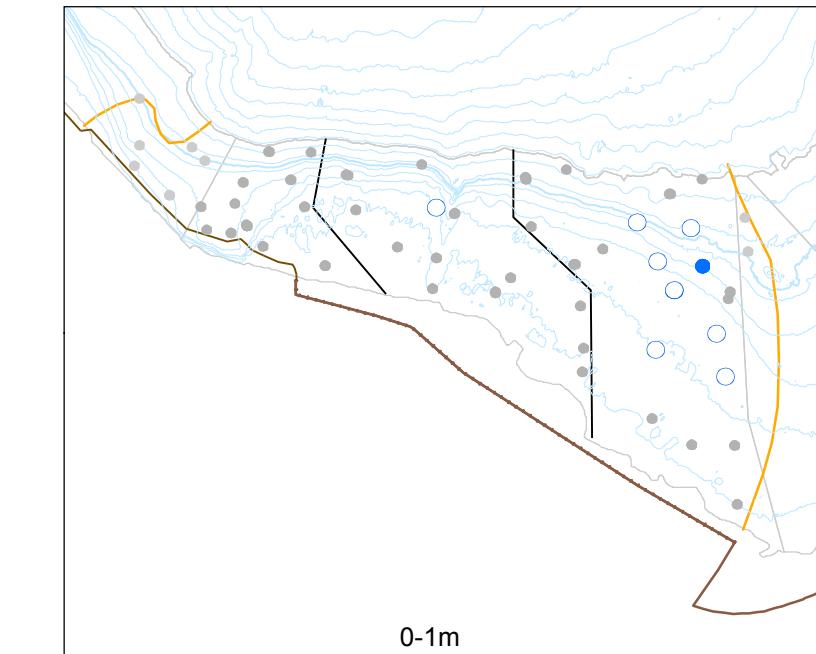
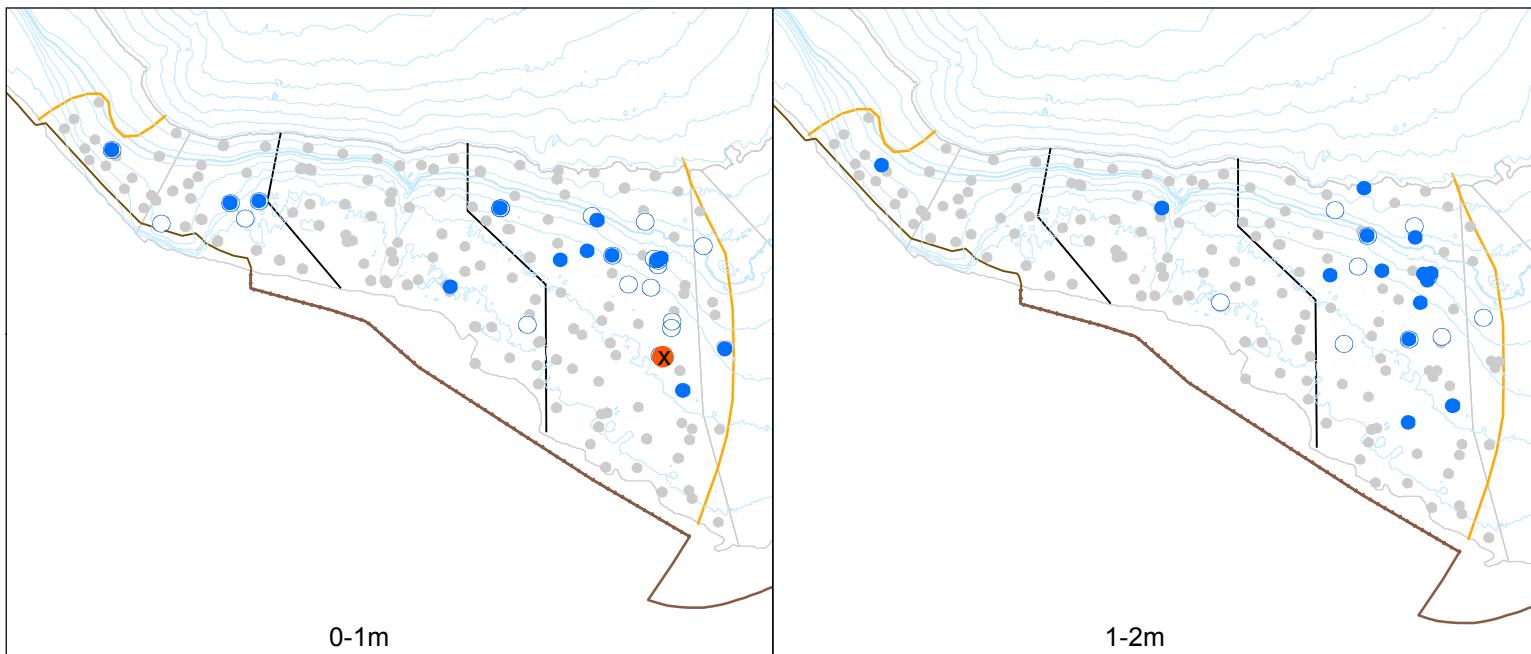
Note: Numbers in red denote concentrations beyond the range of the plots.

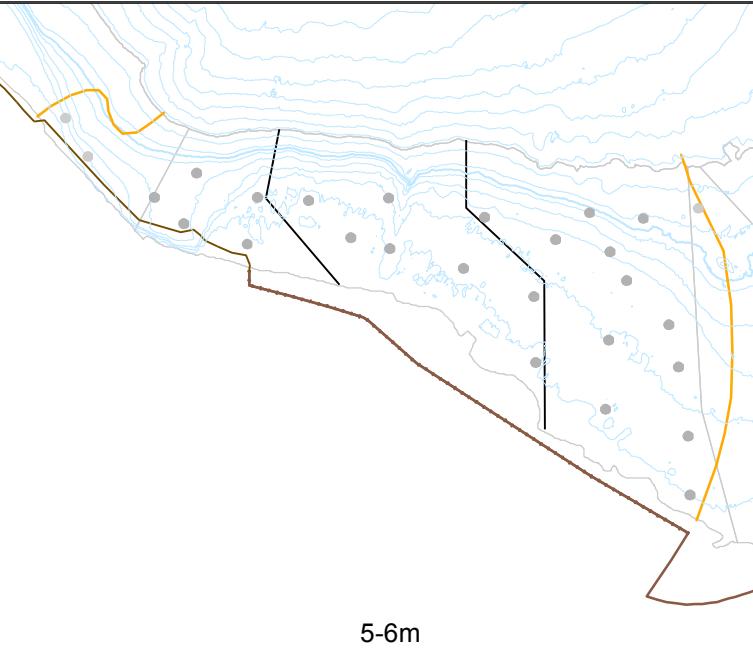
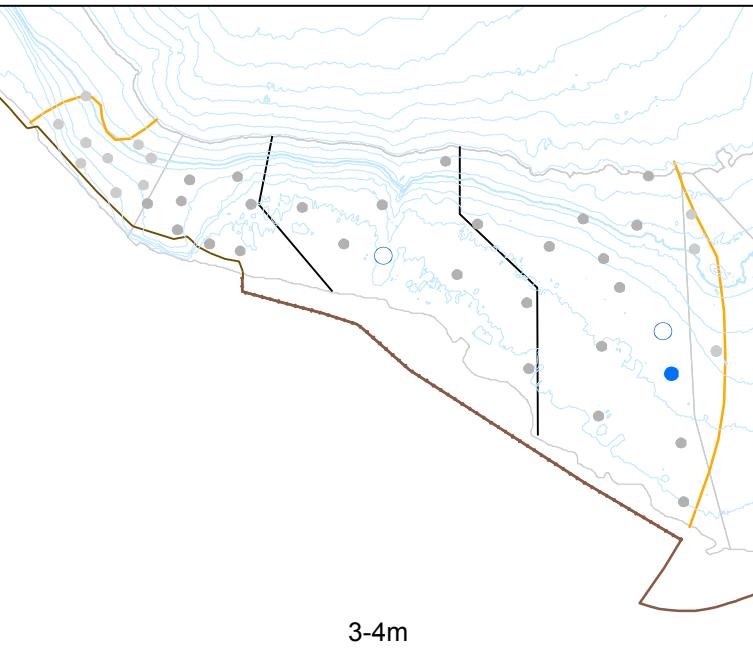
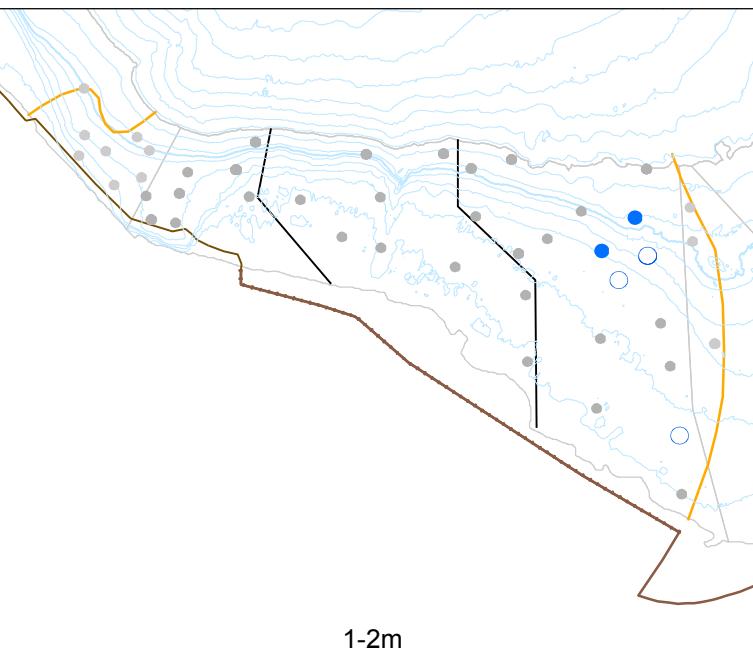
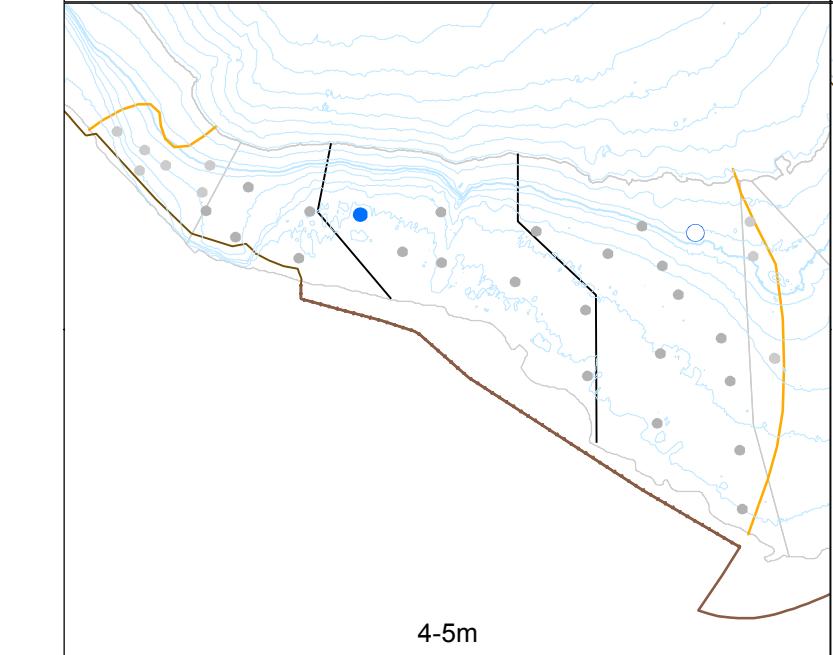
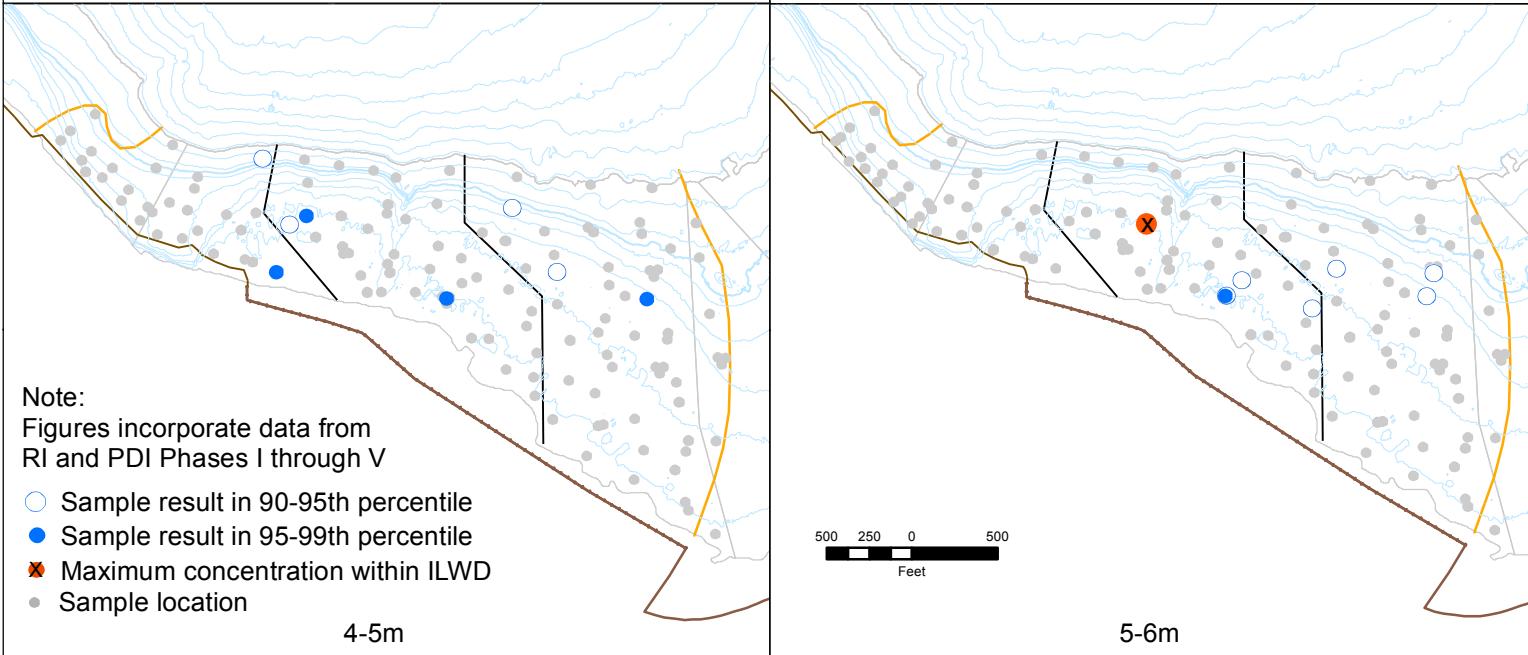
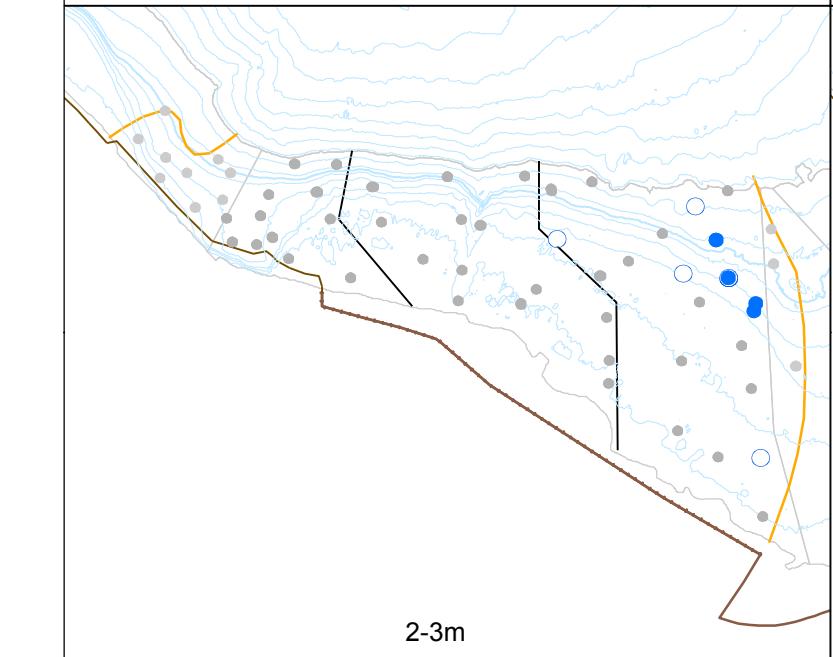
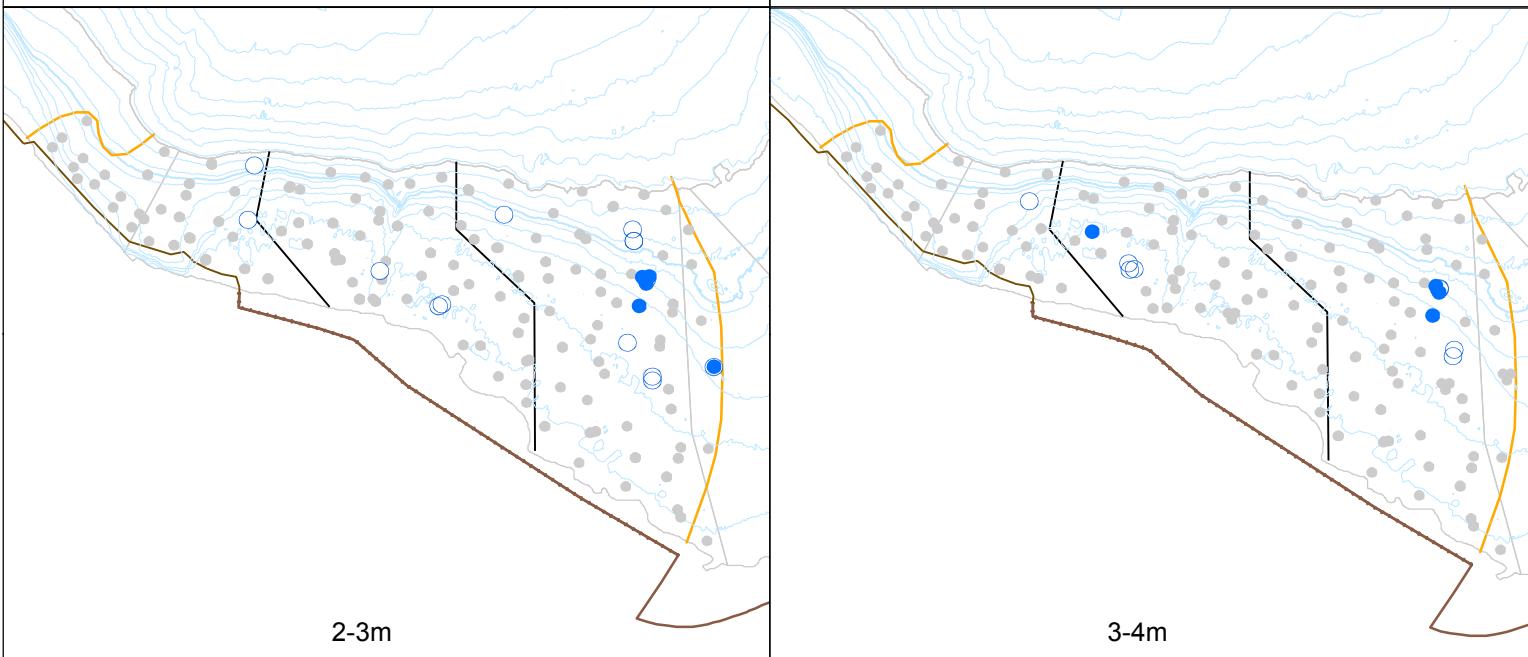
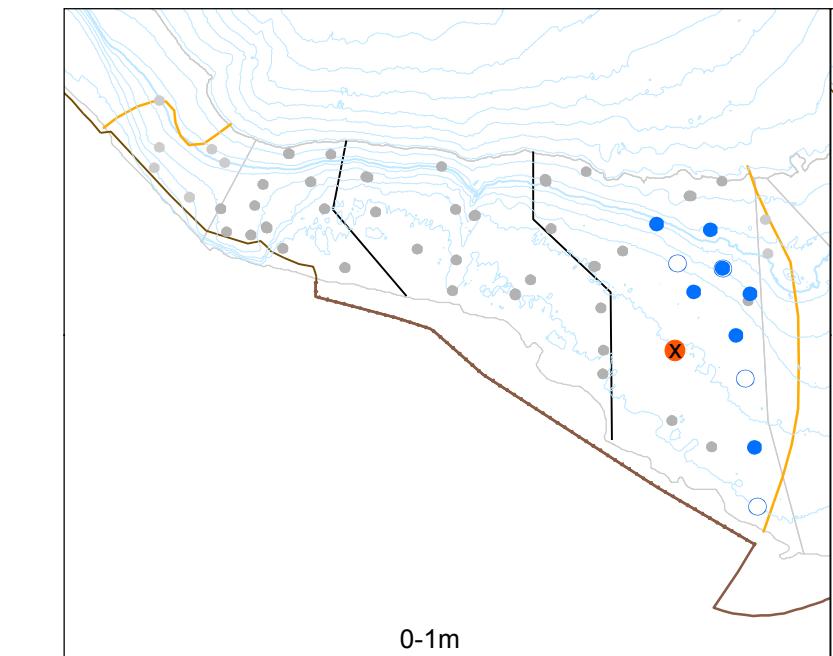
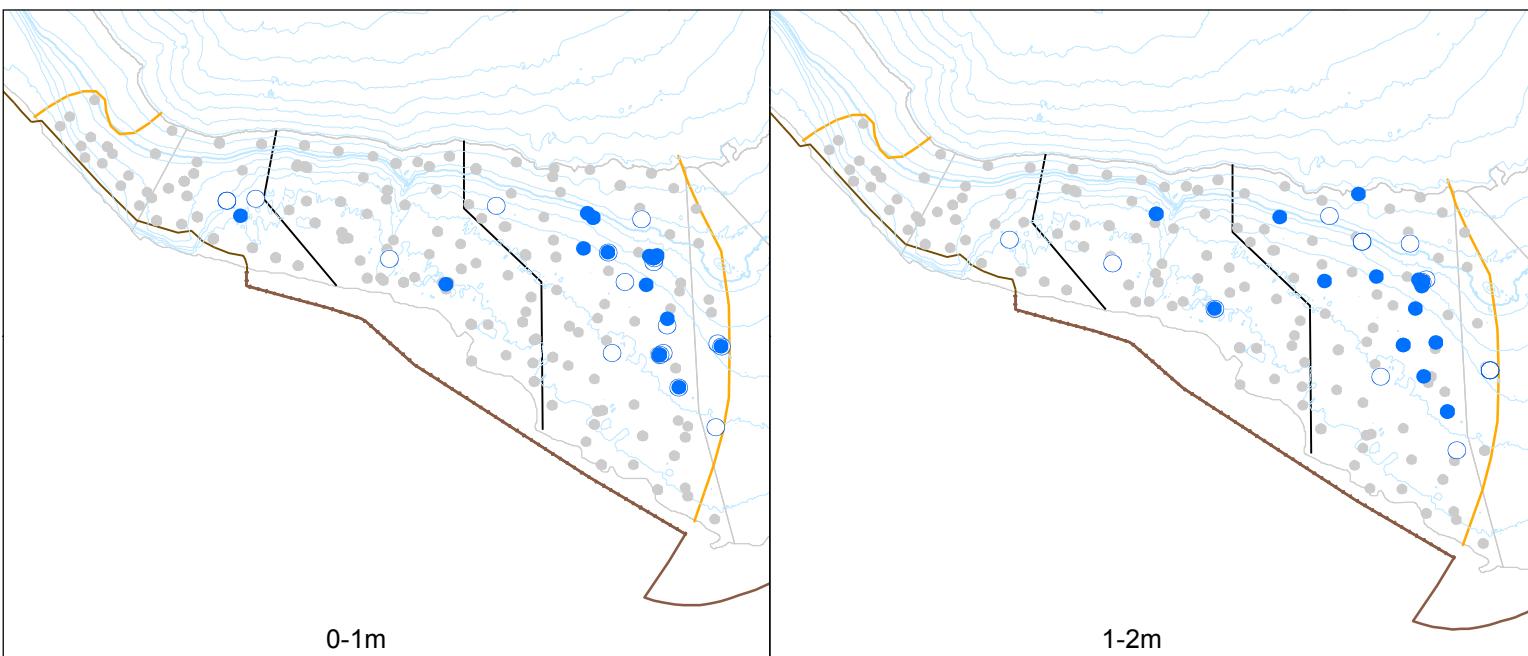
Figure G-2. Percentile Distributions Used to Develop Optimal ILWD Removal Depths (continued)

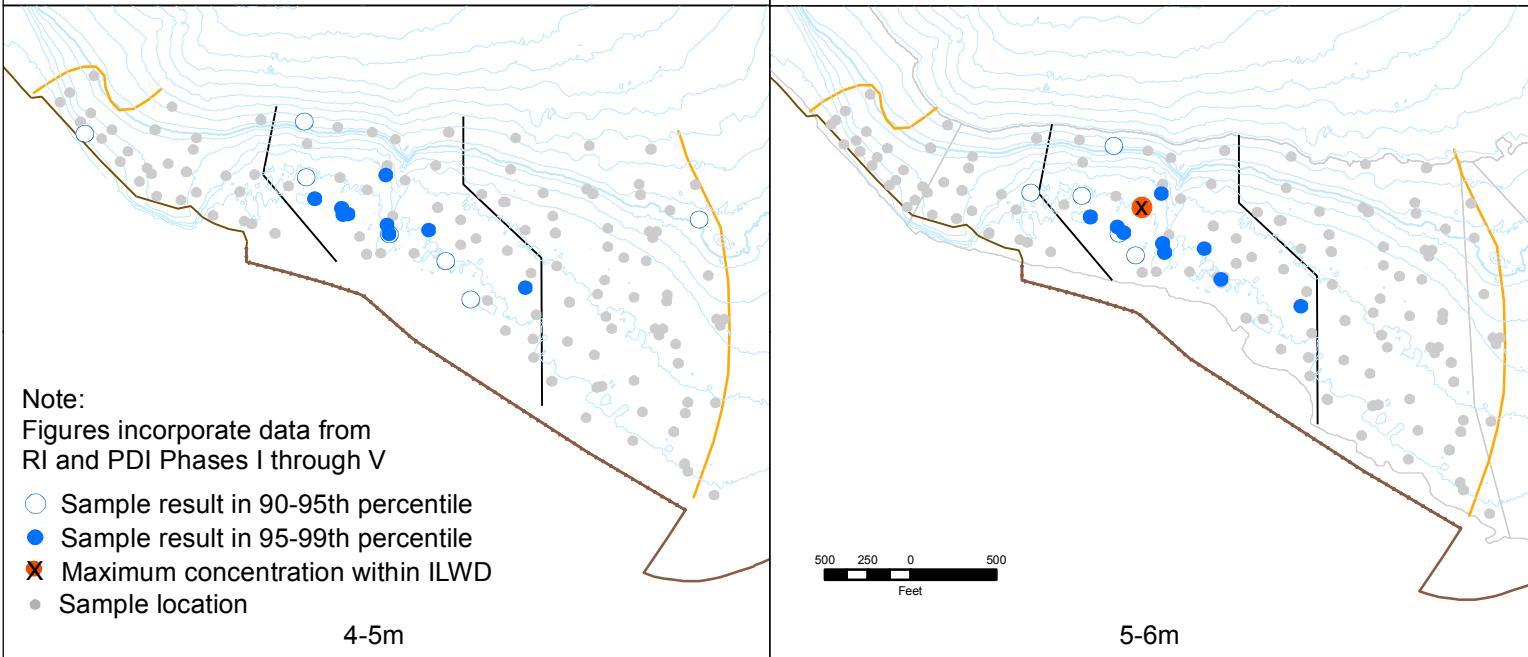
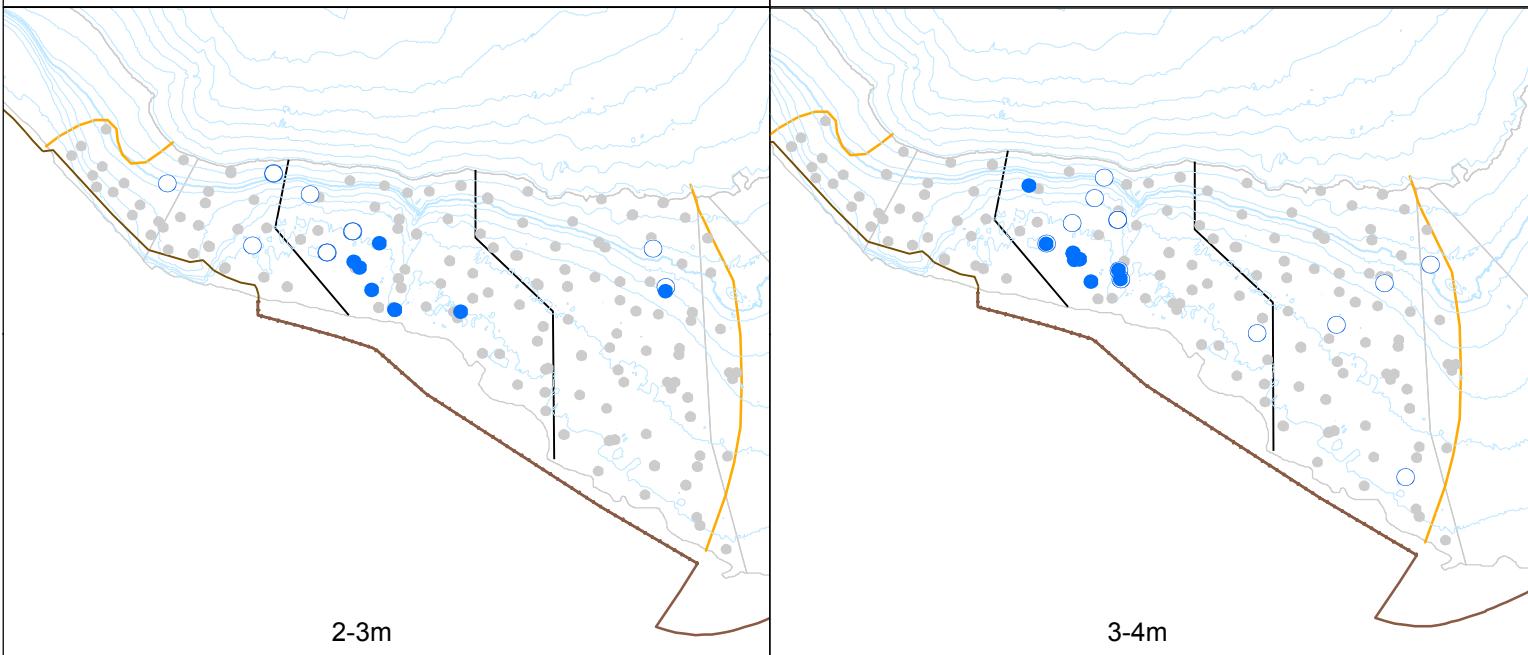
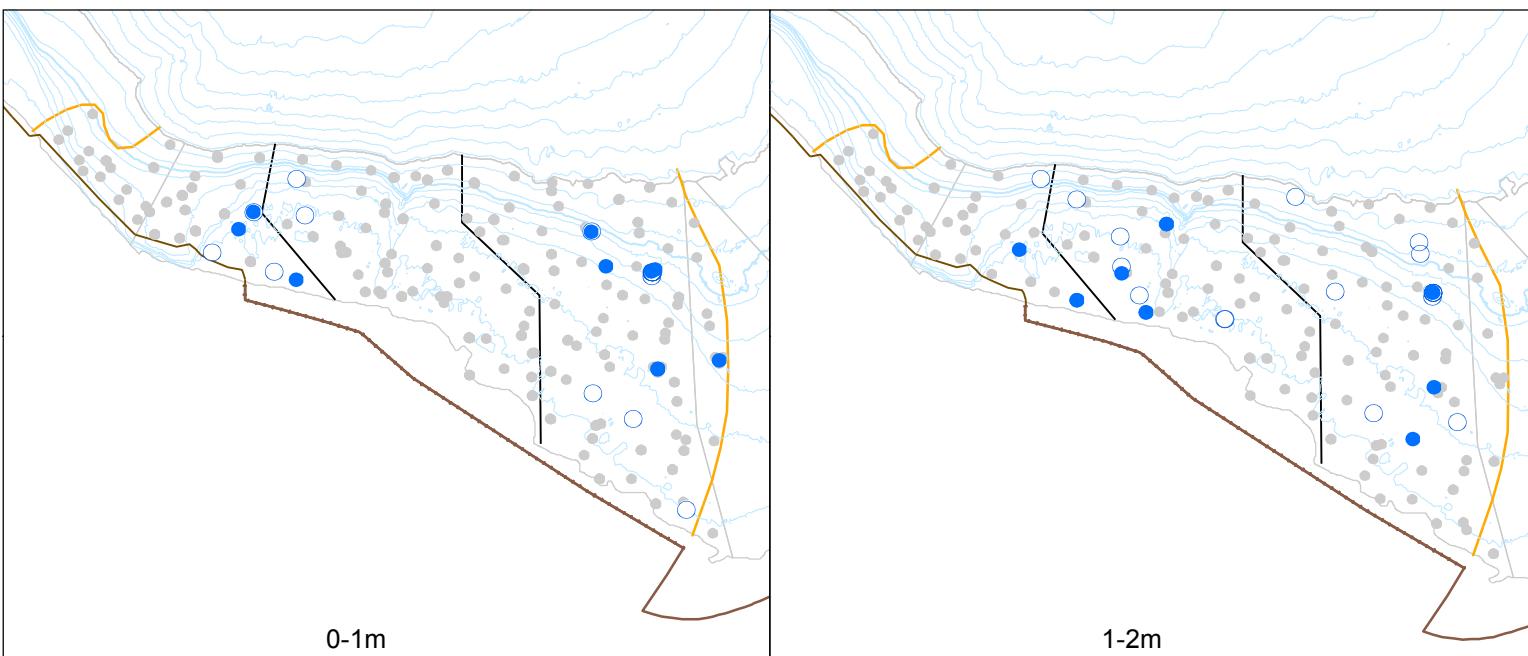


	Percentile	Sediment (mg/kg)
Total PAHs	90th	401
	95th	600
Total PCBs	90th	2
	95th	3
Phenol	90th	6
	95th	8

Note: Numbers in red denote concentrations beyond the range of the plots.



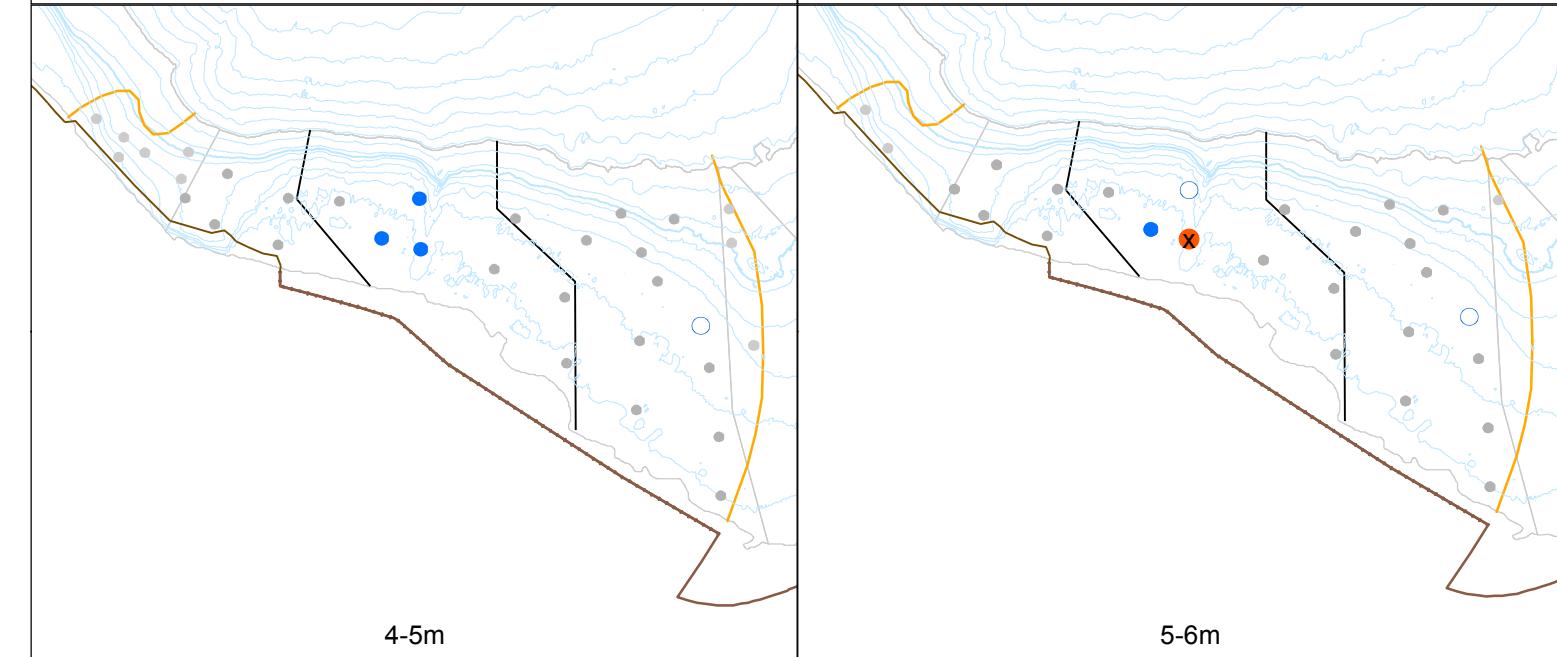
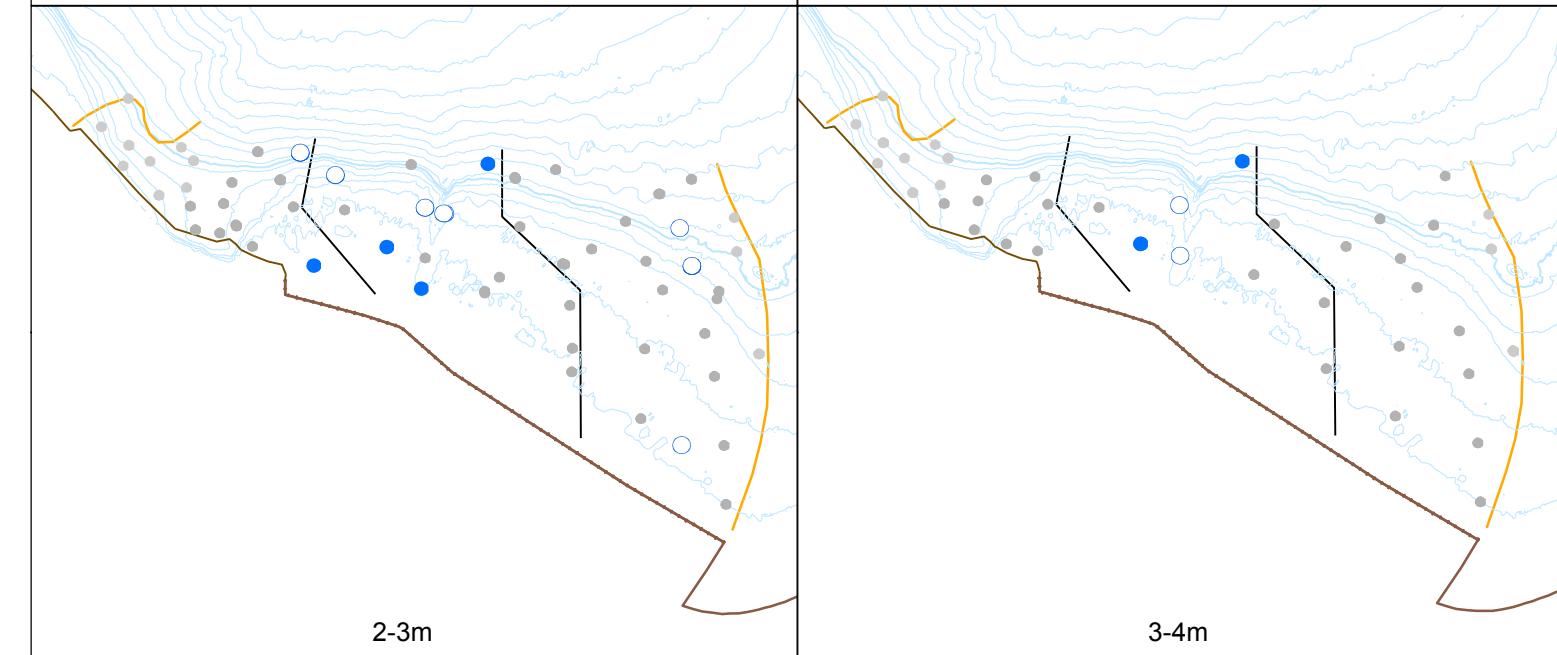
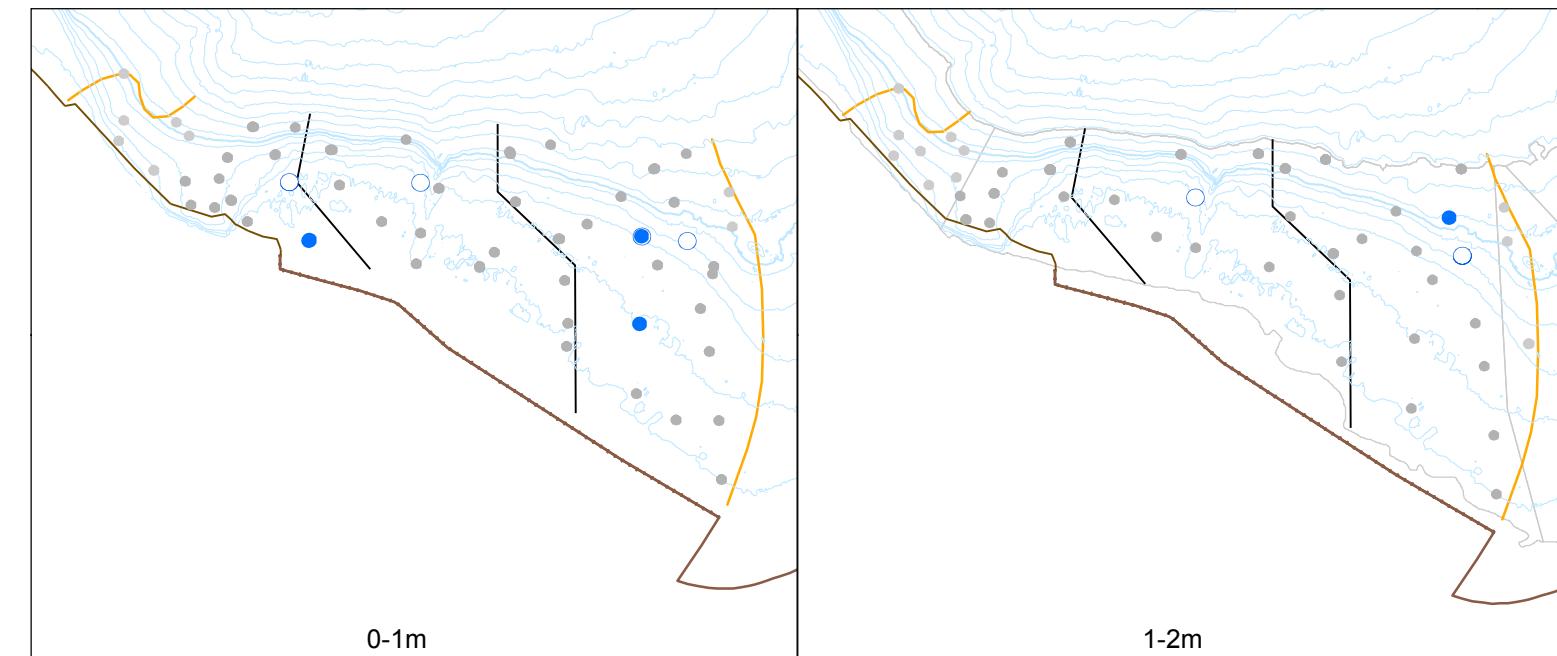
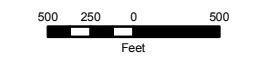




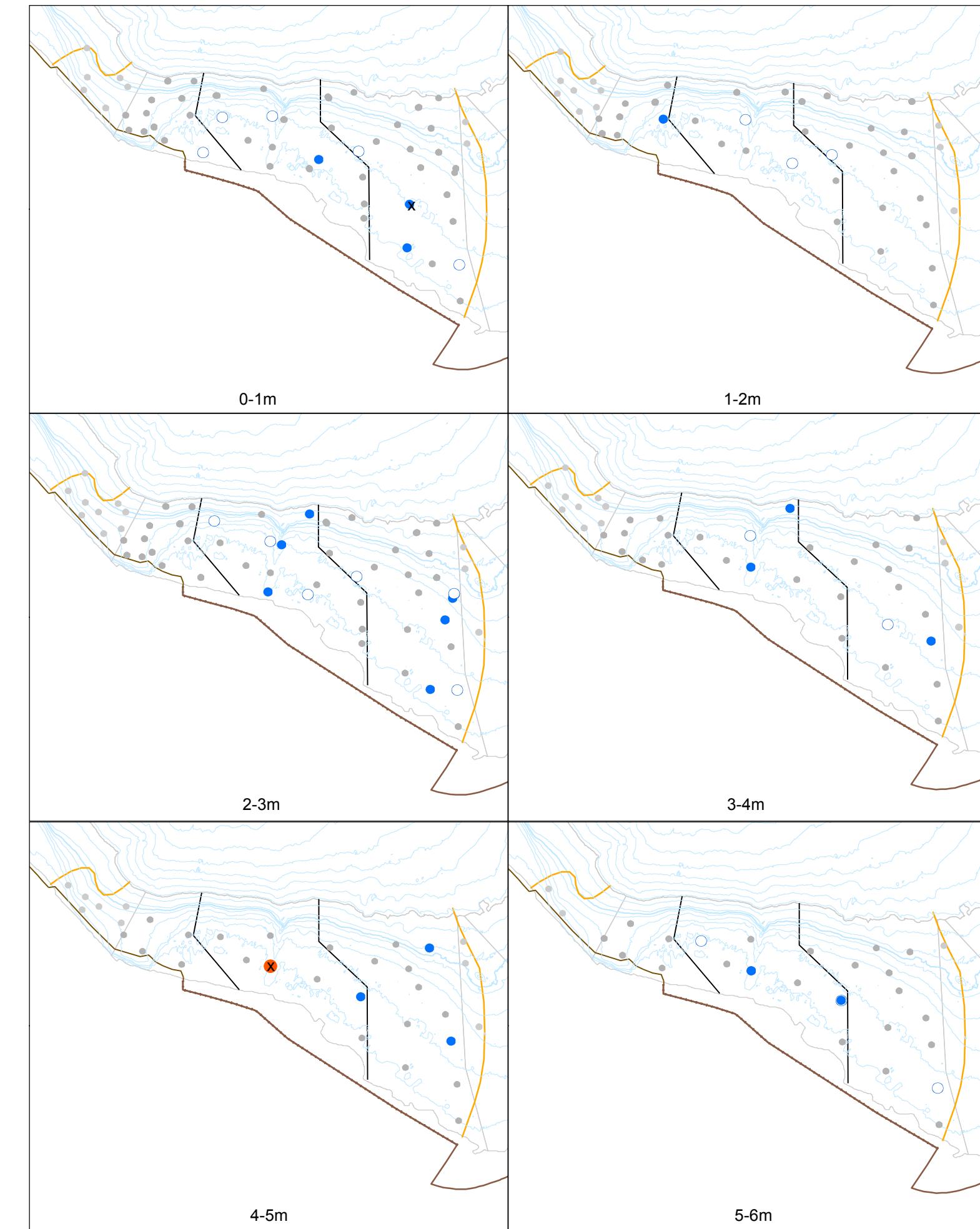
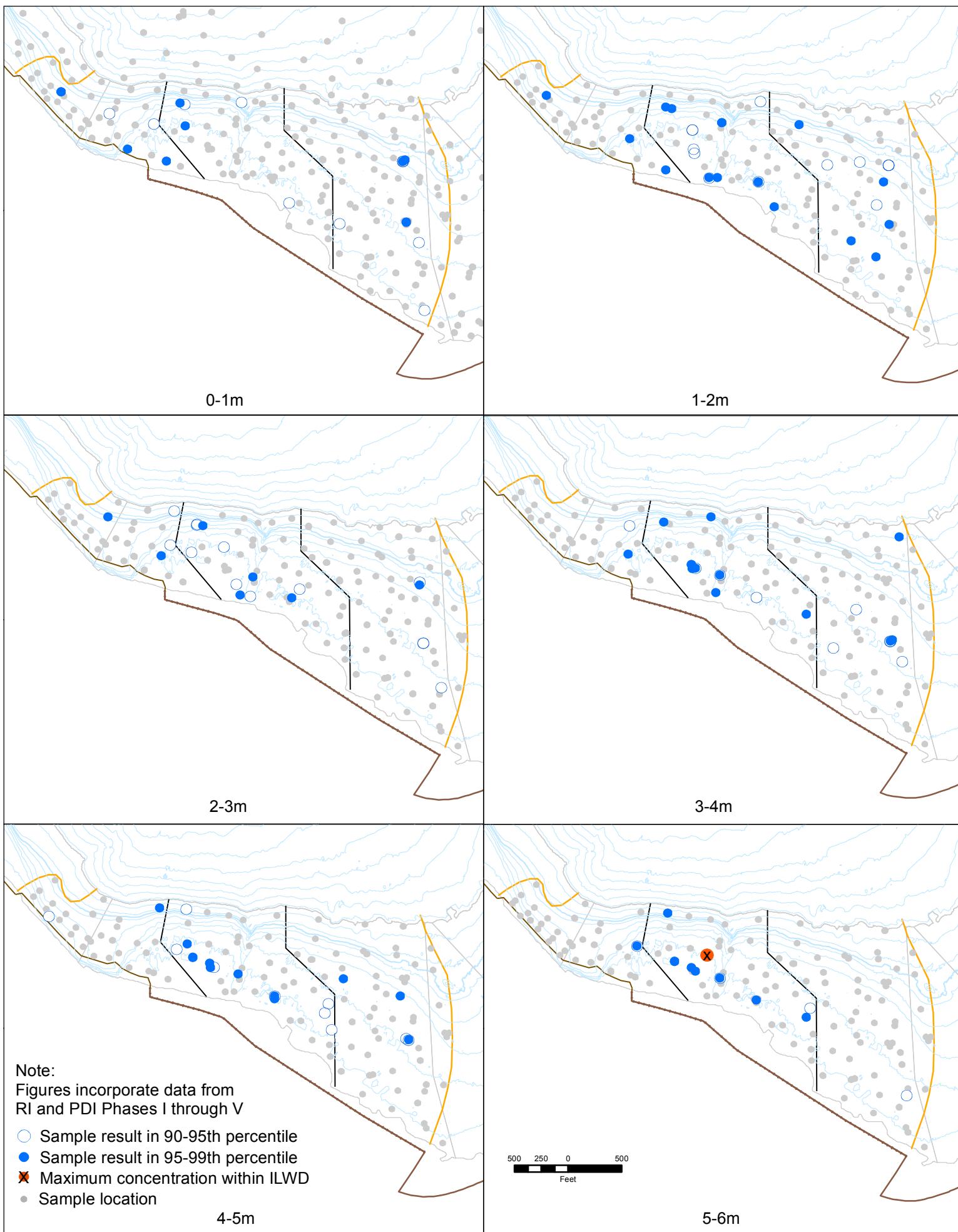
Benzene Sediment

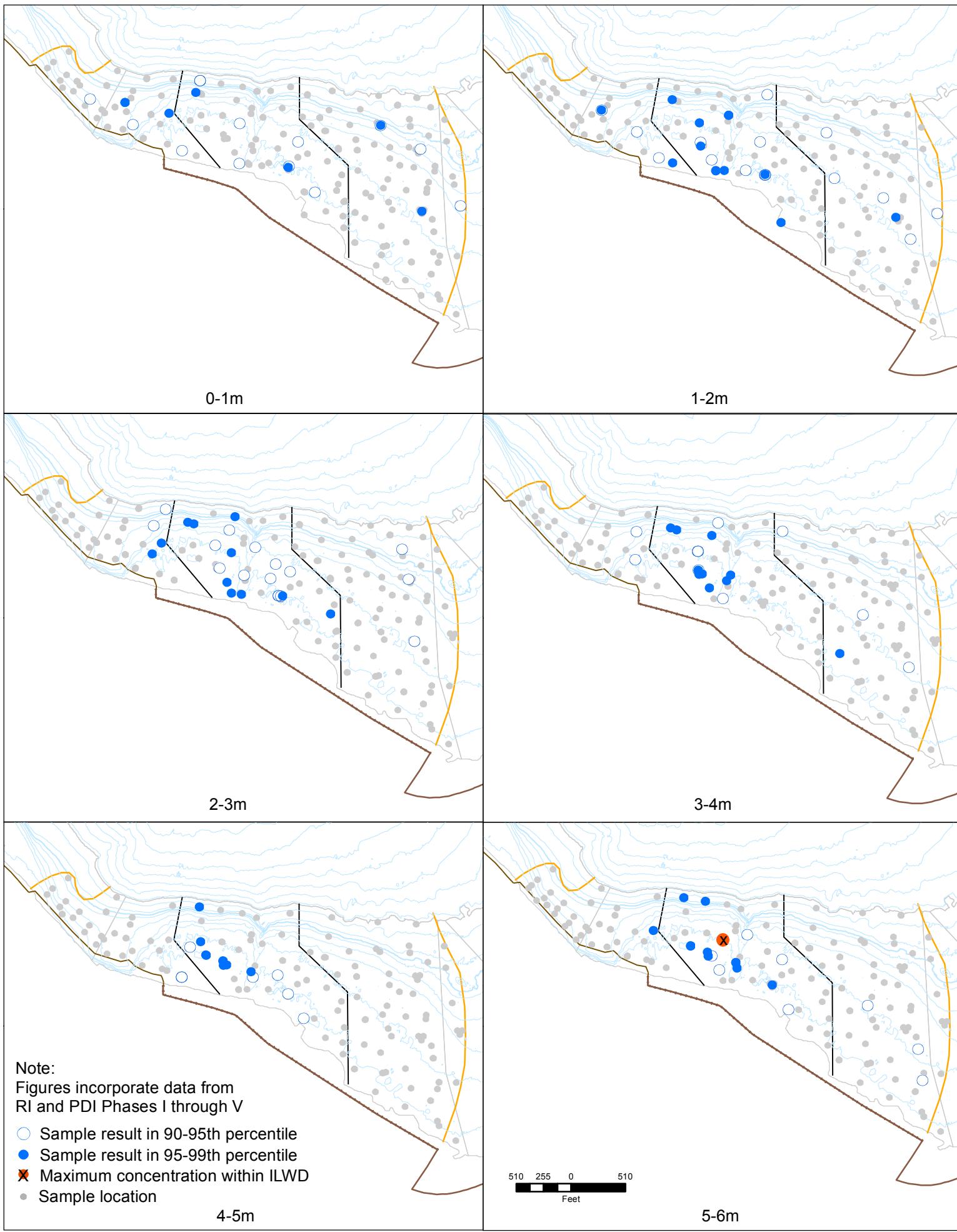
Note:
Figures incorporate data from
RI and PDI Phases I through V

- Sample result in 90-95th percentile
- Sample result in 95-99th percentile
- ✖ Maximum concentration within ILWD
- Sample location



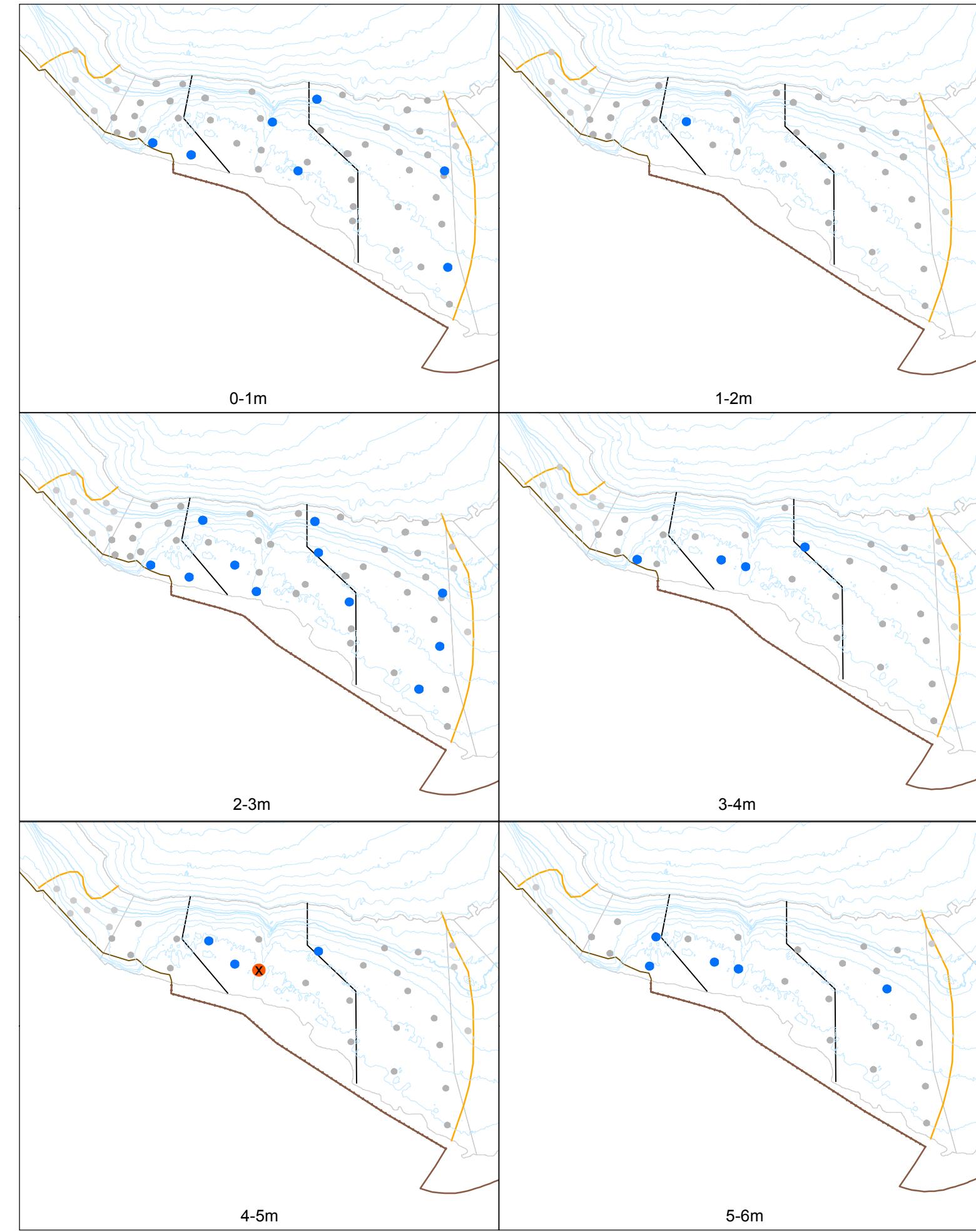
Benzene Porewater





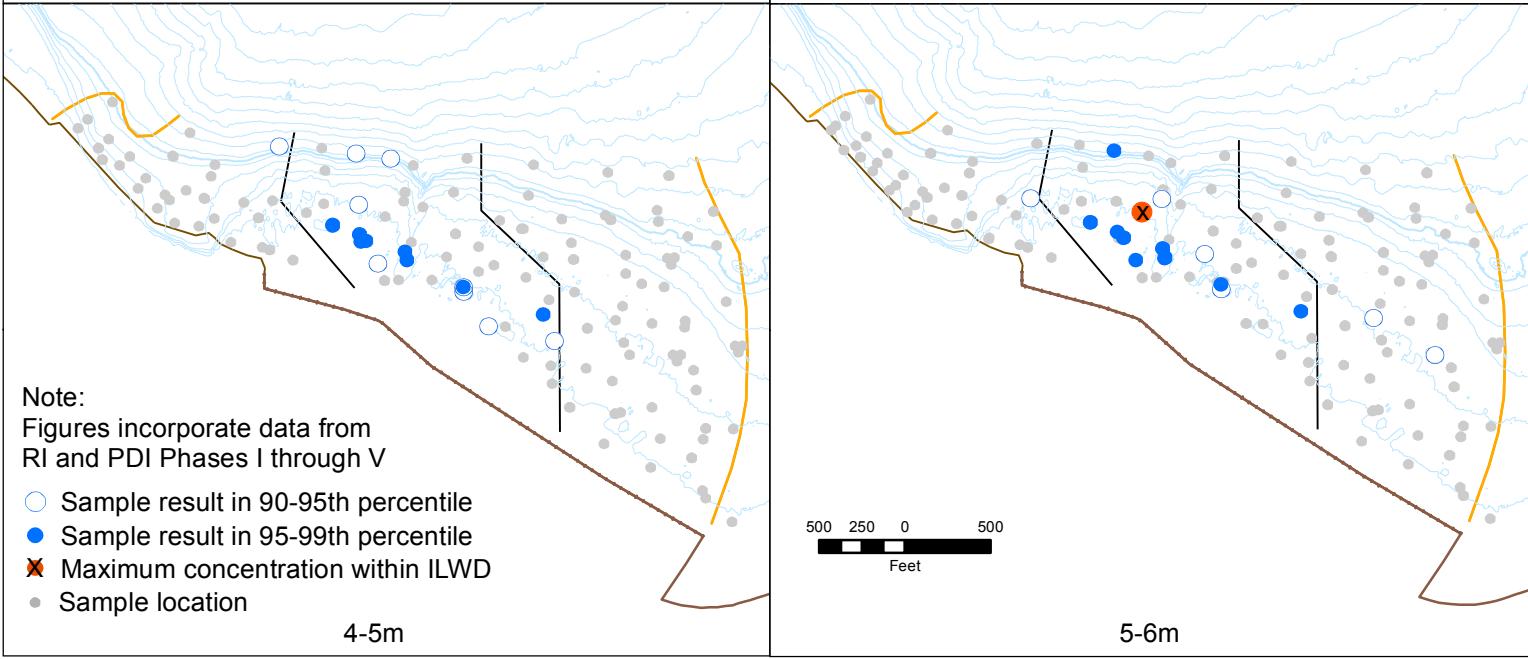
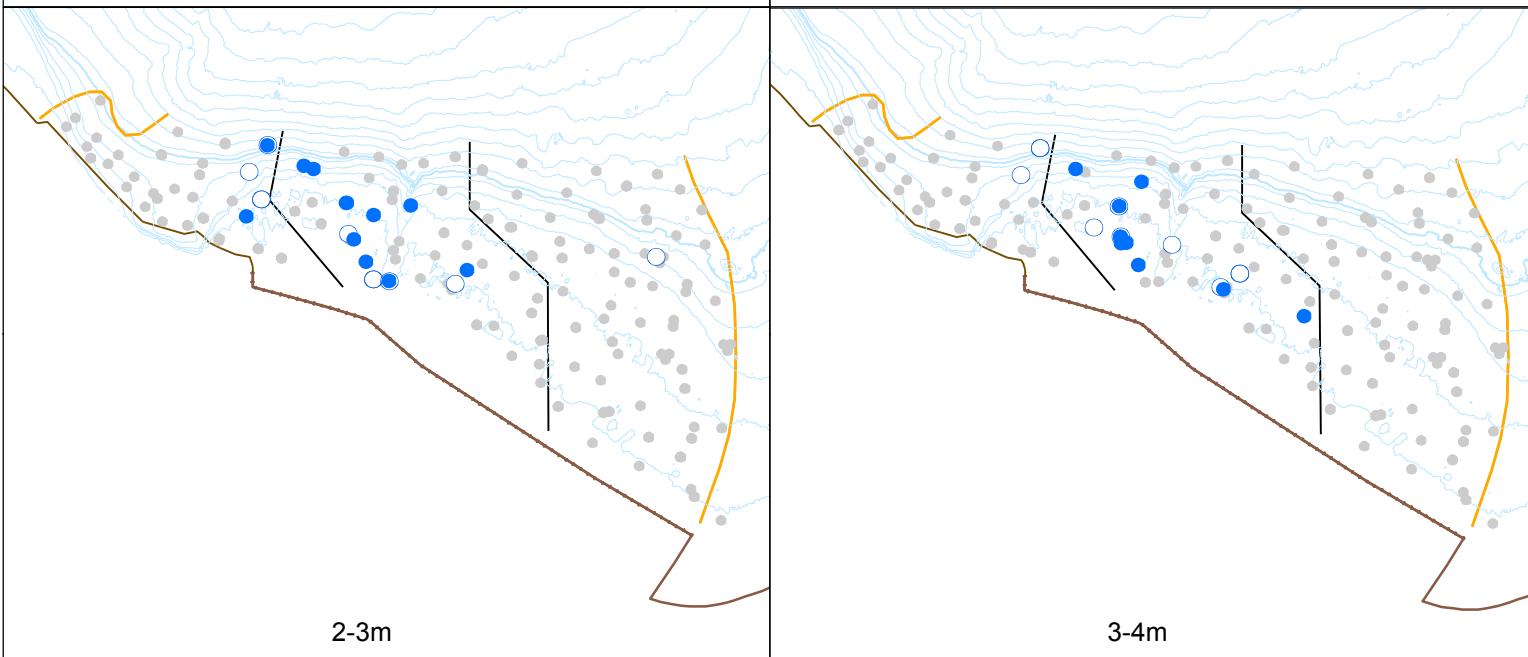
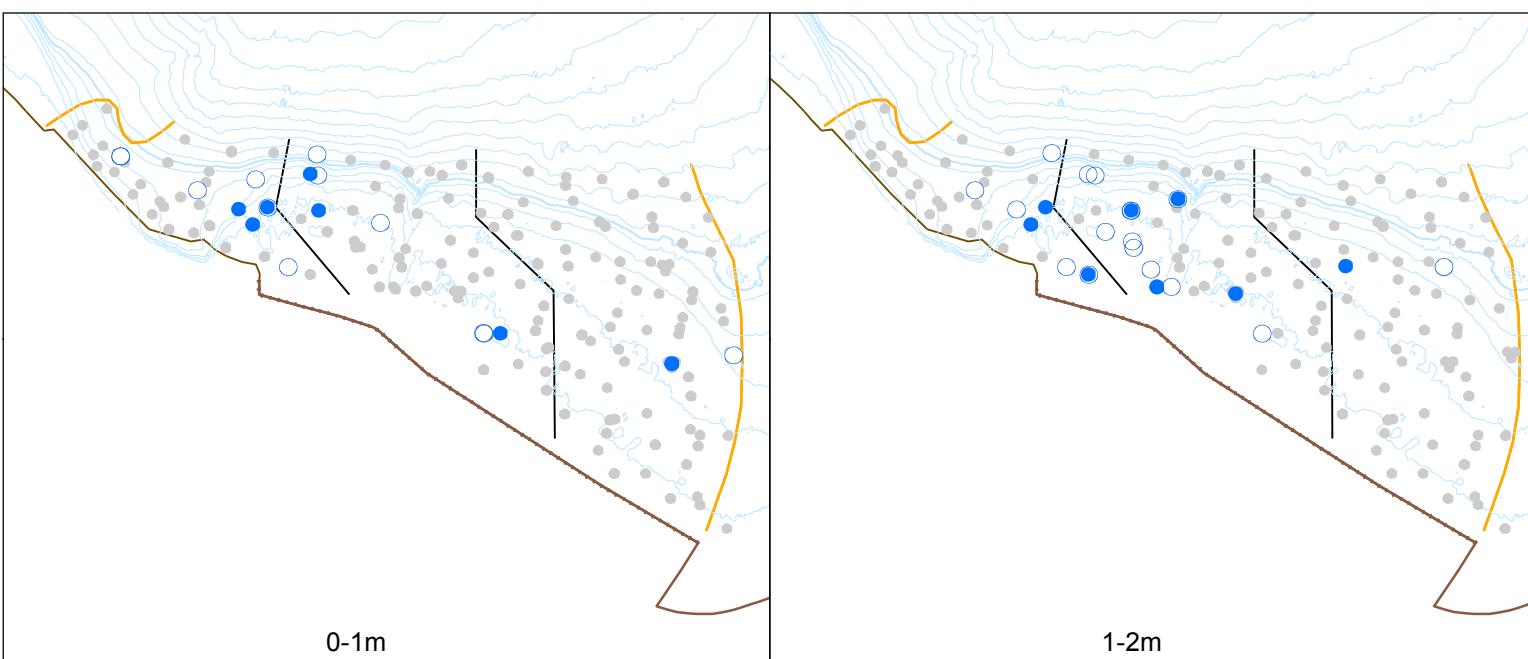
PARSONS

Naphthalene Sediment



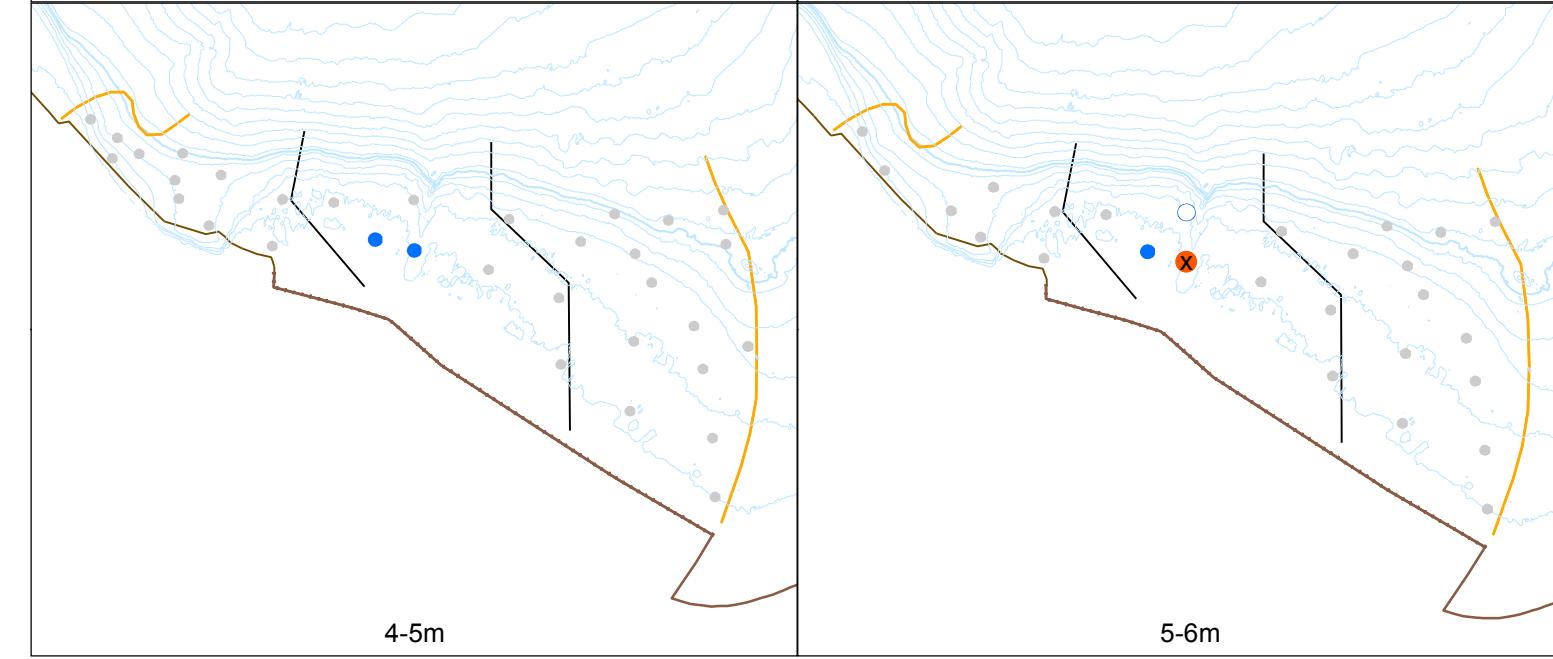
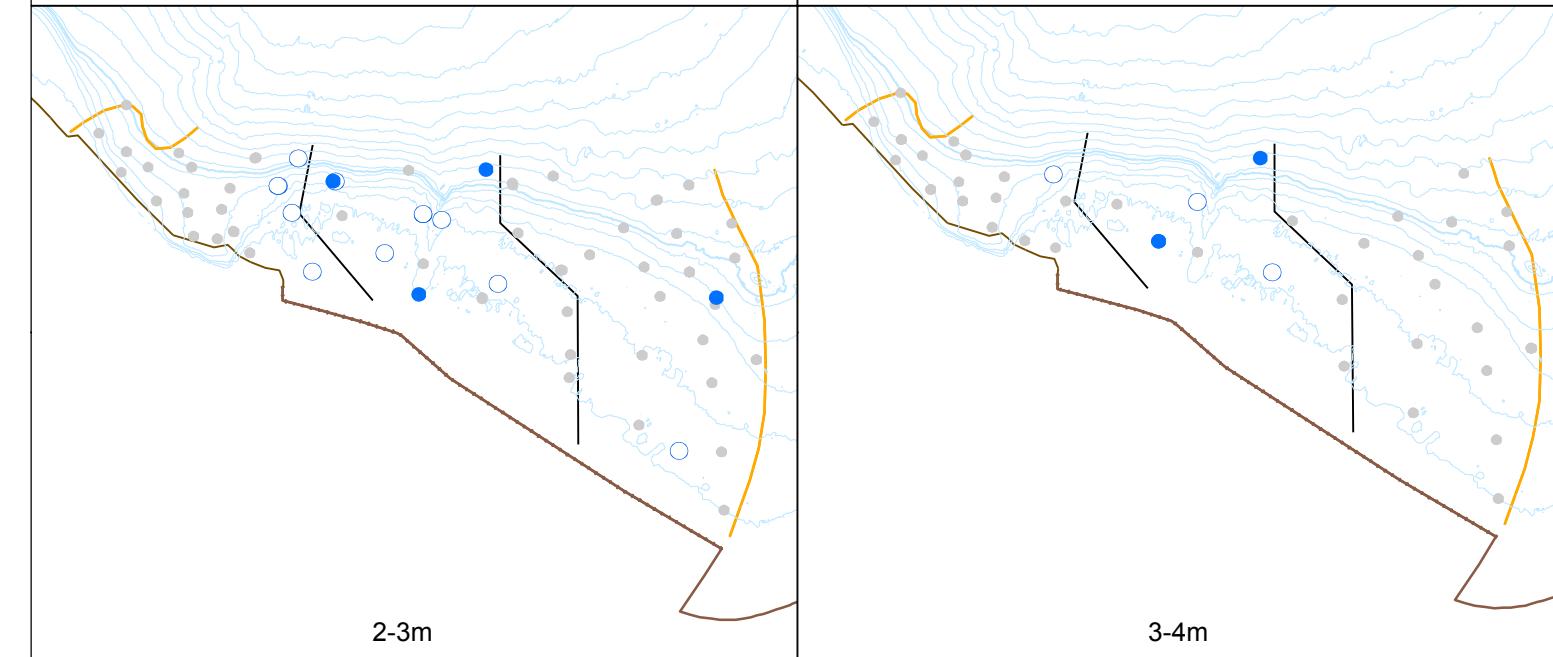
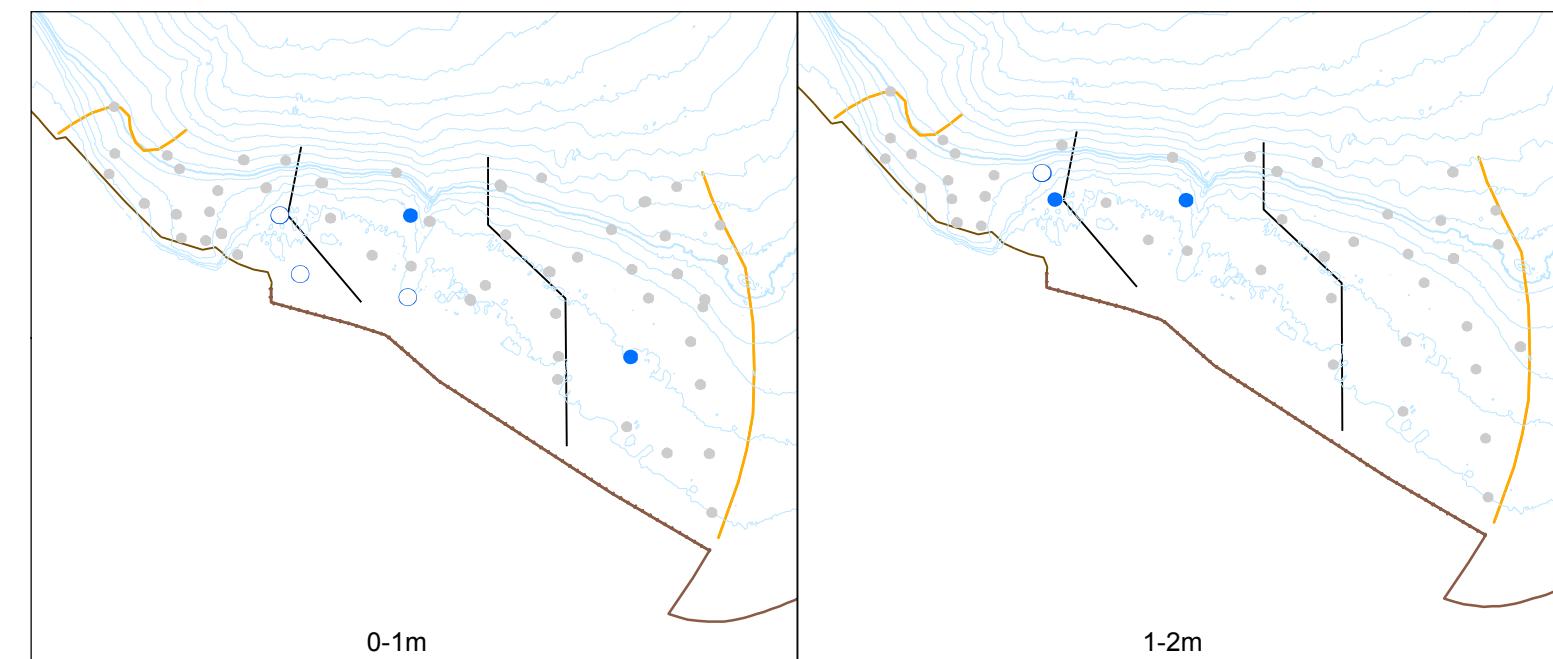
Naphthalene Porewater

Figure G-7



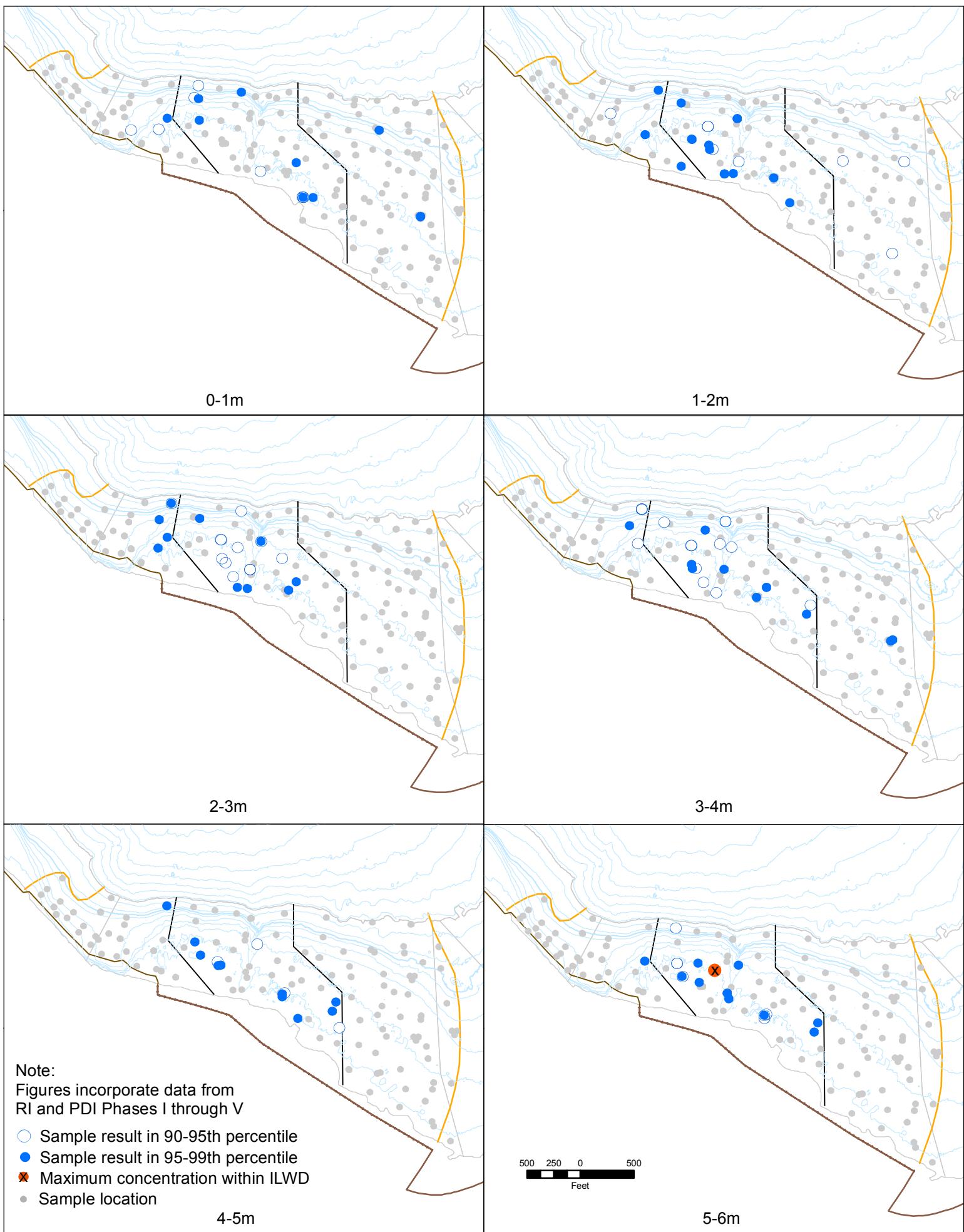
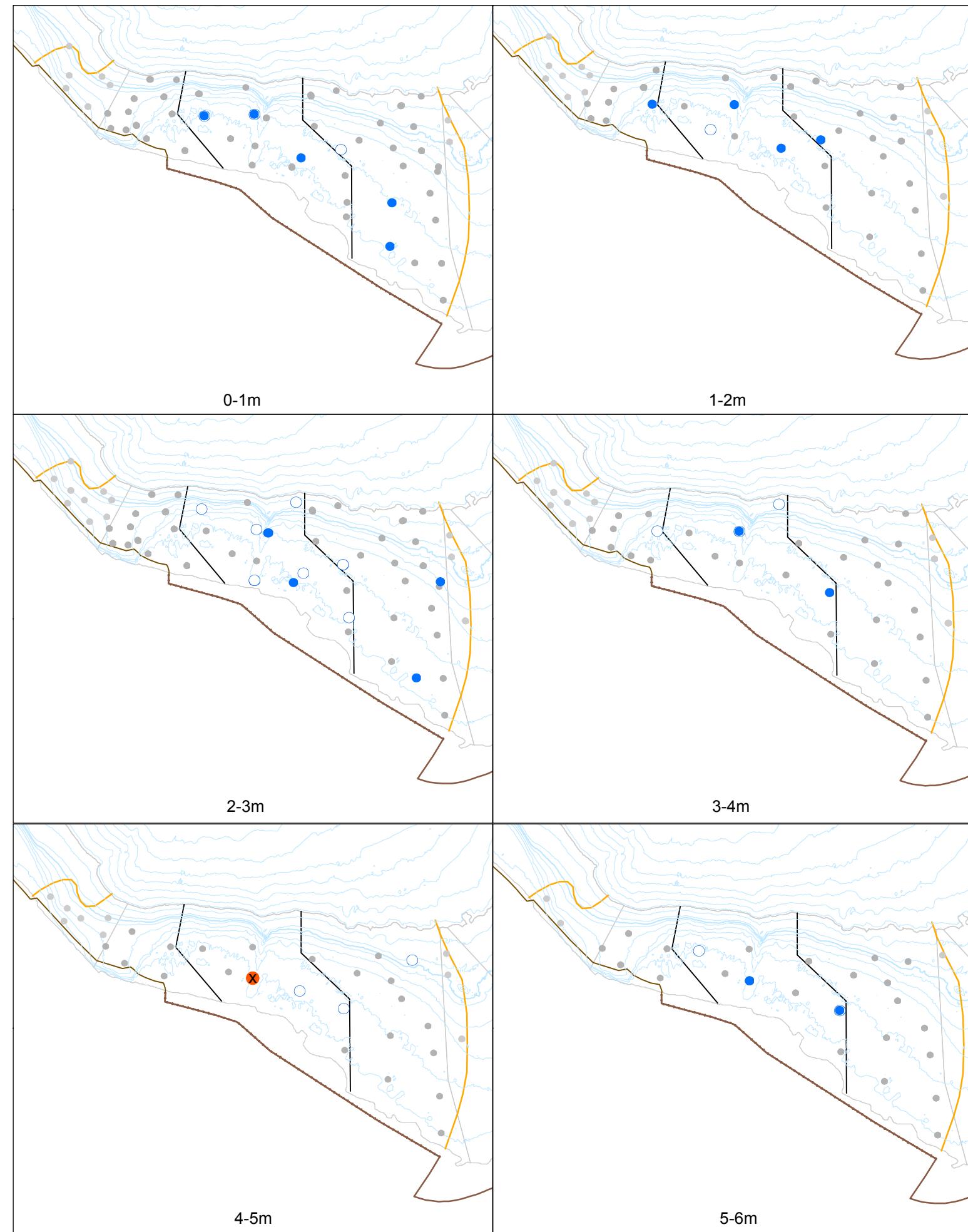
PARSONS

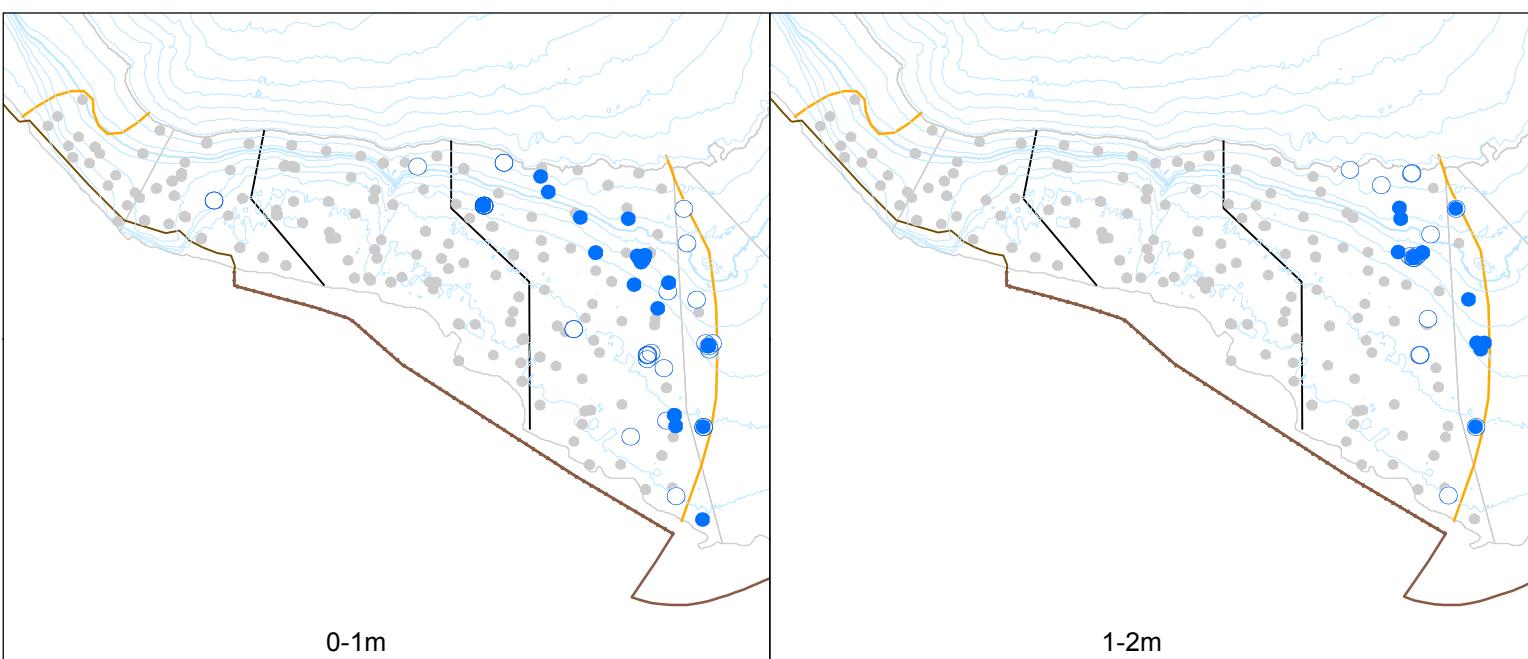
Toluene Sediment



Toluene Porewater

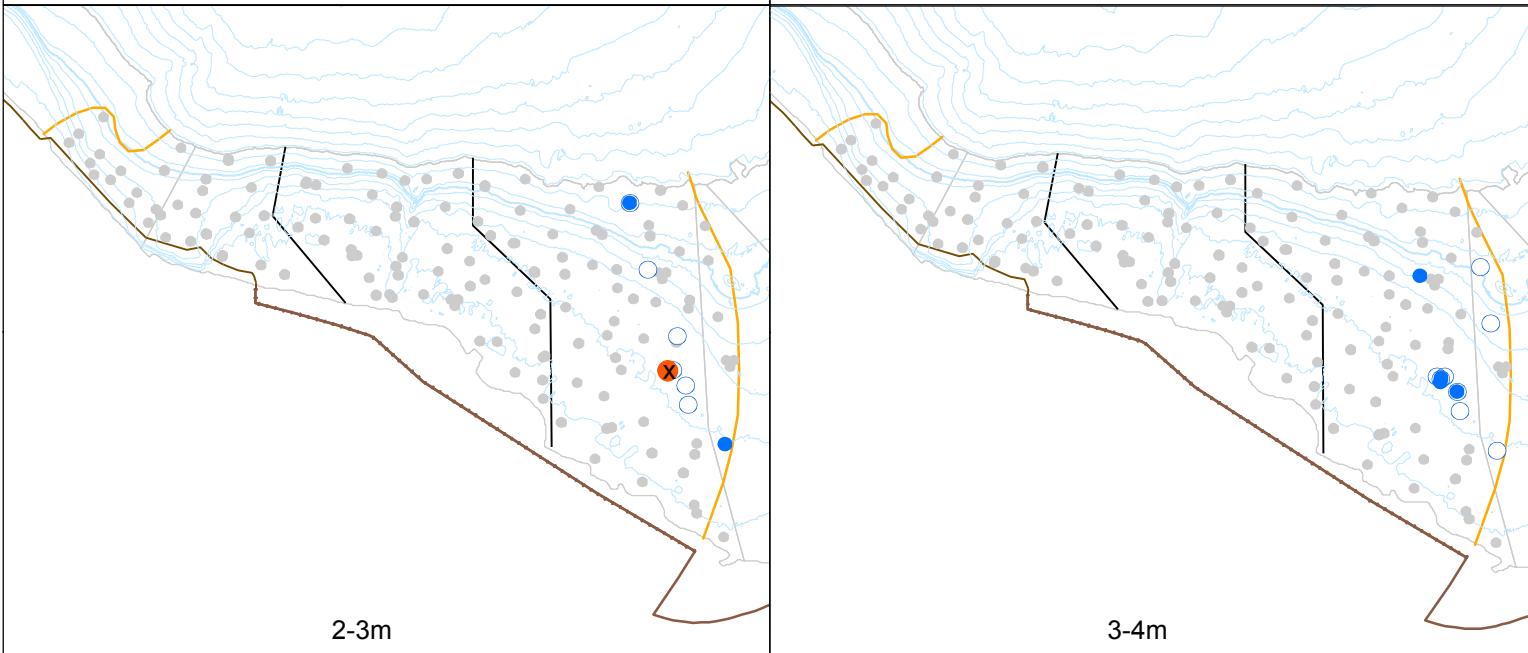
Figure G-8

**PARSONS****Xylene Sediment****Xylene Porewater****Figure G-9**



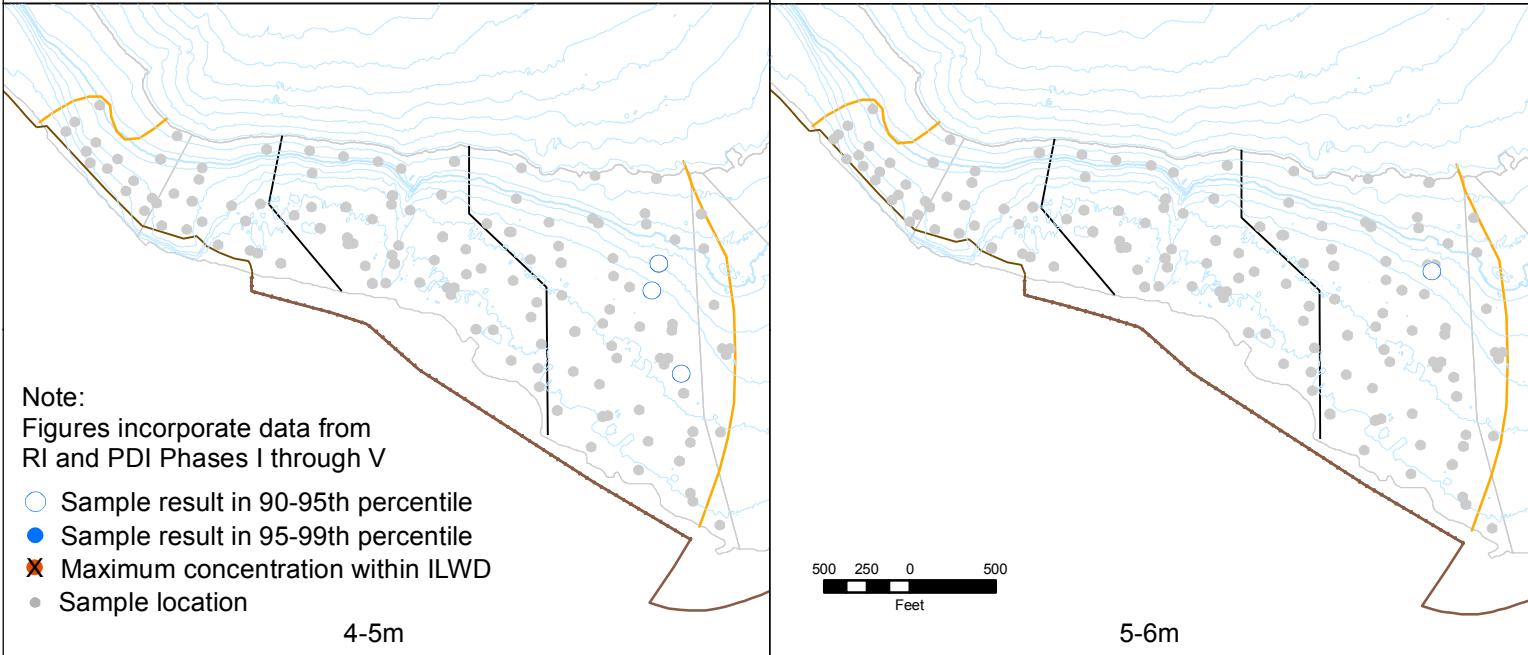
0-1m

1-2m



2-3m

3-4m

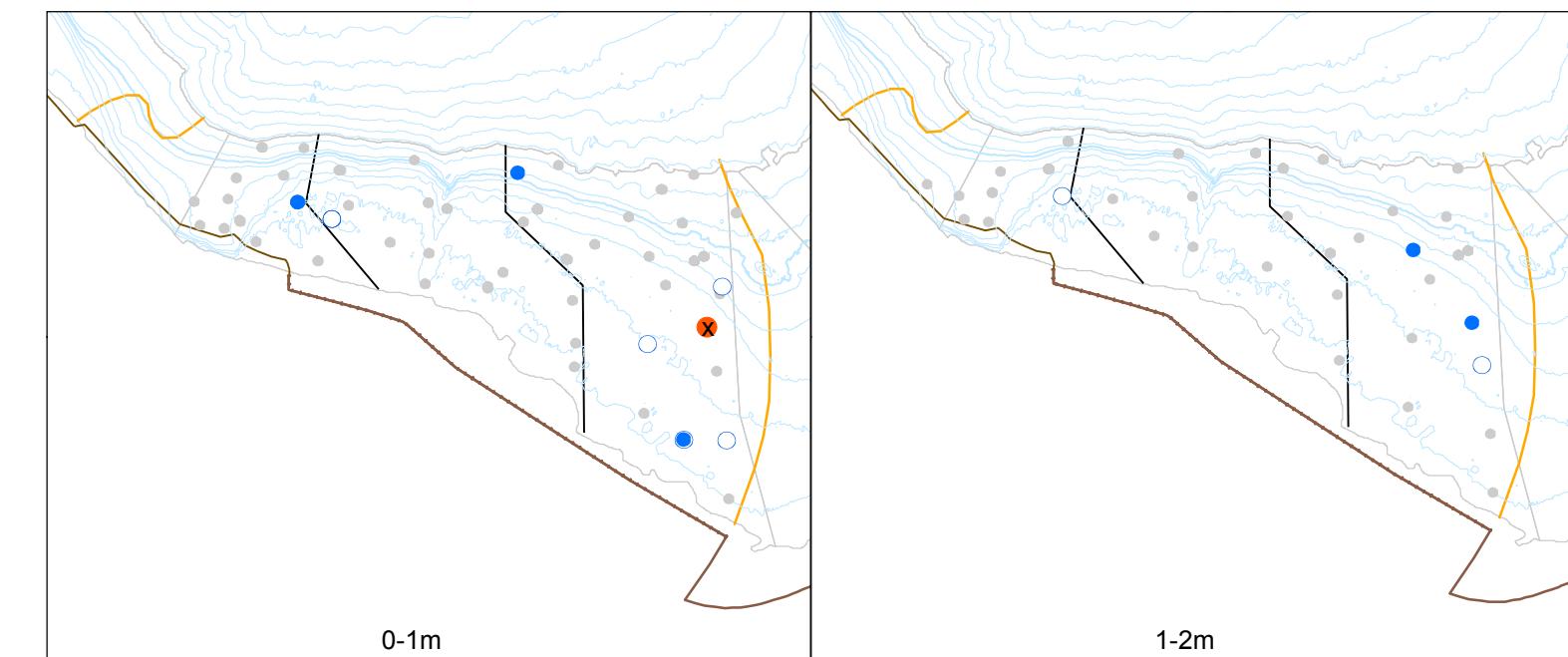


4-5m

5-6m

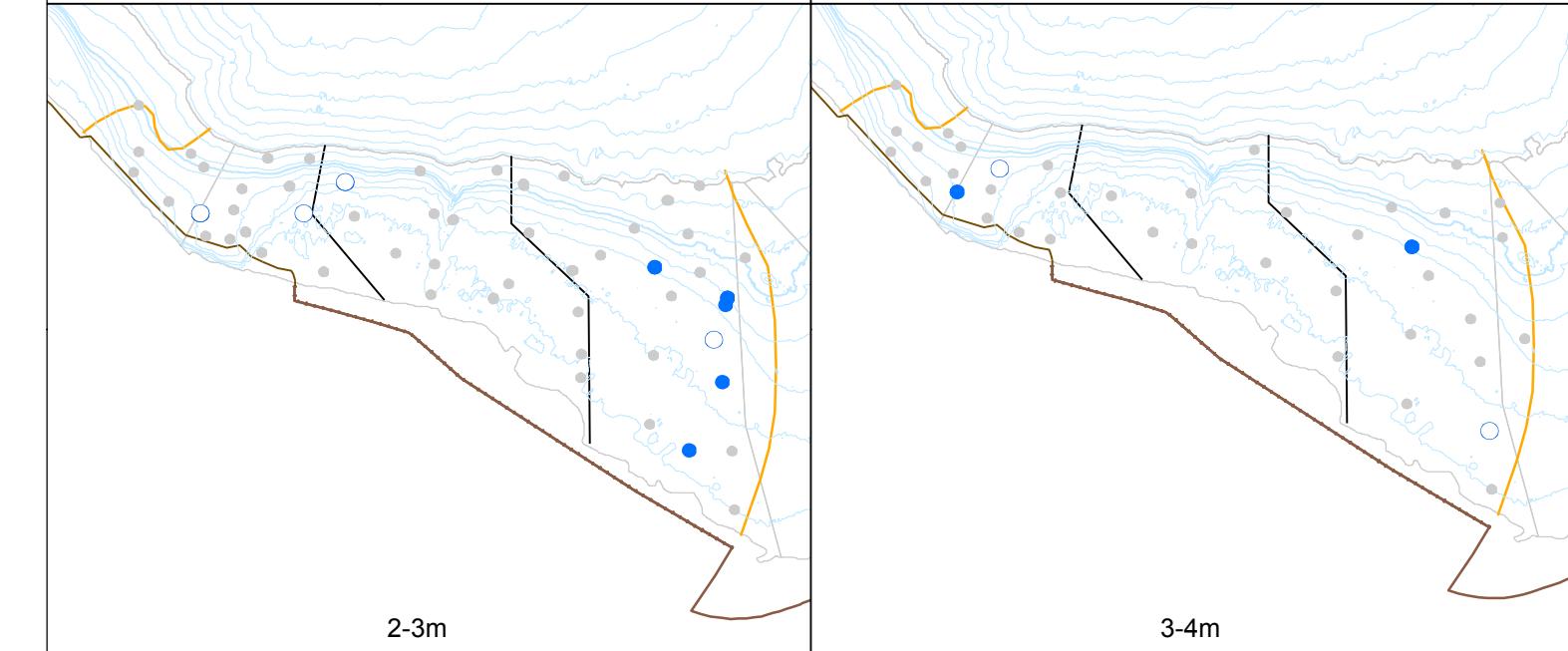
PARSONS

Mercury Sediment



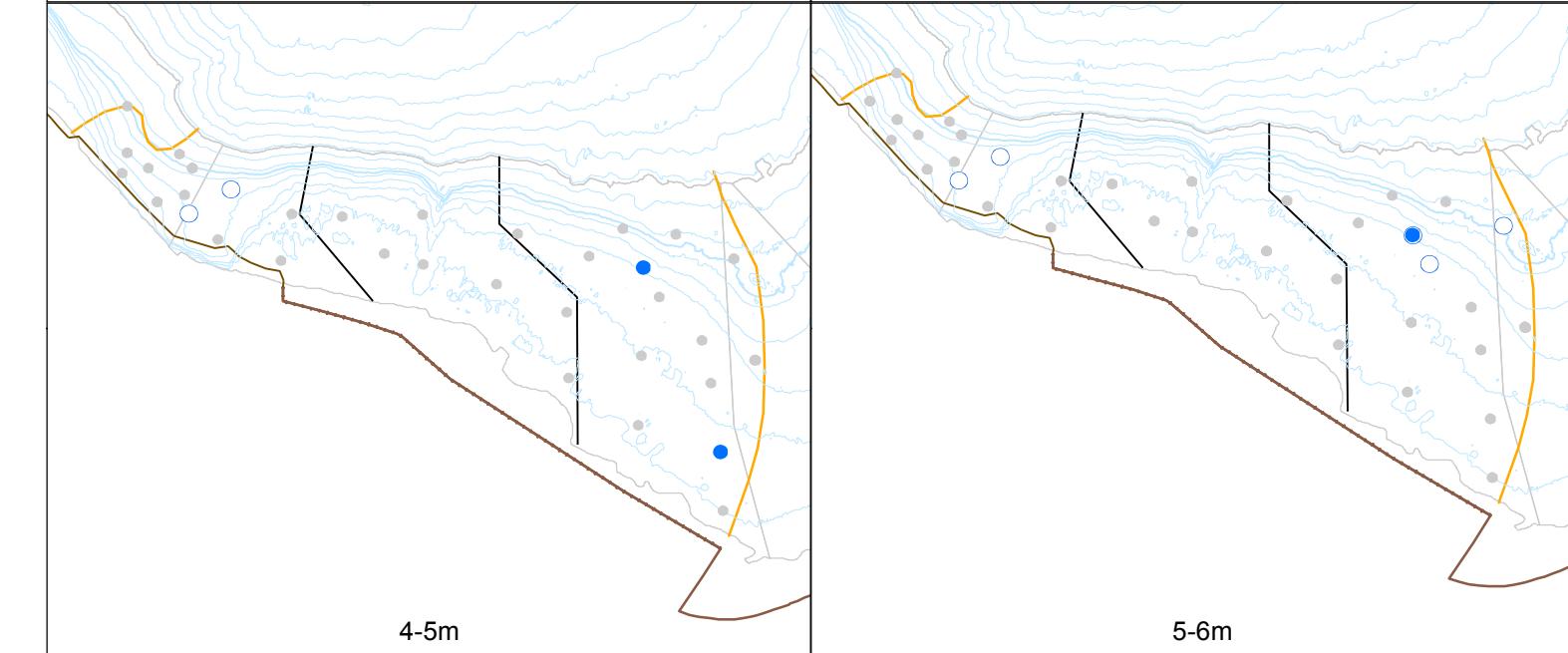
0-1m

1-2m



2-3m

3-4m



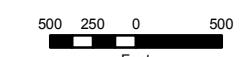
4-5m

5-6m

Mercury Porewater

Figure G-10

Note:
Figures incorporate data from
RI and PDI Phases I through V
 ○ Sample result in 90-95th percentile
 ● Sample result in 95-99th percentile
 ✕ Maximum concentration within ILWD
 • Sample location



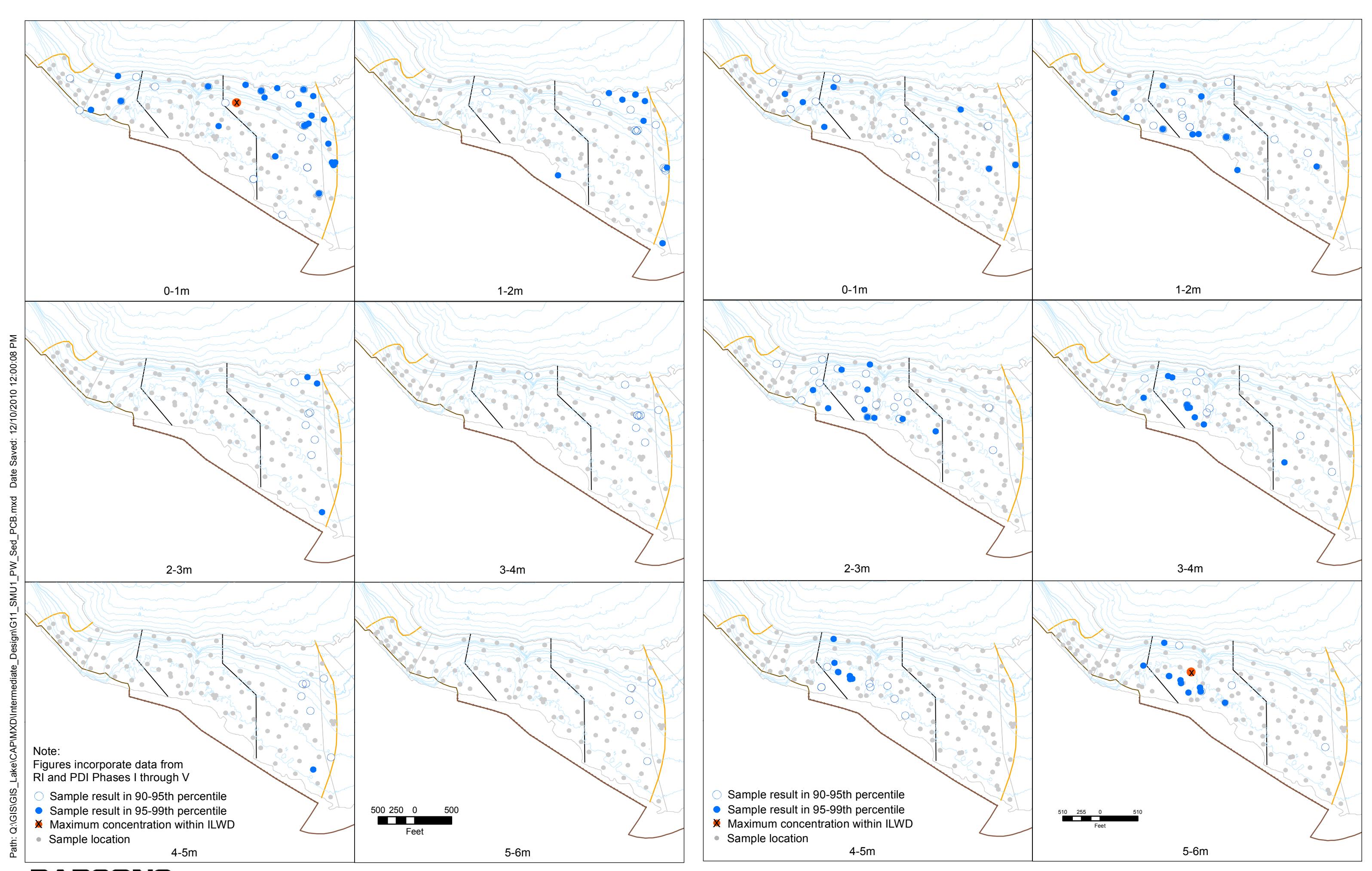
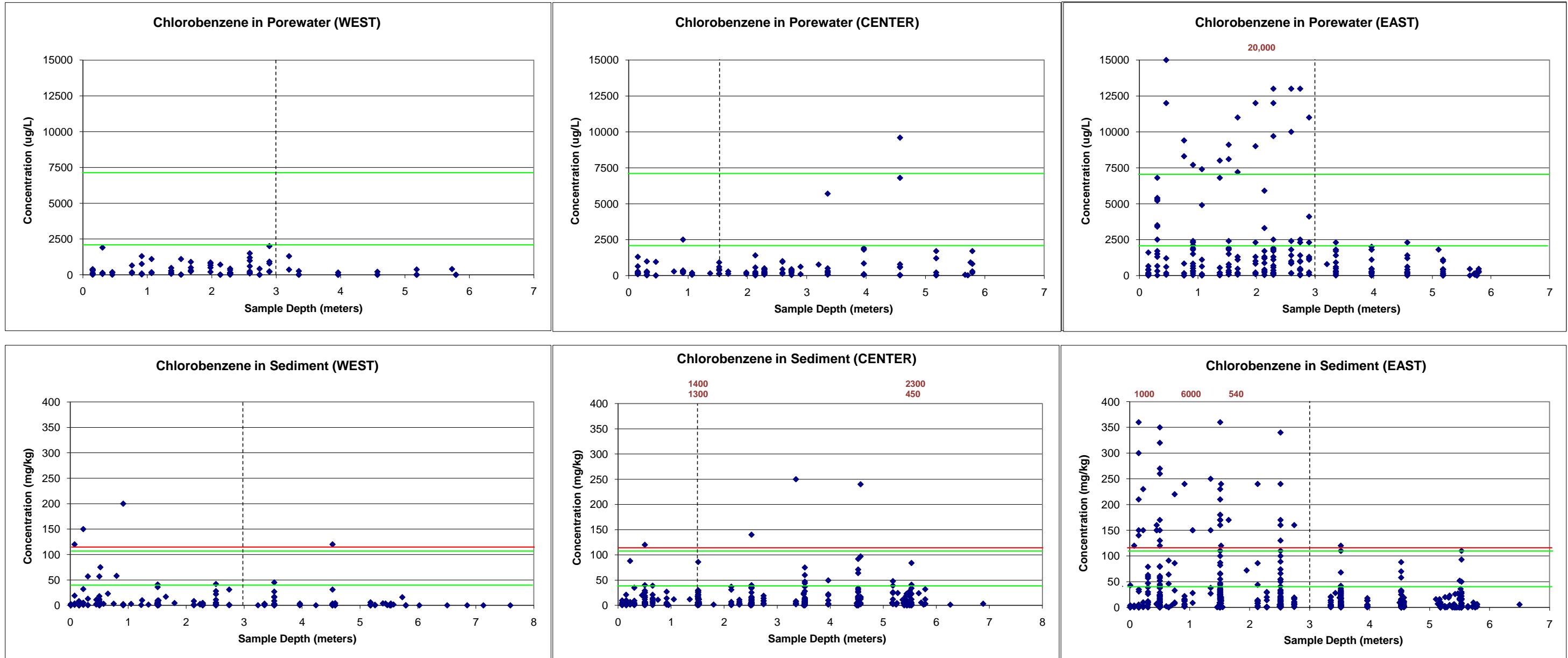


Figure G - 12. Summary of Porewater and Sediment Data for Chlorobenzene within ILWD SMUs 1 & 7



Percentile	Porewater (ug/L)
90th	2300
95th	7000
Percentile	Sediment (mg/kg)
90th	44
95th	110

Hotspot Criterion (mg/kg)	114
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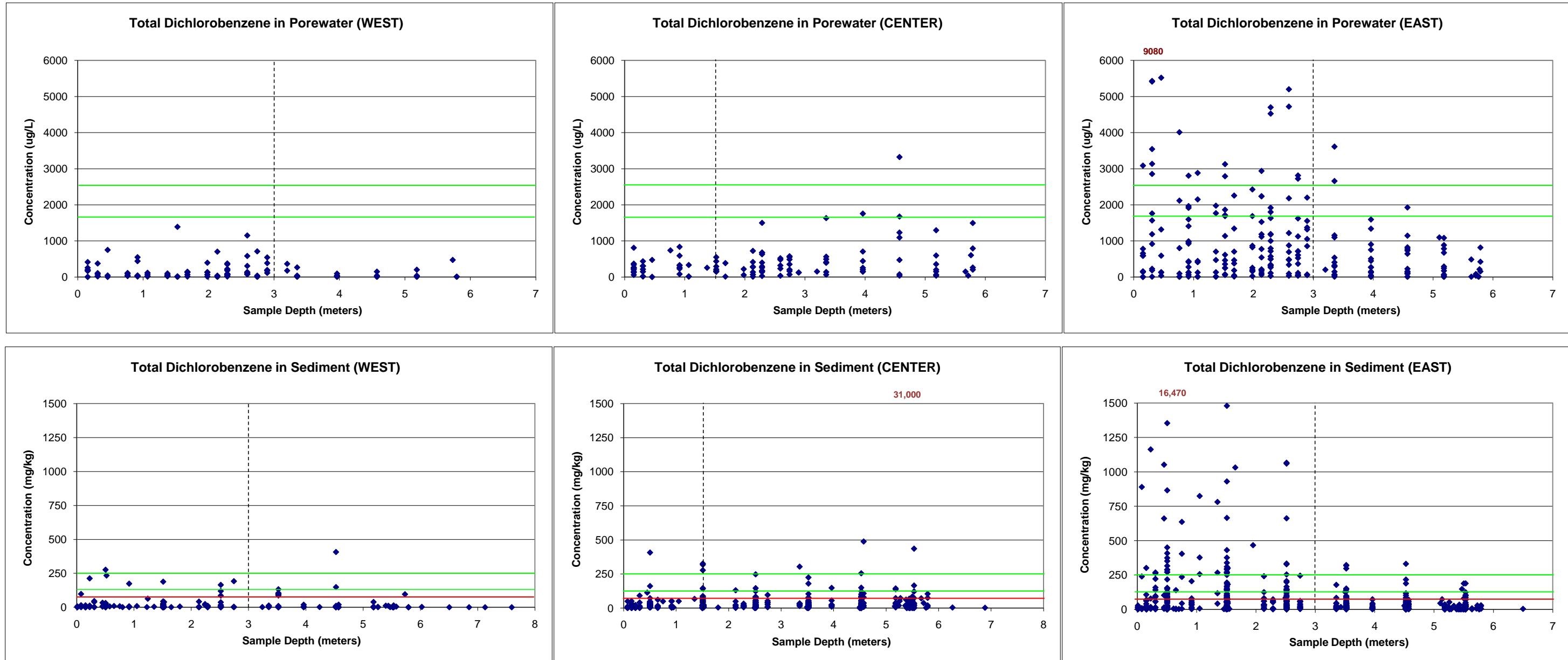
Data Presentation:

Red lines indicate hot spot criteria for sediment as listed in the ROD.
Dashed lines represent the target removal depth prior to hot spot removal.
Green lines indicate 90th and 95th percentile concentrations.
Numbers in red denote concentrations beyond the range of the scatterplots.
Figures incorporate data from RI through PDI Phase V.

Note: These figures were used to identify contaminant distribution trends, which were then used to develop target removal depths.
These removal depths will not be achieved everywhere, such as within transition zones near shore and approaching the profundal zone.
Therefore, some data points shown above the target removal depth may remain following dredging.

Notes: Non-detects are set at 1/2 the MDL.

Figure G - 13. Summary of Porewater and Sediment Data for Dichlorobenzene within ILWD SMUs 1 & 7



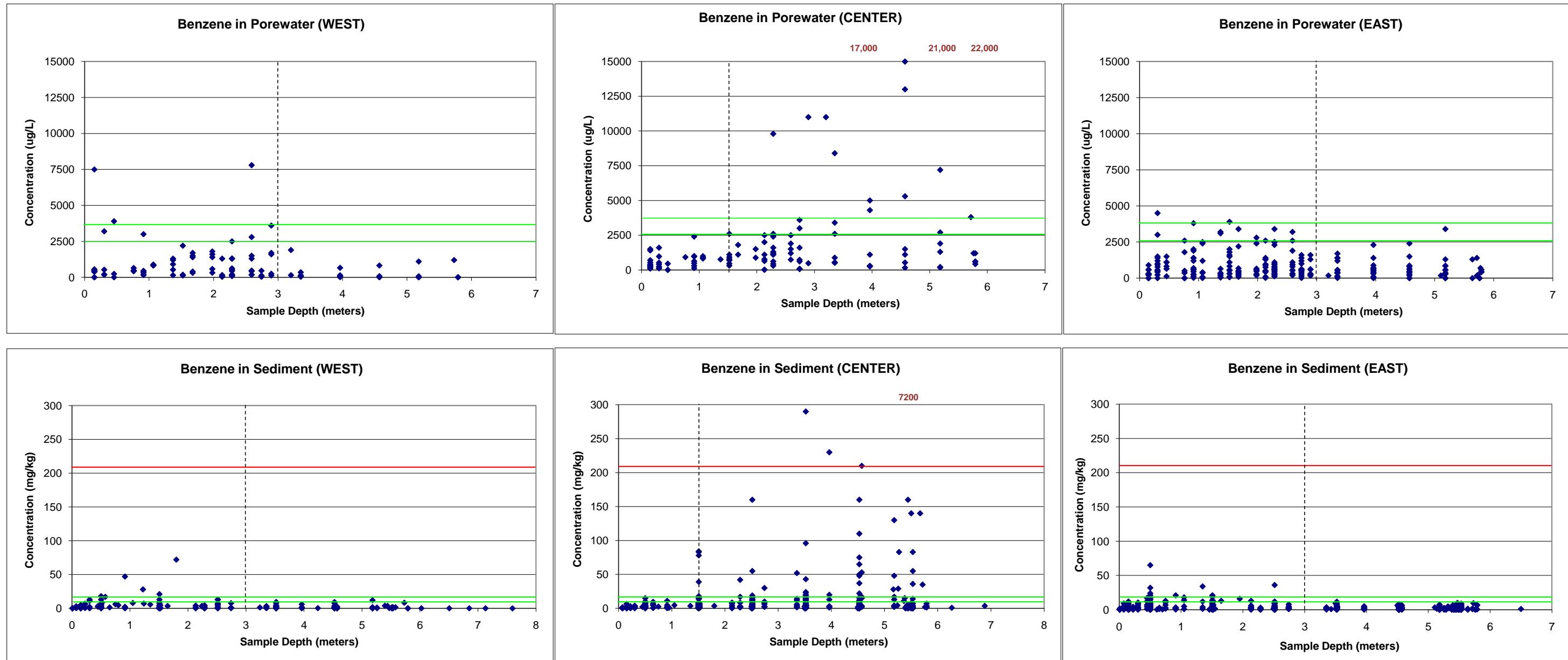
Data Presentation:

Red lines indicate hot spot criteria for sediment as listed in the ROD.
Dashed lines represent the target removal depth prior to hot spot removal.
Green lines indicate 90th and 95th percentile concentrations.
Numbers in red denote concentrations beyond the range of the scatterplots.
Figures incorporate data from RI and PDI Phases I through V.

Note: These figures were used to identify contaminant distribution trends, which were then used to develop target removal depths.
These removal depths will not be achieved everywhere, such as within transition zones near shore and approaching the profundal zone.
Therefore, some data points shown above the target removal depth may remain following dredging.

Notes: Non-detects are set at 1/2 the MDL.

Figure G - 14. Summary of Porewater and Sediment Data for Benzene within ILWD SMUs 1 & 7



Percentile	Porewater (ug/L)
90th	2500
95th	3400
Percentile	Sediment (mg/kg)
90th	11
95th	17

Hotspot Criterion (mg/kg)	208
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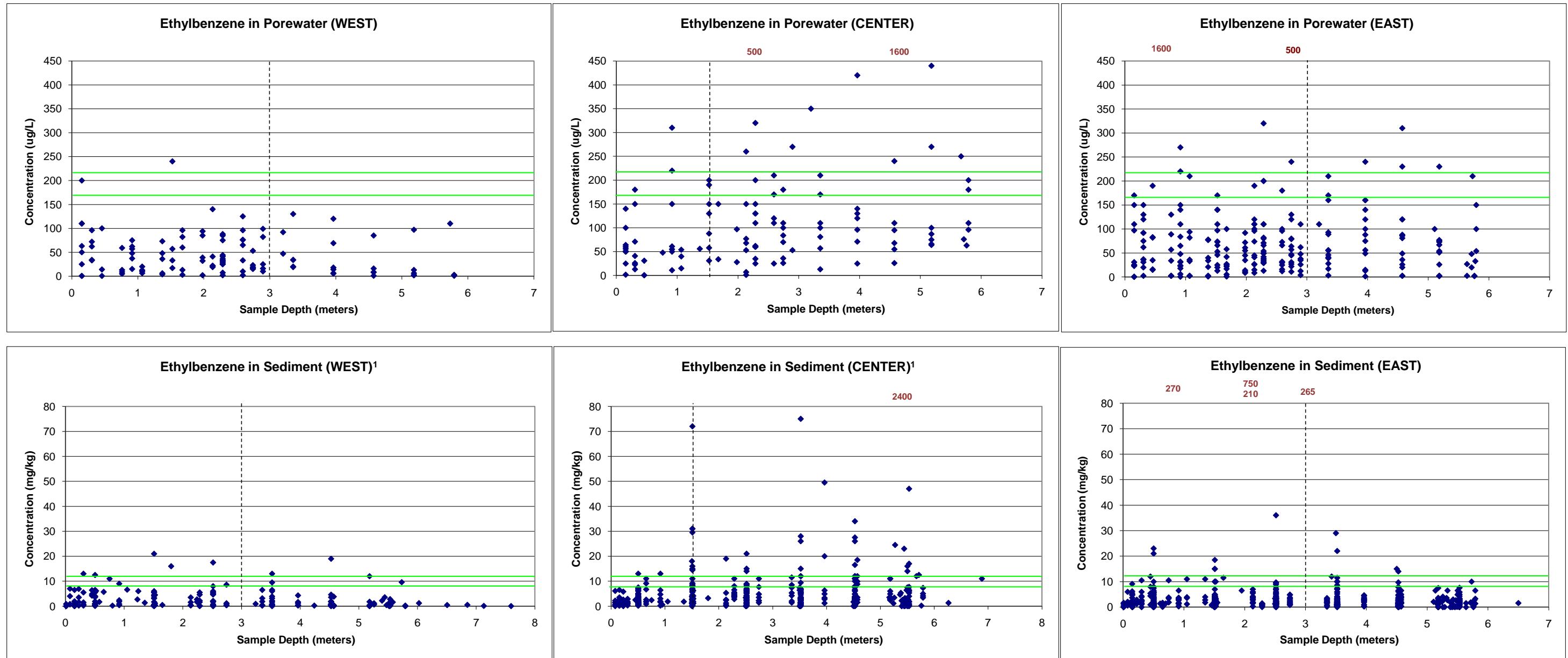
Data Presentation:

Red lines indicate hot spot criteria for sediment as listed in the ROD.
Dashed lines represent the target removal depth prior to hot spot removal.
Green lines indicate 90th and 95th percentile concentrations.
Numbers in red denote concentrations beyond the range of the scatterplots.
Figures incorporate data from RI and PDI Phases I through V.

Note: These figures were used to identify contaminant distribution trends, which were then used to develop target removal depths.
These removal depths will not be achieved everywhere, such as within transition zones near shore and approaching the profundal zone.
Therefore, some data points shown above the target removal depth may remain following dredging.

Notes: Non-detects are set at 1/2 the MDL.

Figure G - 15. Summary of Porewater and Sediment Data for Ethylbenzene within ILWD SMUs 1 & 7



Percentile	Porewater (ug/L)
90th	170
95th	220
Percentile	Sediment (mg/kg)
90th	8
95th	12

Hotspot Criterion (mg/kg)	1,655
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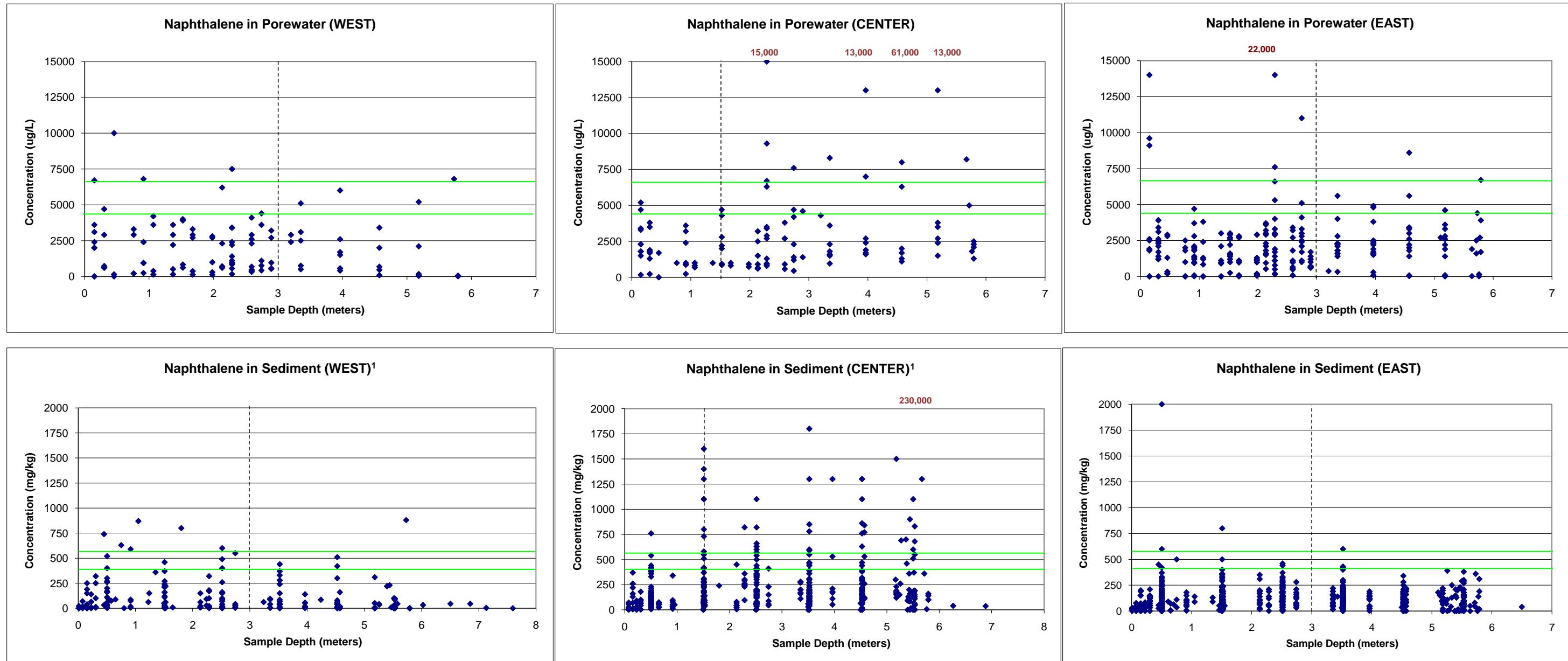
Data Presentation:

Dashed lines represent the target removal depth prior to hot spot removal.
 Green lines indicate 90th and 95th percentile concentrations.
 Numbers in red denote concentrations beyond the range of the scatterplots.
 Notes: (1) Hot spot criteria for sediment above the range of plots.
 Figures incorporate data from RI and PDI Phases I through V.

Note: These figures were used to identify contaminant distribution trends, which were then used to develop target removal depths.
 These removal depths will not be achieved everywhere, such as within transition zones near shore and approaching the profundal zone.
 Therefore, some data points shown above the target removal depth may remain following dredging.

Notes: Non-detects are set at 1/2 the MDL.

Figure G - 16. Summary of Porewater and Sediment Data for Naphthalene within ILWD SMUs 1 & 7



Percentile	Porewater (ug/L)
90th	4610
95th	6700
Percentile	Sediment (mg/kg)
90th	360
95th	526

Hotspot Criterion (mg/kg)	20,573
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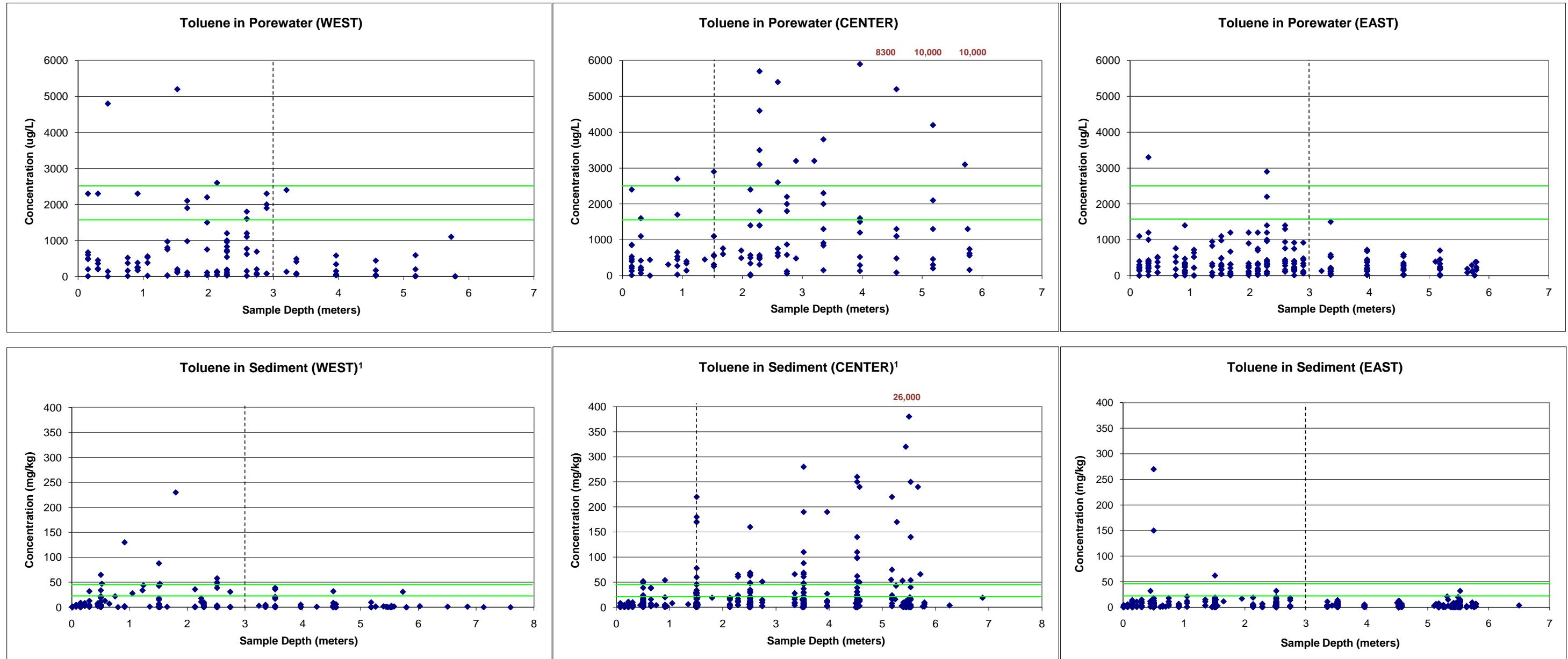
Data Presentation:

Red lines indicate hot spot criteria for sediment as listed in the ROD.
Dashed lines represent the target removal depth prior to hot spot removal.
Green lines indicate 90th and 95th percentile concentrations.
Numbers in red denote concentrations beyond the range of the scatterplots.
Notes: (1) Hot spot criteria for sediment above the range of plots.
Figures incorporate data from RI and PDI Phases I through V.

Note: These figures were used to identify contaminant distribution trends, which were then used to develop target removal depths.
These removal depths will not be achieved everywhere, such as within transition zones near shore and approaching the profundal zone.
Therefore, some data points shown above the target removal depth may remain following dredging.

Notes: Non-detects are set at 1/2 the MDL.

Figure G - 17. Summary of Porewater and Sediment Data for Toluene within ILWD SMUs 1 & 7



Percentile	Porewater
90th	1600
95th	2500
Percentile	Sediment
90th	21
95th	47

Hotspot Criterion 2,626

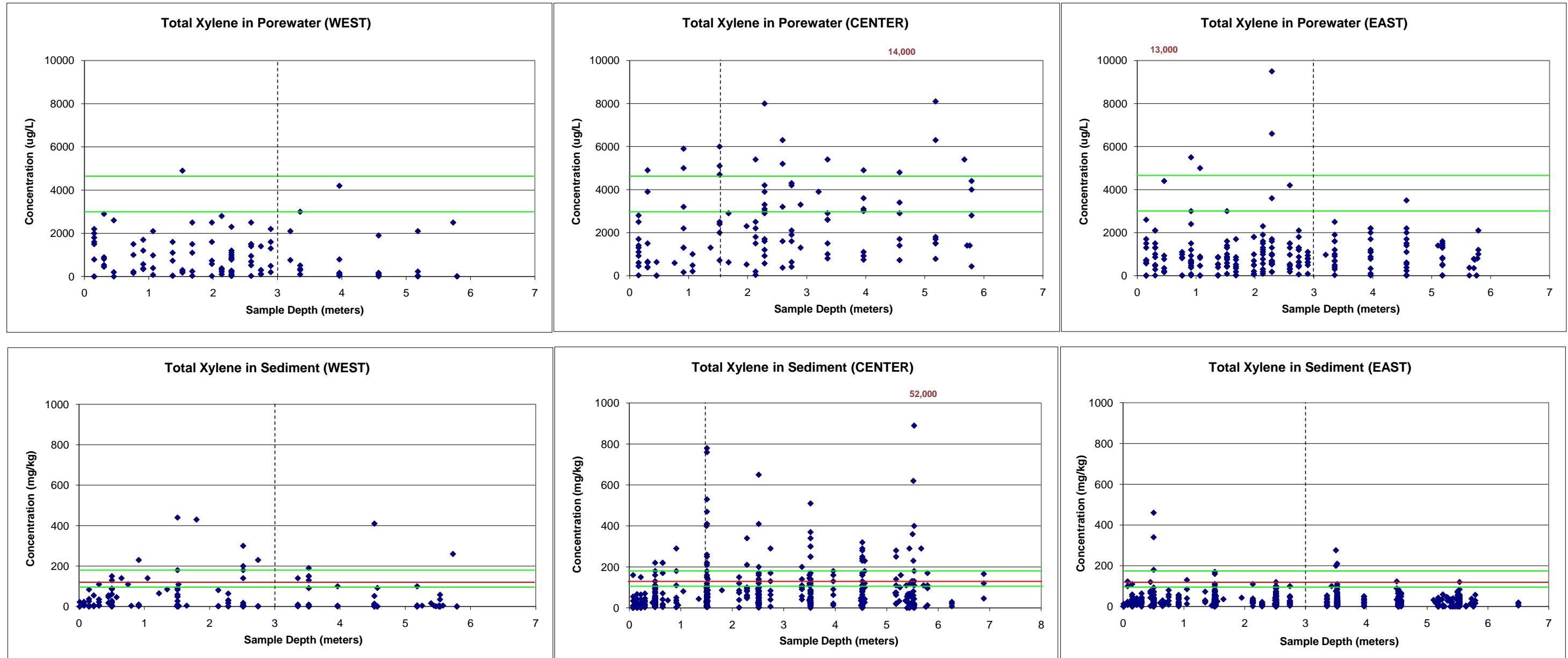
Data Presentation:

Red lines indicate hot spot criteria for sediment as listed in the ROD.
Dashed lines represent the target removal depth prior to hot spot removal.
Green lines indicate 90th and 95th percentile concentrations.
Numbers in red denote concentrations beyond the range of the scatterplots.
Notes: (1) Hot spot criteria for sediment above the range of plots.
Figures incorporate data from RI and PDI Phases I through V.

Note: These figures were used to identify contaminant distribution trends, which were then used to develop target removal depths.
These removal depths will not be achieved everywhere, such as within transition zones near shore and approaching the profundal zone.
Therefore, some data points shown above the target removal depth may remain following dredging.

Notes: Non-detects are set at 1/2 the MDL.

Figure G - 18. Summary of Porewater and Sediment Data for Xylene within ILWD SMUs 1 & 7



Percentile	Porewater (ug/L)
90th	3000
95th	4550
Percentile	Sediment (mg/kg)
90th	127
95th	180

Hotspot Criterion (mg/kg)	142
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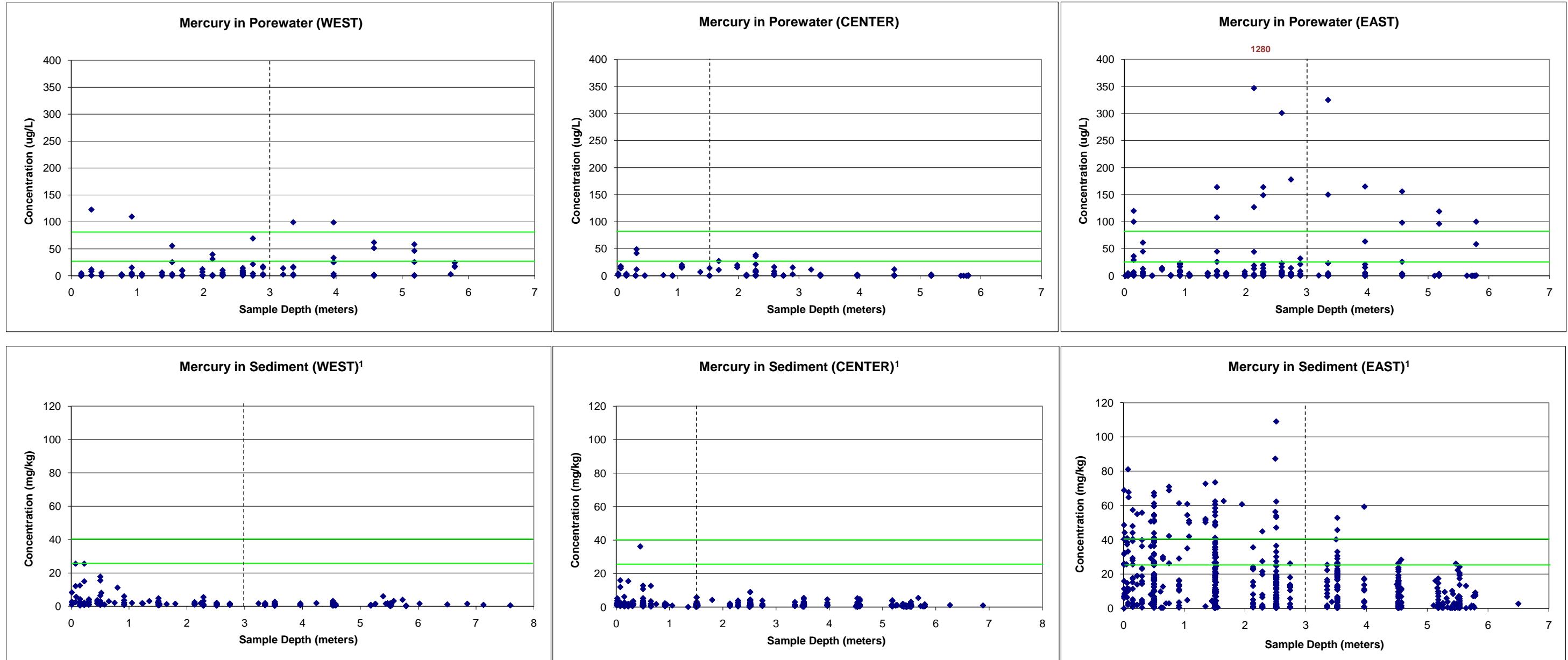
Data Presentation:

Red lines indicate hot spot criteria for sediment as listed in the ROD.
Dashed lines represent the target removal depth prior to hot spot removal.
Green lines indicate 90th and 95th percentile concentrations.
Numbers in red denote concentrations beyond the range of the scatterplots.
Figures incorporate data from RI and PDI Phases I through V.

Note: These figures were used to identify contaminant distribution trends, which were then used to develop target removal depths.
These removal depths will not be achieved everywhere, such as within transition zones near shore and approaching the profundal zone.
Therefore, some data points shown above the target removal depth may remain following dredging.

Notes: Non-detects are set at 1/2 the MDL.

Figure G - 19. Summary of Porewater and Sediment Data for Mercury within ILWD SMUs 1 & 7



Percentile	Porewater (ug/L)
90th	26
95th	79
Percentile	Sediment (mg/kg)
90th	26
95th	40

Hotspot Criterion (mg/kg)	2,924
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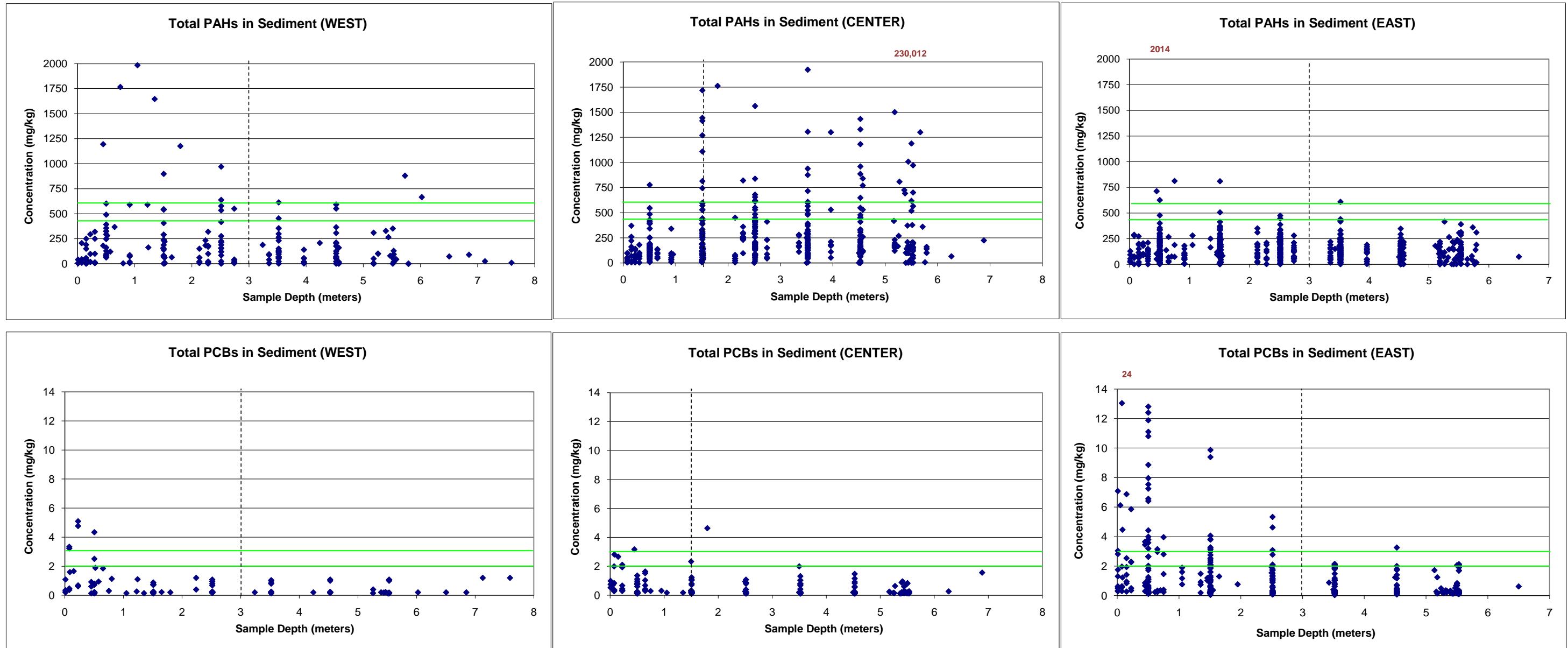
Data Presentation:

Dashed lines represent the target removal depth prior to hot spot removal.
 Green lines indicate 90th and 95th percentile concentrations.
 Numbers in red denote concentrations beyond the range of the scatterplots.
 Notes: (1) Hot spot criteria for sediment above the range of plots.
 Figures incorporate data from RI and PDI Phases I through V.

Note: These figures were used to identify contaminant distribution trends, which were then used to develop target removal depths.
 These removal depths will not be achieved everywhere, such as within transition zones near shore and approaching the profundal zone.
 Therefore, some data points shown above the target removal depth may remain following dredging.

Notes: Non-detects are set at 1/2 the MDL.

Figure G - 20. Summary of Sediment Data for PAHs and PCBs within ILWD SMUs 1 & 7



Percentile	Total PAHs in Sediment (mg/kg)
90th	401
95th	600
Percentile	Total PCBs in Sediment (mg/kg)
90th	2
95th	3

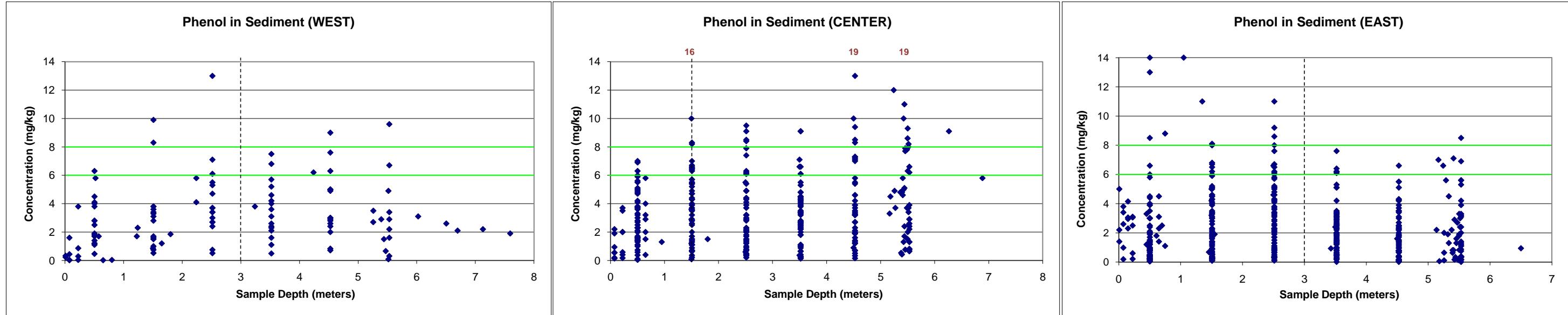
Data Presentation:

Dashed lines represent the target removal depth prior to hot spot removal.
Green lines indicate 90th and 95th percentile concentrations.
Numbers in red denote concentrations beyond the range of the scatterplots.
Figures incorporate data from RI and PDI Phases I through V.

Note: These figures were used to identify contaminant distribution trends, which were then used to develop target removal depths.
These removal depths will not be achieved everywhere, such as within transition zones near shore and approaching the profundal zone.
Therefore, some data points shown above the target removal depth may remain following dredging.

Notes: Non-detects are set at 1/2 the MDL.

Figure G - 21. Summary of Sediment Data for Phenol within ILWD SMUs 1 & 7



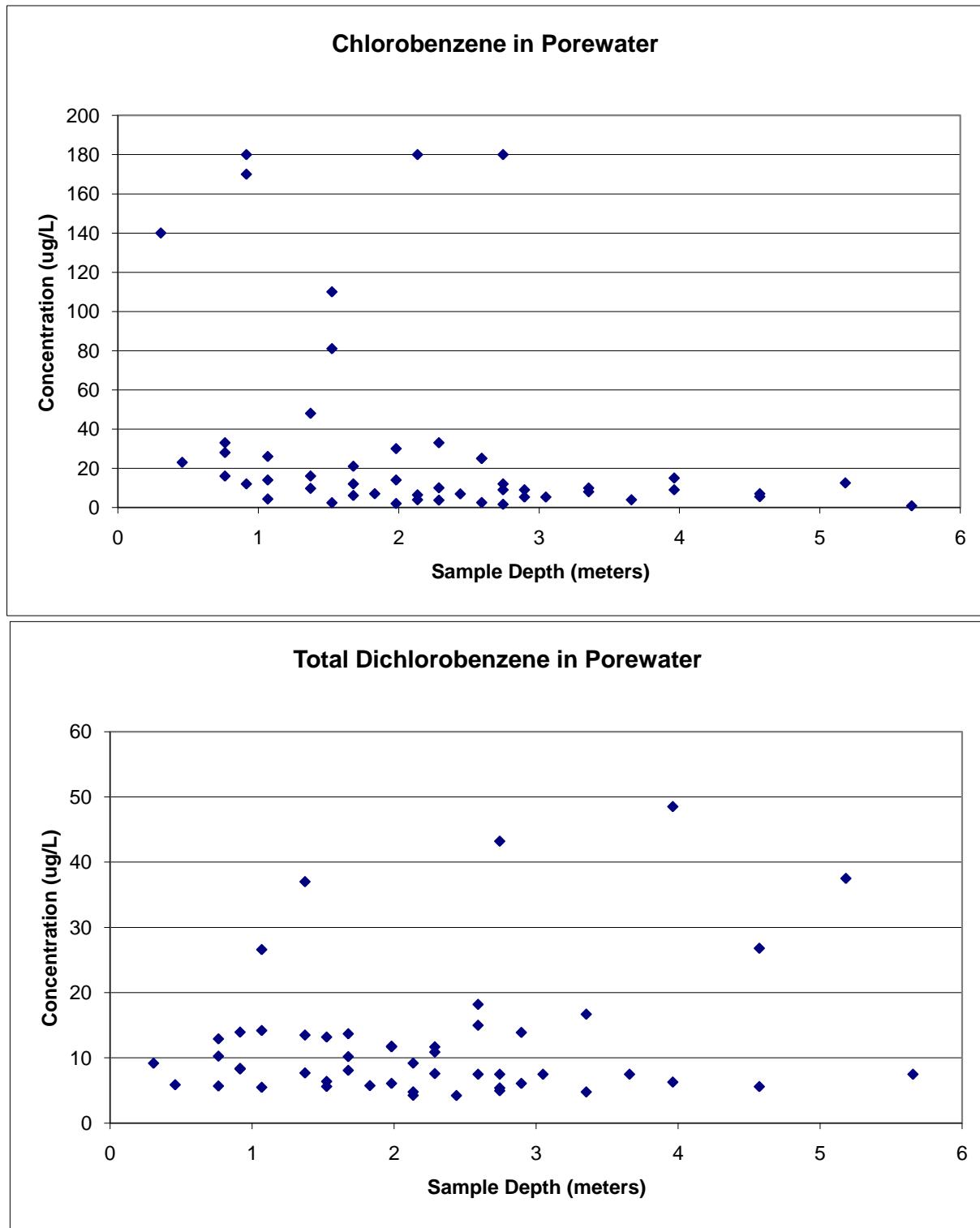
Percentile	Sediment (mg/kg)
90th	6
95th	8

Data Presentation:

Dashed lines represent the target removal depth prior to hot spot removal.
Green lines indicate 90th and 95th percentile concentrations.
Numbers in red denote concentrations beyond the range of the scatterplots.
Figures incorporate data from RI and PDI Phases I through V.

Note: These figures were used to identify contaminant distribution trends, which were then used to develop target removal depths.
These removal depths will not be achieved everywhere, such as within transition zones near shore and approaching the profundal zone.
Therefore, some data points shown above the target removal depth may remain following dredging.

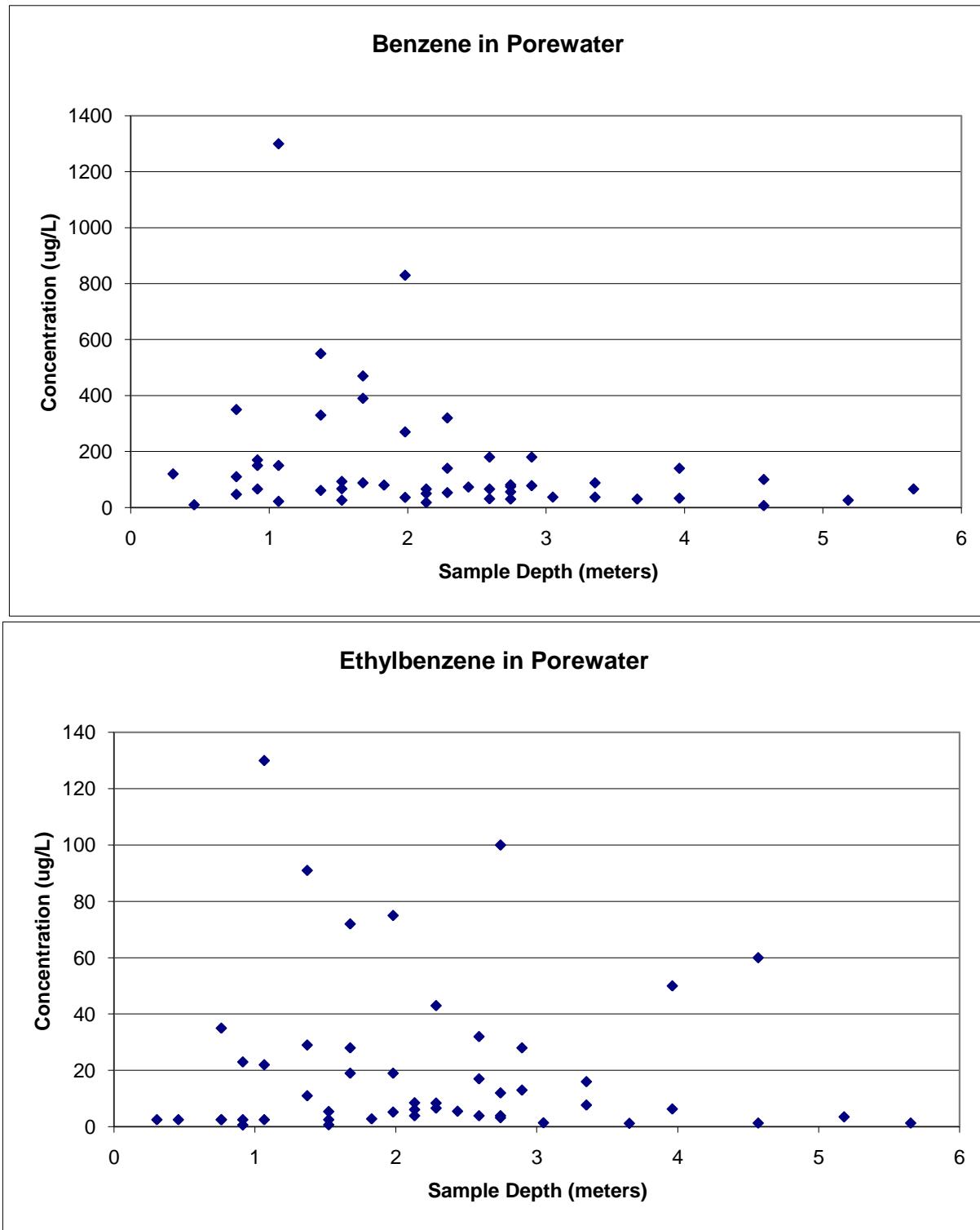
Notes: Non-detects are set at 1/2 the MDL.

Figure G-22. SMU2 Porewater Data within ILWD

Notes: All concentrations shown on the plots are below the 90th percentile values for SMUs 1 & 7.

Non-detects were set at 1/2 the MDL. Plots incorporate data from PDI Phases I through V.

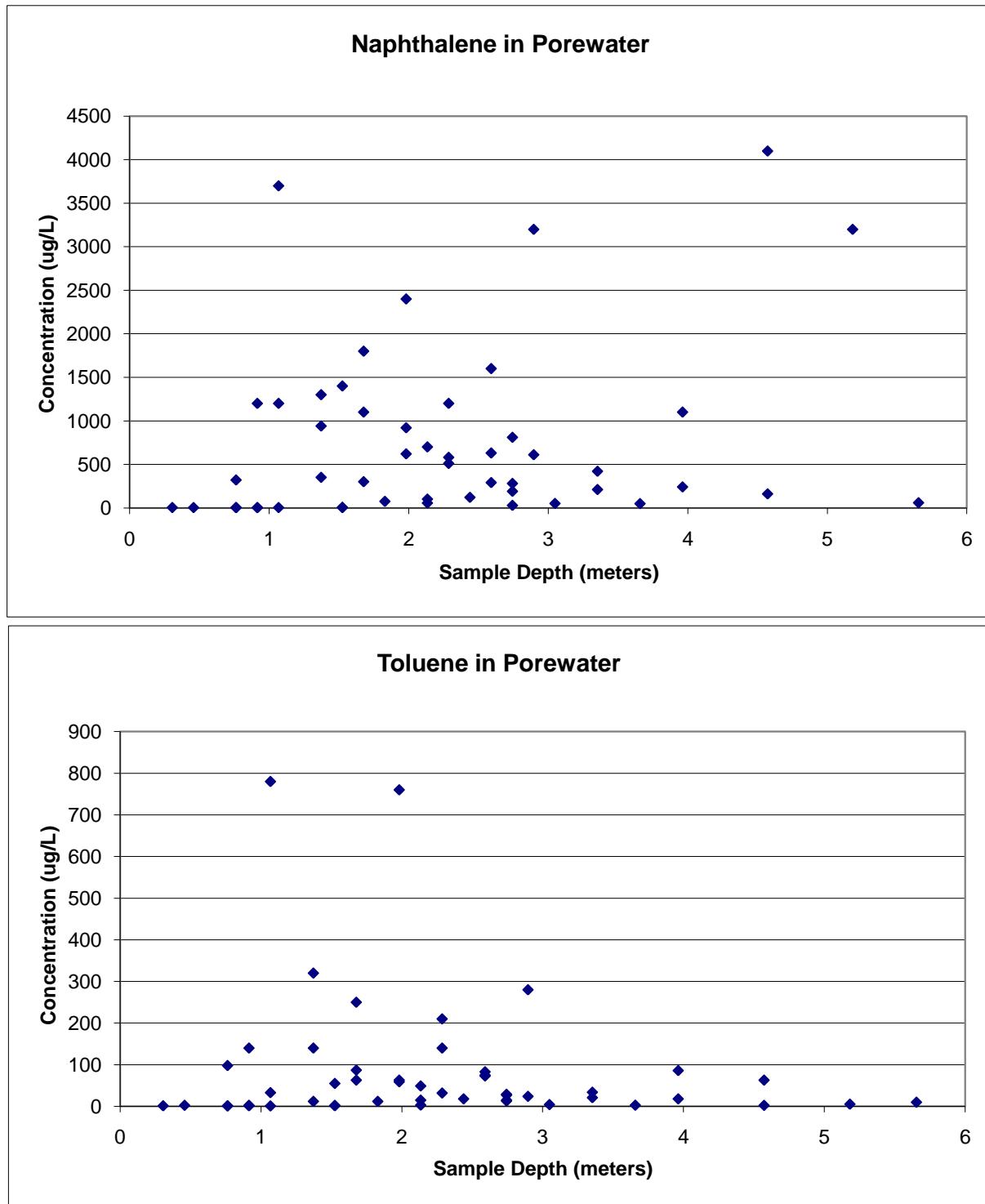
Figure G-22. SMU2 Porewater Data within ILWD (continued)



Notes: All concentrations shown on the plots are below the 90th percentile values for SMUs 1 & 7.

Non-detects were set at 1/2 the MDL. Plots incorporate data from PDI Phases I through V.

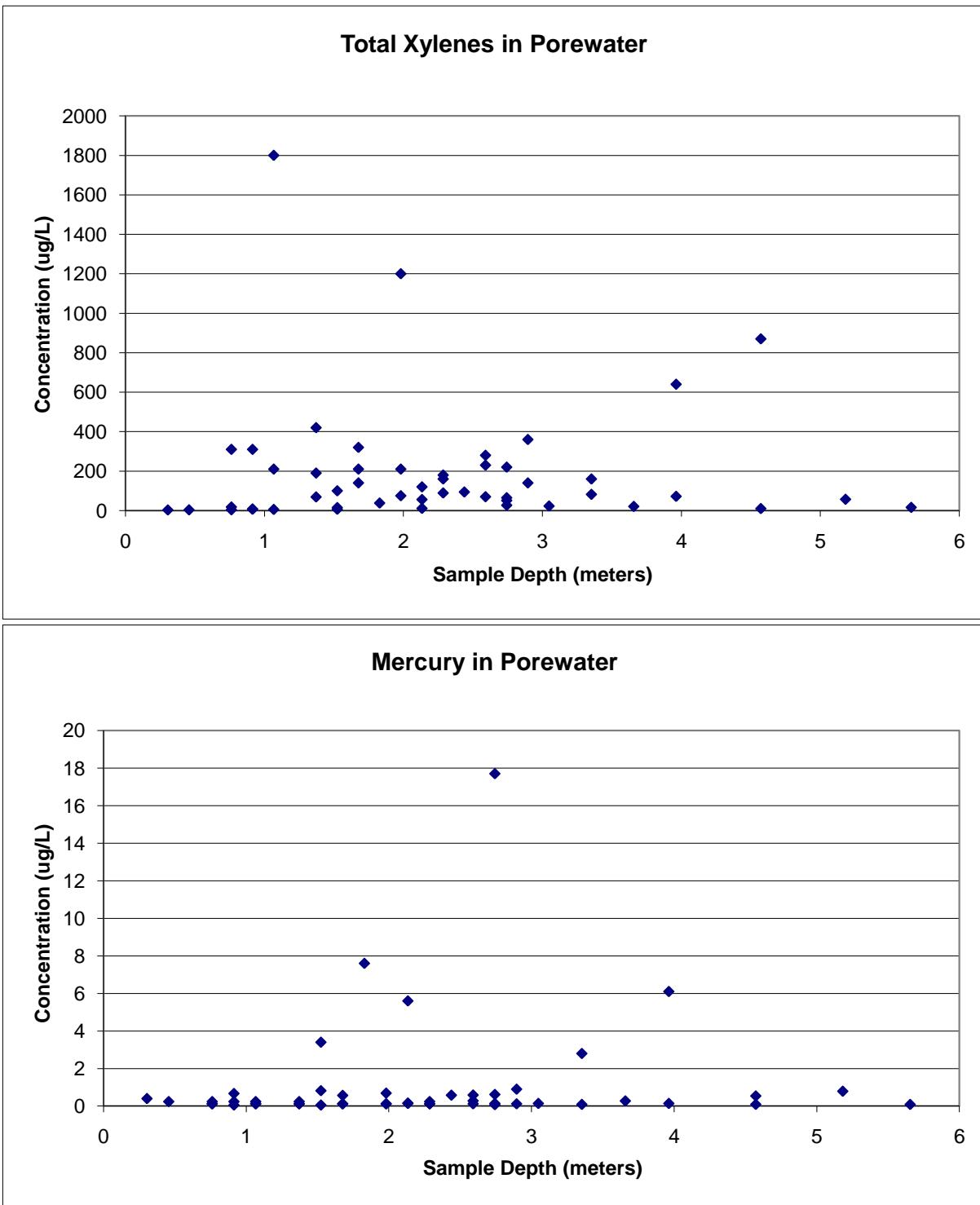
Figure G-22. SMU2 Porewater Data within ILWD (continued)



Notes: All concentrations shown on the plots are below the 90th percentile values for SMUs 1 & 7.

Non-detects were set at 1/2 the MDL. Plots incorporate data from PDI Phases I through V.

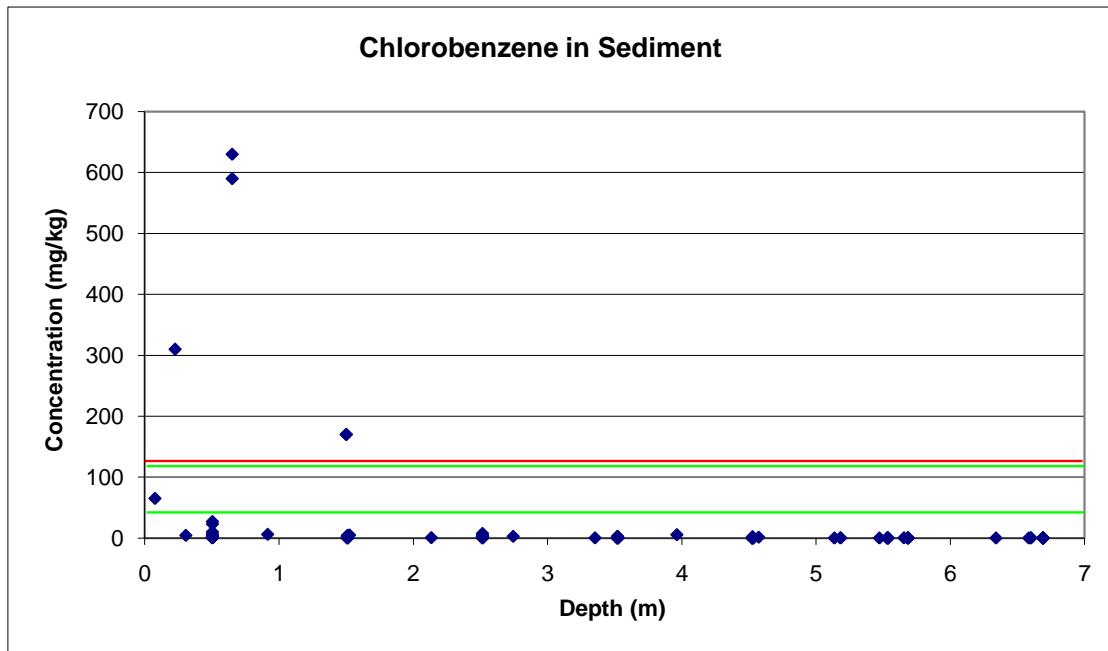
Figure G-22. SMU2 Porewater Data within ILWD (continued)



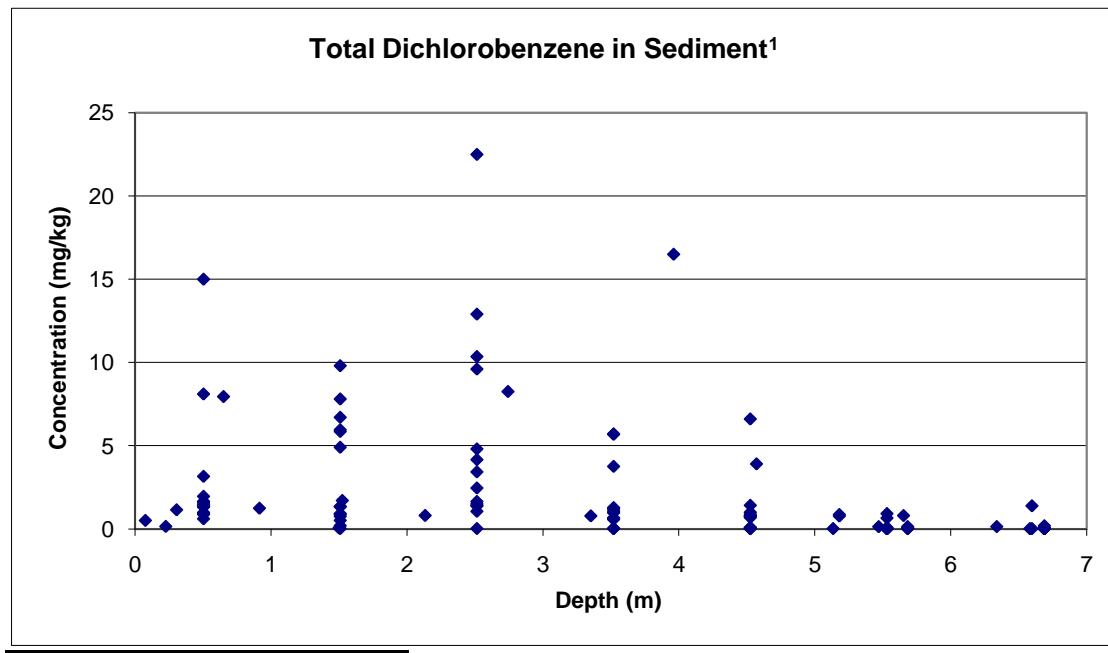
Notes: All concentrations shown on the plots are below the 90th percentile values for SMUs 1 & 7.

Non-detects were set at 1/2 the MDL. Plots incorporate data from PDI Phases I through V.

Figure G-23. SMU2 ILWD Sediment Data



Hotspot Criterion (mg/kg)	114
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Hotspot Criterion (mg/kg)	90
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Green lines indicate 90th and 95th percentile concentrations in SMUs 1 & 7 in the ILWD.

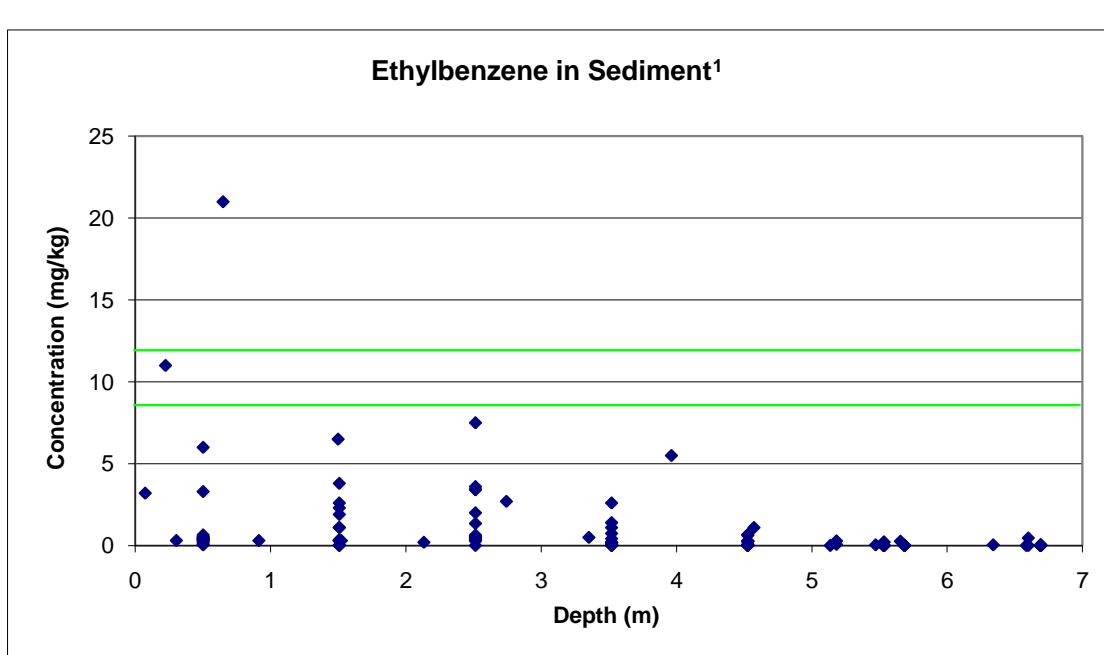
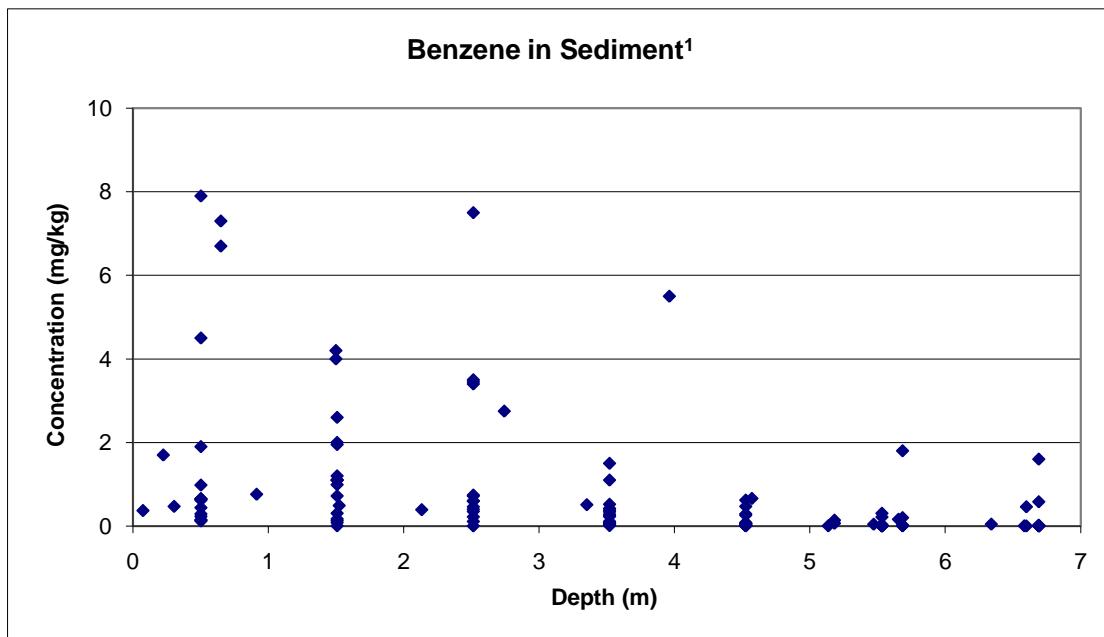
Red line indicates hotspot criterion for sediment as listed in the ROD.

Notes: (1) Hot spot criteria for sediment above the range of plots.

Non-detects were set at 1/2 the MDL.

Plots incorporate data from RI through PDI Phase V.

Figure G-23. SMU 2 ILWD Sediment Data (continued)



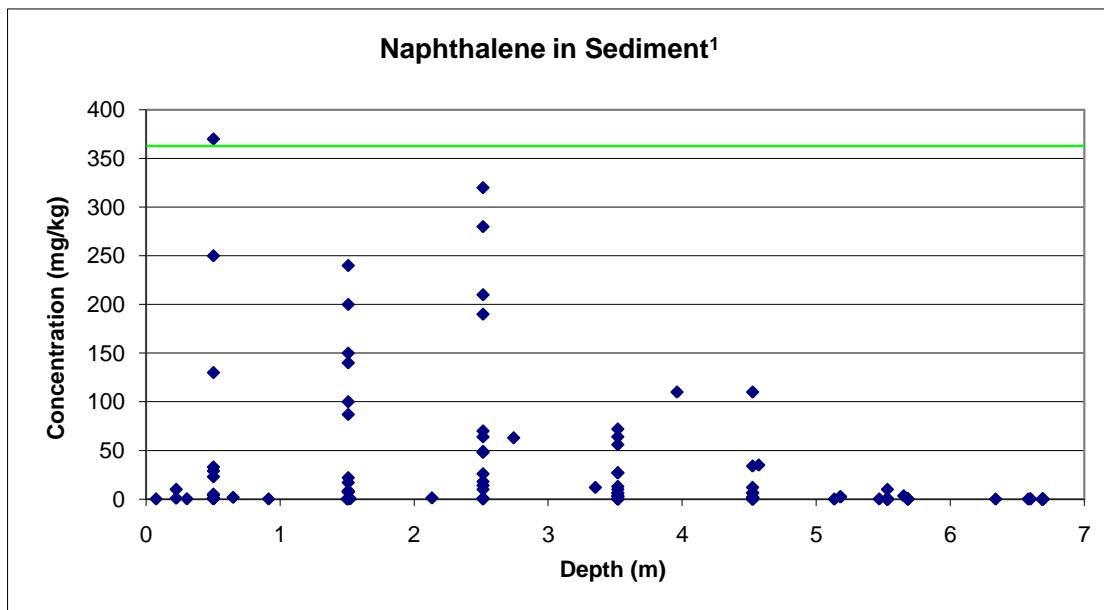
Green lines indicate 90th and 95th percentile concentrations in SMUs 1 & 7 in the ILWD.

Notes: (1) Hot spot criteria for sediment above the range of plots.

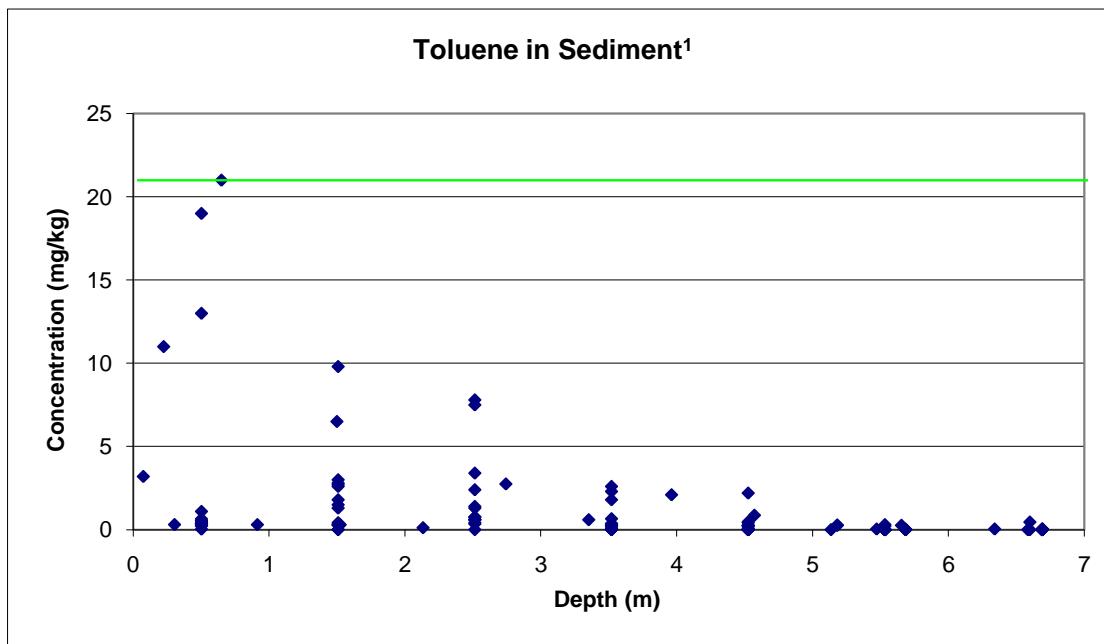
Non-detects were set at 1/2 the MDL.

Plots incorporate data from RI through PDI Phase V.

Figure G-23. SMU 2 ILWD Sediment Data (continued)



Hotspot Criterion (mg/kg)	20,573
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Hotspot Criterion (mg/kg)	2,626
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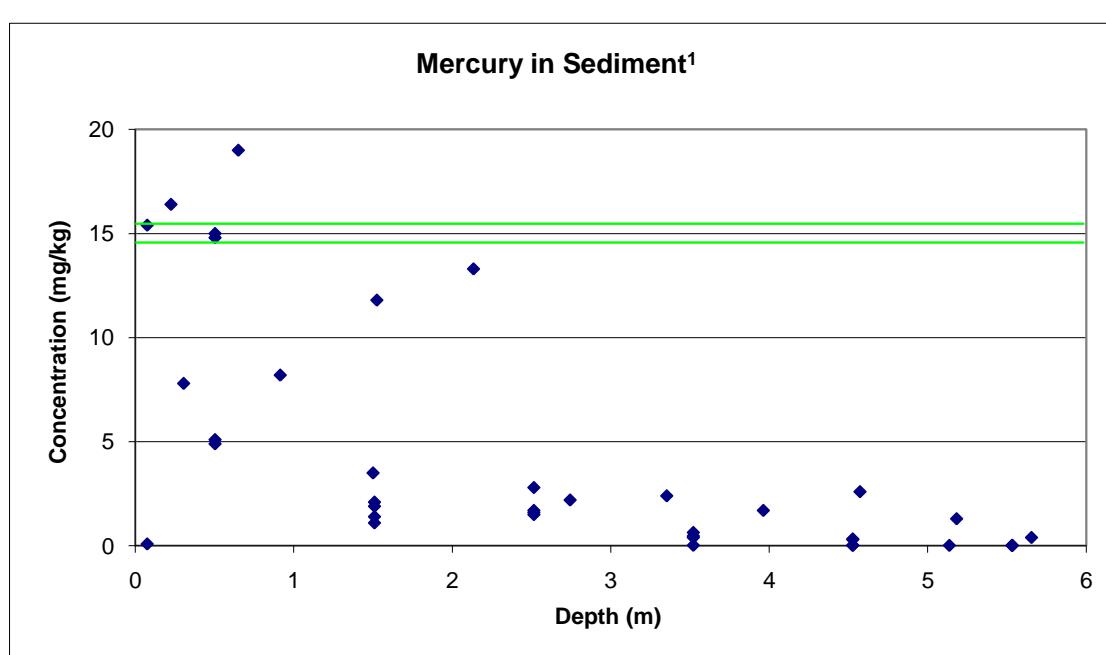
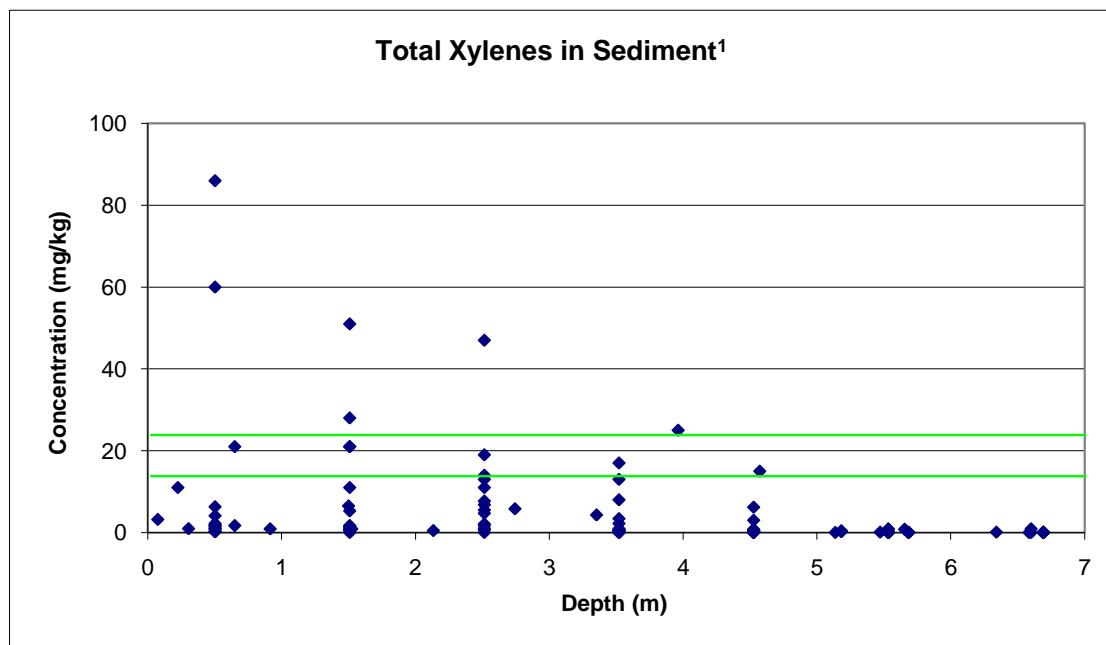
Green lines indicate 90th percentile concentration in SMUs 1 & 7 in the ILWD.

Notes: (1) Hot spot criteria for sediment above the range of plots.

Non-detects were set at 1/2 the MDL.

Plots incorporate data from RI through PDI Phase V.

Figure G-23. SMU 2 ILWD Sediment Data (continued)



Hotspot Criterion (mg/kg)	2,924
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Green lines indicate 90th percentile concentration in SMUs 1 & 7 in the ILWD.

Notes: (1) Hot spot criteria for sediment above the range of plots.

Non-detects were set at 1/2 the MDL.

Plots incorporate data from RI through PDI Phase V.

Sample Locations

- Porewater Sample Location
- Sediment Sample Location

Note: Co-located porewater and sediment locations having the same location ID have been labeled using the sediment ID for map clarity.

- Remediation Area Boundary
- Isolation Cap Area
- Sediment Management Unit (SMU) Boundary
- Extent of ILWD in Littoral Zone
- Willis/Semet IRM Barrier Wall
- West Wall Portion of the WB-B/HB IRM
- - - Approximate location of East Wall Portion of the SB-B/HB IRM

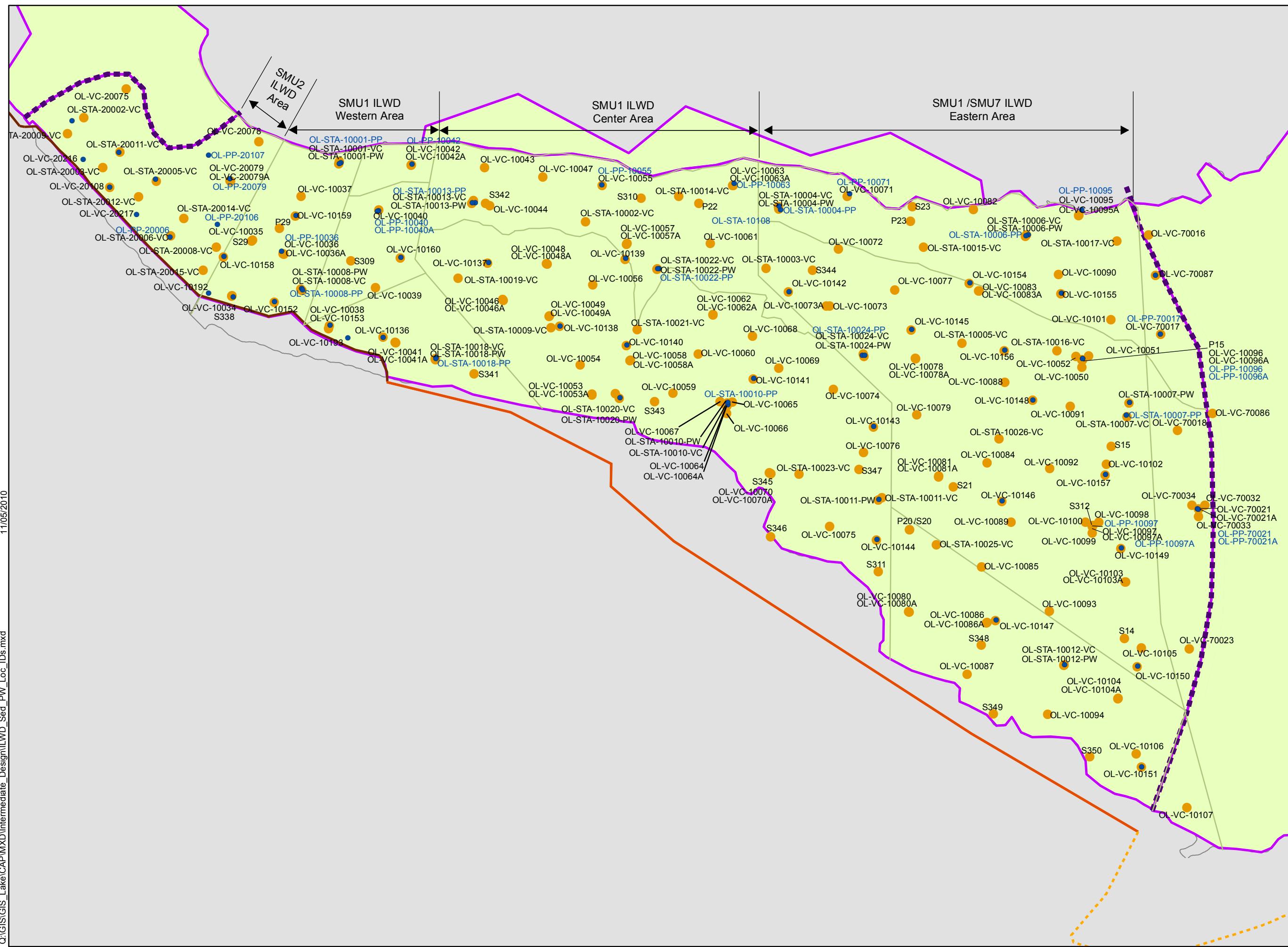


FIGURE G-24

Honeywell Onondaga Lake
Syracuse, New York
Remediation Area D
Sediment & Porewater Locations
PARSONS
301 PLAINFIELD RD, SUITE 350, SYRACUSE, NY 13212 Phone:(315) 451-9560

