## **APPENDIX G**

# ILWD REMOVAL APPROACH SUPPORTING INFORMATION

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The Record of Decision (ROD) requires removal of an average 6.6 ft. (2 meters) in sediment management unit (SMU) 1, which constitutes the majority of the in-lake waste deposit (ILWD) area, plus up to an additional 3.3 ft. (1 meter) in areas defined as hot spots. This same removal approach is required in the portions of the ILWD that extend into SMUs 2 and 7.

A rigorous evaluation of the extensive ILWD sediment and porewater database was completed to develop the removal approach that achieves the two-meter average removal, optimizes contaminant mass removal and reduces sediment and porewater contaminant concentrations underlying the cap. The ILWD was divided into four sub-areas based on chemical concentrations and distributions. Optimal removal strategies were then developed for each of these sub-areas, as shown in plan view in Figure G-1. The primary removal strategy and basis for the removal in each sub-area is summarized below.

- SMU 1/SMU 7 ILWD Eastern Area: Removal of the top 9.9 ft. (3 meters) in this area will remove the highest sediment and porewater concentrations of chlorobenzene and dichlorobenzene measured anywhere in the ILWD. This will also lower the concentration for numerous other contaminants in sediment and/or pore water in this area.
- SMU 1 ILWD Center Area: Sufficient dredging will be completed to ensure that the post-capping bathymetry is consistent with current bathymetry in areas where the current water depth is 7 ft. or less. The amended cap thickness in this area is anticipated to be 4.6 ft. assuming average over-placement, with a maximum thickness of 5.7 ft. assuming maximum over-placement of each layer. Therefore, the removal depth in this area is anticipated to be approximately 5.5 ft. out to a water depth of 7 ft.
- SMU 1 ILWD Western Area: Contaminant concentrations are generally lower in this area and patterns of concentration versus depth are less defined. However, removal of the top 9.9 ft. (3 meters) in a portion of this area will reduce the concentrations of several contaminants in sediment and/or pore water, including toluene and total semi-volatile organic compounds (SVOCs).
- SMU 2 ILWD Area: Contaminant concentrations are significantly lower in this area than elsewhere within the ILWD. Therefore, habitat considerations were the primary consideration in developing the removal approach in this area. In general, the dredge

removal was selected to increase water depth near shore to enhance future shoreline fishing opportunities.

As shown in Figure G-1, there will be a transition zone between the full removal depth and shoreline in some areas and approaching the littoral area boundary based on habitat and other considerations. There will also be transition zones between the dredge areas and the edge of the profundal zone, and between the different target dredge depths themselves. The details of these transition zones are provided in Appendix F. Additional details regarding the development of the sub-areas and removal strategies are provided below.

Location-specific information within the ILWD from the Remedial Investigation (RI) and all design-related investigations through 2008 was queried from Honeywell's Locus Focus data management system in order to identify spatial contaminant distribution trends and develop the sub-areas and removal depths summarized above. This included identifying and plotting the locations of the highest sediment and porewater concentrations for each contaminant or contaminant group. Sediment data from vibracores collected for pore water analysis were also included in this evaluation. The 90<sup>th</sup> and 95<sup>th</sup> percentile concentrations were identified, as shown in the percentile distribution curves in Figure G-2. Percentiles were used to describe characteristics of data distributions. For example, the 90<sup>th</sup> percentile concentration represents the concentration that is higher than 90 percent of all the concentrations in the database. The percentile distribution curves as shown in Figure G-2 were developed based on SMU1 data only. Exceedances of the 90<sup>th</sup> and 95<sup>th</sup> percentile concentrations are shown in plan view in Figures G-3 through G-11. The 90<sup>th</sup> and 95<sup>th</sup> percentiles are also shown for reference in the scatter plots of contaminant concentration versus depth shown in Figures G-12 through G-23. The plan view figures and scatter plots as shown in Figures G-3 through G-23 were developed based on all data from SMUs 1, 2 and 7 within the ILWD.

The removal approach optimizes removal of the highest sediment and porewater concentrations, and results in decreased sediment and porewater concentrations immediately beneath the cap. Specific benefits of the proposed ILWD removal approach based on consideration of the data presented in Figures G-3 through G-23 are detailed below.

**SMU 1/SMU 7 ILWD Eastern Area:** Dredging the top three meters in portions of the eastern area removes the highest concentrations measured anywhere in ILWD for:

- Chlorobenzene in sediment and porewater
- Dichlorobenzene in sediment and porewater
- PCBs in sediment (not analyzed for in porewater)

It also reduces the concentration in the eastern area for:

- Toluene in porewater
- Xylene in porewater

- Napthalene in porewater
- Benzene in porewater and sediment
- Phenol in sediment

**SMU 1 ILWD Center Area:** Dredging in the center area will not appreciably reduce the sediment or pore water concentrations beneath the cap. Therefore, the removal approach in this area is to remove sufficient sediment such that post-capping bathymetry is consistent with current bathymetry in water depths from 0 to 7 ft.

**SMU 1 ILWD Western Area:** Contaminant concentrations in the western area are generally lower than concentrations in the eastern and center areas. Nevertheless, dredging the top three meters in portions of the western area reduces the concentration in the western area for:

- Dichlorobenzene in porewater
- Benzene in porewater
- Toluene in porewater and sediment
- Mercury in sediment
- PAHs in sediment (not analyzed for in porewater)
- PCBs in sediment (not analyzed for in porewater)

**SMU 2 ILWD Area:** Contaminant levels within the SMU 2 ILWD are lower than the other ILWD areas. Therefore, habitat considerations were the primary consideration in developing the removal approach in this area. To meet the two meter average removal requirement for the SMU 2 ILWD removal strategy involves increasing water depth near shore along a portion of the shoreline barrier wall to enhance future shoreline fishing opportunities.

**Hot Spot Removal:** Following development of the removal approach described above, sediment data for the next 3.3 ft. (one meter) down were evaluated to identify exceedances of the hot spot criteria listed in the ROD and the subsequent hot spot removal approach. Details regarding hot spot identification and determination of hot spot removal areas are provided below.

To identify exceedances of hot spot criteria, contaminant concentrations within the one-meter interval immediately below the post-dredge surface were defined at each core location. Core locations are shown in Figure G-24. Identification of hot spots involved first defining the baseline post-dredging depth at each core location. The concentration within the one-meter interval immediately underlying the baseline removal depth was then conservatively defined based on the maximum concentration of the core sections within that interval, and this concentration was compared to the hot spot criteria. Samples having any portion of their sampling interval within the underlying one-meter interval were included in the analysis. Based on this analysis, chlorobenzene, dichlorobenzene and xylene were the only contaminants that exceeded their hot spot criteria in the depth interval of interest. Core locations that exceeded the hot spot criteria are included in Table G-1 and shown in Figure G-25. For co-located cores, the

maximum value measured at any of the cores was considered in identification of hot spot exceedances.

Following this identification of hot spot locations, an interpolation procedure was used for the areal delineation of hot spots. The interpolation was based on the same concentrations used for identification of hot spot locations described above (i.e., maximum concentration of any core segment within the one-meter interval beneath the baseline dredge cut. In order to produce acceptable interpolation results, the data set was conservatively revised to remove the effect of non-hot spot locations that are co-located with or are near hot spot exceedances. To remove this proximity effect for each contaminant, all non-hot spot locations that fell within close proximity of a hot spot location were excluded from the interpolation, which resulted in conservatively high interpolated concentrations at such locations. Table G-2 provides a listing of the non-hot spot locations that were excluded from the interpolation due to this proximity effect for each contaminant.

The remaining sediment surface concentration data for each CPOI were then interpolated over a 10-ft. grid within the ILWD using the Inverse Distance Weighted (IDW) method. With the IDW method, the interpolated concentration at a given point is calculated as a weighted average of the nearby measured concentrations, with the weighting factors defined by the distance between the calculation point and each measurement location raised to a power (a power of 4 was used in this case). The resulting interpolated concentrations for chlorobenzene, dichlorobenzene, and xylene are shown in Figures G-26 through G-28, respectively. For each of these three contaminants, the individual hot spot areas were defined by the interpolated concentration isopleths corresponding to its hot spot criteria. The isopleths corresponding to the hot spot criteria for the three contaminants were then merged, as shown in Figure G-29. Minor revisions were made to the boundaries of the combined isopleths based on engineering judgment, such as linking of small isolated hot spots with adjacent larger hot spot areas, as shown in Figure G-30. Based on this approach, seven individual hot spot areas were delineated (referred to as Hot Spots A through G), covering a total combined area of approximately 22 acres.

#### **DATA TREATMENT**

The data queries and treatment methods used for all analyses presented in this appendix are as follows:

- Parameters of interest: benzene, chlorobenzene, total dichlorobenzenes, ethylbenzene, naphthalene, mercury, PAHs, PCBs, toluene, phenol, and total xylenes
- Removed "rejected" data (i.e., query Locus field "USE" = Y only)
- For duplicate results, both concentrations were included
- Non-detect samples were set to half of their detection limit

- Sample intervals were determined by the average of the sample start depth and sample end depth.
- Total dichlorobenzene was calculated as the sum of 1,2-1,3- and 1,4-dichlorobenzene using half the detection limit for non-detects.
- Total xylene was calculated as the sum of m-, p-, and o-xylene using half the detection limit for non-detects.
- Total PAHs were calculated as the sum of individual PAH compounds using half the detection limit for non-detects.
- Total PCBs were calculated as the sum of individual aroclors using half the detection limit for non-detects.

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# **TABLES**

Table G-1
ILWD Sample Locations with Hot Spot Criteria Exceedances in the 1-Meter Interval Below the Base Dredge Cut

### **Sediment Sample Locations**

OL-STA-10008-VC OL-STA-10009-VC OL-STA-10010-VC OL-STA-10013-VC OL-STA-10020-PW OL-STA-10020-VC OL-VC-10040 OL-VC-10042 OL-VC-10042A OL-VC-10046 OL-VC-10046A OL-VC-10048 OL-VC-10049A OL-VC-10050 OL-VC-10052 OL-VC-10053 OL-VC-10053A OL-VC-10054 OL-VC-10055 OL-VC-10057A OL-VC-10058 OL-VC-10059 OL-VC-10064 OL-VC-10065 OL-VC-10082 OL-VC-10090 OL-VC-10091 OL-VC-10096 OL-VC-10096A OL-VC-10097A OL-VC-10098 OL-VC-10102 OL-VC-10103 OL-VC-10137 OL-VC-10138 OL-VC-10140 OL-VC-10141 OL-VC-10155 OL-VC-10157 P22 S312 S341 S342

S345

Table G-2
Non-Hot Spot ILWD Sample Locations Excluded from Interpolation
Due to Proximity to a Hot Spot Location

	Chemicals(s) for which Location was
Sediment Sample Locations	Excluded from Inteprolation
OL-STA-10008-PW	Xylene
OL-STA-10010-VC	Xylene
OL-STA-10013-PW	Xylene
OL-VC-10044	Xylene
OL-VC-10048A	Xylene
OL-VC-10049	Xylene
OL-VC-10058A	Xylene
OL-VC-10070	Xylene
OL-VC-10070A	Xylene
OL-VC-10097A	Xylene
OL-STA-10010-PW	Dichlorobenzene, Xylene
OL-VC-10064A	Dichlorobenzene, Xylene
OL-VC-10066	Dichlorobenzene, Xylene
OL-VC-10067	Dichlorobenzene, Xylene
OL-VC-10097	Dichlorobenzene, Xylene
OL-VC-10099	Dichlorobenzene, Xylene
OL-VC-10100	Dichlorobenzene, Xylene
OL-VC-10042A	Dichlorobenzene
OL-VC-10051	Dichlorobenzene
OL-VC-10098	Dichlorobenzene
OL-VC-10103A	Dichlorobenzene
OL-VC-10138	Dichlorobenzene
S312	Dichlorobenzene
OL-VC-10057	Chlorobenzene, Dichlorobenzene, Xylene
OL-VC-10096	Chlorobenzene
OL-VC-10096A	Chlorobenzene

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# **FIGURES**

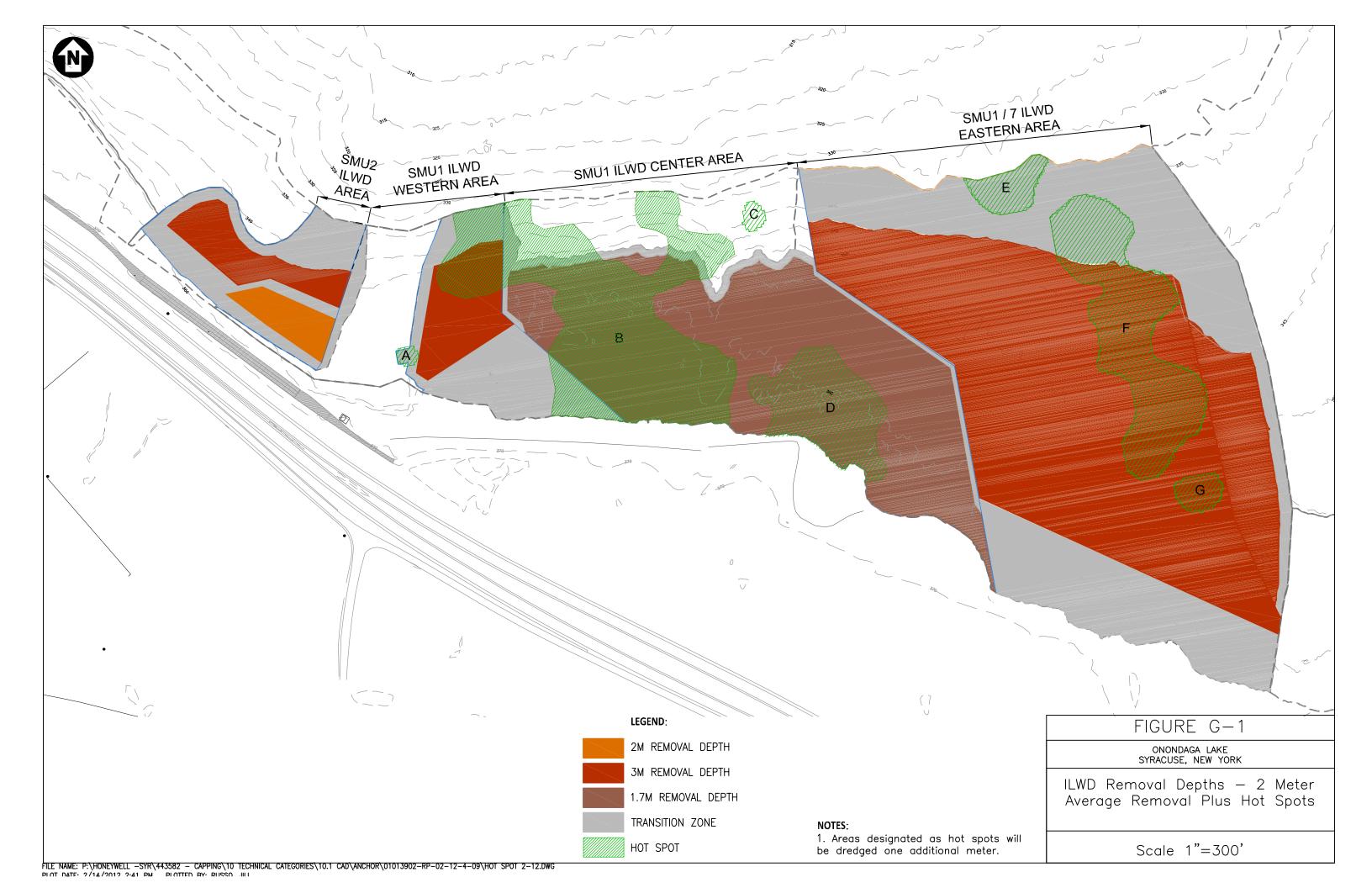
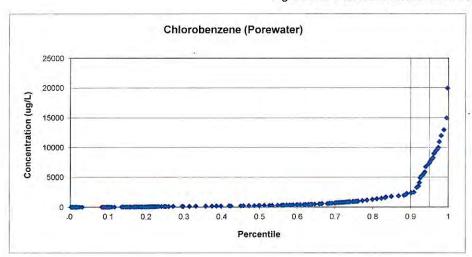
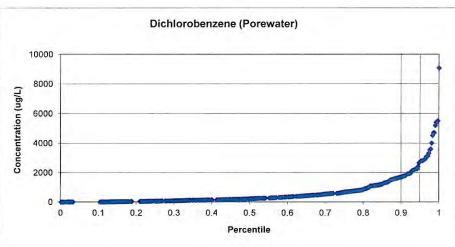
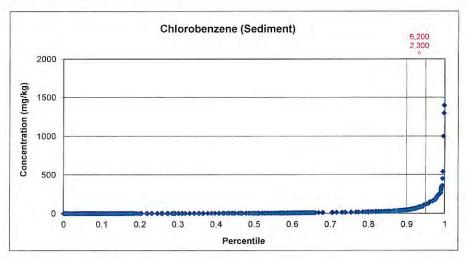


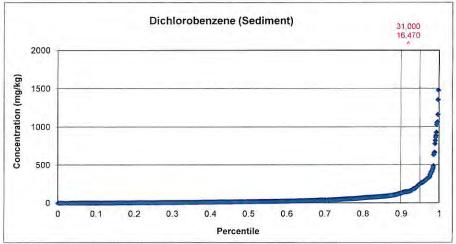
Figure G-2. Percentile Distributions Used to Develop Optimal ILWD Removal Depths





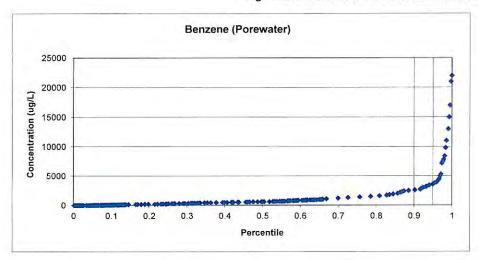
	Percentile	Porewater (ug/L)
Chloro-	90th	2300
benzene	95th	7000
Dichloro-	90th	1633
benzene	95th	2542

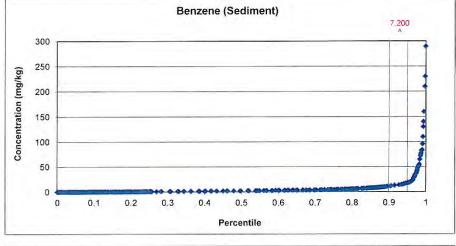


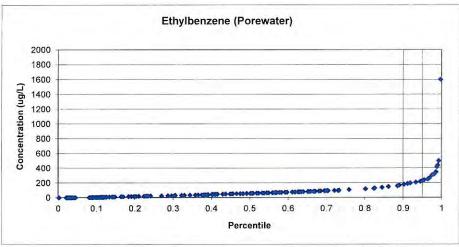


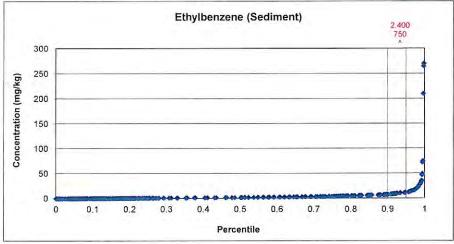
	Percentile	Sediment (mg/kg)
Chloro-	90th	44
benzene	95th	110
Dichloro-	90th	128
benzene	95th	250

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









	Percentile	Porewater (ug/L)
0	90th	2500
Benzene	95th	3400
Ethyl-	90th	170
benzene	95th	220

 Percentile
 Sediment (mg/kg)

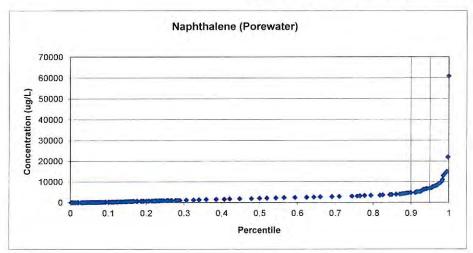
 Benzene
 90th
 11

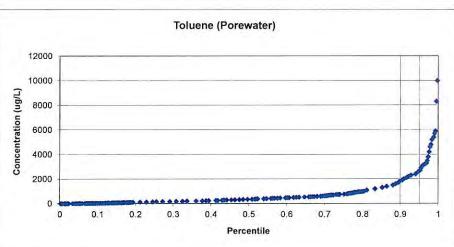
 95th
 17

 Ethyl 90th
 8

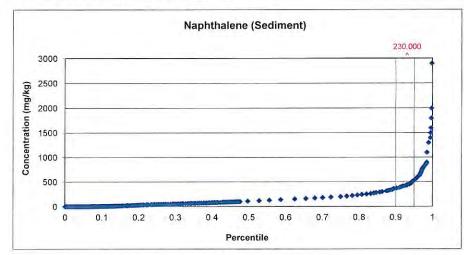
 benzene
 95th
 12

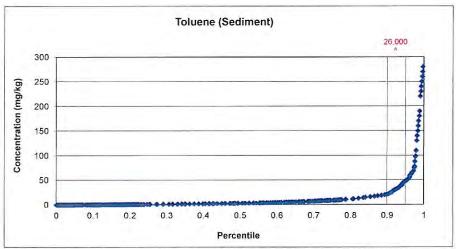
Figure G-2. Percentile Distributions Used to Develop Optimal ILWD Removal Depths (continued)





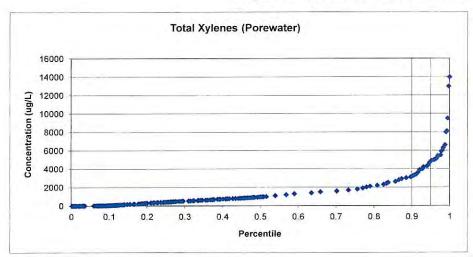
	Percentile	Porewater (ug/L)
Naphtha-	90th	4610
lene	95th	6700
Toluene	90th	1600
	95th	2500

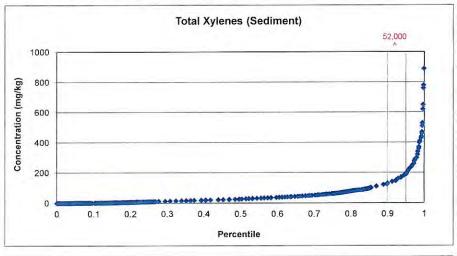


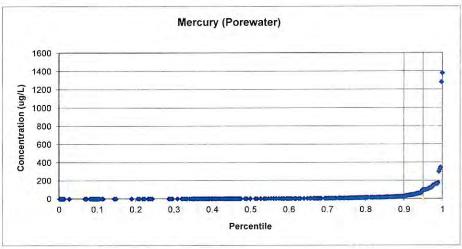


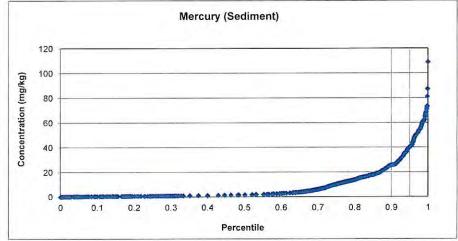
	Percentile	Sediment (mg/kg)
Naphtha-	90th	360
lene	95th	526
Toluene	90th	21
	95th	47

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





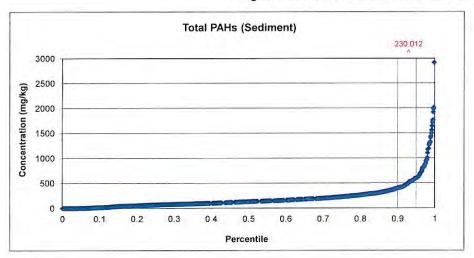


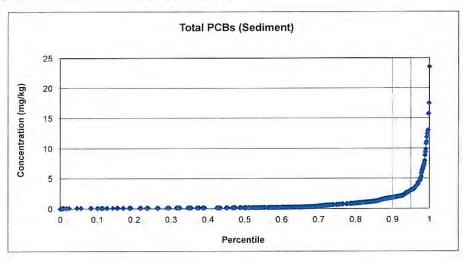


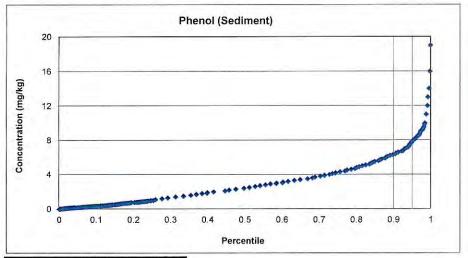
	Percentile	Porewater (ug/L)
Total	90th	3000
Xylenes	95th	4550
	90th	26
Mercury	95th	79

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

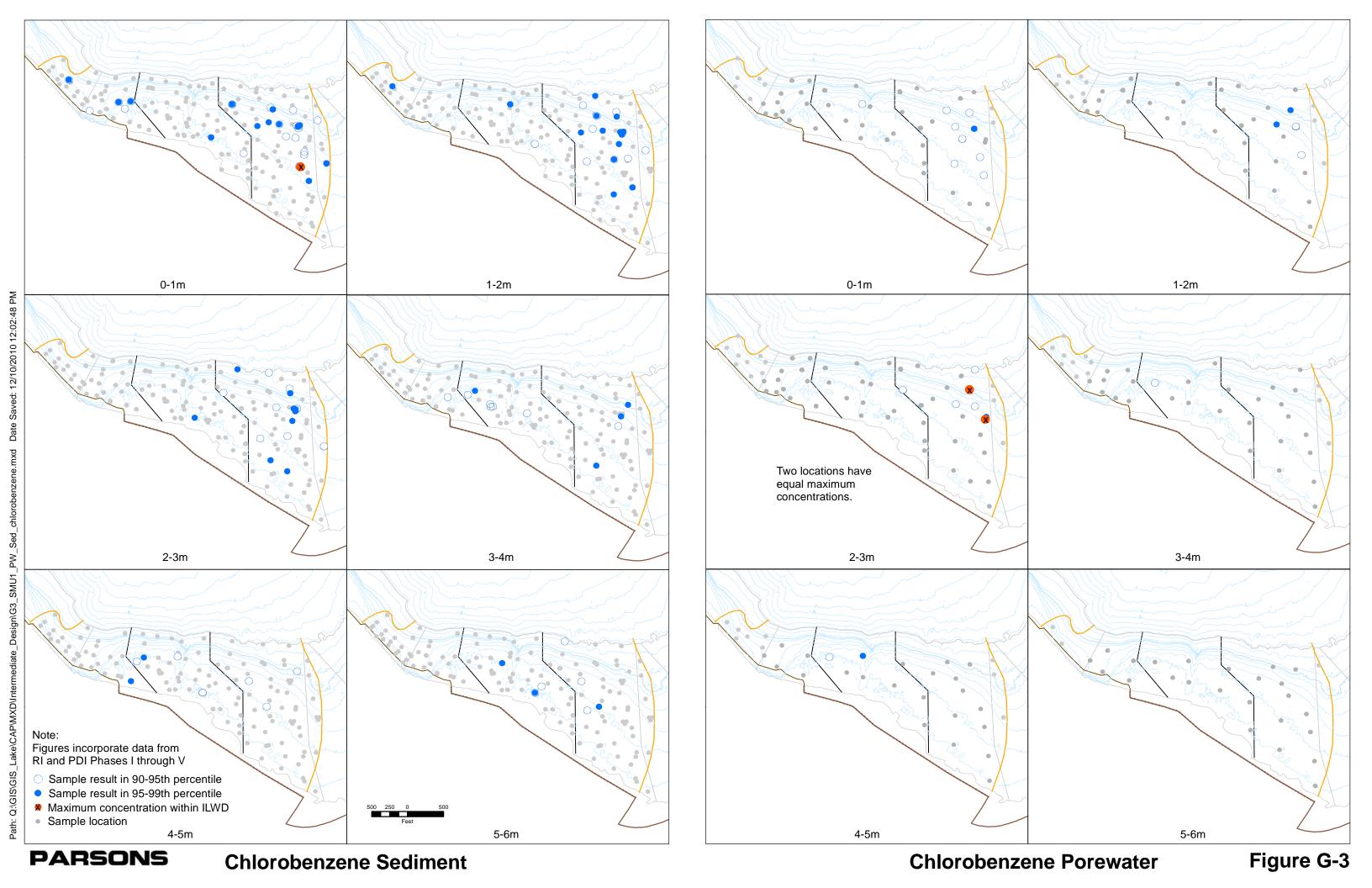
Figure G-2. Percentile Distributions Used to Develop Optimal ILWD Removal Depths (continued)

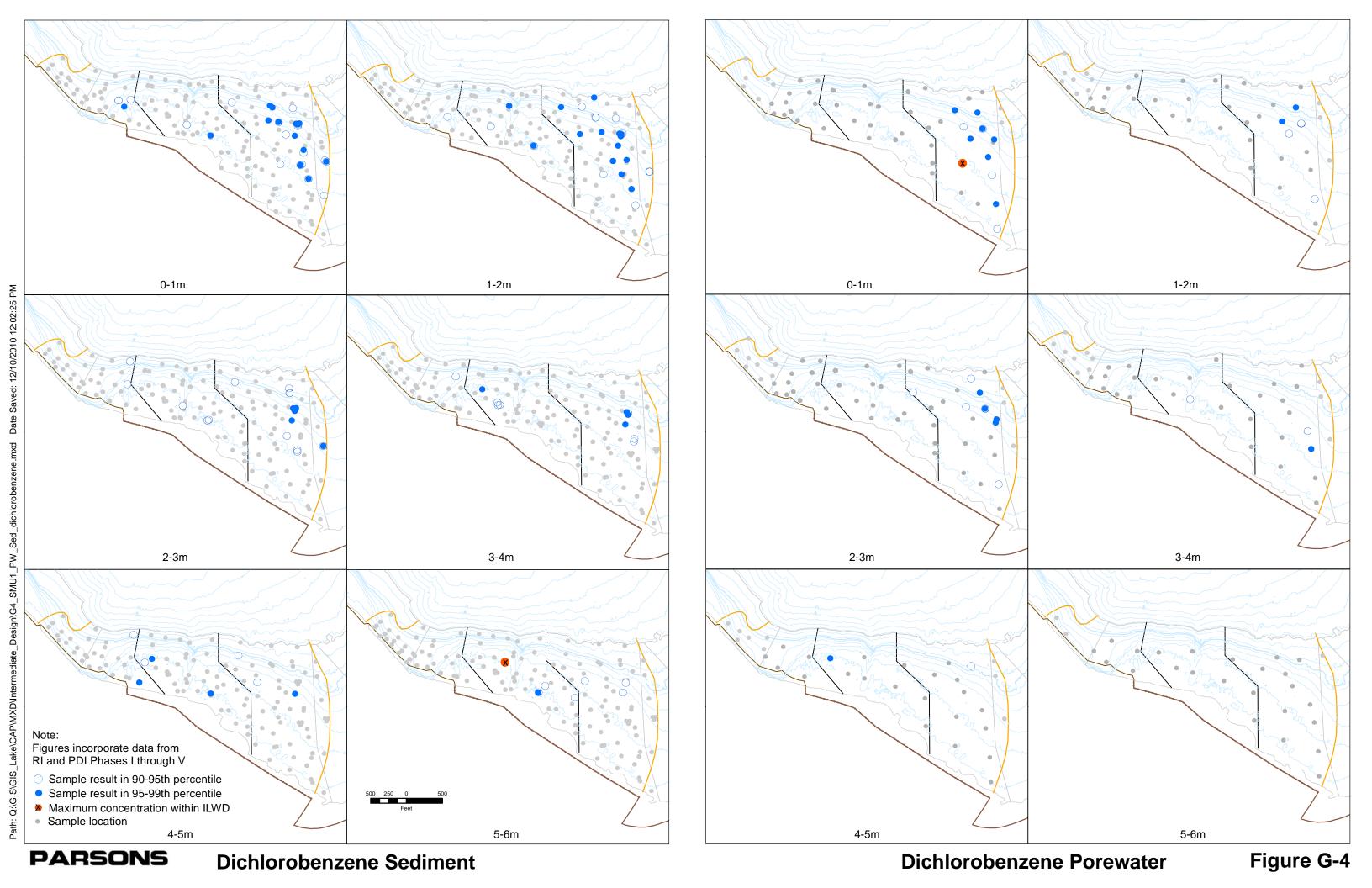


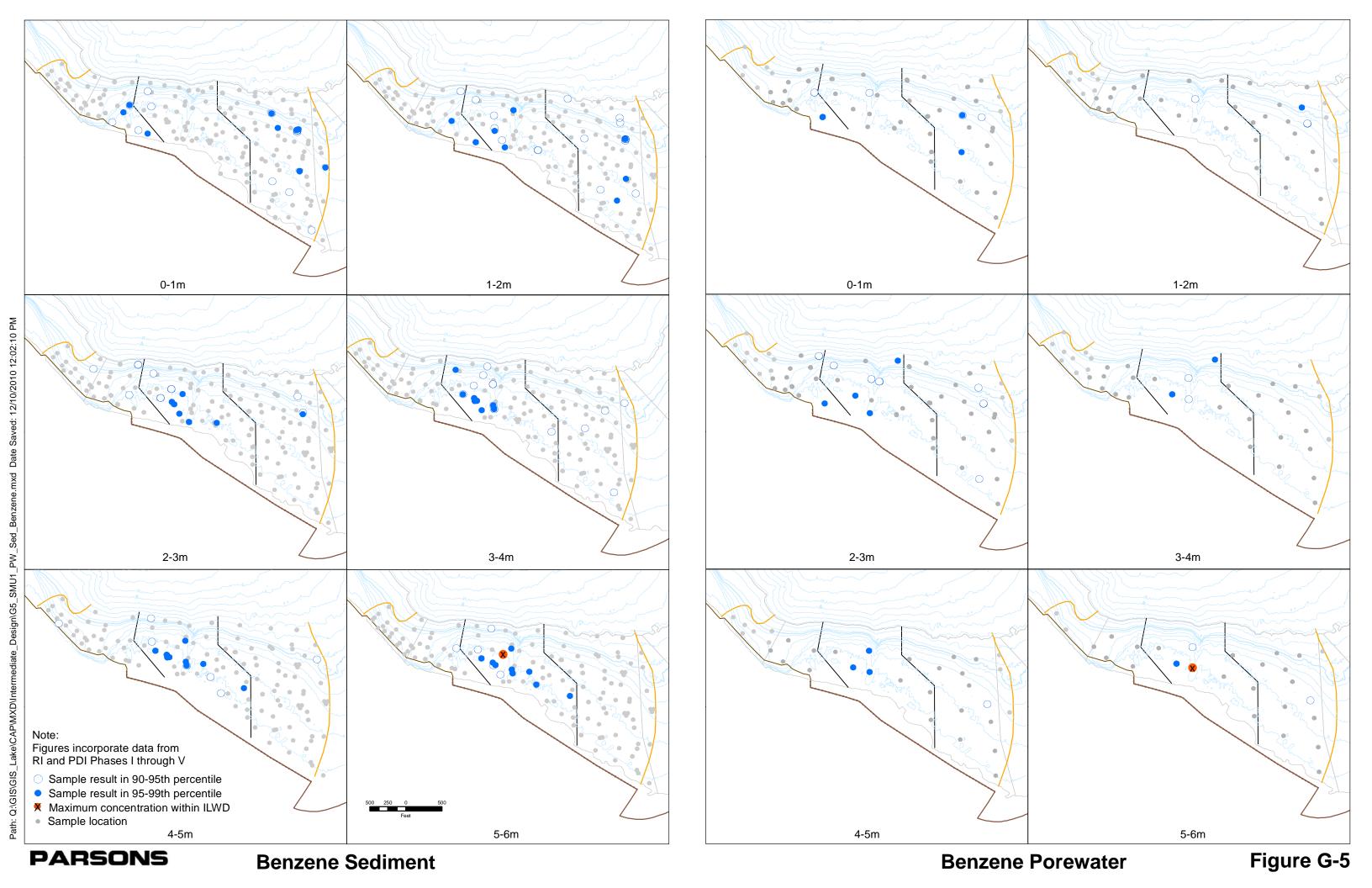


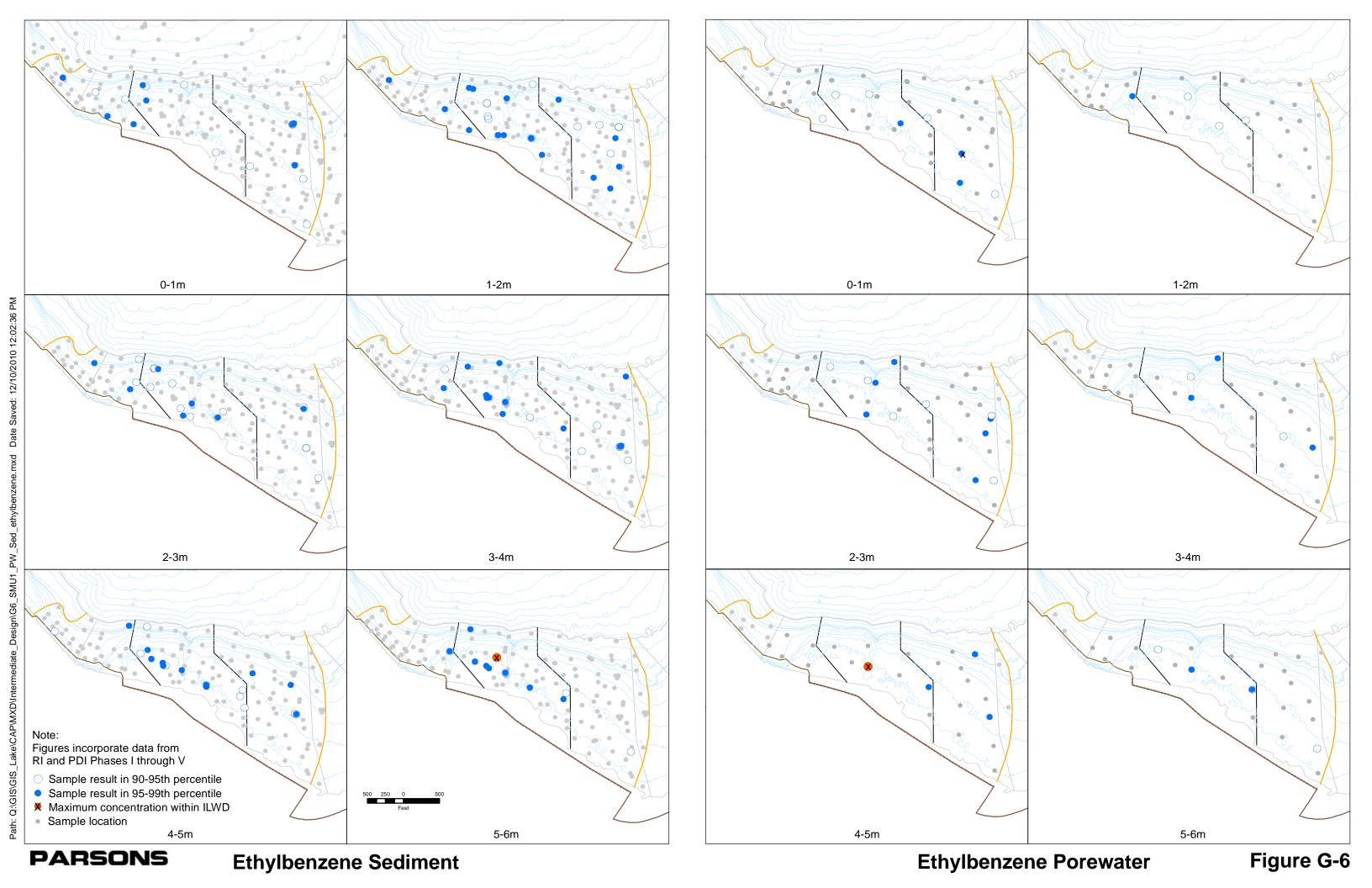


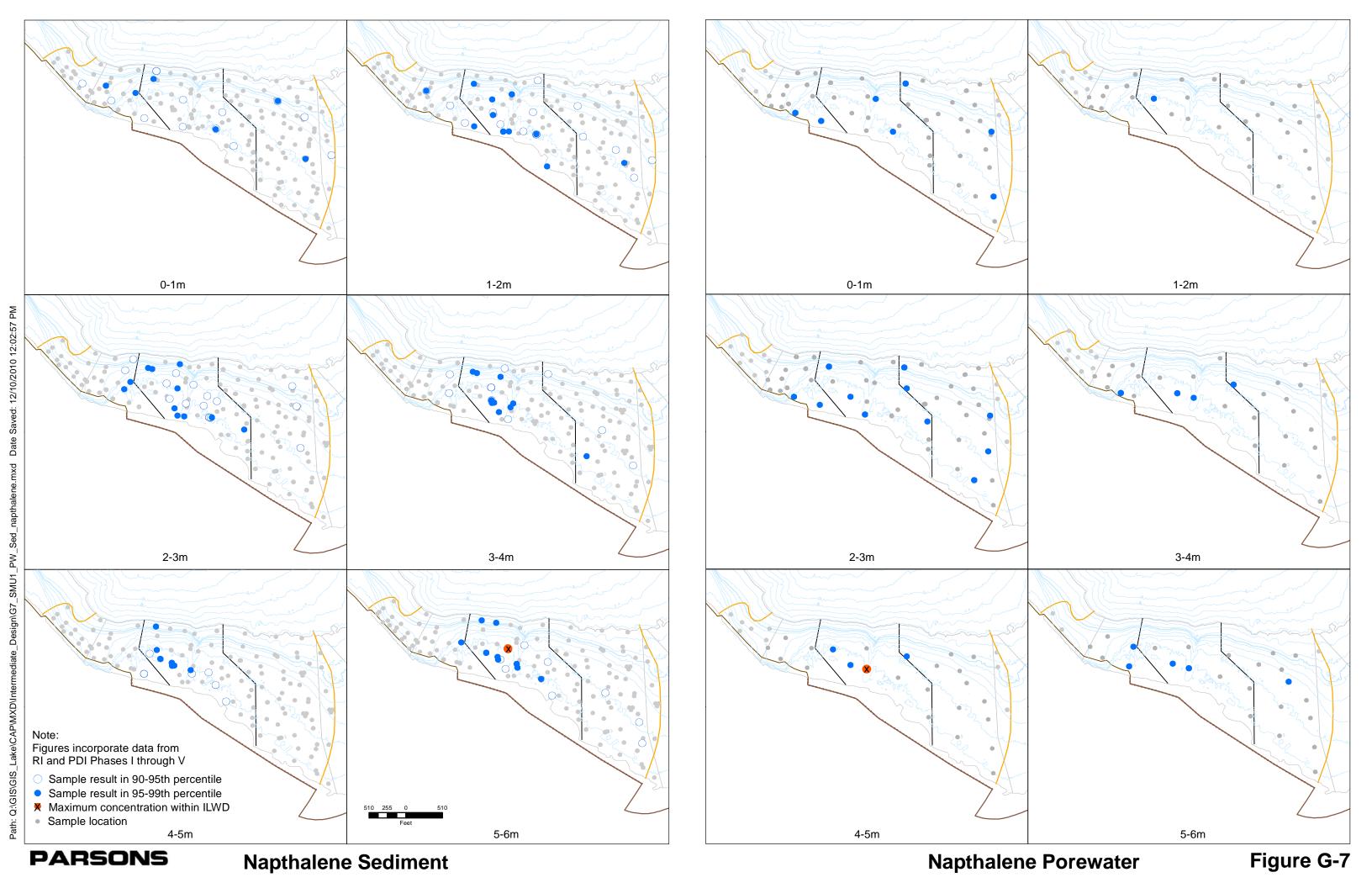
	Percentile	Sediment (mg/kg)
Total	90th	401
PAHs	95th	600
Total	90th	2
PCBs	95th	3
Diversal	90th	6
Phenol	95th	8

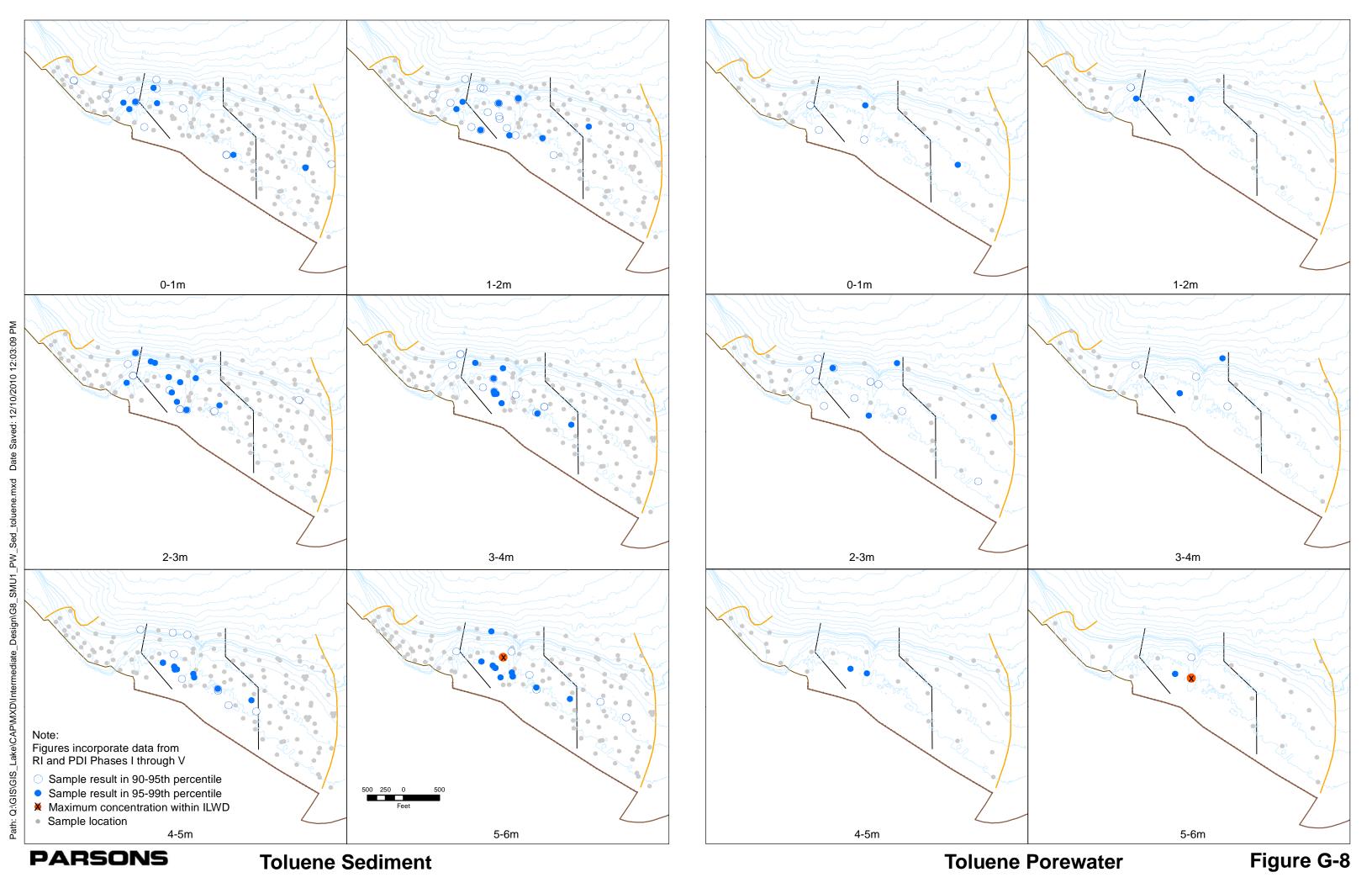


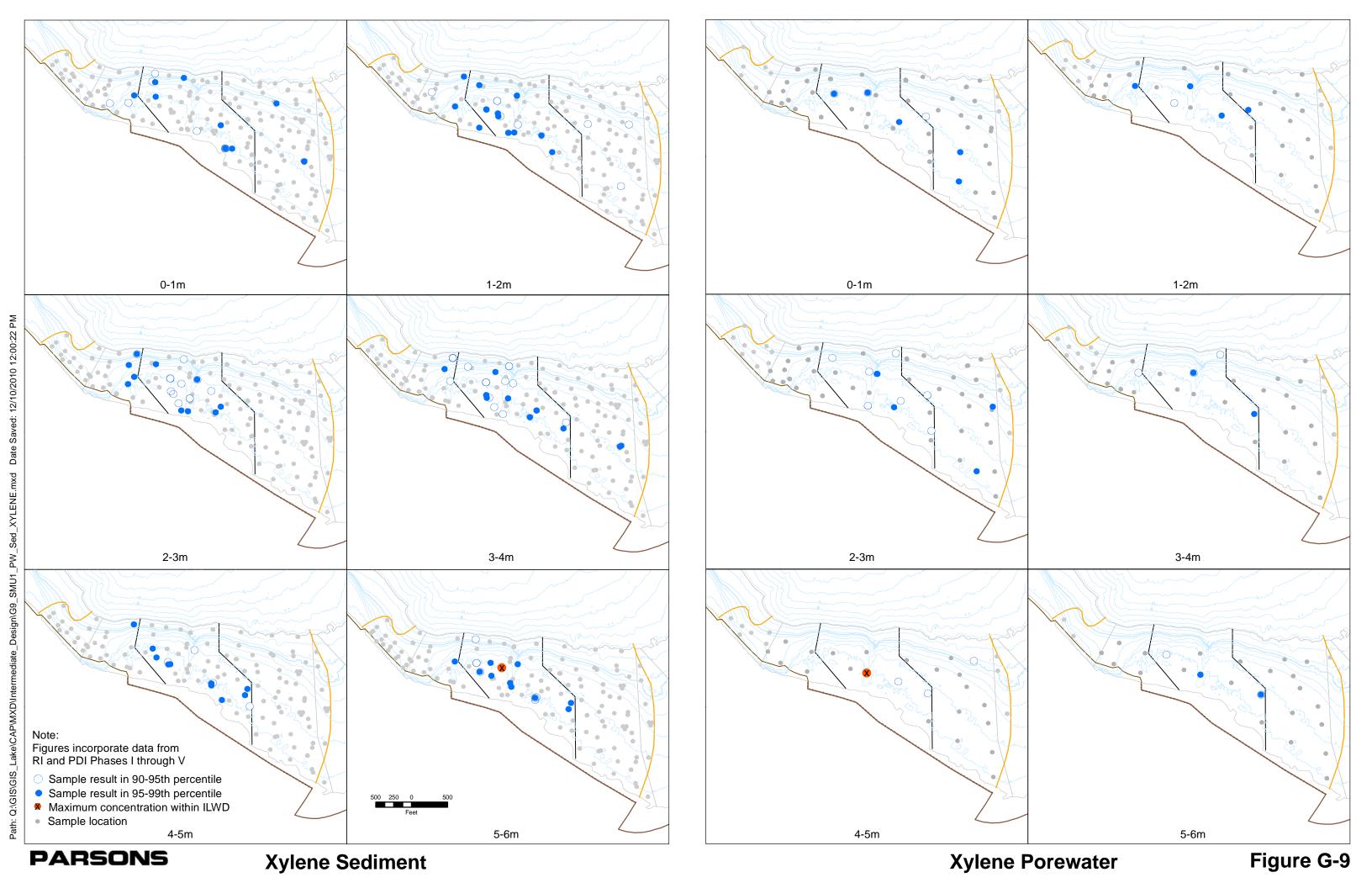


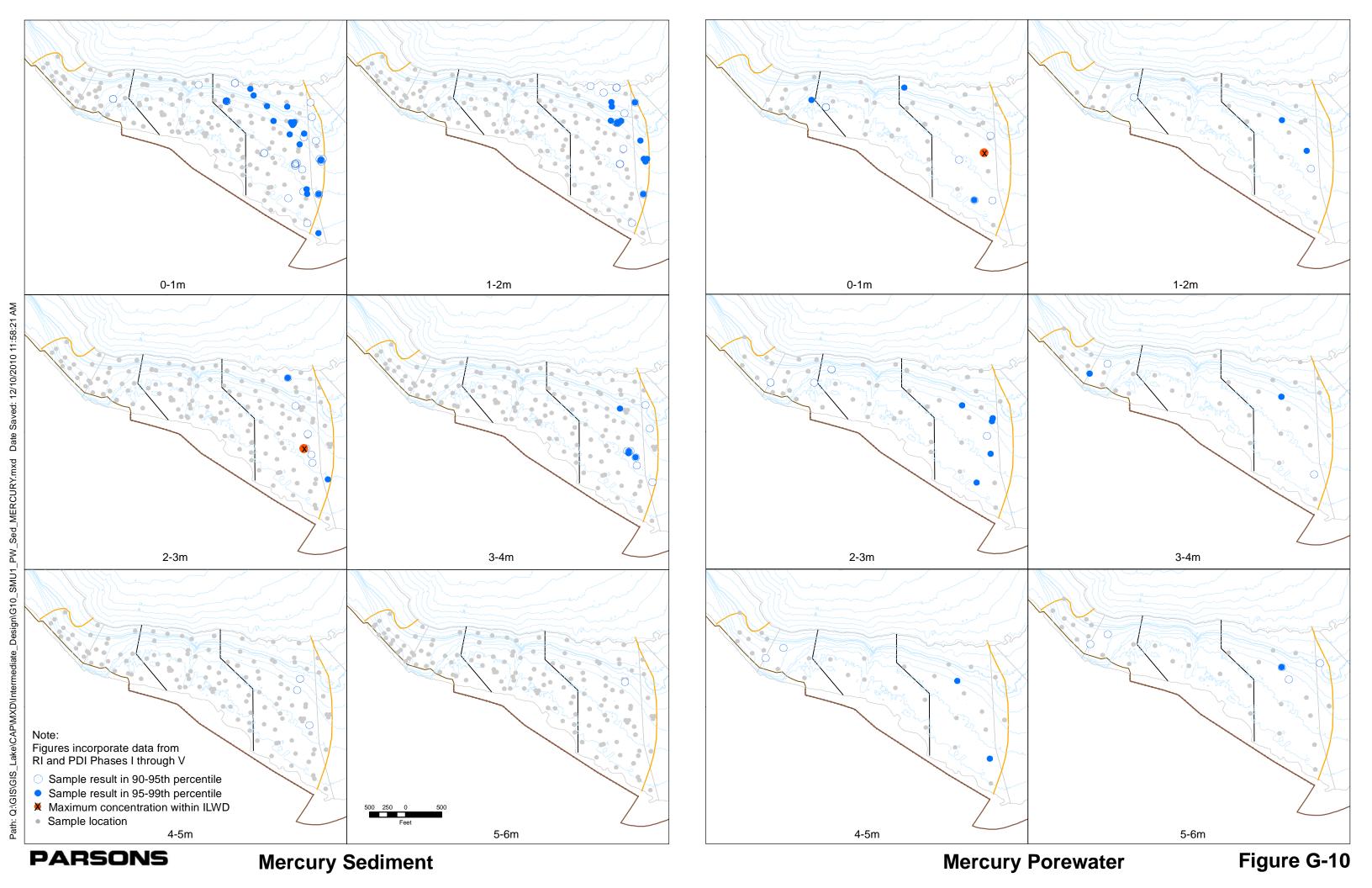


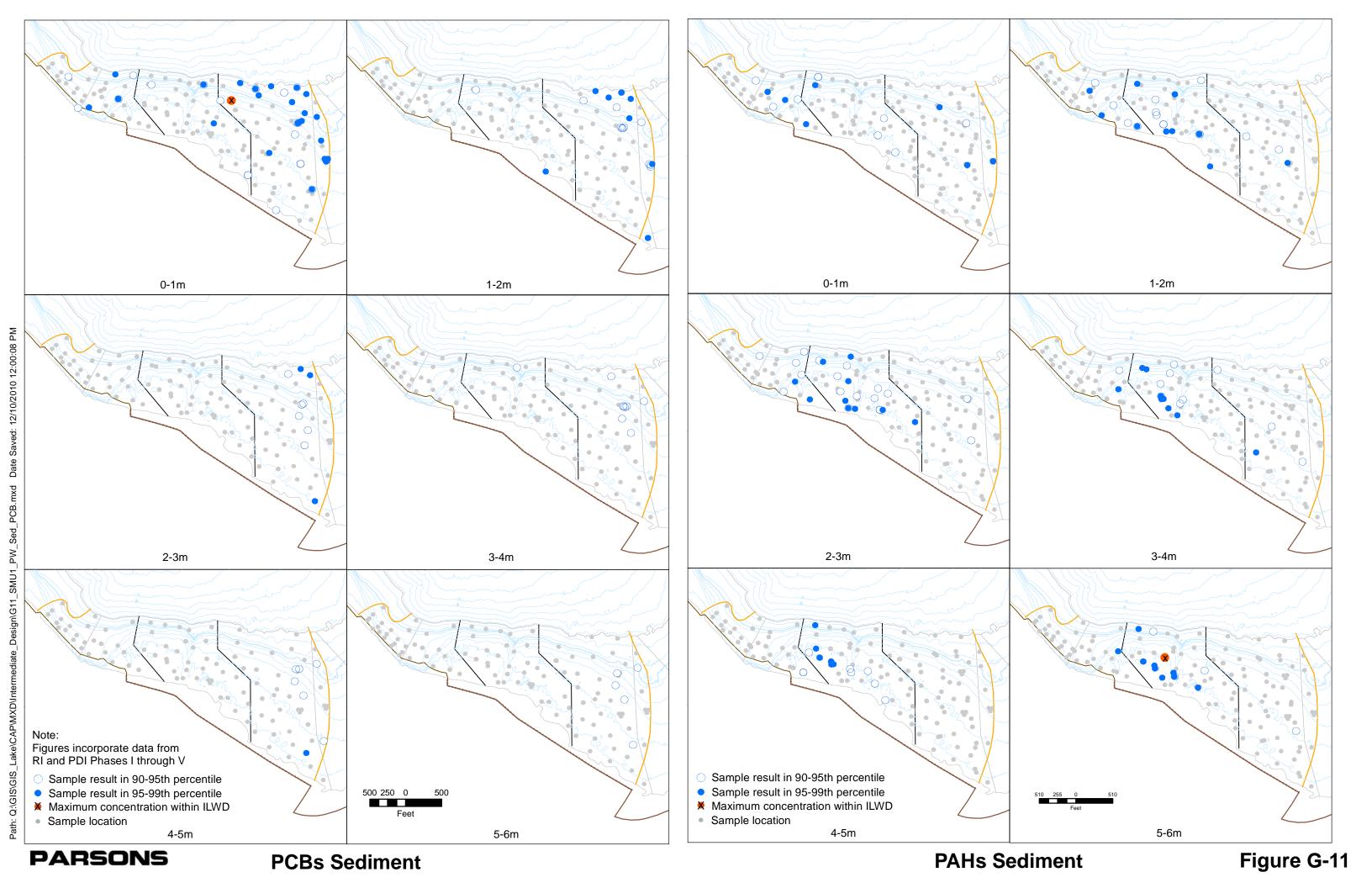












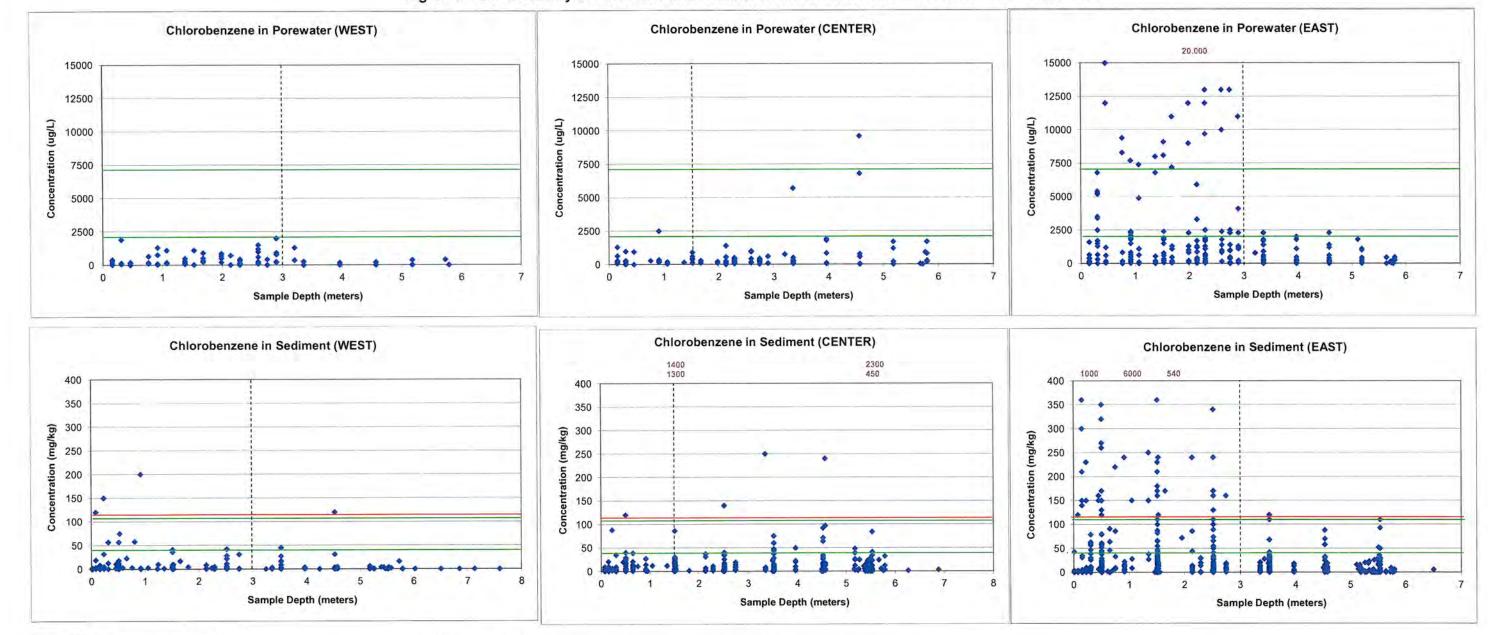


Figure G - 12. Summary of Porewater and Sediment Data for Chlorobenzene within ILWD SMUs 1 & 7

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.

114

**Data Presentation:** 

Red lines indicate hot spot criteria for sediment as listed in the ROD.

Green lines indicate 90th and 95th percentile concentrations.

Figures incorporate data from RI through PDI Phase V.

Dashed lines represent the target removal depth prior to hot spot removal.

Numbers in red denote concentrations beyond the range of the scatterplots.

Porewater (ug/L) 2300

7000 Sediment (mg/kg)

44

110

Percentile

Percentile

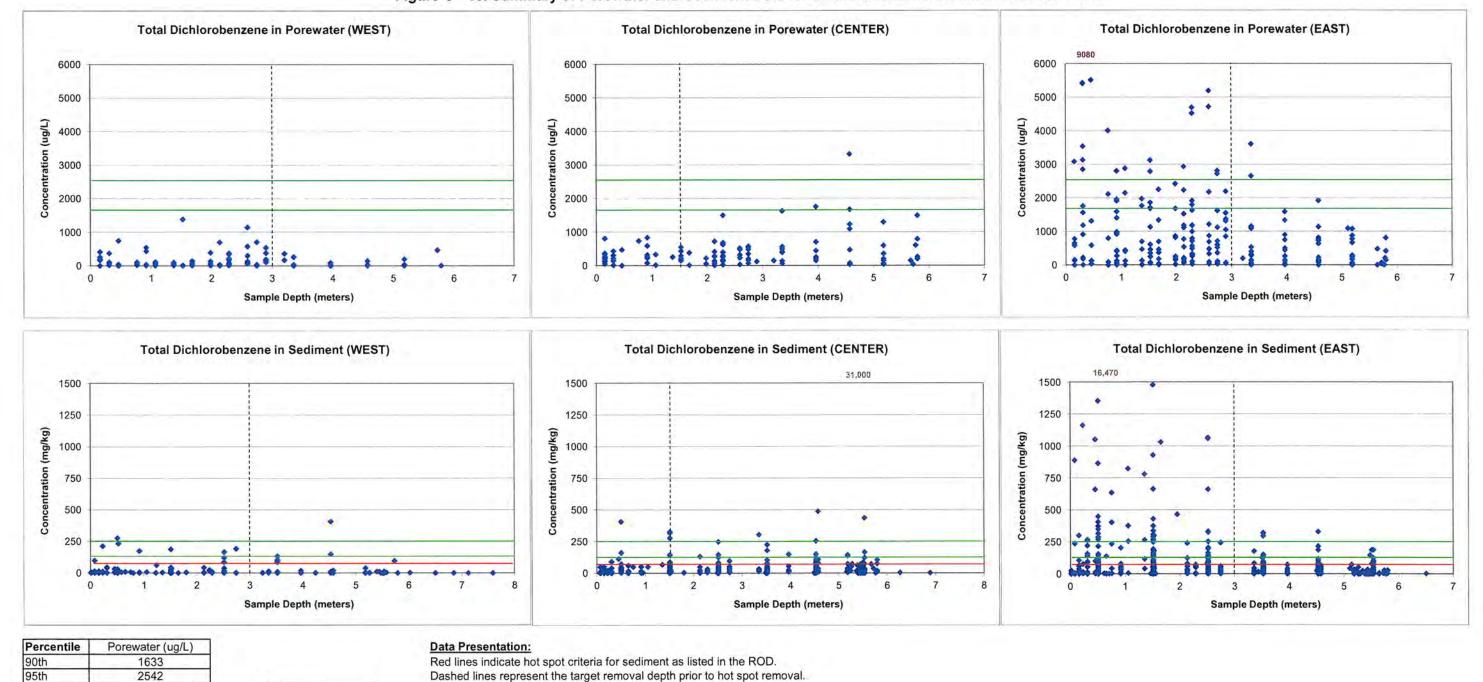
90th

95th

Hotspot

Criterion

(mg/kg)



Green lines indicate 90th and 95th percentile concentrations.

Figures incorporate data from RI and PDI Phases I through V.

Numbers in red denote concentrations beyond the range of the scatterplots.

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

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.

90

Therefore, some data points shown above the target removal depth may remain following dredging.

Hotspot

Criterion

(mg/kg)

Sediment (mg/kg)

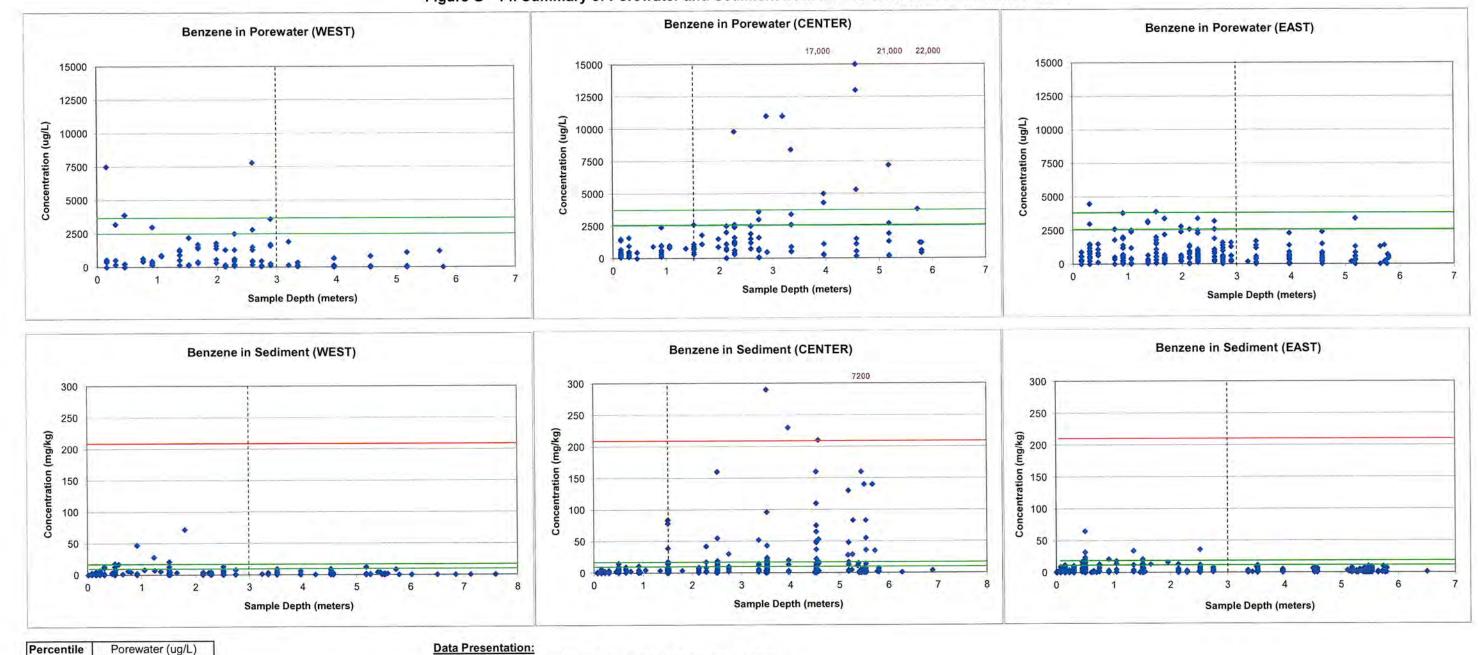
128

250

Percentile

90th

95th



Red lines indicate hot spot criteria for sediment as listed in the ROD.

Green lines indicate 90th and 95th percentile concentrations.

Figures incorporate data from RI and PDI Phases I through V.

Dashed lines represent the target removal depth prior to hot spot removal.

Numbers in red denote concentrations beyond the range of the scatterplots.

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

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.

208

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

90th

95th

90th

95th

Percentile

2500

3400

Sediment (mg/kg)

11

Hotspot

Criterion

(mg/kg)

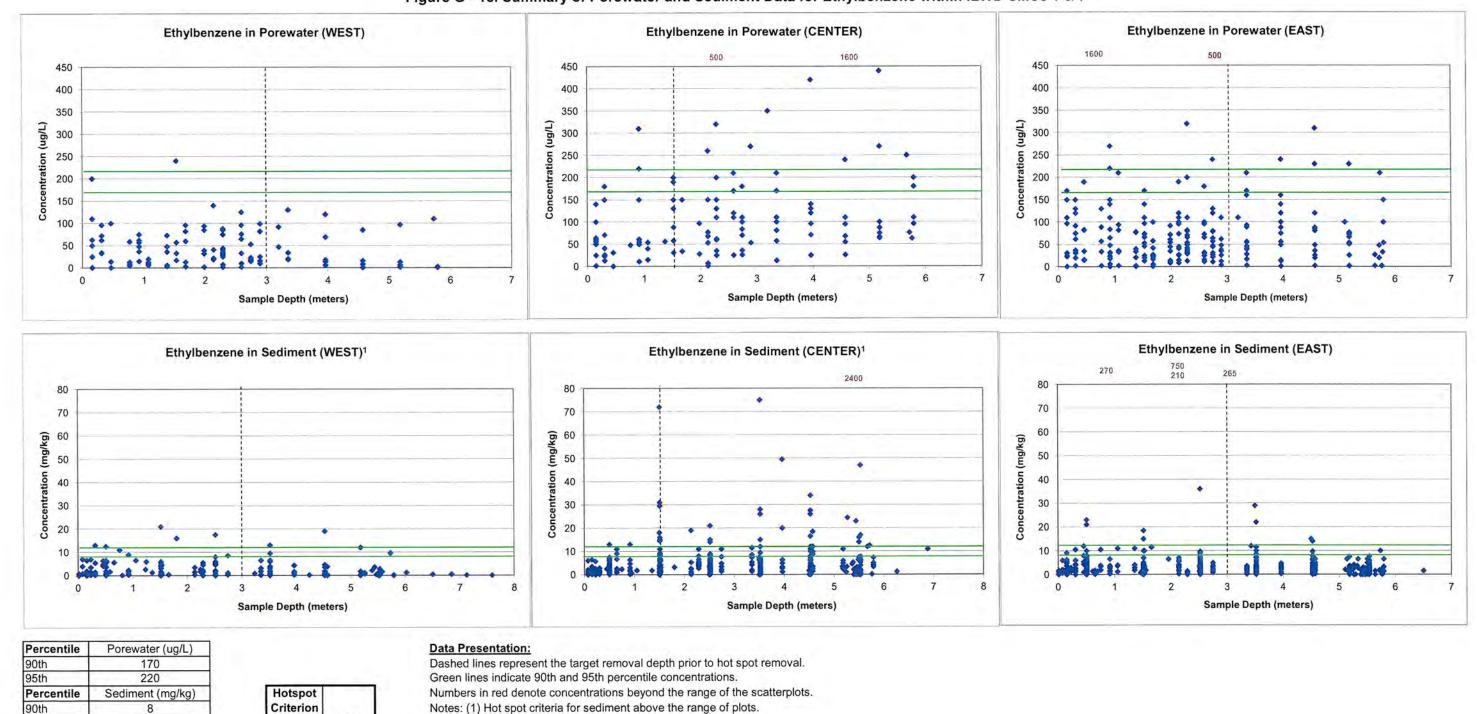


Figure G - 15. Summary of Porewater and Sediment Data for Ethylbenzene within ILWD SMUs 1 & 7

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.

Figures incorporate data from RI and PDI Phases I through V.

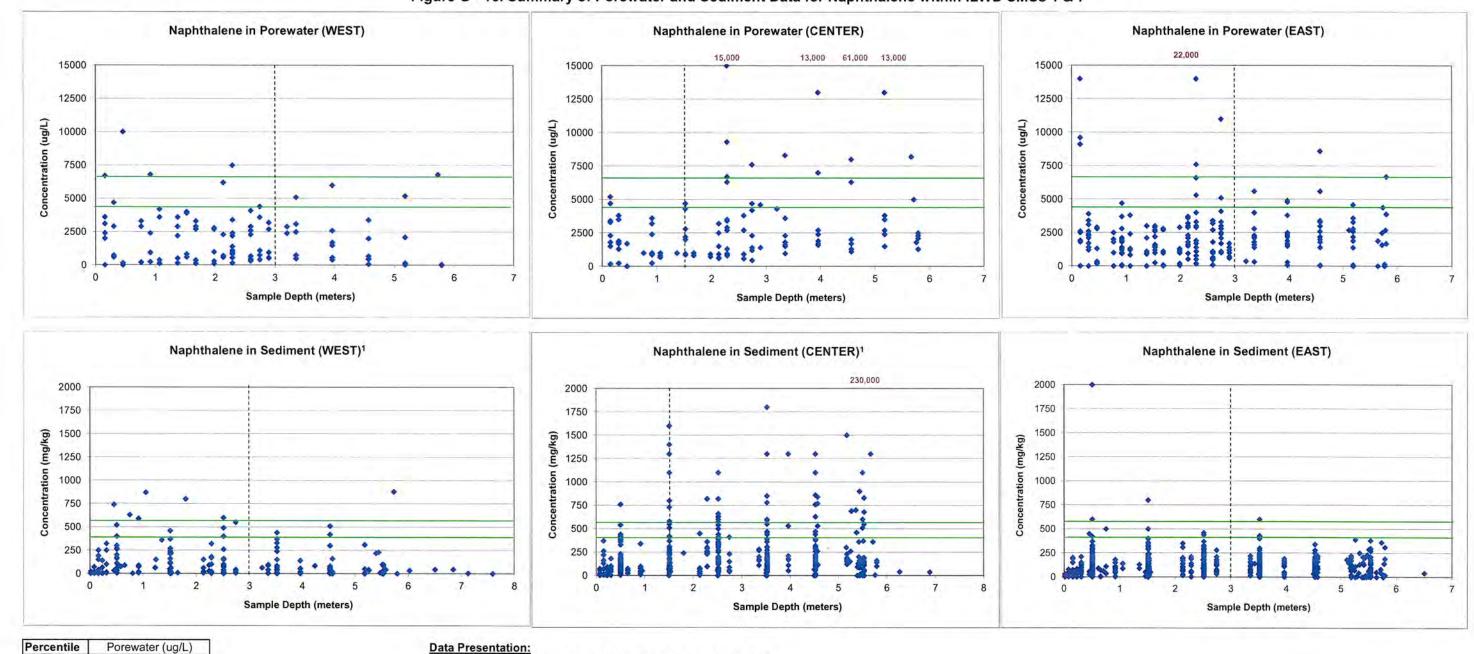
1,655

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

12

95th

(mg/kg)



Red lines indicate hot spot criteria for sediment as listed in the ROD.

Green lines indicate 90th and 95th percentile concentrations.

Notes: (1) Hot spot criteria for sediment above the range of plots. Figures incorporate data from RI and PDI Phases I through V.

Dashed lines represent the target removal depth prior to hot spot removal.

Numbers in red denote concentrations beyond the range of the scatterplots.

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

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.

95th

90th

95th

Percentile

4610

6700

Sediment (mg/kg)

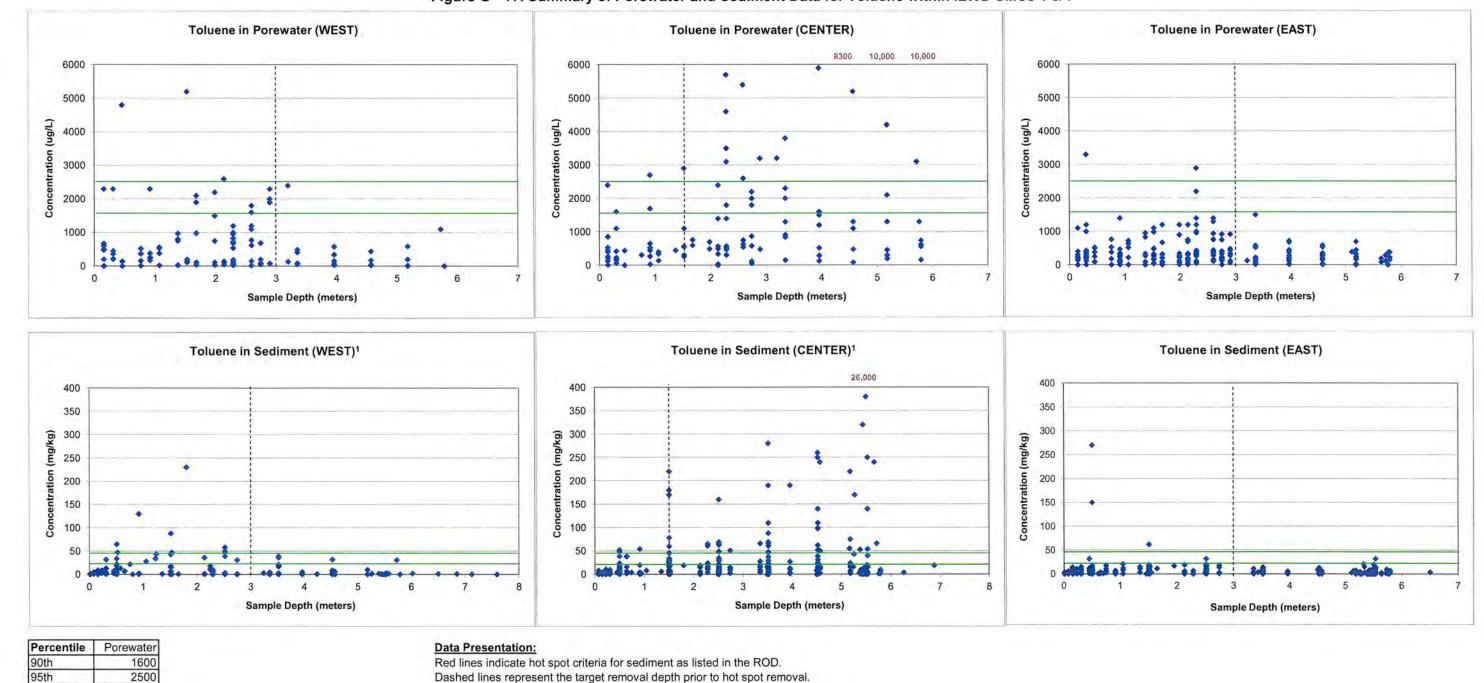
360

526

Hotspot

Criterion

(mg/kg) 20,573



Green lines indicate 90th and 95th percentile concentrations.

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

Figures incorporate data from RI and PDI Phases I through V.

Numbers in red denote concentrations beyond the range of the scatterplots.

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

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.

Sediment

21

47

Percentile

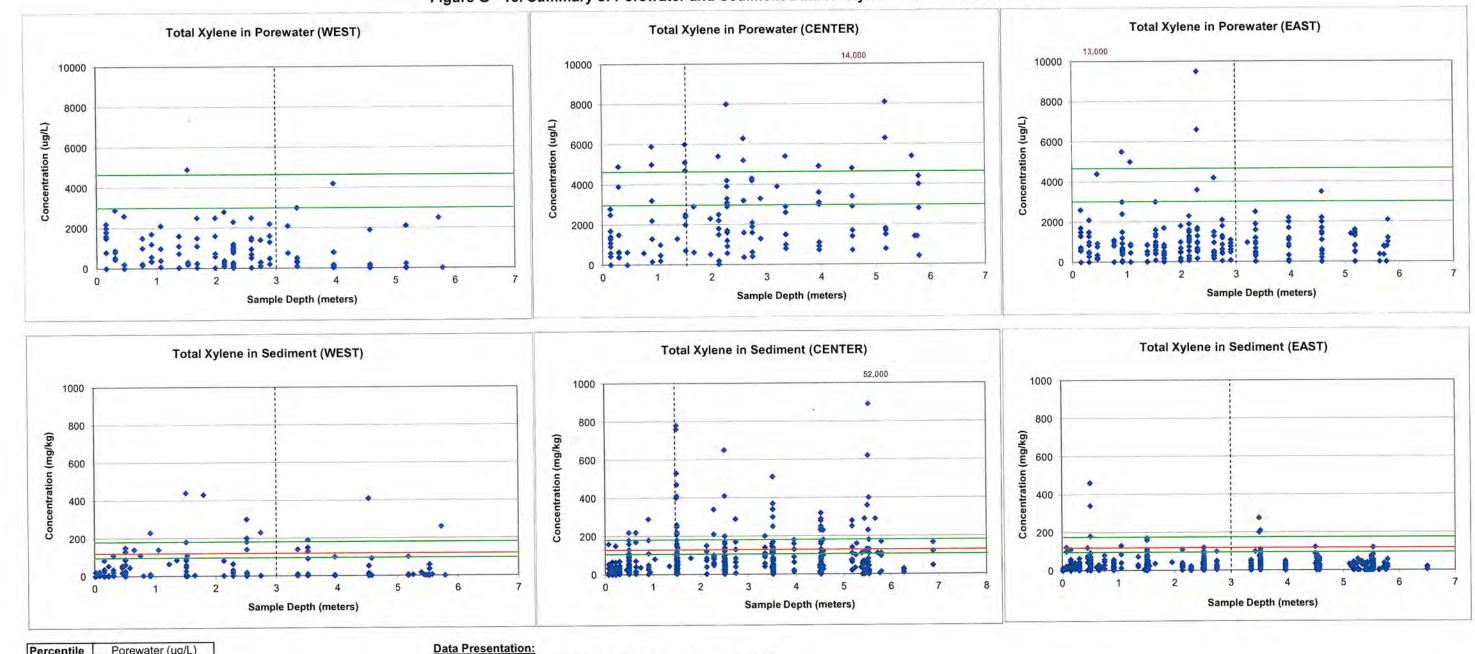
90th

95th

Hotspot

Criterion

2.626



Red lines indicate hot spot criteria for sediment as listed in the ROD.

Green lines indicate 90th and 95th percentile concentrations.

Figures incorporate data from RI and PDI Phases I through V.

Dashed lines represent the target removal depth prior to hot spot removal.

Numbers in red denote concentrations beyond the range of the scatterplots.

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

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.

142

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

Percentile

Percentile

90th

95th

90th

Porewater (ug/L)

3000

4550

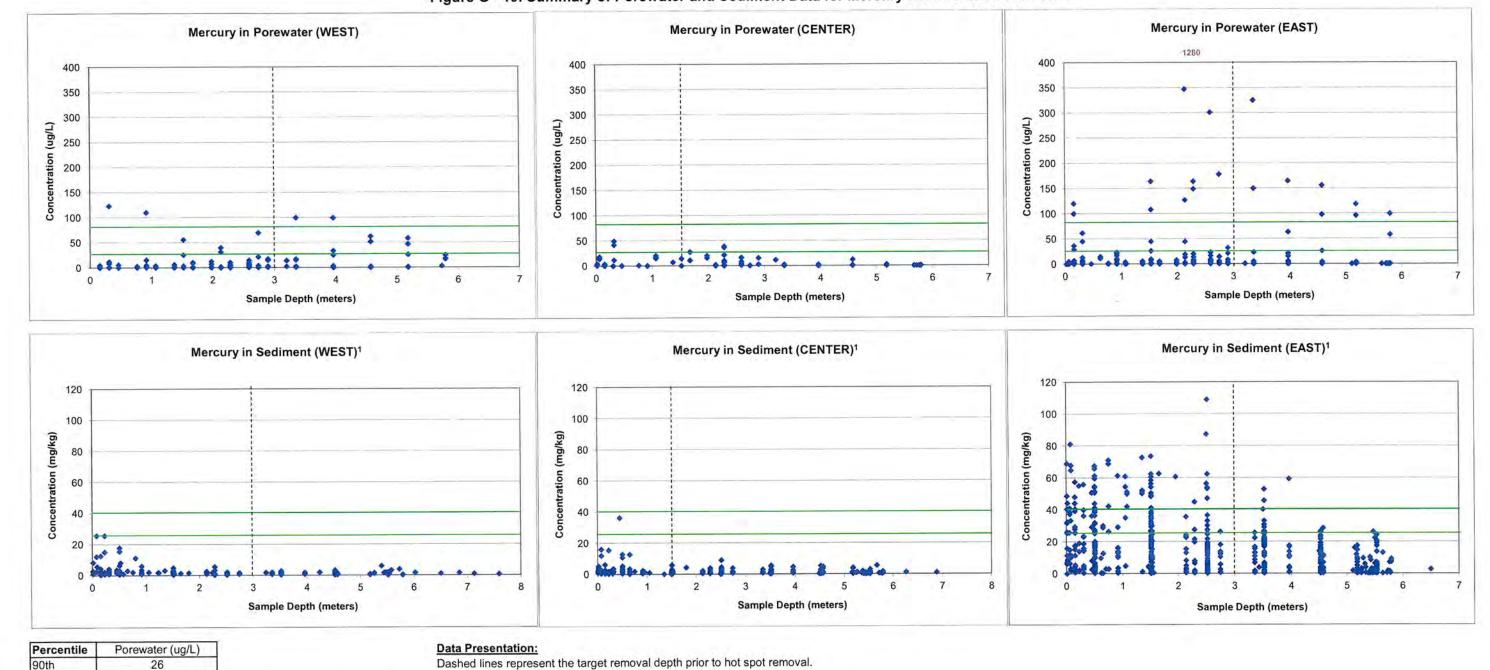
Sediment (mg/kg)

127

Hotspot

Criterion

(mg/kg)



Green lines indicate 90th and 95th percentile concentrations.

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

Figures incorporate data from RI and PDI Phases I through V.

Numbers in red denote concentrations beyond the range of the scatterplots.

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

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.

95th

90th

95th

Percentile

79

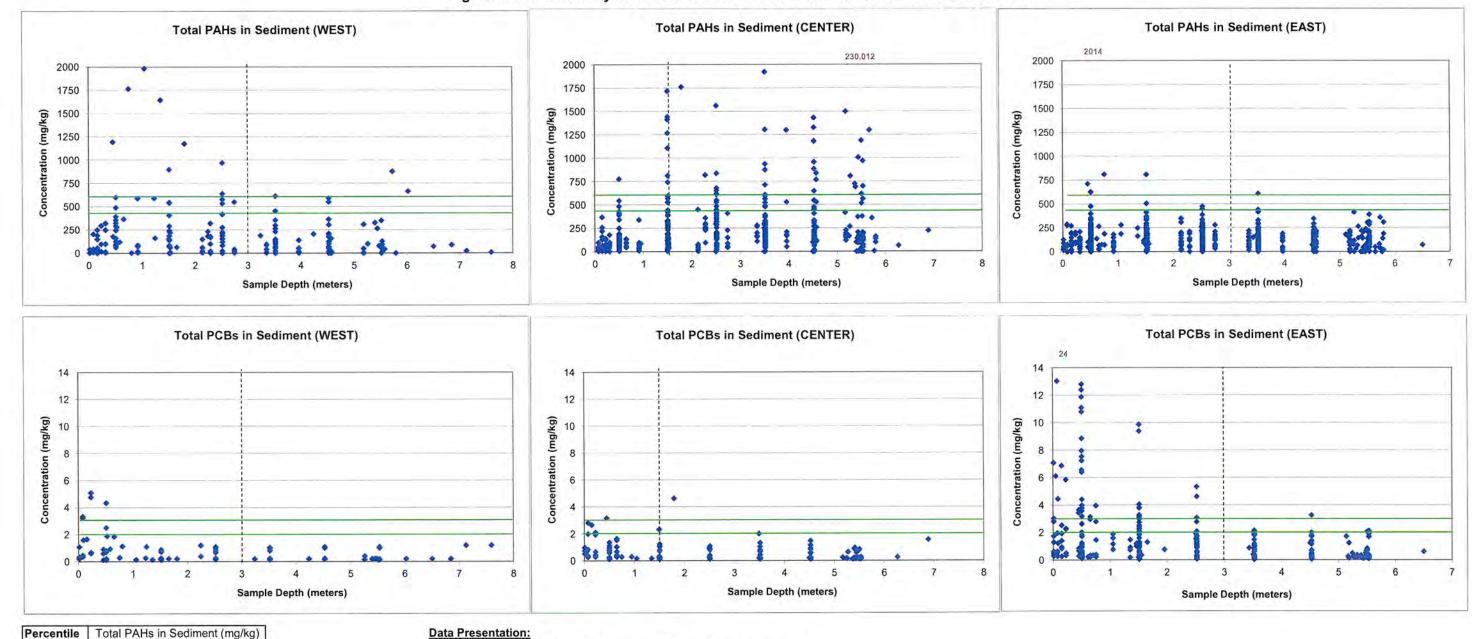
Sediment (mg/kg)

26

Hotspot

Criterion

(mg/kg) 2,924



Dashed lines represent the target removal depth prior to hot spot removal.

Numbers in red denote concentrations beyond the range of the scatterplots.

Green lines indicate 90th and 95th percentile concentrations.

Figures incorporate data from RI and PDI Phases I through V.

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

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.

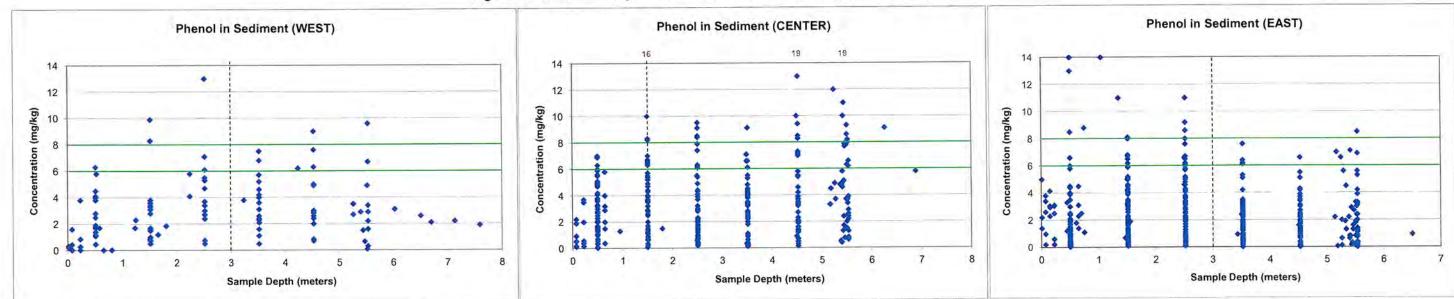
95th

Percentile

600

Total PCBs in Sediment (mg/kg)

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.

0

Chlorobenzene in Porewater

Chlorobenzene in Porewater

Chlorobenzene in Porewater

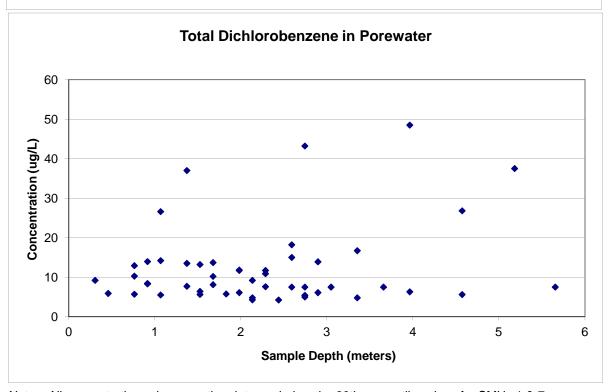
Chlorobenzene in Porewater

3

Sample Depth (meters)

2

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.

60

40

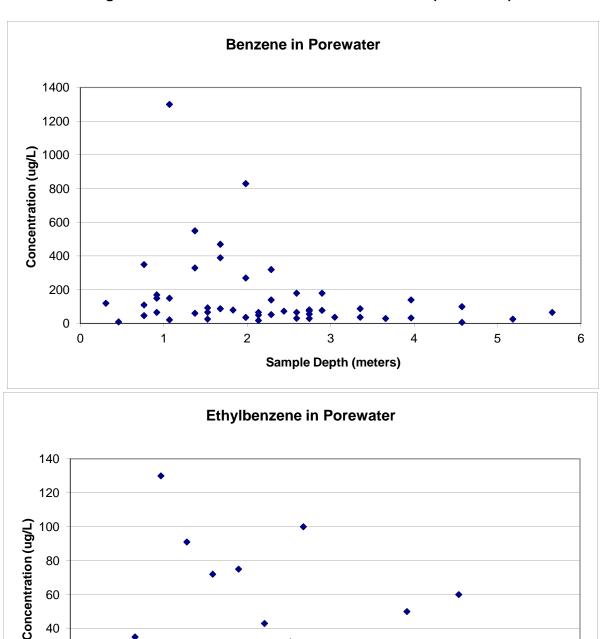
20

0

0

1

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.

3

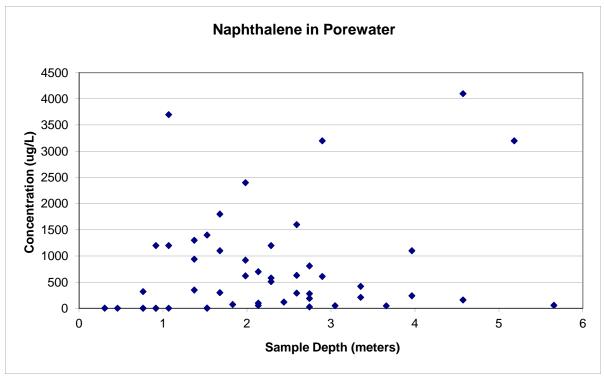
Sample Depth (meters)

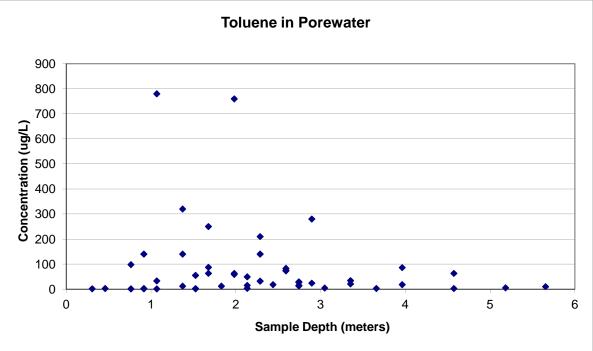
2

6

5

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

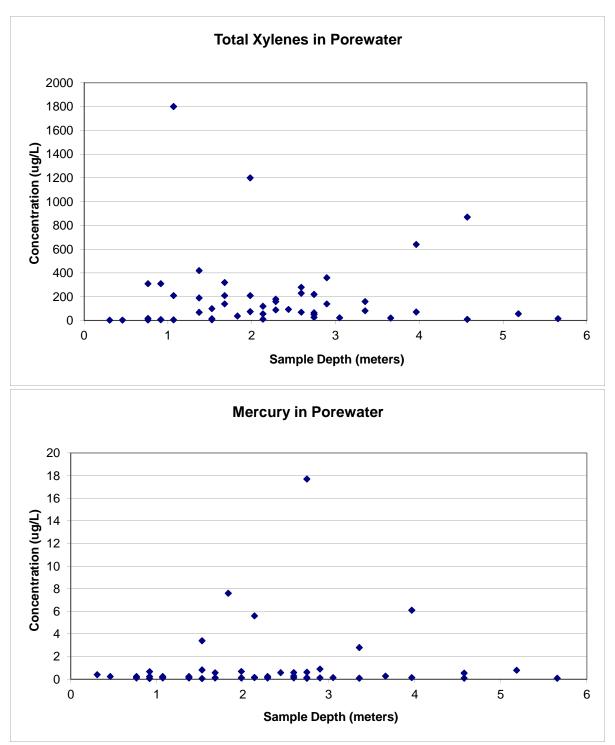




Notes: All concentrations shown on the plots are below the 90th percentile values for SMUs 1 & 7.

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)



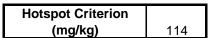
Notes: All concentrations shown on the plots are below the 90th percentile values for SMUs 1 & 7.

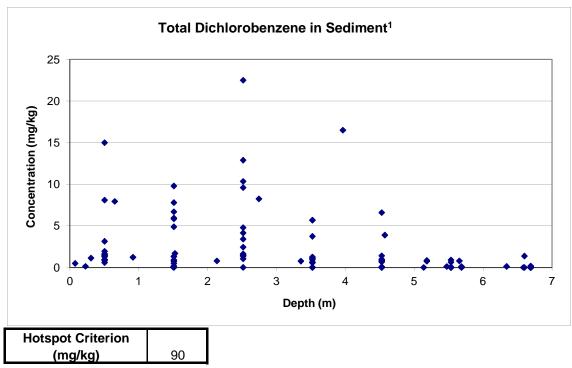
Non-detects were set at 1/2 the MDL. Plots incorporate data from PDI Phases I through V.

Chlorobenzene in Sediment

700
600
400
200
100
0
1 2 3 4 5 6 7
Depth (m)

Figure G-23. SMU2 ILWD Sediment Data





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.

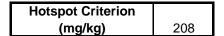
Notes: (1) Hot spot criteria for sediment above the range of plots.

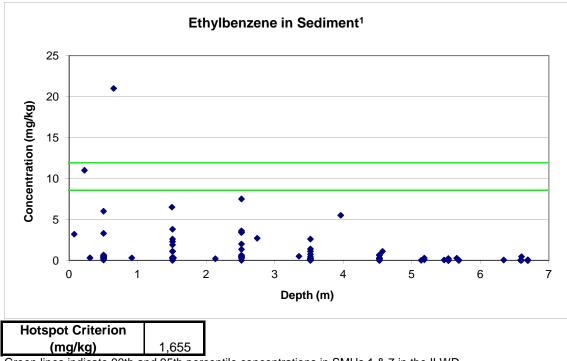
Non-detects were set at 1/2 the MDL.

Benzene in Sediment<sup>1</sup>

10
8
6
4
2
0
1
1
2
3
4
5
6
7
Depth (m)

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.

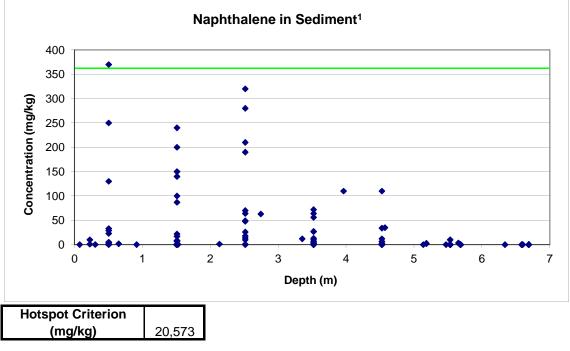
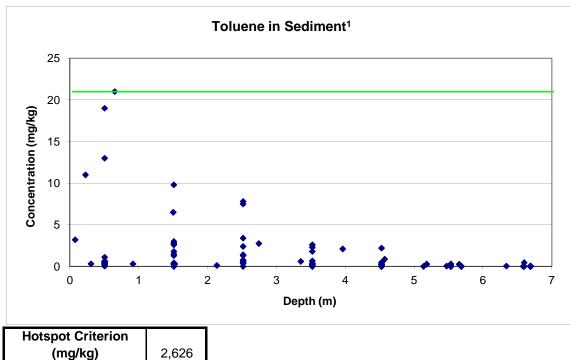


Figure G-23. SMU 2 ILWD Sediment Data (continued)



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.

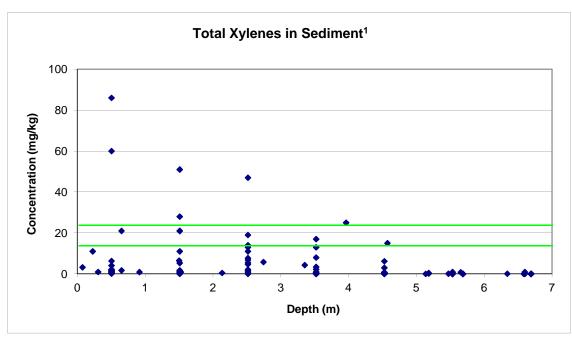
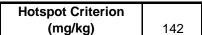
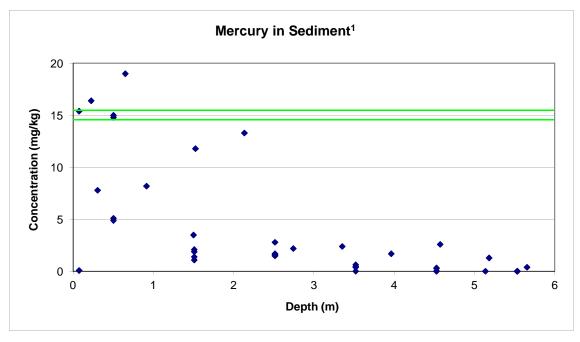


Figure G-23. SMU 2 ILWD Sediment Data (continued)





Hotspot Criterion (mg/kg) 2,924

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.

