

Using the Map Book

The attached map book consists of five maps moving upstream at 2 mile increments within the Portland Harbor Superfund site:

- Map 1: River Mile 1.9 to 4
- Map 2: River Mile 4 to 6
- Map 3: River Mile 6 to 8
- Map 4: River Mile 8 to 10
- Map 5: River Mile 10 to 12

Each map has layers representing the surface and subsurface sample locations, contaminated river banks, groundwater plume areas, benthic risk areas, and technology assignment areas that can be turned on or off using the navigation pane. Please note that layers turned on or off in one map do not affect layers in another map. Each map must be manipulated separately.

Using Layers

In order to access the layers in each map, turn on the navigation pane by clicking on the layers icon (Figure 1) or going to *View > Show/Hide > Navigation Panes > Layers*.

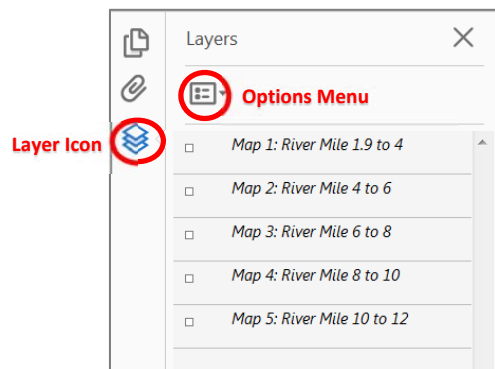



Figure 1. Navigation Pane with Layers

The navigation pane should list each of the five maps that can be expanded to list the layers within each map. In order to only view the layers of the visible map, go to Options Menu > List Layers for Visible Pages (Figure 1). This menu can also be used to expand or collapse all folders and reset to the initial visibility.

Click on any folder to expand subfolders. All of the available layers for each Map are listed in Map Layers folder as shown in Figure 2.

Use eye icon  to turn layers on or off. To see subfolders and layers, the upper folder must be visible (eye icon showing).

The layer order is the same as shown in the document – the uppermost layers are on top. Upper layers that are turned on can hide lower layers.

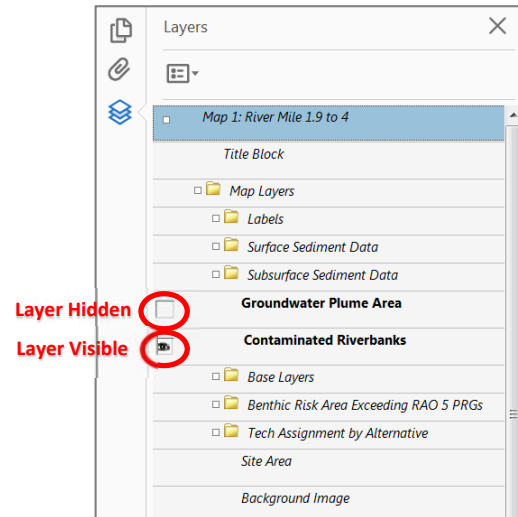


Figure 2. Main folders for each map document

Surface and subsurface sediment data layers are organized by contaminant with sub-layers for detect and non-detect samples. In order to see sub-layers, the main contaminant folder must be visible (eye icon showing) as shown in Figure 3.

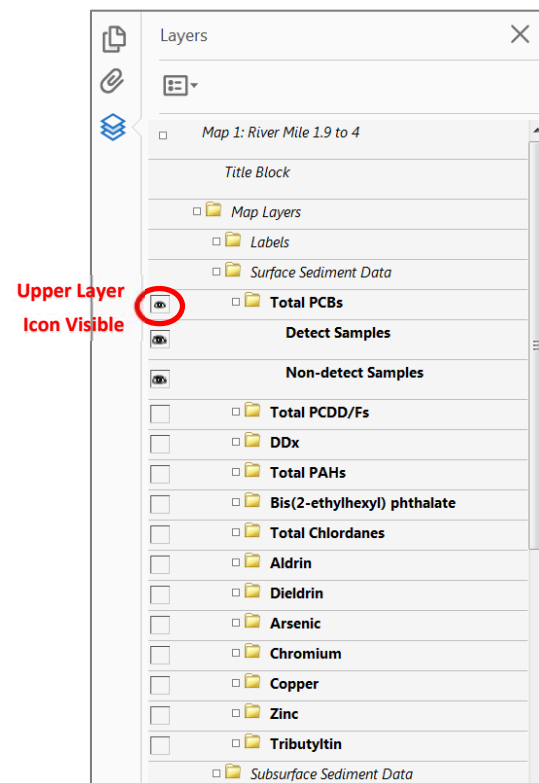


Figure 3. Surface Sediment Contaminants Listed

Legend for All Maps

Surface and Subsurface Sediment

Open circles are detected samples and circles with a point in the center are non-detect samples, regardless of color

- Detected
- ◉ Not Detected

Colors represent different bins based on the contaminant concentration range. The following describes the colors used for each contaminant.

Total PCBs (ug/kg)

- ≤ 9
- >9 - 50
- >50 - 75
- >75 - 200
- >200 - 500
- >500 - 750
- >750 - 1,000
- >1,000

Total PCDD/Fs (ug/kg)

- ≤0.045
- >0.045 - 1.8
- >1.8 - 3.0
- > 3.0 - 4.7
- > 4.7 - 6.3
- >6.3 - 9.0
- >9.0 - 13
- >13

DDx (ug/kg)

- <6
- >6 - 40
- >40 - 160
- >160 - 300
- >300 - 450
- >450 - 550
- >550 - 650
- >650

Total PAHs (ug/kg)

- <5,400
- >5,400 - 13,000
- >13,000 - 17,000
- >17,000 - 35,000
- >35,000 - 69,000
- >69,000 - 130,000
- >130,000 - 170,000
- >170,000

Bis(2-ethylhexyl)phthalate (ug/kg)

- <500
- >500 - 1,000
- >1,000 - 1,500
- >1,500 - 2,500
- >2,500 - 3,500
- >3,500 - 30,000
- >30,000

Total Chlordanes (ug/kg)

- <1.5
- >1.5 - 5.0
- >5.0 - 10
- >10 - 20
- >20 - 50
- >50

Aldrin (ug/kg)

- <2.0
- >2.0 - 5.0
- >5.0 - 10
- >10 - 20
- >20 - 50
- >50

Dieldrin (ug/kg)

- <0.07
- >0.07 - 4.9
- >4.9 - 10
- >10 - 20
- >20 - 50
- >50

Arsenic (mg/kg)

- <3.0
- >3.0 - 10
- >10 - 14
- >14 - 20
- >20 - 25
- >25

Chromium (mg/kg)

- <25
- >25 - 72
- >72 - 100
- >100 - 200
- >200

Copper (mg/kg)

- <50
- >50 - 100
- >100 - 200
- >200 - 400
- >400 - 1,000
- >1,000

Zinc (mg/kg)

- <500
- >500 - 1,000
- >1,000 - 2,000
- >2,000 - 3,200
- >3,200 - 4,500
- >4,500

Tributyltin (ug/kg)

- <47
- >47 - 100
- >100 - 200
- >200 - 500
- >500 - 1,000
- >1,000

Legend for All Maps (Continued)

Surface Water Locations

- ▲ Surface Water Locations (Grab)
- ▲ XAD Surface Water Locations

Sediment Trap Locations

- ◆ In River Sediment Trap
- ◆ Outfall Sediment Trap

2012 Smallmouth Bass Tissue Study

- 2012 Smallmouth Bass Tissue Study

Benthic Risk Area Exceeding RAO 5 PRGs

- > 100 x RAO 5 PRGs
- > 10 x RAO 5 PRGs
- > RAO 5 PRGs

SMA for Selected Remedy



Technology Assignment for Selected Remedy

- MNR
- ENR
- Cap
- Dredge
- Dredge in Nav-FMD
- Dredge with Cap

Base Layers

Site Area



Groundwater Plume Area



Contaminated Riverbanks



Sediment Decision Units



River Flow Direction



Navigation Channel



River Mile



McCormick and Baxter Cap

