CHAPTER II FIGURES
CHAPTER II

SECTION 1 FIGURES
Revise sediment sample Tin PCB results and calculates arithmetic average Tin PCB concentration for certification unit.

Has certification unit extended to the river bank where it is subject to 2 ft cut and stable slope limitations OR is the shoreline elevation < 117 ft?

Yes

Go To B: Residual Flow Chart for CU\textit{s} with Shoreline Inventory Below 2 ft (Fig. 3-33)

No

Is the depth of contamination TinCU) > 6 inches for all inventory removed?

Yes

No

Petition EPA to re-dredge or to cap identified non-compliant nodes such that CU avg. < 1 mg/kg. Place backfill in uncapped areas.

Have 4 or more dredging passes been conducted?

Yes

Redredge

No

Cap

Have 2 or more dredging passes been made for CU with layer only?

Yes

Option 1 Redredge

No

Option 2 Cap

Select the nodes of concern contributing to an average > 1.0, including nodes with concentrations > 15 mg/kg, and/or Tin > 6 inches.

Backfill the remaining area. * (Additional dredging attempts may be made at the contractor’s discretion.)

End

Notes:

a) Shaded figures represent primary certification path.

b) Areas can be dredged more than 4 passes if no delay to the project schedule will be incurred.

c) Subaqueous caps will not be placed in areas of shallow bedrock located in the navigation channel.

d) Placement of additional backfill is contingent on sufficient water depth.

e) All concentration criteria represent units for Tin PCBs unless otherwise noted.

f) Redredging at shoreline to remove areas with Total PCB greater than 50 mg/kg do not count in the tally of dredging passes.

Dredge to design cut line and collects and analyses post-dredging cores per Residuals Standard and Shoreline/Slope Stability Sampling Requirements.

Backfill the area for capping, such that the mean of the uncapped area alone is < 1 mg/kg, and no sample > 15 mg/kg.

Select the area for capping, such that the mean of the uncapped area alone is < 1 mg/kg, and no sample > 15 mg/kg.

Select the nodes of concern contributing to an average > 1.0, including nodes with concentrations > 15 mg/kg, and/or Tin > 6 inches.

Redredge and collect and analyze post-dredging cores.

Standard and Shoreline/Slope Stability Sampling Requirements.

Optional

Have 4 or more dredging passes been conducted?

Yes

Redredge

No

Cap

Redredge and collect and analyze post-dredging cores.

Proposed Residual Flow Chart for All Certification Units

Figure II-1.1.4-1

March 2010

EPA Phase 1 Evaluation Report - Hudson River PCBs Site
All shoreline samples less than 50 mg/kg Total PCB?

- Characterize the DoC, redredge non-compliant shoreline area and re-sample.  
- Identify shoreline nodes with concentrations ≥ 15 mg/kg to be capped.

Is there any shoreline node to be capped (DoC PCB > 15 mg/kg)?

- Identify shoreline nodes with concentrations ≥ 15 mg/kg to be capped.

Is the depth of contamination (DoC) < 6 inches (i.e., all inventory removed)?

- Yes: Have 8 or more dredging passes been conducted?
  - Yes: Option 1: Redredge and collect and analyze post-dredging cores.
  - No: Option 2: Cap

- No: Select the nodes of concern contributing to an average > 1.0, including nodes with concentrations ≥ 15 mg/kg, and/or DoC ≥ 6 inches.

Have 8 or more dredging passes been conducted?

- Yes: Option 1: Redredge and collect and analyze post-dredging cores.
  - No: Option 2: Cap

- No: Select the area for capping, such that the mean of the uncapped area alone is ≥ 1 mg/kg, and no sample ≥ 15 mg/kg.

Is there a shoreline area node to be capped (DoC PCB > 15 mg/kg)?

- Yes: Identify shoreline nodes with concentrations > 15 mg/kg to be capped.

- No: Is the depth of contamination (DoC) < 6 inches (i.e., all inventory removed)?

- Yes: Have 4 or more dredging passes been conducted?
  - Yes: Option 1: Redredge.
  - No: Option 2: Cap.

- No: Select the area for capping, such that the mean of the uncapped area alone is ≥ 1 mg/kg, and no sample ≥ 15 mg/kg.

- Option 3: Construct subaqueous cap over noncompliant area.  
  - [Additional dredging attempts may be made at the contractor’s discretion.]

- Backfill the remaining area.

Certification Unit Complete

- Proposed Residual Flow Chart for CU2 with Shoreline Inventory below 2 ft

EPA Phase 1 Evaluation Report - Hudson River PCBs Site

March 2010