

TABLES

Table 2.2-1
Total PCB Loads (kg) Computed by the EPA Model for a Scenario with Nominally 650 kg of
PCBs Resuspended and Transported to the First Far-field Station¹

	1st Far-Field Station	Duration of Dredging	Resuspension Load at 1st Far-Field Station	Resuspension Load Reaching Waterford	Net Load Above Baseline (MNA) at Waterford
Thompson Island Pool	Thompson Island Dam	21 months	400	159	119
River Section 2	Schuylerville (Lock 5)	7 months	128	93	39
River Section 3	Waterford	7 months	128	128	31
Sums			656	380	189

Note:

¹Numbers from Tables 28 and 30 of Attachment D of the Resuspension Performance Standard Converted to Total PCB using factors presented on page 67 of the Attachment

Table 2.2-2
Summary of Resuspension Standard Criteria for Phase 1
(as taken from the PSCP, Table 2-1)

Parameter		Evaluation Level		Control Level		Standard Level	
		Limit	Duration	Limit	Duration	Limit	Duration
Far-Field PCB Concentration	Total PCBs			350 ng/L	7-day running average	500 ng/L	Confirmed occurrence
Far-Field Net PCB Load	Total PCBs			117 kg/year	Phase 1 dredging season		
	Tri + PCBs			39 kg/year			
	Total PCBs	541 g/day	7-day running average	1,080 g/day	7-day running average		
	Tri + PCBs	180 g/day		361 g/day			
Far-Field Net Suspended Solids Concentration	TSS	12 mg/L	24-hour average	24 mg/L	24-hour average		
Near-Field (300 m) Net Suspended Solids Concentration	TSS	100 mg/L	6-hour average net increase over background	100 mg/L	6-hour average net increase over background		
Near-Field (100 m and Channel-Side) Net Suspended Solids Concentration	TSS	700 mg/L	Calculated from discrete turbidity measurements made in 2 sampling events per day				

Notes:

g/day = grams per day

kg/year = kilograms per year

ng/L = nanograms per liter

mg/L = milligrams per liter

**Table 2.2-3
Summary of the Performance Standard for Dredging Residuals
(as taken from the PSCP, Table 4-1)**

Case	CU Arithmetic Average (mg/kg Tri+ PCBs)	No. of Sample Results \geq 15 mg/kg Tri+ PCBs AND $<$ 27 mg/kg Tri+ PCBs	No. of Sample Results \geq 27 mg/kg Tri+ PCBs	No. of Re-Dredging Attempts	Required Actions (when all conditions are met)*
A	avg. \leq 1	\leq 1	0	N/A	Backfill CU (where appropriate); no testing of backfill required
B	N/A	\geq 2	N/A	$<$ 2	Re-dredge sampling nodes and re-sample those re-dredged nodes
C	N/A	N/A	1 or more	$<$ 2	Re-dredge sampling node(s) and re-sample the re-dredged node(s)
D	1 $<$ avg. \leq 3	\leq 1	0	N/A	Evaluate 20-acre area-weighted average concentration. If 20-acre area-weighted average concentration \leq 1 mg/kg Tri+ PCBs, place and sample backfill. **If 20-acre area weighted average concentration $>$ 1 mg/kg, follow actions for Case E below
E	3 $<$ avg. \leq 6	\leq 1	0	$<$ 2	Construct sub-aqueous cap immediately OR re-dredge. Construct cap so that arithmetic avg. of uncapped nodes is \leq 1 mg/kg Tri+ PCBs, no nodes $>$ 27 mg/kg Tri+PCBs and not more than one node $>$ 15 mg/kg Tri+ PCBs
F	avg. $>$ 6	N/A	N/A	0	Collect additional sediment samples to re-characterize vertical extent of contamination and re-dredge. If CU median $>$ 6 mg/kg Tri+ PCBs, entire CU must be sampled for vertical extent. If CU median \leq 6 mg/kg Tri+ PCBs, additional sampling required only in portions of CU contributing to elevated mean concentration
G	avg. $>$ 6	N/A	N/A	1	Re-dredge. ***
H	avg. $>$ 1 (20-acre avg. $>$ 1)	\geq 2	\geq 1	2	Construct sub-aqueous cap (if any of these arithmetic average/sample result conditions are true) as described in Case E and two re-dredging attempts have been conducted OR choose to continue to re-dredge

Notes:

- * Except for Case H, where any of the listed conditions will require cap construction.
- ** Following placement of backfill, sampling of 0- to 6-inch backfill surface must demonstrate average concentration \leq 0.25 mg/kg Tri+ PCBs. If backfill surface average concentration is $>$ 0.25 mg/kg, backfill must be dredged and replaced or otherwise remediated with input from EPA.
- *** GE shall not install an Isolated Cap Type B without receiving EPA approval to cease re-dredging attempts, except for CUs where the average concentration in the CU is less than 6 mg/kg Tri+ PCB and the only non-compliant areas are due to exceedances of the 15 mg/kg or 27 mg/kg Tri+ PCBs action levels.

N/A not applicable
 avg. average
 mg/kg milligram per kilogram