

Slip 4 Cleanup Plan

Recommendations and Community Response

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Summary

- DRCC is EPA's Community Advisory Group: represents 10 organizations
- Hired independent technical/science advisor to review plans & advise community
- Benefits and concerns identified
- 2 major, plus several smaller recommendations



Contaminants

- PCB's – driving the process
- Phthalates
- PAH's
- Oil
- phenol
- Stormwater- lead, mercury, zinc, organics, arsenic
- Lead
- Zinc
- Arsenic
- Silver
- Cadmium
- Mercury

Alternatives Presented

- #1: dredge the least; cap; buy property
- **#2: dredge most of the most contaminated at the surface; cap rest; improve habitat; buy property**
- #3: dredge much more; armoring; ship berth remains active
- #4: dredge most but not all; armoring; includes “natural recovery”; ship berth remains active

Alternatives *Not* Presented

- No Action
 - leave sediment alone
- **Maximum Removal Feasible**
 - remove all contaminated sediment possible
 - “dig to clean”

What will it cost?

OPTION	COST
No Action	\$0/unk.
1	\$6.0M
2	\$6.9M
3	\$8.7M
4	\$11.2M
Max Removal	\$15–20M

Value Added

Alternative 2

- Builds habitat
- Adds public land
- Potential for building public access and view improvements
- May link with other local environmental and community improvement projects

Problems

- No thorough documentation of the effectiveness of capping
- No data on groundwater flow beneath the slip - cap integrity from flow
- Source control is incomplete - Boeing absent from inspections, but PCB's in drains
- All options leave some contamination
- How to deal with scouring

Core Recommendations

- Must demonstrate the effectiveness of capping and publish a report on the capping success and failure rate in this region; independently review design
- Complete ongoing source ID and effective control plan before cleanup
- Dredge additional surface hotspot at SL4-10A/SL4-5A/SCO4/SD0063

Recommendations

- Monitoring and cap inspections before 5 years: monitoring at 1,2,3,5; annual visual inspections
- Must show that groundwater coming up beneath the bottom of slip 4 will not disturb the lower layers [I.e., how is cap constructed to accommodate hydrostatic pressure from GW, while not allowing contaminants through]
- What happens with less than ideal results? Need contingency plans and requirements for inspections, maintenance and repair.
- Mark the end of navigation to provide clear protection from ship traffic.

Thank you

Questions?

