

## Lower Coeur d'Alene Basin Pilot Projects Proposal Matrix

Category	Location	Method	Number of Proposals	Description of Proposed Project
Ecological risk reduction	Floodplain	Isolate or remove contaminated soil	4	Soil inversion, deep plowing, thin-layer capping, or removal to prevent exposure to surface soils. Monitoring of vegetation growth.
		Hydraulic control	5	Evaluate flap gates and levee height and use models to evaluate and test flood control structures to prevent influx of contaminated sediment into wetlands.
		Management technique	5	Use water level management, vegetation, and various devices to deter and/or attract waterfowl away from more contaminated to less contaminated feeding areas during migration season.
		Soil amendments	2	Use soil amendments (wood waste, phosphorus, fungi) to tie up and stabilize metals and/or reduce bioavailability of lead to feeding waterfowl.
		Other	1	Property offered for remediation and development into public recreation area.
Human risk reduction	Banks	Removal	1	Remove contaminated sediment from point bars and/or banks.
		Stabilize and treat banks	5	Stabilize and treat riverbanks to prevent direct exposure and further releases to the river.
	Beach	Beach armoring	1	Placement of large, sharp rocks on attractive recreational areas to minimize the exposure of children to contaminated sediments. Monitor effectiveness with cameras.
	Roads	Cap/Elevate Roads	6	Paving, graveling, or elevating roadways to reduce dust and exposure.
Source control	Banks	Management technique	1	Reducing activities (i.e. boat wakes) that contribute to bank erosion and releases of contaminants.
		Riverbank stabilization	1	Evaluate techniques for treating or capping riverbanks to prevent further releases to the river.
	Floodplain	Bio-remediation	1	Bioremediation by harvesting and remediating plants that extract contaminants from soil. Research mushroom use in bioremediation ( <i>pluerotus ostreatus</i> ).
		In-water repository evaluation	1	Evaluate an in-water repository for contaminated sediments with the goal of isolating contaminated sediments in Coeur d'Alene Lake.
	Bed	Capping river bed	4	Evaluate techniques for treating or capping the riverbed to prevent further releases to the river.
		Dredging and settling	3	Evaluate dredging methodologies for hot spots, off-channel settling ponds, and temporary river re-routes.
		Dredging and sediment trap	4	Reduce movement of contaminated sediment within the river with sediment traps of various sorts.
		Hydraulic control	5	Use hydraulic controls to reduce recontamination by blocking contaminant laden flood water from entering wetland areas.
Repository siting		1	Property offered as potential site for repository.	
Education	Other	Education	1	Construction of a community-based educational research site for students to conduct pilot tests using approved materials and methods for environmental remediation field studies.

Note: Some proposals fit into more than one category. Therefore, single proposals may be counted more than once in "number of proposals" category.