

# Idaho Department of Environmental Quality



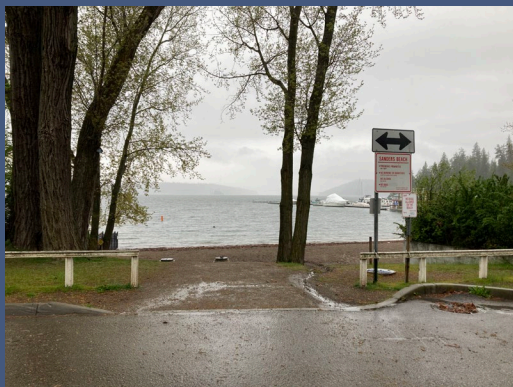
## Coeur d'Alene Lake Management Update

Jamie Brunner  
May 17, 2023



# Leading Idaho for Coeur d'Alene Lake

- Total of \$33 million for projects
- Coeur d'Alene Lake Advisory Committee (CLAC)
- Final CLAC ranking meeting March 23, 2023
  - Previous applications
  - Wastewater upgrades
  - NAS recommendations



# NAS Recommendations

- Science coordination team
- Watershed monitoring (incoming rivers and streams)
- Bays and shallower areas
- Human health risks
- Wastewater treatment upgrades

## Publications



2022

### The Future of Water Quality in Coeur d'Alene Lake

Coeur d'Alene Lake in northern Idaho is an invaluable natural, recreational, and economic resource for communities in Idaho and eastern Washington. Starting in the late 1880s, mining in the Lake's watershed sent heavy metals and other mining wastes into the Lake, resulting in contamination of lake sediments with lead, cadmium, arsenic, and zinc that persists today. The watershed was designated a Superfund site and cleanup has been ongoing for 30 years. However, the Lake's environmental quality and cleanup is overseen by a Lake Management Plan, originally implemented by the Coeur d'Alene Tribe and the state of Idaho. A major focus of that plan is whether lakeshore development might promote low-oxygen (anoxic) conditions that could release toxic metals from lake sediments back into the water column.

[Read Full Description](#)

#### RESOURCES

 [Report Highlights](#)

 [Press Release](#)

[View Report](#)

[www.nationalacademies.org/our-work/the-future-of-water-quality-in-coeur-dalene-lake](https://www.nationalacademies.org/our-work/the-future-of-water-quality-in-coeur-dalene-lake)

# Leading Idaho for Coeur d'Alene Lake

Project Name	Sponsor	\$\$ Total LI	State/ARPA
Mica Creek Restoration	Kootenai-Shoshone Soil and Water Conservatio	\$49,024	State
Coeur d'Alene Stormwater Outfall Volume Reduction: 11th St., East Mullan, Ind	City of Coeur d'Alene	\$1,363,000	State
Northside Stormwater Drainage Improvements: Marmot Trail	East Side Highway District	\$14,100	State
Kellogg Sustainable Stormwater Improvements: Italian Gulch, Hill St., & Bunke	City of Kellogg	\$570,000	State
Stormwater Goes to School	Kellogg Joint School District #931	\$415,000	ARPA
Kellogg Stormwater 2023: Gov't Gulch, East Kellogg, Maintenance Equipment	City of Kellogg	\$1,100,000	ARPA
Northside Stormwater Drainage Improvements: Sunnyside Rd.	East Side Highway District	\$643,830	ARPA
Wolf Lodge Creek Reach #5	Kootenai-Shoshone Soil and Water Conservatio	\$158,337	ARPA
Mica Creek Floodplain Access Improvement Project	Kootenai-Shoshone Soil and Water Conservatio	\$56,512	ARPA
Coeur d'Alene Stormwater Outfall Volume Reduction: East Sherman	City of Coeur d'Alene	\$190,000	ARPA
Kellogg Storm Water Management, Outstanding Areas, Area 4	City of Kellogg	\$1,000,000	ARPA
Schlegel Draw Depositional Area	Kootenai-Shoshone Soil and Water Conservatio	\$24,293	ARPA
Riverside Track Riverbank Stabilization	Kootenai-Shoshone Soil and Water Conservatio	\$44,207	ARPA
Northside Stormwater Improvements, Outfall Biochar Socks	East Side Highway District	\$32,100	ARPA
Powderhorn Bay	Gregory Brands & Kootenai-Shoshone SWCD	\$277,200	ARPA
CdA Science Coordination Team	Idaho Dept. of Environmental Quality	\$150,000	ARPA
St. Joe Watershed Nutrient Assessment	Coeur d'Alene Tribe	\$1,200,000	ARPA
Lake-focused Human Health Risk Assessment	Idaho Dept. of Environmental Quality	\$855,000	ARPA
Page WWTP Tertiary Treatment	South Fork Sewer District	\$17,000,000	ARPA
Santa-Fernwood Wastewater Reuse	Santa-Fernwood Water and Sewer District	\$7,016,000	ARPA
Personnel	Idaho Dept. of Environmental Quality	\$500,000	ARPA
		<b>Total</b>	<b>\$32,658,603</b>





# Science Coordination Team

- “Agencies involved in data collection are encouraged to provide a mechanism to make data available to wider community of stakeholders, agencies, and scientists.” (NAS Recommendation 9 of Chapter 8)
- “A scientific and institutional structure for carrying out data synthesis coordinated among jurisdictions and interest groups is needed.” (NAS Recommendation 10 of Chapter 8)
- Builders Workshop: IDEQ, Coeur d’Alene Tribe, USEPA, USGS, University of Idaho
- Alta Science and Engineering, Inc. facilitating

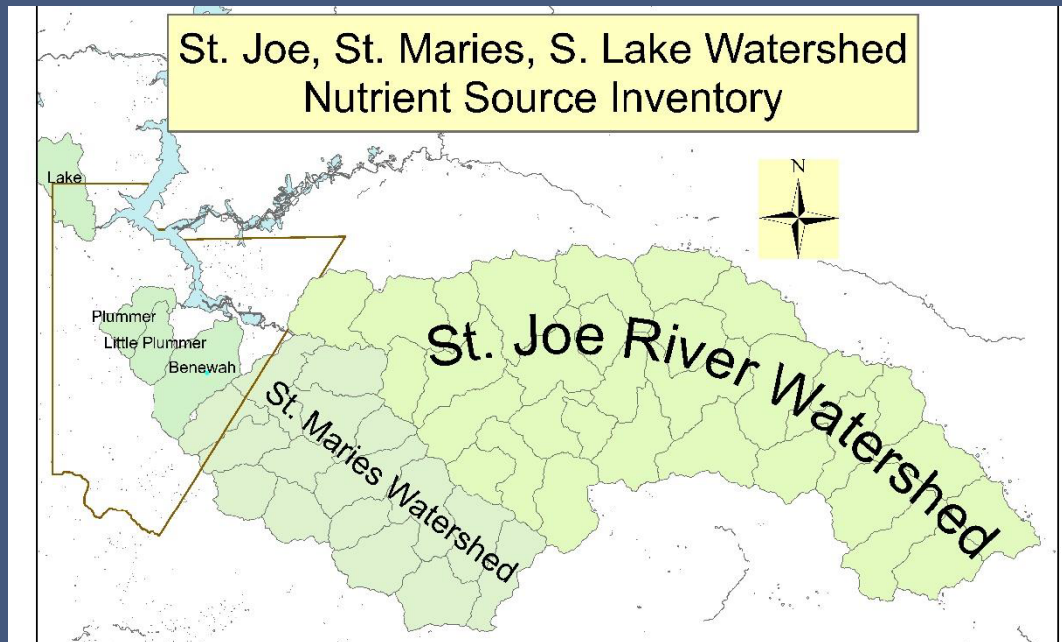
# Lake-Focused Human Health Risk Assessment

- “Assessment of human health risks specifically associated with CDA Lake would help address remaining potential pathways of lead and arsenic exposure.” (NAS Recommendation 2 of Chapter 9)
- Alta Science and Engineering, Inc., working with Norka Paden, IDEQ
- Screening level
- Stakeholder involvement
- Field sampling 2024
- Report 2025



# St. Joe Watershed Nutrient Assessment

- “An efficient sampling strategy for...tributaries would benefit management of population growth...” (NAS Recommendation 3 of Chapter 8)
- Need better data for basin-wide nutrient inventory
- Coeur d’Alene Tribe
- Two-year study - Final Report 2025







# Thank you

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