

# Staff Report

for the Board of Directors Meeting of June 27, 2018

**TO:** Members of the Board of Directors

**FROM:** Greg Jones, Assistant General Manager

**DATE:** June 20, 2018

**SUBJECT:** **Combie Sediment and Mercury Removal Project (FATR #2135):  
Teichert Sediment Storage Agreement**

## **ADMINISTRATION**

### **RECOMMENDED ACTION:**

Award a sole-source Agreement with Teichert Aggregates in the amount of \$600,000, for the long-term storage of sediment removed from Combie Reservoir, and authorize the General Manager to execute the necessary documents.

### **BACKGROUND:**

On April 25, 2018, the NID Board of Directors approved Resolution #2018-08 authorizing the General Manager to execute the Funding Agreement and any Amendments thereto, in the amount of \$5,500,000 with the Department of Water Resources for the Combie Sediment and Mercury Removal Project. This Agreement (#4600012439) has been executed by all parties. This funding has been specifically targeted towards the sediment removal and treatment processes of the Combie Project.

In October 2016 and 2017, NID performed subsurface inorganic and organic analysis on 21 borings (up to 32' depth) and 5 bulk samples (up to 6' depth) of the sediment at Combie Reservoir. The investigation, in part, was to characterize the sediment within the study area in respect to both the United States Environmental Protection Agency (USEPA) and the California EPA Department of Toxic Substances Control (DTSC) human health screening levels for total mercury (THg) concentrations. The THg concentrations were found to be below the human health screening levels and were also below the Total Threshold Limit Concentration (TTLC) values for designation of hazardous waste in California.

Sample Type	Detection Limit	Result	Human Health Screening Level - Commercial	Human Health Screening Level - Residential	TTLC
Total Mercury	0.1 mg/kg	<0.1 to 0.63 mg/kg	4.5 mg/kg (DTSC-SL)	1.0 mg/kg (DTSC-SL)	20 mg/kg

#### Notes:

DTSC-SL = California EPA DTSC Screening Level  
 RSL = USEPA Region 9 Regional Screening Level  
 mg/kg = milligrams per kilogram (parts per million)  
 ug/kg = micrograms per kilogram (parts per billion)  
 TTLC = Total Threshold Limit Concentration

The California EPA (CalEPA), including the State Water Resources Control Board (SWRCB) and the Department of Toxic Substances Control (DTSC), is responsible for protection of public health and the environment. The SWRCB and its nine Regional Water Quality Control Boards

(RWQCBs) have the responsibility for the coordination and control of water quality, including the protection of the beneficial uses of the waters of the State. DTSC has the responsibility of managing the State's hazardous waste program to protect public health and the environment.

Screening levels related to protection of human health of routine, long term exposure by direct pathways commonly include EPA Regional Screening Levels (RSLs) and DTSC Screening Levels (DTSC-SLs). The RSLs and DTSC-SLs are considered conservative, and under most circumstances, the presence of a chemical in media at concentrations less than the corresponding RSL or DTSC-SL can be assumed not to pose a significant, long-term threat to human health.

In addition to the organic and inorganic analysis, we performed physical characteristic analysis of the project area. The sediment from shallow samples tested on average, 0% gravel, 30% sand and 70% silt/clay content. Based on the findings, we cannot determine high market value of the projects proposed sediment removed. Finding a local, permanent depository is considered the most cost effective and best use of the sediment.

Teichert Aggregates has identified a location near the project processing area which can serve as a long-term, permanent storage for the extracted sediment. Located just upstream from the project's processing area, this site has the space to act as a suitable and permanent resting location for the sediment removed from Combie. We are in current negotiations regarding the sediment deposition. The sediment will be engineered fill, placed and compacted to appropriate specifications to meet sound environmental and engineering practices.

This agreement is one of a number of contracts necessary to complete the project as outlined in the projected budget table below.

Task	Description	DWR (10115-52915)	NID Funds (10115-52915)	Totals	Contractor	FY Period
1	Project Management / Compliance Activities	\$ -	\$ 519,774	\$ 519,774	H&K/NV5	2018 - 2020
2	Concentrator Alteration & Mercury Consultation	\$ 100,000	\$ -	\$ 100,000	T. Reimchen	2018 - 2019
3	Knelson Concentrator	\$ 209,143	\$ -	\$ 209,143	FLSmith	2017 - 2018
4	Sed Removal & Mercury Recovery Operations	\$ 4,576,000	\$ 42,723	\$4,618,723	GLEI	2018 - 2020
5	Sediment Disposal	\$ -	\$ 600,000	\$ 600,000	Teichert	2018 - 2020
6	Biological Research Activities & Reporting	\$ 400,000	\$ 701,477	\$1,101,477	USGS	2017 - 2022
7	Community Engagement & Outreach	\$ -	\$ 100,000	\$ 100,000	TSF	2017 - 2020
N/A	Budget Unallocated	\$ 214,857		\$ 214,857	Unallocated	
	<b>Project Total</b>	<b>\$ 5,500,000</b>	<b>\$ 1,963,974</b>	<b>\$7,463,974</b>		2017 - 2022

Staff recommends awarding sole-source Agreement with Teichert Aggregates, in the amount of \$600,000 for the long-term storage of sediment removed from Combie Reservoir, and authorize the General Manager to execute the necessary documents.

**BUDGETARY IMPACT:**

The Combie Reservoir Sediment and Mercury Removal Project (FATR 2135) will cost \$7.5M, the District's executed grant award Agreement #4600012439 with the State of California Department of Water Resources is \$5.5M and \$2.0M is being funded from Capital Reserves.