

Staff Report

TO: Board of Directors

FROM: Chip Close, Director of Water Operations
Shad Chittock, Treated Water Superintendent

DATE: April 12, 2023

SUBJECT: Bulk Water Treatment Chemical Purchase (Consent)

WATER OPERATIONS

RECOMMENDATION:

Approve the purchase of up to \$435,000 in bulk water treatment chemicals for the 2023 calendar year, and authorize the General Manager to execute the appropriate documents.

BACKGROUND:

The District produces over 3 billion gallons of potable water at its six drinking water treatment plants annually. A critical part of the treatment process includes the use of coagulant, disinfection and corrosion control chemicals. In 2022, the District purchased 85 loads of chemicals at a cost of over \$350,000.

The acquisition of treatment chemicals is one of the more costly purchases through the year. In 2016 the District embarked on an effort to find ways to save money on these purchases. The solution was to join a consortium of other water utilities to combine purchasing power for better pricing. The District is now a member of the Bay Area Consortium which combines the purchasing power of 59 agencies and provides a substantial discount as compared to the District purchasing on its own.

The purchase of chemicals occurs twice a year as the consortium follows a fiscal year. Staff has completed the purchases necessary for the first half of 2023, however, the remaining purchase requires board authorization based upon the total purchase amounts.

BUDGETARY IMPACT:

The anticipated cost of purchasing chemicals through 2023 was included in the 2023 Operating Budget for a total of \$435,000. This is a substantial increase over the 2022 budget and is a result of inflationary pressure and supply constraints.

Attachments:

- List of Consortium Participants
- Purchase Requisitions for 2023

Region \ Agency	Chemical	# of bids	Cost to Agency
Central Valley			
<u>City of Lathrop (Veiola NA)</u>	Sodium Bisulfite Sodium Hypochlorite 12.5%	2	\$859.00
<u>City of Merced</u>	Ferric Chloride Sodium Hypochlorite 12.5%	2	\$859.00
<u>City of Modesto</u>	Citric Acid Sodium Hydroxide Sodium Hypochlorite 12.5%	3	\$1,288.50
<u>City of Stockton</u>	Aqueous Ammonia Citric Acid Sodium Bisulfite Sodium Hydroxide Sodium Hypochlorite 12.5%	5	\$2,147.50
<u>City of Turlock</u>	Aluminum Sulfate Sodium Hypochlorite 12.5%	2	\$859.00
<u>Oakwood Lake Water District</u>	Ferric Chloride Sodium Hypochlorite 12.5%	2	\$859.00
East Bay			
<u>Alameda County Water District</u>	Aqueous Ammonia Ferric Chloride Hydrofluosilicic Acid (Fluoride) Sodium Hydroxide Sodium Hypochlorite 12.5%	5	\$2,147.50
<u>City of Hayward</u>	Ammonium Sulfate Ferric Chloride Sodium Hydroxide Sodium Hypochlorite 12.5%	4	\$1,718.00
<u>City of San Leandro</u>	Ferric Chloride Sodium Bisulfite Sodium Hypochlorite 12.5%	3	\$1,288.50
<u>East Bay Dischargers Authority</u>	Sodium Bisulfite	1	\$429.50
<u>Oro Loma Sanitary District</u>	Ferric Chloride Sodium Bisulfite Sodium Hypochlorite 12.5%	3	\$1,288.50
<u>Union Sanitary District</u>	Ferrous Chloride Sodium Hypochlorite 12.5%	2	\$859.00
Marin Sonoma Napa			

<u>Central Marin Sanitation Agency</u>	Ferric Chloride Sodium Bisulfite Sodium Hypochlorite 12.5%	3	\$1,288.50
<u>Southern Marin</u>	Sodium Hypochlorite 12.5%	1	\$429.50
<u>Las Gallinas Valley Sanitary District</u>	Ferric Chloride Sodium Bisulfite Sodium Hypochlorite 12.5%	3	\$1,288.50
<u>Marin Municipal Water District</u>	Aqueous Ammonia Ferric Chloride Hydrofluosilicic Acid (Fluoride) Sodium Hydroxide Sodium Hypochlorite 12.5%	5	\$2,147.50
<u>Napa Sanitation District</u>	Ferric Chloride Sodium Bisulfite Sodium Hydroxide Sodium Hypochlorite 12.5%	4	\$1,718.00
<u>North Marin Water District</u>	Ferric Chloride Liquid Chlorine Sodium Hydroxide Sodium Hypochlorite 12.5%	4	\$1,718.00
<u>Sanitary District No. 5 of Marin County</u>	Sodium Bisulfite Sodium Hypochlorite 12.5%	2	\$859.00
<u>Sausalito Marin City Sanitary District</u>	Ferric Chloride Sodium Bisulfite Sodium Hypochlorite 12.5%	3	\$1,288.50
North Bay			
<u>Central Contra Costa Sanitary District</u>	Aluminum Sulfate Sodium Hypochlorite 12.5%	2	\$859.00
<u>City of Antioch</u>	Aluminum Sulfate Ammonium Sulfate Hydrofluosilicic Acid (Fluoride) Sodium Hydroxide Sodium Hypochlorite 12.5%	5	\$2,147.50
<u>City of Brentwood</u>	Sodium Bisulfite Sodium Hypochlorite 12.5%	2	\$859.00
<u>City of Martinez</u>	Aluminum Sulfate Ammonium Sulfate Hydrofluosilicic Acid (Fluoride)	5	\$2,147.50

<u>City of Pinole (Pinole/Hercules WPCP)</u>	Sodium Hydroxide Sodium Hypochlorite 12.5%	3	\$1,288.50
<u>City of Pittsburg</u>	Ferric Chloride Sodium Bisulfite Sodium Hypochlorite 12.5%	5	\$2,147.50
<u>Contra Costa Water District</u>	Aluminum Sulfate Ammonium Sulfate Hydrofluosilicic Acid (Fluoride) Liquid Chlorine Sodium Hydroxide	6	\$2,577.00
<u>Delta Diablo Sanitation District</u>	Ammonium Sulfate Aqueous Ammonia Hydrofluosilicic Acid (Fluoride) Liquid Chlorine Sodium Hydroxide Sodium Hypochlorite 12.5%	4	\$1,718.00
<u>Diablo Water District</u>	Aluminum Sulfate Ferrous Chloride Sodium Bisulfite Sodium Hypochlorite 12.5%	2	\$859.00
<u>Ironhouse Sanitary District</u>	Hydrofluosilicic Acid (Fluoride) Sodium Hypochlorite 12.5%	3	\$1,288.50
<u>Mt. View Sanitary District</u>	Aluminum Sulfate Citric Acid Sodium Hypochlorite 12.5%	1	\$429.50
<u>Pleasant Hill Recreation & Park District</u>	Ferrous Chloride	1	\$429.50
<u>Rodeo Sanitary District</u>	Sodium Hypochlorite 12.5%	2	\$859.00
<u>Town of Discovery Bay CSD</u>	Sodium Bisulfite Sodium Hypochlorite 12.5%	2	\$859.00
<u>West County Wastewater District</u>	Aluminum Sulfate Sodium Hypochlorite 12.5%	2	\$859.00
Peninsula	Sodium Hydroxide Sodium Hypochlorite 12.5%		
<u>City of South San Francisco</u>	Sodium Hydroxide Sodium Hypochlorite 12.5%	3	\$1,288.50
<u>City of Burlingame</u>	Ferric Chloride Sodium Bisulfite Sodium Hypochlorite 12.5%	2	\$859.00

<u>City of Daly City/North San Mateo County</u>	Sodium Bisulfite Sodium Hypochlorite 12.5%	3	\$1,288.50
<u>City of Millbrae</u>	Ferrous Chloride Sodium Bisulfite Sodium Hypochlorite 12.5%	2	\$859.00
<u>City of San Mateo</u>	Ferric Chloride Sodium Hypochlorite 12.5%	3	\$1,288.50
<u>Sewer Authority Mid-Coastside</u>	Ferric Chloride Sodium Bisulfite Sodium Hypochlorite 12.5%	3	\$1,288.50
Sacramento			
<u>Carmichael Water District</u>	Sodium Hydroxide Sodium Hypochlorite 12.5%	2	\$859.00
<u>City of Folsom</u>	Sodium Hypochlorite 12.5%	1	\$429.50
<u>City of Roseville</u>	Aluminum Sulfate Aqueous Ammonia Ferric Chloride Hydrofluosilicic Acid (Fluoride) Sodium Hydroxide Sodium Hypochlorite 12.5%	6	\$2,577.00
<u>City of Sacramento</u>	Aluminum Sulfate Hydrofluosilicic Acid (Fluoride) Liquid Chlorine Sodium Bisulfite Sodium Hydroxide Sodium Hypochlorite 12.5%	6	\$2,577.00
<u>City of Yuba City</u>	Aluminum Sulfate Citric Acid Hydrofluosilicic Acid (Fluoride) Liquid Chlorine Sodium Bisulfite Sodium Hypochlorite 12.5%	6	\$2,577.00
<u>El Dorado Irrigation District</u>	Sodium Hydroxide Sodium Hypochlorite 12.5%	2	\$859.00
<u>Nevada Irrigation District</u>	Aluminum Sulfate Sodium Hydroxide	3	\$1,288.50

<u>Rancho Murieta Community Services District</u>	Sodium Hypochlorite 12.5%	2	\$859.00
	Aluminum Sulfate		
	Liquid Chlorine		
<u>Sacramento County Water Agency</u>		3	\$1,288.50
	Hydrofluosilicic Acid (Fluoride)		
	Sodium Hydroxide		
	Sodium Hypochlorite 12.5%		
South Bay			
<u>City of Morgan Hill</u>		1	\$429.50
	Sodium Hypochlorite 12.5%		
<u>City of San Jose</u>		1	\$429.50
	Ferrous Chloride		
<u>City of Santa Clara</u>		4	\$1,718.00
	Aqueous Ammonia		
	Sodium Bisulfite		
	Sodium Hydroxide		
	Sodium Hypochlorite 12.5%		
<u>City of Sunnyvale</u>		5	\$2,147.50
	Aluminum Sulfate		
	Ammonium Sulfate		
	Sodium Bisulfite		
	Sodium Hydroxide		
	Sodium Hypochlorite 12.5%		
<u>City of Watsonville</u>		3	\$1,288.50
	Aluminum Sulfate		
	Ferric Chloride		
	Sodium Hypochlorite 12.5%		
<u>Facility</u>		5	\$2,147.50
	Aluminum Sulfate		
	Aqueous Ammonia		
	Ferric Chloride		
	Sodium Bisulfite		
	Sodium Hypochlorite 12.5%		
Tri Valley			
<u>City of Livermore</u>		2	\$859.00
	Ferric Chloride		
	Sodium Hypochlorite 12.5%		
<u>Dublin San Ramon Services District</u>		6	\$2,577.00
	Aluminum Sulfate		
	Aqueous Ammonia		
	Citric Acid		
	Ferrous Chloride		
	Hydrofluosilicic Acid (Fluoride)		
	Sodium Hypochlorite 12.5%		
<u>Zone 7 Water Agency</u>		4	\$1,718.00
	Aluminum Sulfate		
	Aqueous Ammonia		
	Sodium Hydroxide		
	Sodium Hypochlorite 12.5%		

Total bid participation count:

182

\$78,169.00



**NEVADA IRRIGATION DISTRICT
Purchase Requisition**

No. **23-10171-WT4**

Date: 1/3/23

Ship to: NID


Attention: Shad Chittock

Delivery Required by:

Via _____

Due Date _____

To be filled in by Purchasing Dept.

Quantity	Description	Dept Code	Expense Code	Prof/Fac Code	Terms				
					P.O. No.	Vendor	F.O.B. Unit Price Total		
	Chemtrade Aluminum Sulfate 1-1-23 to 6-30-23								
	E. George - 5 loads @ approx. 4800 gal (24,000 gal total) @ \$0.8668gal	10171	52501	10303				20803.20	
	Loma Rica - 2 loads @ approx. 4800 gal (9,600 gal total) @ \$0.8668gal	10171	52501	10304				8321.28	
	Lake Wildwood - 3 loads @ approx. 4800 gal (14,400 gal total) @ \$0.8668gal	10171	52501	10305				12481.92	
	Lake of the Pines - 2 loads @ approx. 4800 gal (9,600 gal total) @ \$0.8668gal	10171	52501	10307				8321.28	
	N. Auburn -3 loads @ approx. 4800 gal (14,400 gal total) @ \$0.8668gal	10171	52501	10308				12481.92	
This area is for comments, text here can be overwritten.									
					# Attachments		Total Cost	62409.6	
					IT Approver (if needed)				
 General Manager					Digitally signed by Shad Chittock Date: 2023.01.03 10:25:48 -08'00'				
Finance Approver					Digitally signed by Armon "Chip" Close Date: 2023.01.04 15:06:56 -08'00'				
Department Manager					Digitally signed by Armon "Chip" Close Date: 2023.01.04 15:06:56 -08'00'				
Signed					Digitally signed by Shad Chittock Date: 2023.01.03 10:25:48 -08'00'				
First Level Approver					Digitally signed by Shad Chittock Date: 2023.01.03 10:25:48 -08'00'				

