

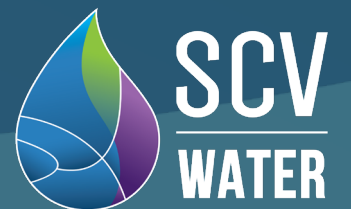
November 7, 2023

SCV WATER

ITEM NO.
6.1

Transport and disposal of 2,800 tons of
surface water treatment by-products

Regular Board Meeting



SCV WATER SURFACE WATER TREATMENT OPERATIONS



As part of SCV Waters commitment to delivering reliable, high-quality water. SCV Water operates two surface water treatment plants to treat State Water Project water from Castaic Lake

SCVW WATER SURFACE WATER TREATMENT PLANTS

Earl Schmidt Filtration Plant – 56 MGD



Rio Vista Water Treatment Plant – 66 MGD



Solids Removal is a key treatment process

- **Accomplished by Up-flow Contact Clarifiers and Deep Mono-Media Filters**
- **Suspended solids and contaminants are removed**
- **Removal is accomplished through chemical and mechanical processes**

TREATMENT PLANT CLARIFIERS & FILTERS



ESFP 10 Clarifiers



RVWTP 12 Clarifiers



ESFP 10 Filters



RVWTP 12 Filters

- Removes majority of suspended solids and contaminants
- Typically backwashed after 24 hours of operation.
- Generates approximate 800 pounds of treatment by-product per day of operation

- Removes remaining suspended solids and contaminants.
- Typically backwashed after 72 hours of operation
- Generates approximate 200 pounds of treatment by-product per day of operation

FILTER BY-PRODUCTS LIFE CYCLE



LABORATORY TESTING

- Dried sludge is analyzed to determine if below or above DTSC regulatory Total Threshold Limit (TTLC).
- If sludge is above the TTLC material must be disposed at a hazardous waste landfill, If below TTLC a Soluble Threshold Limit Concentration (STLC) test must be performed to assess leachability.
- If STCL results are below STLC the material may be disposed at a local landfill
- If above STLC, a Toxicity Characteristic Leaching Procedure (TCLP) analysis is required to determine if additional treatment is required before disposal at a hazardous waste landfill.

FINANCIAL CONSIDERATIONS

Item	Cost per Unit	Quantity	Waste Management
Waste Approvals Standards	\$125.00	1	\$125
Cost of Disposal at Kettleman Hills Landfill	\$51.16	2,800 tons	\$142,248
Cost to Transport Sludge to Kettleman Hills Landfill	\$65.55	2,800 tons	\$183,540
E-Manifest Charges	\$25.00	108 trucks	\$2,700
Certificate of Disposal cost	\$40.00	108 trucks	\$4,320
Kings County Tax	10%		\$14,224.80
Energy Standard Disposal Energy Fee	8.32%		\$11,835.03
Waste Water Management Fee	14.50%		\$20,625.96
Total Cost			\$379,618.79

RECOMMENDATION

Staff Recommends that the Board of Directors authorize the General Manager to enter into contract with Waste Management Services, to transport and dispose of 2800 tons of filter by-products in the amount of \$380,000.