



AGENCY: Municipal Improvement Dist.
MEETING DATE: August 30, 2021
DEPARTMENT: Public Works
PRESENTED BY: J. Smith
EMAIL ADDRESS: Jsmith@fortbragg.com

AGENDA ITEM SUMMARY

TITLE:

Receive Report and Consider Adoption of Municipal Improvement District Resolution Approving Budget Amendment 2022-06 Amending Fiscal Year 2021-22 Budget for Additional Shipping Costs of the Water Treatment Plant's Biosolids Dryer

ISSUE:

During the regular Council meeting of May 24, 2021, the Municipal Improvement District and Fort Bragg City Council approved Budget Amendment 2021-11 for the additional funding necessary for the excluded tax and shipping costs for the approved purchase of the biosolids dryer for the Wastewater Treatment Facility (WWTF). However, additional funding is necessary to procure timely shipping due to the unanticipated increase in shipping costs related to the effects of the worldwide pandemic. Council approved a resolution in mid-June 2021 for the approval of an application for USDA funding assistance. Unfortunately, the funds were not awarded. The additional shipping costs are \$53,615 and certain adjustments are necessary to the FY 2021-22 budget. There are sufficient funds to fund the allocations from the transfer from Wastewater Capital Reserve Fund 715.

ANALYSIS:

The upgraded WWTF is generating more solids than anticipated, producing dewatered biosolids that are stored on our new drying beds to further increase the percent of solids concentration through evaporation to reduce disposal costs. The drying process takes approximately 30 days and is causing a strong odor that has significantly affected Coastal Trail users and the surrounding area residents and businesses.

Looking at alternatives to assist with the effects of odor during the natural drying process and to reduce the production of biosolids, staff ordered a biosolids dryer earlier this year. This unit runs at a low temperature to pull the moisture from the solids in the current treatment system that is anticipated to reduce biosolid production by producing approximately 2.3 tons of dried solids in a 24-hour period. This new line of dehumidification heat pump sludge dryers is the most advanced sludge drying machine in the world. This process has broken through difficulties and high costs associated with traditional natural drying or gas drying equipment. This high tech drying system has a small footprint, effectively treats sludge, requires no odor control equipment and does not require a fossil fuel emissions permit.

RECOMMENDED ACTION:

Adopt Resolution approving Budget Amendment 2022-06 to provide funds for the additional shipping cost of the Biosolids Dryer to ensure a timely delivery.

ALTERNATIVE ACTION(S):

1. Do not adopt Resolution.

2. Provide alternative direction to staff.

FISCAL IMPACT:

The annual budget for biosolids has increased greatly with the completion of the new treatment facility. This amount is available in the Wastewater Enterprise Fund, account 715.

GREENHOUSE GAS EMISSIONS IMPACT:

This equipment does not require a fossil fuel emissions permit.

CONSISTENCY:

N/A

IMPLEMENTATION/TIMEFRAMES:

Equipment shipping and delivery is anticipated for October 2021.

ATTACHMENTS:

1. Resolution approving Budget Amendment 2022-06
2. Exhibit A – Budget Amendment
3. Biosolids Treatment System Equipment Proposal

NOTIFICATION:

N/A