



MEMORANDUM

To: Himanshu Mehta, PE
IRC SWDD

From: Jill Grimaldi, BCES
Kimley-Horn and Associates, Inc.

Date: June 11, 2021

Subject: Centrate Tank Refurbishing by Crom

As the Solid Waste Disposal District evaluates options for the treatment and disposal of the leachate generated by the County's landfill, the existing centrate tank associated with the biosolids dewatering facility is in the process of being repurposed for leachate storage.

To be able to properly store the leachate, the existing centrate tank requires an interior coating that is designed and rated to withstand the corrosive environment created by the leachate. The existing interior coating does not meet those requirements. Kimley-Horn has engaged the original tank manufacturer, Crom Corporation, to determine what process is required to recoat the tank walls and bottom, while preserving the tank's integrity and any remaining warranty items per Crom's specifications.

In addition, the tank will require the addition of a mixing mechanism to keep the leachate mixed during storage. The potential mixing options currently under evaluation include jet pump mixers that require cores to be drilled in the walls of the tank. It is imperative that this work be performed by the tank manufacturer to reduce the risk of damaging the prestressing rings that span the circumference of the tank. Crom routinely performs such core drillings on their pre-stressed tanks for various applications and it would not be advisable to allow a separate contractor to complete such work.

It is for that reason that we recommend that SWDD proceed with a sole-source contract to Crom for the recoating and installation of the mixer (to be direct purchased by the County upon completion of the mixing evaluation).

Attached is Crom Corporation's proposal for the cleaning of the tank, removal of the existing coating, visual inspection of the tank interior and exterior for cracks and overall condition and application of the specified coating for leachate storage. Options were included within this proposal for the coating of the underside of the dome (if warranted by the selected mixer design), coating of the interior piping to provide additional corrosion protection, and for up to four (4) wall penetrations to accommodate the mixer and fill line modifications. If the mixer that is ultimately selected does not require the dome coating or wall penetrations, a deductive change order could be issued to recoup that budget from Crom.

The proposal is summarized below and attached in full for your information.

1. Base Services	\$140,750
Mobilization	\$ 2,000
Tank Inspection	\$ 3,500
Surface Preparation	\$ 48,000
Resurfacing	\$ 37,750
Coatings Application	\$ 49,000
Disinfection	\$ 500
2. Option 1: Interior Dome Coating	\$56,525
Surface Preparation	\$20,300
Resurfacing	\$16,000
Coatings Application	\$20,225
3. Option 2: Interior Piping	\$5,425
Surface Preparation	\$ 2,520
Coatings Application	\$ 2,905
4. Option 3: Wall Penetrations	\$50,000
Four 8-inch Stainless Steel Wall Pipes (ea)	\$12,500

The total (not-to-exceed) potential contract value, including all three options, is \$252,700. Should the County opt not to proceed with one or more options, Crom will deduct the value of the option(s) from the total pay application. The cost of the selected mixer and the mixer installation is not included. It is anticipated that the County will direct-purchase the selected piece of equipment. Installation of the mixer will be provided under separate authorization or amendment.