

RESOLUTION 21-25

**APPROVE THE PURCHASE OF SCREENS FOR THE HEADWORKS
FOR THE WASTEWATER TREATMENT PLANT**

WHEREAS, the Wastewater Treatment Department desires to purchase screens for the headworks that are part of the City's Wastewater Treatment Plant; and

WHEREAS, City staff received sealed bids on February 10th 2021; and

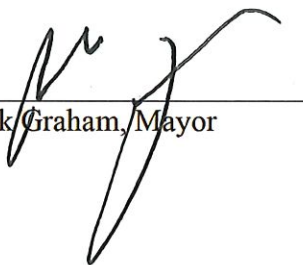
WHEREAS, Eco-Tech submitted a bid which best met the requirements of the Request for Proposals; and

WHEREAS, City staff and engineering consultant recommends the purchase of screens from Eco-Tech at a cost of \$327,899.00; and

WHEREAS, there are sufficient available funds as appropriated to cover the cost for the purchase of the screens for the City's Wastewater Treatment Plant.

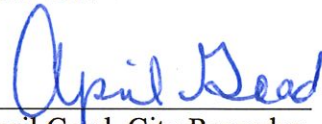
NOW, THEREFORE, BE IT RESOLVED, that the City of Spring Hill Board of Mayor and Aldermen authorize the purchase of the screens for the City's Wastewater Treatment Plant from Eco-Tech in the amount of \$327,899.00.

Passed and adopted by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee, on the 16th day of February 2021.



Rick Graham, Mayor

ATTEST:



April Goad, City Recorder

LEGAL FORM APPROVED:



Patrick Carter, City Attorney



REQUEST: *Purchase of New Screens at Headworks*

SUBMITTED BY: Travis Massey, WWTP Superintendent

DATE: February 16, 2021

ATTACHMENTS:

PURPOSE:

To approve the award of a bid for purchase of replacement screens for the Wastewater Treatment Plant.

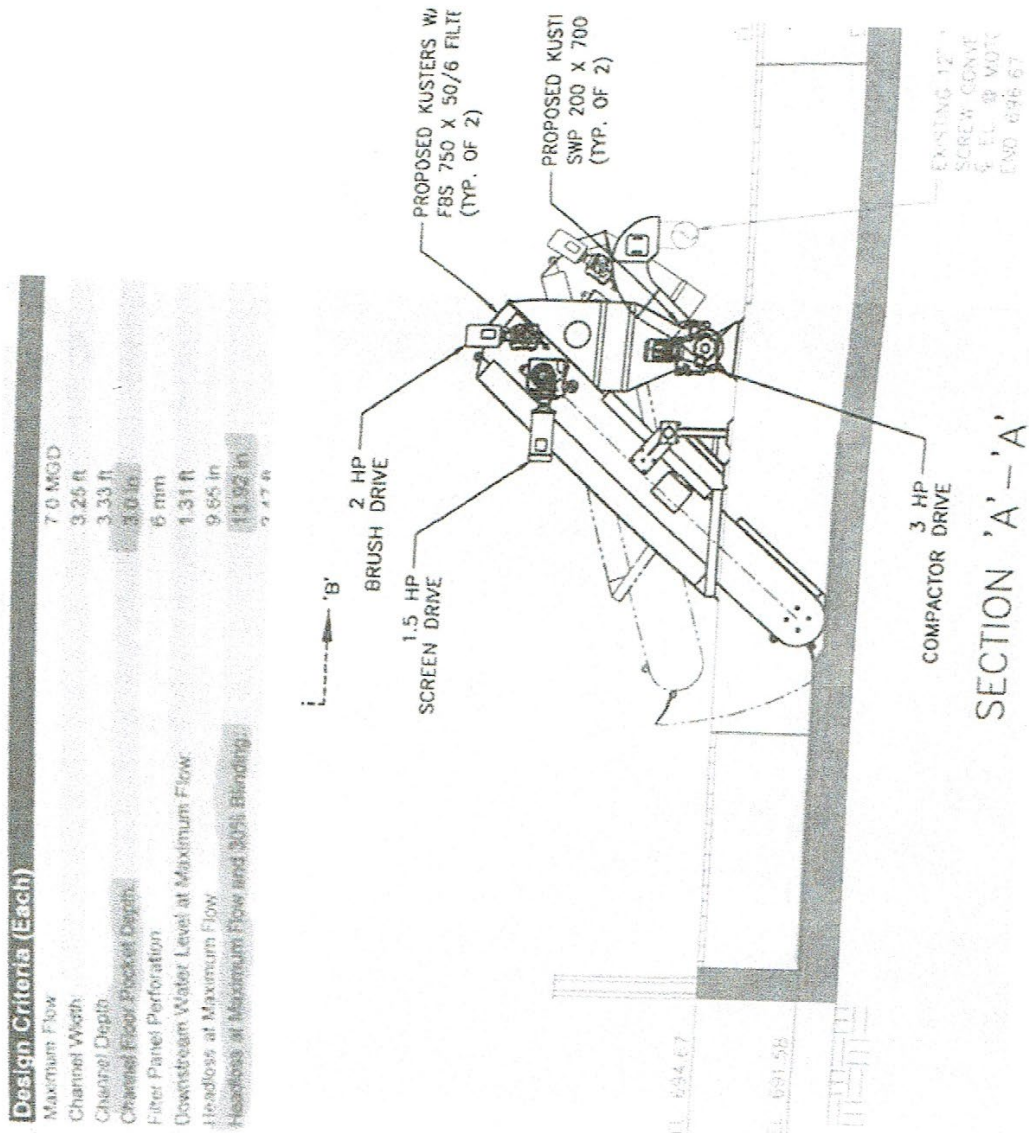
BACKGROUND:

The Wastewater Treatment Plant has had a recurring issue for the last five years or so of rags and other non-biodegradables passing through the screening system at the headworks. As a result, the Sewer Department is having to pull a waste pump or a return pump once a week to remove and clear debris. As an interim measure, smaller impellers were placed in the pumps to keep them from getting clogged so easily. However, the conditions have worsened significantly leading to large amounts of non-biodegradable materials packing together in the oxidation ditch causing other impacts such as disabling the two mixers. Additionally, an even worse issue is the packed debris releasing from the oxidation ditch and causing frequent blockage in the influent lines to the clarifiers. The only way to clear those clogs is to remove them by hand. This is the situation that occurred most recently on New Year's Eve causing an overflow that went on the golf course and also made it to Rutherford Creek. The clarifiers will continue to get clogged until new screens are installed at the headworks and the oxidation ditches are cleaned. New screens have a four to five-month lead time from placing the order for delivery. Therefore, the screens need to be ordered immediately in order to have them ready for installation by June/July when delivered.

The City published a Request for Proposal soliciting bids for replacement screens. The City received two bids in response to the RFP. The City received a bid from Kusters Water in the amount of \$205,110.00 but had 10 exceptions to their bid and therefore did not meet the specifications contained in the RFP. The City also received a bid from Eco-Tech in the amount of \$327,899.00 that upon review and confirmation is still within the appropriated budget amount.

In anticipation of questions posed by the Board of Mayor and Aldermen, the critical deficiencies in the Kusters Water bid included:

1. A channel recess has been added – the contractor would need to remove 3” of concrete in bottom of channel.
2. They are showing 13.92” of head loss, if you add that to the given Down stream water level of 1.31 Ft (15.72”) you get 29.62”. The channel depth is 39.6” – that leaves you with a freeboard of 10”. The head loss is 46% greater than what is specified.



The bid received from Echo-Tech did not contain any noted deficiencies and therefore was a qualified bid for consideration by the City. City staff acknowledges the bid price from Echo-Tech is significantly higher than the other bid received but as noted the bid received from Kusters Water in consideration of the exceptions provided disqualified them from consideration.

STAFF RECOMMENDATION:

City staff recommends Eco-Tech be awarded the contract for the screens for the wastewater treatment plant in the amount of \$327,899.00 which is lower than the budgeted amount of \$370,000.00. Staff has prepared Resolution 21-25 that provides for the approval of the contract award to Eco-Tech and authorization for the Mayor to execute documentation.