

Memorandum

To: Operations and Resources Committee

From: Suzanne Coffey, Chief Planning Officer and Interim COO Wastewater

Date: August 20, 2018

RE: Questions and Answers Related to RFB-1128, Hauling and Disposal of Bar Rack Screening and Grit

Below please find responses to the technical questions posed related to the above referenced item that was reviewed in the August 8, 2018 Operations and Resources Committee meeting.

1. *What was the reason for the decision to send the grit from Pump Station 1 to a landfill as opposed to continue to incinerate it as has been past practice?*

There were four primary reasons:

- The existing Pump Station 1 grit conveyance was directed to the Complex 1 Incinerators only. Adding the additional conveyance equipment to transport grit to the Complex 2 incinerators would have been expensive;
- Grit, due to its composition, does not reduce in volume when burned and volume reduction is the primary reason solids are incinerated. Recall that we haul the residual ash from the incinerators to landfills. As such, the volume of grit after incineration would not be appreciably reduced and that residual would still need to be hauled and landfilled. Given this, there is only a small benefit from incinerating first;
- Grit doesn't have any appreciable fuel value when burned and is therefore expensive to process through incinerators, in terms of natural gas usage;
- Grit is generally hard on equipment and therefore accelerates wear on both the conveyance and incineration equipment.

2. *Was the reason environmental in nature?*

No. The primary driver of the decision was cost.

3. *Would that decision be made the same way today?*

Yes, we would choose to landfill the grit directly.

Additionally, it is important to note that the grit from Pump Station 2 has always been landfilled directly due to the cost reasons noted above.