

COUNCIL ACTION FORM

SUBJECT: RDF STORAGE BIN REPAIR PROJECT

BACKGROUND:

The RDF Storage Bin receives refuse derived fuel (RDF) from the City's Resource Recovery Plant (RRP) after it converts municipal solid waste (MSW) into RDF. The RDF Storage Bin provides storage for the RDF produced by the RRP, and provides the method of transport and metering of the RDF to the power plant's boilers when burning RDF.

The existing RDF Storage Bin has been in-service since 1996. The bin was primarily constructed of COR-TEN steel, a weathering steel designed to initially rust and build up an oxide layer that then prevents further rusting of the steel from occurring. The use of COR-TEN steel to construct the RDF Storage Bin has proven to be problematic where the COR-TEN steel is in regular or constant contact with the RDF. Where the RDF is in contact the COR-TEN steel, it removes the oxide layer meant to protect the steel underneath, causing the exposed steel to rust anew. This cycle repeated over and over eventually removes enough steel that it weakens the structural steel and deteriorates the confining walls of the bin to the point that they need to be repaired or replaced. The RDF Storage Bin has reached the point that the containment's confining walls are in dire need of being replaced, and certain structural steel supports need to be repaired or replaced.

The Engineer's estimate of the cost of this project is \$2,740,000. The proposed 2018/19 Capital Improvements Plan includes a budget of \$2,800,000 for the RDF Bin Work.

ALTERNATIVES:

1. Approve the preliminary plans and specifications for the RDF Storage Bin Repair Project and set October 10, 2018, as the bid due date, and October 23, 2018, as the date of award.
2. Do not approve which would delay this critical repair.

MANAGER'S RECOMMENDED ACTION:

This project will return the RDF Storage Bin to be able to operate safely and function like-new. Therefore, it is the recommendation of the City Manager that the City Council adopt Alternative No. 1 as stated above.