



Legislation Text

File #: R2020-127, Version: 1

Consider approving Resolution No. 2020-127 authorizing the City Manager to execute a contract with Tri Con Works, LLC for the Phase F expansion of the landfill gas collection system at Camelot Landfill, and take appropriate action.

BACKGROUND:

The City of Farmers Branch owns the Camelot Landfill which is a Type I municipal solid waste landfill. The municipal solid waste permit was amended in August 28, 2017 which significantly increased the disposal capacity of the facility. The City and its contractor commenced construction of the new airspace on May 7, 2018.

As organic material in garbage is disposed at the Camelot Landfill is decomposed by microorganisms, gasses are emitted. The two main gasses produced during decomposition are the odorless gasses carbon dioxide and methane (98-99%). The other 1-2% of the landfill gases are odor producing compounds. Although odorless, methane is explosive and must be controlled. The most common control method for landfill gas control is a landfill gas collection system, which is a series of pipes and wells connect to a blower or compressor, which sends the gas to a flare or engine(s) where the methane is burned or combusted as fuel to run the engine that are used in the production of electricity.

As a result of the increased disposal capacity, the facility is now subjected to additional regulations. The City has 30 months from the submittal of the required non-methane organic compound (NMOC) report to install a landfill gas collection system into any area of the landfill that has waste that was buried over 5 years ago.

The northwest portion of the waste disposal area contains waste disposed over 5 years ago. In 2019, some landfill gas collection wells and piping were installed along the west slope of the northwest portion of the landfill. This area of the landfill is the site of the active disposal area. Nevertheless, due to the age of the waste in place at the bottom of two of the cells in this portion of the landfill, the landfill gas collection system must be expanded into this area of the landfill to meet regulatory requirements.

DISCUSSION:

The bid packet was distributed to four companies that specialize in landfill gas collection system construction and all four companies attended the pre-bid meeting. The City received three qualified bids which are attached for your review. The lowest cost bidder was Tri Con Works, LLC with a bid of \$1,164,845.00. The project will be funded from the landfill closure/post closure fund.

FISCAL IMPACT:

Budgeted Financial Impact: Landfill Closure/Post Closure Account

RECOMMENDATION:

City Administration recommends awarding Bid No. 2020-127 to Tri Con Works, LLC. in the amount of \$1,164,845.00 for the construction of Phase F of the landfill gas collection system at Camelot Landfill.

POSSIBLE COUNCIL ACTION:

1. I move to approve Resolution No. 2020-127 authorizing the City Manager to execute a contract with Tri Con

Works, LLC for the construction of Phase F Landfill Gas Collection System expansion at Camelot Landfill.

2. I move to approve Resolution No. 2020-127 authorizing the City Manager to execute a contract with Tri Con Works, LLC for the construction of Phase F Landfill Gas Collection System expansion at Camelot Landfill, with modifications.

3. I move to table the issue for further study or take no action.

ATTACHMENT(S):

1. Resolution No. 2020-127

2. 2020 Phase F Camelot Site Plan

3. Phase F Bid Tabulation