

Memo



Public Works Department

City of Crest Hill

Date:	7/7/2025
Submitter:	Julius Hansen, Interim Director of Public Works
Department:	Public Works
Agenda Item:	East STP Pump Replacement

Summary: The "Transfer" pump and motor at the East STP has not been in service for a year or two. This is the third pump to be found out of service at this STP, the other two are currently on order. The Transfer pump and motor were pulled from its steel base in the building that housed it on May 24th, 2025.

The motor was sent to DMI (APEX) motor shop for inspection and evaluation to be reported (see attached) for action by the city. The motor will be rebuilt and installed back to East STP with a new coupling and alignment for \$9,888.00.

- **Apex Engine Repair Notes:**
- -Steam Cleaning or Sandblasting of All Parts
- -Wash & Bake Windings
- -Re-Insulate Windings
- -Dynamically Balance Rotating Assembly
- -Replacement of Bearings with PREM Brand or Cust Specs

The 14-year-old pump was sent to LAI (Kennedy) pump shop for inspection and evaluation to be reported. Both pieces of equipment have now been evaluated. The pump needs repairs that cost \$29,975 (with the original inspection fee waived) having a lead time of 10 weeks. If the city purchased a brand-new pump the cost would be \$39,616 plus the original inspection fee that would not be waived of \$3,500 for a total cost \$43,116 with a lead time of 18 to 20 weeks.

- **Pump Repair** Cost - \$29,975 Lead Time - 10 weeks
- **Pump Replacement** Pump Cost - \$39,616 + Inspection fee - \$3,500 = Total - \$43,116
Lead Time - 18 to 20 weeks (see the following specifications).

Recommended Council Action: To approve the purchase of a new pump for the East STP from LAI, Ltd. for an amount not to exceed \$55,000

Financial Impact:

\$9,888.00 (motor repair) + \$39,616 (new pump) + \$3,500 (inspection fee)= \$52,116 +5% contingency (~\$55,000).

Attachments:

- Photos of pump in place at East STP before removal
- DMI Proposal for motor
- Kennedy proposal for pump repairs and evaluation report
- LAI Proposal for a new Wemco Bare Pump