

## LIFT STATION APPRENTICE

**PURPOSE:** Perform maintenance and repair services to the City's sanitary/wastewater sewer lift station system.

**FUNCTIONAL AREAS:** In training, under supervision.

1. Perform increasingly skilled levels of maintenance and repair services for stormwater/wastewater lift stations.
  - \* A. Check each lift station to insure the operation of all equipment on each station so the normal flow of wastewater is not interrupted.
  - \* B. Report malfunctions to supervisors.
  - \* C. Implement emergency procedures on each lift station in the event of the malfunction of either primary pumping equipment or any auxiliary equipment.
  - \* D. Analyze the cause of any mechanical or electrical malfunction and perform repair work as needed.
  - \* E. Maintain and repair single phase and three phase heavy duty electric motors and their electrical control panels.
  - \* F. Maintain and repair all types of sump pumps in use at each station.
  - \* G. Maintain and repair all gate valves, check valves, and plug valves on each station.
  - \* H. Maintain and repair all pump to motor couplings, drive shafts, and carrier bearings on all stations.
  - \* I. Maintain and repair all station wet wells, forcemains, and suction lines.
  - \* J. Maintain and repair all the various wet well level sensing systems in use.
  - \* K. Perform all tasks in accordance with established safety rules and practices.
  - \* L. Operate and maintain telemetric equipment.
  - \* M. Maintain and repair various mechanical seals.
2. Maintain and monitor auxiliary equipment.
  - \* A. Maintain and repair automatic vacuum priming systems.
  - \* B. Maintain and repair miscellaneous specialized systems (i.e., fresh water packing lubricant system, automatic forcemain drain back system, wet well blow back systems, etc.)
  - \* C. Maintain station heating and ventilation systems (i.e. gas furnace, electric heaters and dehumidifiers).
  - \* D. Maintain and operate all the different types of portable pumps and generators in use.
3. Perform related work necessary to maintain stormwater/wastewater lift station sites; perform interior maintenance of lift stations.
  - \* A. Perform sweeping and cleaning of station.
  - \* B. Perform painting and miscellaneous repair on station.
  - \* C. Maintain station grounds.
  - \* D. Maintain tools and equipment in safe and workable condition.
  - \* E. Prepare and maintain files of required reports.

## JOB REQUIREMENTS

1. License Requirement
  - \*\* A. Possession of a valid Class B Minnesota Commercial Driver's License or privilege by

the date of appointment and thereafter.

2. Knowledge Requirements

- \*\* A. Knowledge of the operation and repair of heavy duty pumps.
- \*\* B. Knowledge of the operation and repair of electric motors.
- \*\* C. Knowledge of basic electricity.
- \*\* D. Knowledge of the operation and repair of motor control devices.
- E. Knowledge of personal computer operations used in telemetric monitoring.

3. Ability Requirements

- \*\* A. Ability to complete on-the-job and related training to become increasingly skilled in maintenance and repair services for wastewater lift stations.
- \*\* B. Ability to complete required course work from the apprenticeship program for the Lift Station Operator series.
- \*\* C. Ability to obtain a valid Minnesota Pollution Control Class "SC" Operator's License for collection systems upon completion of Lift Station Apprenticeship Program.
- \*\* D. Ability to work outdoors year-round in all types of weather.
- \*\* E. Ability to recognize and repair equipment breakdowns and malfunctions.
- \*\* F. Ability to establish and maintain effective and harmonious relationships with supervisors, co-workers and general public.
- \*\* G. Ability to work in confined spaces.
- \*\* H. Ability to climb ladders.
- \*\* I. Ability to routinely lift and carry items such as toolboxes weighing up to 30 pounds and occasionally lift and carry bags of cement and hose line weighing up to 60 pounds.

\* Essential functions of the job.

\*\* Job requirements necessary on the first day of employment.

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