

NATURAL RESOURCES CONSERVATION SERVICE  
OREGON

## Operation and Maintenance Requirements

### Pumping Plant (533)

Project Name: \_\_\_\_\_

Landowner/Operator: \_\_\_\_\_

Farm/Tract No.: \_\_\_\_\_

Prepared By: \_\_\_\_\_ Date: \_\_\_\_\_

#### OPERATION AND MAINTENANCE ITEMS

A properly operated and maintained pumping plant is an asset. This pump was designed to pump water for the intended purposes, and the estimated life span of this installation is 15 or more years. The life of all system components can be assured and usually increased by implementing a good operation and maintenance program.

#### Special operation and maintenance requirements for the system:

- ⇒ Maintain pumps and motors and electrical controls in good operating condition by performing O & M per specific recommendations of the manufacturer for each component.
- ⇒ Follow proper start-up and shut-down procedures for the operation of the pumping plant.
- ⇒ Inspect or test all pumping plant components and appurtenances on a regular schedule (daily, weekly, monthly, hours of operation) per manufacturer's recommendations and on an annual basis at a minimum.
- ⇒ Perform routine maintenance of all mechanical components (power unit, pump, drive train, etc.) in accordance with the manufacturer's recommendations.
- ⇒ Check and remove debris as necessary from trash racks and structures, to assure adequate flow capacity reaching the pumping plant intake.
- ⇒ Check and remove sediment build-up in pumping bays to maintain design capacity and efficiency.
- ⇒ Inspect and maintain all installed anti-siphon devices.
- ⇒ Routinely test and inspect electrical switches, controls, and all safety features to ensure proper placement and function.
- ⇒ Routinely test and inspect all automated components of the pumping plant, including VFD components, to assure the proper functioning as designed.
- ⇒ Perform routine inspection of photovoltaic panels and associated mounting structures if installed.
- ⇒ Follow necessary procedures to protect the system from damage due to freezing temperatures.
- ⇒ Prior to retrofitting any electrically powered equipment, electrical service must be disconnected and the absence of stray electrical current verified.

