This Management Plan identifies some basic requirements for proper operation and maintenance of the Norweco Singulair Model AT 1500 Ultraviolet Light (UV) disinfection device for residential use. Refer to Norweco’s detailed Operation and Maintenance Manual for detailed instructions on proper operation and maintenance requirements.

Information regarding the Norweco UV disinfection device AT 1500 can be found at the following website: <https://septic.umn.edu/ssts-professionals/manual>

|  |  |  |  |
| --- | --- | --- | --- |
| **SYSTEM COMPONENT** | **TASK** | **FREQUENCY** | **RESPONSIBLE PARTY** |
| **NORWECO UV Disinfection Device** | Monitor alarm**\*** | On-going | Homeowner |
| Check influent/effluent quality odor, color, turbidity | Every six months before cleaning and replacing the bulb | Service Provider |
| Collect sample for fecal coliform bacteria | Annually before cleaning and/or replacing the bulb\* | Service Provider |
| Clean bulb | Every six months | Service Provider |
| Replace bulb | May be needed if sampling results do not meet prescribed Treatment Level A or B | Service Provider |
| A minimum of every two years per manufacturer requirements | Service Provider |

*\*See page 2*

**Alarm activation** as indicated by an audible or visual sign indicates the UV light bulb which disinfects the effluent may be malfunctioning. The homeowner is required to contact the Service Provider immediately to have the bulb assessed and fixed. This is a condition of the operating permit – to keep the UV bulb in working order.

UV devices are designed to go after pretreatment units so refer to the sample requirements of that unit. **Sampling requirements** may be specified in local operating permits. The protocol for collection of wastewater samples is specified in the Norweco O&M Manual for Minnesota.

At the time of each service visit, CIDWT Form 7-6: Disinfection Unit- Ultraviolet light or similar form should be completed. See <https://septic.umn.edu/ssts-professionals/forms-worksheets>. The protocol for collection of wastewater samples is specified in the Norweco Manual for Minnesota.