

Waste water treatment plant - instructions for checklist 3

Municipality of Hörby

HÖRBY ÖNNEKÖP Waste Water Treatment Plant

- Instructions for Checklista 3

B1. Draining the sludge in the sludge separator

- 1) Close the inlet in chamber 1. This is done in the well located just outside the plant entrance, see the picture below.



The inlet is closed by placing a shovel, as pictured below, in front of the inlet pipe.



- 2) Open the hatch to chamber 1, as shown in the picture below. Raise the lattice so that the sludge removal company can access the chamber.
- 3) Check all the chambers. If there is surface or bed sludge in chambers 2 and 3, as well, these should also be emptied.



B2. Ordering chemicals

The ordering of sedimentation chemicals is described in checklist 1 under section V7.

B3. Checking the overflow

Circumventing/overflowing occurs if the flow is $> 10 \text{ m}^3/\text{h}$. If circumventing occurs an alarm is activated. The flow of the circumvented water is calculated and logged and summarized on the control panel.

- 1) Lift the hatch to the last chamber in the septic tank, this is where the water flows over a dyke. A level sensor measures the water level (NG2) on which the calculations for circumvented water is based (FM 2). The overflow is accumulated in a pump well located behind the treatment plant



- 2) Check the well for overflow/circumvented water and check the functionality of the pump located in the well. The pump P5 should pump circumvented water to the outlet ponds.



OUTLET FOR
CIRCUMVENTED/OVERFLOW
WATER

B4. Maintenance of inlet pump P6

- 1) Check the oil level every 3 000 hours of operation or at least once every six months. For further information see Operational Manual chapter 13.
- 2) Change the grease every 10 000 hours of operation. For further information see Operational Manual chapter 7.
- 3) Change the oil every 10 000 hours of operation. For further information see Operational Manual chapter 13.
- 4) Clean the venting screws when necessary. For further information see Operational Manual chapter 13.



B5. Maintenance of the aeration machine M1

- 1) Change the air-filter every 3 000 hours of operation, or at least once a year. For further information see Operational Manual chapter 10.7.
- 2) Change the grease oil every 3 000 hours of operation, or at least once a year. For further information see Operational Manual chapter 10.6.
- 3) Check the aeration valve at least once a year. For further information see Operational Manual chapter 10.10.
- 4) Check that all the screws in the electrical wiring are tightened. Tighten any loose screws.
- 5) Change the drive belt every 12 000 hours of operation, or at least every third year. For further information see Operational Manual chapter 10.8.
- 6) Check if the rotor blades are filthy. For further information see Operational Manual chapter 10.11.
- 7) Every two years check the silicon seals on the muffler cap for cracks and repair when necessary.

B6. Maintenance of the compressor

- 1) Check and clean the air-filter every 500 hours of operation or at least once a year. For further information see Operational Manual chapter 9.7.
- 2) Check the safety valve every 500 hours of operation or at least once a year. For further information see Operational Manual chapter 9.8.
- 3) Change the oil every 1 000 hours of operation or at least once every other year. For further information see Operational Manual chapter 9.6.

For further instructions and more detailed information on the above listed steps see the Operational Manual.