Pump Station Management and Maintenance Plan

Otter Pump Station

Pump Chamber Details:

Chamber 1: Near MH3 (Foul) (Refer to annotated map)

Chamber 2: Near MH13 (Surface Water - SW) (Refer to annotated map)

Pump Specifications:

Chamber 1 :

Pump Type: Submersible

Model and Manufacturer: DAB FEKA VS 1200 T-NA

Capacity: 550 L/M

Power: 3-phase 415V, 1.5 kW

Tank Capacity:

Chamber 1 Capacity: 251,300 litres

Chamber 2 :

Pump Type: Submersible

Model and Manufacturer: DAB FEKA VS 750 T-NA

Capacity: 533 L/M

Power: 3-phase 415V, 1.5 kW

Chamber 2 Capacity: 251,300 litres

Maintenance Requirements and Regular Maintenance Tasks:

Inspect pumps, control panels, and associated equipment.

Check for debris or clogging in pump intakes.

Clean out and maintain tank areas to prevent the build-up of sludge or other materials.

Test pump performance and motor conditions (e.g., check vibration, current draw, etc.).

Clean and lubricate pump components.

Inspect valves and check for leaks.

Examine and maintain backup power systems (if applicable).

Scheduled Servicing:

Quarterly: Detailed inspection of pumps, control systems, and backup power systems.

Annually: Full pump performance test, motor and mechanical inspection, and cleaning of tanks.

Emergency Maintenance Needs:

Immediate attention if the pump stops operating or there are significant leaks.

Emergency service to address malfunctioning sensors or switches.

Cleaning and debris removal if pumps are affected by blockages.

Beyond Aquevo Attendance:

Callouts for emergency repairs.

Specialist service for pump motor replacements or repairs beyond routine maintenance.

Advanced troubleshooting for control systems and sensors.

Long-term replacement of pumps or pump components (as per manufacturer guidelines).

Waterside Pump Station

Pump Chamber Details:

Chamber Location: Near MH4 (Surface Water - SW) (Refer to annotated map)

Pump Specifications:

Pump Type: Submersible

Model and Manufacturer: KSB AMA – PORTER 500s ND

Capacity: 282 L/M

Power: 3-phase 415V, 1.5 kW

Tank Capacity:

Tank Capacity: 98,200 litres

Maintenance Requirements and Regular Maintenance Tasks:

Inspect and clean the pump chamber to ensure no build-up of materials.

Check and clean the pump intake area for blockages.

Test and calibrate control panel settings.

Inspect backup power systems.

Ensure the correct operation of sensors and alarms.

Regularly check for any corrosion or wear on pump components.

Clean and lubricate moving parts as per the manufacturer's schedule.

Scheduled Servicing:

Quarterly: Inspection of pumps and associated systems.

Annually: Full mechanical inspection and pump performance checks, including motor testing.

Emergency Maintenance Needs:

Prompt action if pumps fail to start, or if there is a power outage affecting the system.

Emergency repairs for control panel malfunctions or sensor failures.

Response to overflows or blockages in the system.

Beyond Aquevo Attendance:

Callouts for pump malfunctions or mechanical failure.

Professional servicing for motor replacement or severe pump failures.

Troubleshooting for electrical or control system issues.

Replacement or significant repair of any pump system components that fall outside of regular service.

General Maintenance Tips:

Maintain a logbook or digital record of all maintenance activities, including service dates and detailed descriptions of any issues or repairs.

Adhere to manufacturer recommendations for service intervals.

Ensure that safety protocols are followed for all maintenance activities, including the use of PPE (Personal Protective Equipment).

Annotated Map Reference

The Otter Pump Station chambers are marked near MH3 and MH13.

The Waterside Pump Station is located near MH4.

Foul Pump Stations and other key infrastructure points have been labelled on the map.

Refer to the annotated map for precise locations of pump chambers and maintenance access points.