

Start flow through second influent force main by opening valves at flow meter in front of head works. Open valves slowly to prevent flooding up top.

Start flow through offline bar screen channel by opening channel influent and effluent Gates. Turn bar screen and compactor on and in AUTO, monitor bar screen operation in Auto. As flow increases, and if needed, place bar screen operation to continuous run (manual operation).

Start flow through offline UV channel by opening influent and effluent gates. Turn UV system on. Activate additional UV rows as needed.

Monitor grit removal system operation; adjust grit system on/off intervals as needed.

Position dump truck under grit/trash chute if high flows begin. High flows will over-run dumpster.

Monitor flow from East Train (ET) and West Train (WT), adjust gates/weirs at headworks. When flow is high, more flow needs to be directed to ET.

Monitor sludge blanket levels in clarifiers and adjust RAS return rate accordingly. As flow increases to clarifiers, RAS flows must be adjusted. WAS rates will be adjusted according to lab analysis on biomass.

Monitor flows and ensure enough filters are operating to handle the flow. (Aqua Disk can handle up to **2.0 MG**; Nova's can handle up to **4.0 MG**)

UV disinfection:

Clarity of treated water going to UV process is important in the disinfecting capability of UV light. During rain events, color and turbidity will increase in the treated water flowing to UV chamber. To aid in the removal of some of these contaminants, alum is added to waste stream flowing to clarifiers.

*During normal dry weather flow, the plant operates half the secondary treatment systems (aeration basins and secondary clarifiers). As a result, there are empty aeration basins to use as EQ basins during rain events.

When high flow and long rain duration deems it necessary, direct flows using appropriate gates to the empty ABs; turn on aeration and monitor flow into basins. Wastewater can be stored and drained from the basin back to the pumping station when rain event is over.

*City vacuum truck will be called as needed to pump out trash/scum build up in pump station during rain event.

*Monitor plant for any overflows/spills during rain event. If an overflow/spill is observed during rain event, notify the Utilities Director and Environmental Manager as soon as possible.

*E-mail daily updates to Director and Assistant Director during rain event.

LOSS OF POWER:

Mud Creek WPCP receives power from Georgia Power via two separate sub-station lines, Knight's Creek and Mud Creek. Both lines feed into the electrical switchgear room where operators can view power supply from both lines on SCADA. (SEE SOP AND GOALS FOR SWITCHGEAR BELOW). If power is lost from one feed line, the switch gear transfers all power to the one remaining active feed line. In the event both power sources (feeds) are lost, the operator must immediately notify the Superintendent, if not on site, who will then notify the Director and Assistant Director.