



Picture 1: Influent sampler tubing reaching into influent wastewater channel at Northern STP.



Picture 2: Manual bar screen for influent channel at Northern STP.



Picture 3: Right side influent channel blanked off for head works upgrades at Northern STP.



Picture 4: Temporary flow meter installed in influent channel at Northern STP.



Picture 5: Influent Parshall flume out of service at Northern STP.



Picture 6: Aerated grit chamber inside head works building at Northern STP.



Picture 7: Out of service aerated grit chamber being retrofitted as a rapid mix tank at Northern STP.



Picture 8: Septage dump station at Northern STP. Manholes connect to influent channel. Head works building is to the left.



Picture 9: Influent sampler for Northern STP head works.



Picture 10: Aerated grit chamber at Northern STP.



Picture 11: Aerated grit chamber removed from service for conversion to flocculant mix tank at Northern STP.



Picture 12: Out of service screw pump for grit removal at Northern STP.



Picture 13: Primary clarifier at Northern STP.



Picture 14: Out of service primary clarifier at Northern STP.



Picture 15: Flow splitter box directing influent wastewater to each of the primary clarifiers from grit removal. Northern STP.



Picture 16: Construction of building pad for chemical storage building for polymer flocculant at Northern STP.



Picture 17: Newly renovated effluent weir for primary clarifier being upgraded at Northern STP.



Picture 18: Primary clarifier being renovated at Northern STP.



Picture 19: Replacement scum box for primary clarifier at Northern STP.



Picture 20: Solids pump gallery for primary clarifiers at Northern STP.



Picture 21: Storm drain at Northern STP. Located between primary clarifiers.



Picture 22: Sludge drying beds at Northern STP.



Picture 23: Former dewatering building being reconstructed for plant upgrade at Northern STP.



Picture 24: Out of service anaerobic digester at Northern STP.



Picture 25: Sludge drying beds being cleaned at Northern STP.



Picture 26: Overlooking shot of chlorine contact tanks at Northern STP. Tanks were not in use for disinfection.



Picture 27: Gas bubbles on the surface of the chlorine contact tanks.
Possibly methane from fermentation of organic matter in the tanks.



Picture 28: Discharge over the effluent weir of one of the two chlorine contact tanks at Northern STP.



Picture 29: Solids on the surface of the chlorine contact tank at Northern STP.



Picture 30: Chlorine contact tank discharge showing surface skimmer.



Picture 31: Close up view of effluent at Northern STP chlorine contact tank.



Picture 32: Discharge from primary clarifiers to chlorine contact tank through Parshall flume (out of frame). Northern STP.



Picture 33: Chlorine contact tank (right hand side) at Northern STP.



Picture 34: Effluent discharge from right hand chlorine contact tank.



Picture 35: Close up view of effluent from right hand chlorine contact tank at Northern STP.



Picture 36: Out of service Parshall flume to chlorine contact tanks at Northern STP.



Picture 37: Effluent sampler and tubing for combined discharge from chlorine contact tanks at Northern STP.