

WATER QUALITY TOWN HALL

NOVEMBER 5, 2021 SALINE CITY HALL

RESOURCES



City of Saline

Department of Public Works

Department of Water Production and Wastewater Quality

Office of the City Manager
Office of the Mayor



Washtenaw County
Health Department

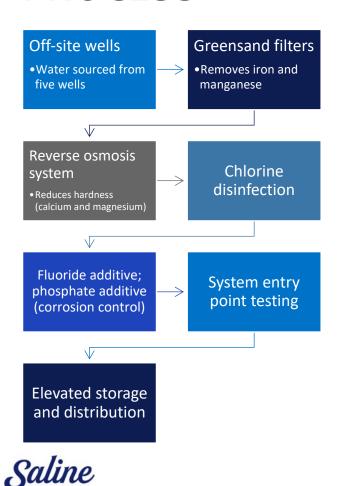


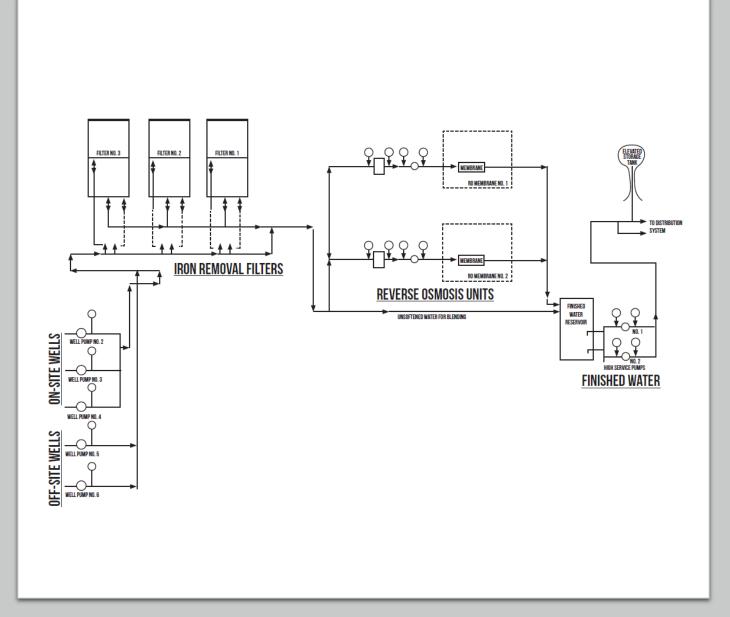
State of Michigan

Department of Environment, Great Lakes, and Energy



CURRENT WATER TREATMENT PROCESS





WATER QUALITY TESTING

- Routine compliance testing:
 - Daily testing of system entry point for hardness, iron, pH, phosphorus, chlorine, and fluoride
 - Twelve monthly tests for bacteria and residual chlorine throughout the distribution system
 - This level of testing is in excess of state minimum requirements
 - Four monthly distribution system tests for pH, alkalinity, sulfate, chloride, and orthophosphates
 - This level of testing is in excess of state minimum requirements
 - Annual or semi-annual testing in accordance with other state requirements such as for unregulated contaminants or high regulated contaminants like lead and copper



RECENT TESTING RESULTS

STATE AND FEDERAL

- No violations of monthly or daily water quality testing parameters
- No samples exceeding state action levels for lead and copper

LOCAL RESIDENTIAL TESTING

- Free residential testing for pH, hardness, iron, and chlorine
- Twenty-nine samples received
- One result significantly outside of targeted hardness range
 - Cause identified
- One result significantly outside of targeted iron and residual chlorine range
 - Currently investigating



DISTRIBUTION SYSTEM

- 50 miles of water main
 - HDPE (plastic)
 - Ductile iron
 - Cast iron
- Two elevated water tanks
- System wide flushing occurs twice a year in spring and fall
- Repairing main breaks



HYDRANT FLUSHING

- System wide flushing completed October 21st
- Part of regular system maintenance
- Identified as a best practice standard by water distribution professionals
- Removes sedimentation
- Increase in discoloration and sediment during and directly following flushing due to agitation



COMMON ISSUES

- Iron build up in pipes or mains
 - Typically resolved by regular flushing
 - No iron filtration prior to 2005
- Water heaters
 - Tanks should be drained annually as part of regular home maintenance
 - If sedimentation was pulled into the tank during flushing or a brown water event, drain the tank, run cold water until clear, and refill tank
- Aerators/faucets
 - Aerator screens should be cleaned as part of regular home maintenance
 - Confirm the age or material of your faucet are not the culprit
- Age or material of pipes inside the home
 - Some homes may require in-line filters due to the age of plumbing
- Existing home softener system
 - Perform regular maintenance on your water softener system to avoid sediment or build up of iron and manganese in the tank



MAINTENANCE AND CAPITAL PROJECTS

- Water Plant
 - Adding third high service pump (FY 22/23), and rebuilding existing high service pumps (FY 24/25)
 - Greensand media filter replacement and painting (FY 22/23)
 - Adding third water tower (target FY 24)
 - EGLE Lead and Copper Rule compliance
- Distribution system
 - Dead end flushing
 - Valve maintenance/assessment
 - Residential meter replacement program
 - Painting Henry Street Tower
 - Water main lining and replacement
 - FY 22 Highland, Hillcrest, Lawson, Michigan Ave (lining)
 - FY 23 Maple, Marlpool, Forestbrooke
 - FY 24 N Ann Arbor, Transmain #2 (WTP to Bennett)
 - FY 25/26 anticipated Six Trails Loop, N Industrial Drive



OTHER CONSIDERATIONS

- Policy considerations
 - Limiting irrigation system run times or dates to reduce seasonal strain on the distribution system
 - Promotion of smart meter irrigation
- Expanded testing
 - Launching program with Washtenaw County Health Department to offer free lead and bacteria testing to residents who have recurring water discoloration concerns



CONTACT US

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