

City of Flint Water Improvements

DATE	IMPROVEMENT	EFFECT	COST	STATUS
Nov.	Increased flushing efforts (as weather permits)	Reduced time of water in the system		Planned for Summer
Nov.	Adjusted operational softening to no less than 80%	Reduce chlorine demand		In Process
Dec.	Started hydraulic modeling of distribution system	Helps to identify locations of bad valves	\$80,000	In Process
Dec.	Started evaluation of different polymers	Removal of organic carbon		In Process
Dec.	Started SCADA upgrades inside of Water Plant	Improvement of internal software controls	\$424,000 Budgeted	In Process
Jan.	Hired vendor to upgrade efficiency of the ozone system	Better oxidation and disinfecting	\$7,200	Complete
Jan.	Started jar testing	Assists in dosage amounts and polymer aids		In Process
Feb.	Hired consultant Veolia for process review	Professional recommendations	\$40,000	In Process
Feb.	Leasing a TTHM analyzer	Increased internal testing ability	\$8,000	
Feb.	Adjustments to reservoir level to match demand	Reduce time of water in system		Ongoing
Mar.	Implement process controls	Professionalism / efficiency	~\$300,000	Evaluating
Mar.	Utilize Granulated Activated Carbon Filtering	Large reduction in TOC	\$1,500,000	Evaluating
Mar.	Increase ferric chloride / reduce ozone feed rate / reduce lime dosage	Reduction in hardness	~\$600,000	In Process
Mar.	Build hydraulic model	Assists in identifying locations of bad valves	Budgeted	Complete
Mar.	Communication program	Community awareness	~\$80,000	Evaluating