

Appendix A - Priority Project List

1. O&M Contract
 - a. Establish, support, and maintain a contract(s) for operation and maintenance of the System. The contract must establish clear level of service goals including minimum appropriate staffing in accordance with Miss. Admin. Code § 15-20-72.2.2.1(5) and all applicable laws and regulations.
2. Winterization of system
 - a. Develop and implement to the extent funding and schedule permit a comprehensive plan to properly winterize both O.B. Curtis and J.H. Fewell.
 - b. Complete membrane winterization project.
3. Corrosion control
 - a. Address any outstanding issues impeding full implementation of optimized corrosion control treatment (“OCCT”) at J.H. Fewell and O.B. Curtis, and complete implementation of such OCCT as required by MSDH and consistent with the MSDH-approved OCCT plans to meet State-approved water quality parameters.
4. Alternative water source plan
 - a. Implement an Alternative Water Source Plan (“AWSP”) including entering into agreements for the immediate provision of alternative water - at least one gallon per person per day.
5. Distribution system study, analysis, and implementation
 - a. Develop a plan for EPA review and approval for distribution system study and analysis to include at a minimum:
 - i. A GIS-based dynamic hydraulic model
 - ii. Valve and hydrant location and assessment, including valve size
 - iii. An asset management system
 - iv. Water loss identification and reduction
 - v. System operation optimization and configuration standards
 1. Pressure study – HGL analysis
 2. Implement pressure control/pressure zones/booster pumping as recommended and as funding and schedule permit.
 - vi. Corrosion control
 - vii. Service line inventory and replacement planning
 1. Prioritize replacement of any lead lines found, with schedule approved by EPA and MSDH.
 2. Update lead service line replacement plan in compliance with Lead and Copper Rule Revisions.
 - b. Implement plan as funding and schedule permit.

6. System stabilization and sustainability plan
 - a. Develop a sustainable plan to stabilize and invest in the water system to ensure safe and reliable drinking water for all of Jackson, all the time.
 - b. Key areas to be addressed include sustainable revenue models, appropriate levels of renewal and replacement, asset management plan, service levels, water demand modeling, and other related factors.
7. SCADA system improvements – sensors, actuators, sensors, etc.
8. Chemical systems at plants and wells
 - a. Assess and repair, as necessary, all chemical feed pumps and associated equipment at all facilities, including but not limited to; controls, sensors, weight indicators, and feed lines, to return all chemical feeds to fully functional status, ensure operational redundancy, and establish flow paced automated dosing for all chemical feed systems.
9. Chlorine system improvements at O.B. Curtis
 - a. Make replacements or immediate interim repairs as necessary for continuous safe operation.
 - b. Develop and implement plan to eliminate use of gaseous chlorine at O.B. Curtis.
10. Intake Structure Repairs
 - a. Assess and repair, as necessary, the intake structures at J.H. Fewell and O.B. Curtis, including, but not limited to, sensors (including related remote SCADA capabilities), chemical feed systems, valves, electrical components, screens, physical structure, and any appurtenances, to return the intake structures and related components to fully operational status.
11. Treatment facilities (J.H. Fewell and O.B. Curtis as applicable) unit processes and pumps – evaluate performance and restore redundancy
 - a. Membrane system
 - b. Raw water pumping and screening
 - c. Oxidation basins
 - d. Rapid mix
 - e. Flocculation and sedimentation
 - f. Sludge removal
 - g. Filters
 - h. UV
 - i. Transfer pumping
 - j. High service pumping

12. Sludge assessment in all finished water storage facilities
 - a. Assess sludge levels and remove as required. Develop operating procedures to minimize future sludge accumulation in all finished water storage facilities.

13. Resilient power plan
 - a. Assess power vulnerability throughout the system and develop and implement a plan to address issues identified in the assessment as funding and schedule permit.