

Mendocino City Community Services District Phase 1 Plant Upgrade Project

On June 29, 2018, USDA allocated funds for the District's Wastewater Treatment Plant Upgrade Project. The funding consists of a \$2,101,000 loan at 2.625% for 40 years and a \$1,486,000 USDA grant. The following improvements will be made to the wastewater treatment plant:

1. A new Operation Building will be constructed. The building will be used to house the District's service truck, the high pressure jetter trailer and all related equipment that is used for maintaining the District sewer collection system. A new laboratory for analyzing the water entering and leaving the treatment plant will be installed in the Electrical Room in this building. The Chlorine Room is located adjacent to the Electrical Room, and after the building project is completed the Chlorine Room will be used to house the existing plant chlorination and de-chlorination systems. All of the recycled water system components now located in the old Control Building next to the Office and at outside locations will be moved into that Chlorine Room as well. Sodium hypochlorite disinfection drums will be stored there. If there is any remaining space, operators plan to park a forklift inside the garage area of the new Operations Building.
2. The #2 plant water system that supplies water to various treatment processes and to plant fire hydrants will be moved into the Chlorine Room.
3. The tertiary backwash controls located in the Backwash Control Building will be upgraded with a programmable logic controller. All of the motor controls for the tertiary filter backwash pumps will be replaced, and all pumps will be rewired to bring them up to current electrical code.
4. The old 400 amp power supply service will be replaced with a new 600 amp electrical service panel. The existing 400 amp service is currently located in the aeration Blower Room next to the Office. The new service will be installed in a remodeled Electrical Service Room in the Press Building. A new emergency generator transfer switch will be installed in the new Electrical Service Room.
5. All of the old motor control panels found in the Blower Room will be replaced.
6. In the 1970s, the plant's metal conduits served as the ground for the plant's 480 volt three phase pumps and motors. The metal conduits have been or are close to being rusted out by the corrosive coastal weather over the last 44 years of service, and this has compromised the safety of the plant's electrical systems. Most of the conduits are going to be replaced and many of the electrical pumps and motors will be rewired.
7. PG&E is scheduled to replace the existing transformer that supplies power to the plant.
8. Much of the engineering for a future Phase 2 Project was included in the current Project.
9. In the Electrical Room in the new Operations Building, a new electrical panel will be installed for future recycled water system improvements. This panel will have the capacity to power future treatment process equipment as well.
10. The Chlorine Room has been engineered to accommodate a new recycled water system, an onsite chlorine generation system, updated de-chlorination system, and a new #2 plant water system during a future Phase 2 Project.
11. A Phase 2 Project will include high capacity recycled water pumps to transfer recycled water to the K-8 School and Friendship Park for irrigation, and will provide recycled water to fire hydrants along Ukiah Street as well.
12. The District Office will be remodeled to be ADA compliant. A wheelchair accessible counter is going to be built in the Office. The bathroom will be remodeled and all doors will be replaced for wheelchair access.
13. The old Control Room where the current existing lab is found will be converted into a meeting room for the monthly Board of Director's meeting.
14. A handicap parking space with a designated path of travel will be added in the parking lot next to the Office.