

H.L. Mooney Advanced Water Reclamation Facility Wide Improvements

Design Build Contract # SA-2101A-B

Owner's Consultant Contract # SA-2104

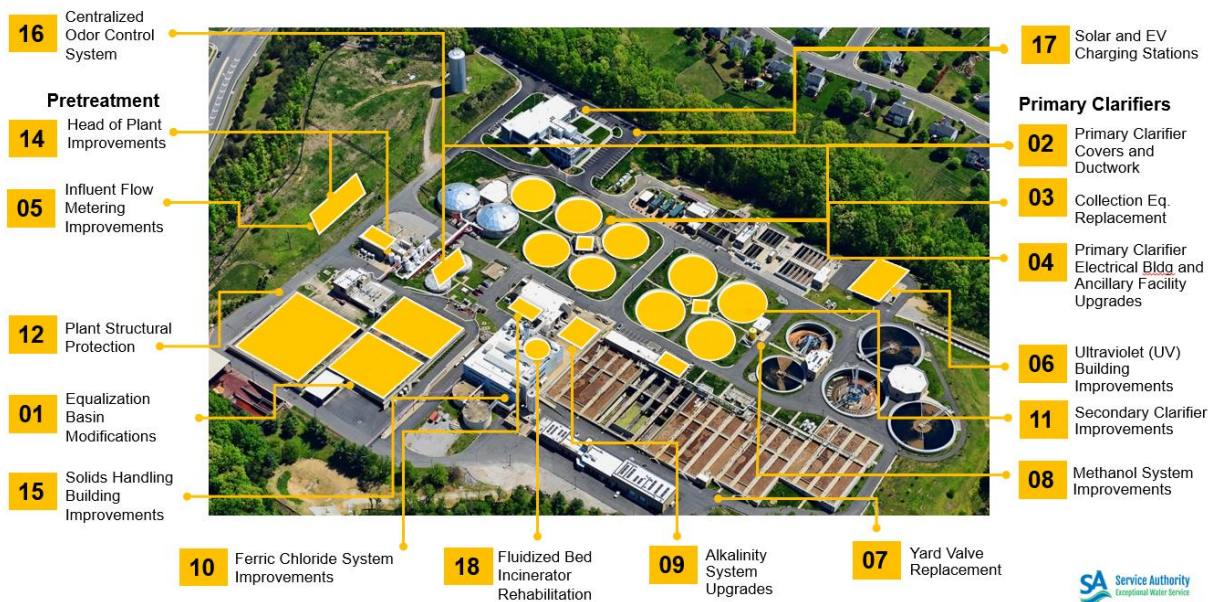
Project Background:

The H.L. Mooney Advanced Water Reclamation Facility (AWRF) is a 24.0 mgd facility that includes preaeration, preliminary treatment, flow equalization, primary treatment, biological nutrient removal (BNR), enhanced nutrient removal (ENR), chemical phosphorous removal, tertiary filtration, and ultraviolet disinfection. Solids processing includes gravity thickening, centrifugal dewatering, fluidized bed incineration, and ash disposal. Flow received at the H.L. Mooney AWRF must be processed on a continuous and uninterrupted basis, 24-hours a day, seven days a week and meet all regulatory requirements for air, water, and safety.

Project Description: This Prince William County Service Authority project is a progressive design-build project that includes the professional design, project management, owner's consultant services, and construction services necessary to design and construct of eighteen (18) project components listed below:

1. Component 1- Equalization Basin Modifications
2. Component 2 - Primary Clarifier Odor Control System Upgrades
3. Component 3 - Primary Clarifier Collection System Improvement
4. Component 4 - Primary Clarifier Electrical Building and Ancillary Facility Upgrades
5. Component 5 - Influent Flow Diversion and Equalization Basin Flow Metering Impr.
6. Component 6 - Ultraviolet (UV) Building Improvements and Additional UV Equipment
7. Component 7 - Yard Valves Replacement
8. Component 8 - Supplemental Carbon System Improvements
9. Component 9 - Alkalinity System Upgrades
10. Component 10 - Ferric Chloride System Improvements
11. Component 11 - Secondary Clarifier Improvements
12. Component 12 - Plant Structural Protection (miscellaneous assets)
13. Component 14 - Head of Plant Improvements (Headworks)
14. Component 15 - Solids Handling Building Improvements
15. Component 16 - Centralized Odor Control System
16. Component 17 - Solar and EV Charging Stations
17. Component 18 - Fluidized Bed Incinerator Rehabilitation
18. Component 19 - Freight Elevator Improvements

Design-Build Project Components



Project benefits:

This project will provide improved operational resiliency, improved level of service and allow the plant to continue to meet its regulatory requirements.

Benefits to Customers/ residents:

- Odor Control Improvements
- Reinvesting in infrastructure
- Added resiliency for continuous treatment
- Enhanced sustainability impact and potential Institute for Sustainability Infrastructure (ISI) Envision certification
- Environmental stewardship outreach opportunities

Project Website: <https://www.pwcsa.org/mooney-improvements>

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