

Northwest Water Facility (NWWF) Testing Plan



Public Works & Utilities

June 14, 2022



Important Dates



- December 18, 2017 Proposals for Development of 5% Design and Required Funding Documents
- July 30, 2018 WIFIA LOI Submittal
- October 2018 Invitation to Apply from EPA WIFIA Program
- January 28, 2019 Proposal for Phase 1 NWWF Design-Build Project to proceed to 30% design and other documents for funding applications
- February 12, 2019 Approval of Wichita Water Partners Phase 1 Agreement
- April 9, 2019 Approval of Garver Owner's Site Representative Phase 1 Agreement



Important Dates



- October 30, 2019 WIFIA Application Completed
- December 3, 2019 City Council Approval of Phase 2 Agreements to complete design and construction with Wichita Water Partners and with Garver as Owner's Site Representative
- April 14, 2020 EPA WIFIA Agreement approved
- November 3, 2020 KDHE SRF Agreement No. 1 approved
- April 19, 2022 KDHE SRF Agreement No. 2 approved
- September 17, 2024 Contract Substantial Completion Date
- January 20, 2025 Contract Project work Complete Date



Northwest Water Facility



- Reliability – built-in redundancy for critical components to deliver 120 MGD
- Drought and Pipeline Resiliency- treatment does not require source water blending
- Water Quality- will meet or exceed all current water quality standards and designed to potential future water quality needs



Testing Plan Basics



- Verify individual assets and components meet the needs of the project and are completed correctly
- Verify flow rates of process trains meet the project requirements
- Verify redundancies are built-in to meet the high level of reliability Design-Builder emphasized in Phase 1
- Verify the finished water quality under different scenarios



Criticality of Testing Plan



- Projects of this scale require a formal complete and thorough testing plan due in part to the number of assets which must work together and the complexity of the processes and redundancies.
- This formal testing plan is to further ensure the Design-Builder meets the requirements of the City in meeting the needs of the community.
- Formal testing of the various flow rates and water quality is how to assure the community that the project will produce the high-quality water expected.



Need for Consulting Services



- To develop this level of testing plan on a project this scale outside consultant engineer service are needed.
- The number of assets and systems and the resulting quantity possible process trains.
- A consultant experienced with testing a range of complex systems and a consultant experienced with similar processes for filtering and finishing potable water



Selection of Consultant



- RFP for Consulting Services
- Three proposals received
- Proposals reviewed by Screening and Selection Committee
- Committee made up of Project Steering Committee (including two City Council members and outside stakeholders) and other City staff
- Committee interviewed all three and selected a Preferred Proposer based on Qualifications, Proposed Scope, Proposed Fee, Proposed Schedule, and EBE/DBE Inclusion



Consulting Services Budget



- NWWF Program Budget included \$20M for consultant advisor services.
- Budget is sufficient to allow for the Preferred Proposer's proposed agreement not to exceed \$339,700



Recommendation



- Approve the agreement with CDM Smith



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