

SWTP Plant Expansions

(Preliminary Engineering & Cost Estimates)

Michael J. McCurnin, Director of Engineering Services

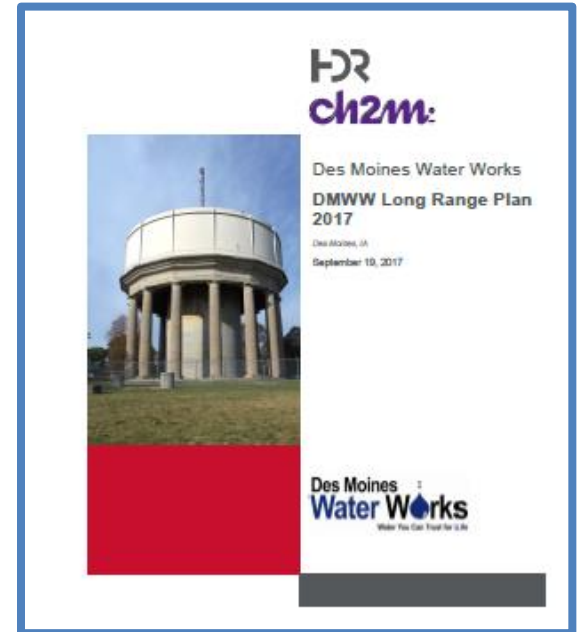
Wally J. Burgin, Engineering Supervisor

Des Moines
Water Works

Water You Can Trust for Life

Background

- 2017 Long Range Plan
 - Fuels 5 Year CIP
 - Fuels Annual Budgeting
- LRP Update and Progress Report (Q1 of 2021)
- Parallel Regionalization Discussions



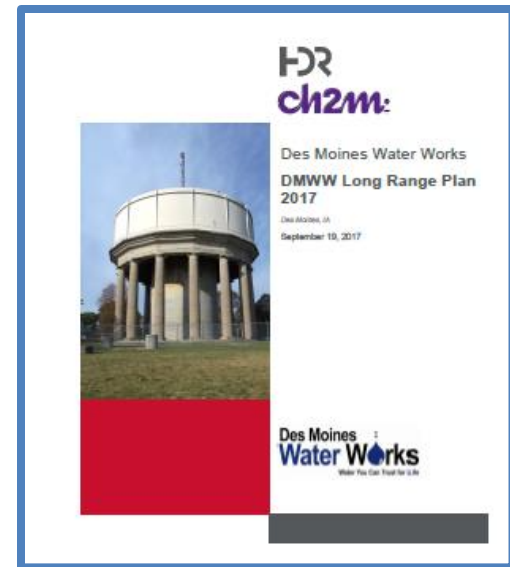
Des Moines Water Works DMWW Long Range Plan Update and Progress Report

Des Moines, IA

February 25, 2021

Background

- 2017 Long Range Plan
 - Existing Treatment Capacity
 - FDWTP @ 75 MGD
 - MWTP @ 25 MGD
 - SWTP @ 10 MGD
- Planned Expansions (Alt 2a)
 - SWTP @ 10 MGD (membrane)
 - MWTP @ 12.5 MGD
 - SWTP @ 25 MGD (conventional)



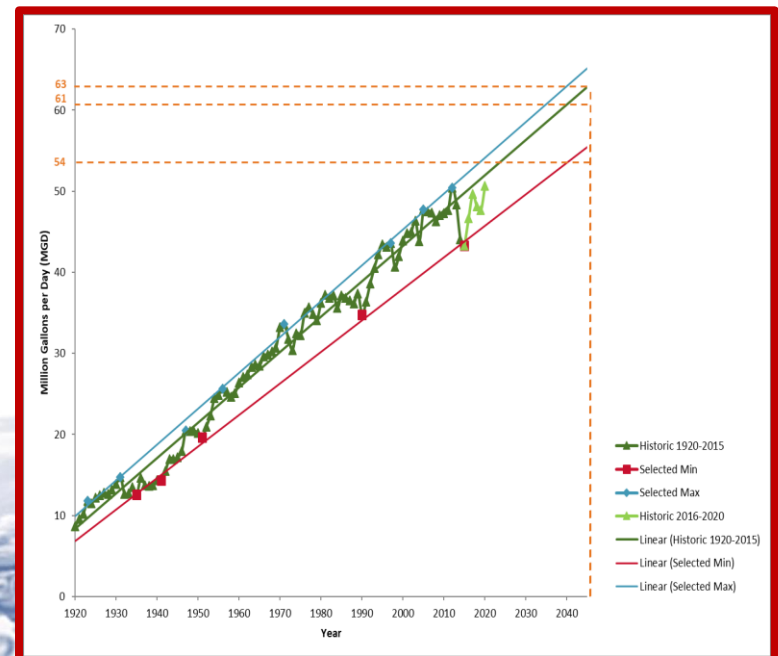
Background

- LRP Update and Progress Report (Q1 of 2021)
 - Operational Data
 - 2020 Water Sales
 - New Demands
 - Avg Day
 - “....projects cannot be delayed.....consider the sequence and order of plant expansions.....”

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Near-Field Targets/Goals

- Preliminary Engineering for a 10 mgd expansion at SWTP?
- Preliminary Engineering for a 25 mgd expansion at SWTP?
- Equip CEO-GM & DMWW Board Dec-2021/Jan-2022



Request for Proposals

- Preliminary Engineering for a 10 mgd expansion at SWTP
- Preliminary Engineering for a 25 mgd expansion at SWTP
- 10% design with Schematics, Concepts, Site Layouts & Construction Cost Roll-Ups for all **Source, Treatment, and Transmission**
- Creativity of Proposers/Consultants

II. PROFESSIONAL SERVICES REQUIREMENTS

A. SCOPE OF SERVICES AND DELIVERABLES

Scope of services for this project includes an evaluation of the existing 10 mgd facility and then the preliminary engineering, report writing, and cost estimating associated with an individual 10 mgd expansion and then an individual 25 mgd expansion to the SWTP site. Preliminary design work shall meet requirements of DMWW, 10 States Standards, Iowa DNR, and the US Army Corps of Engineers for each of the upgrades being considered.

“Preliminary Engineering” efforts shall resemble near 10% completion of design drawing effort and shall include schematic designs, preliminary site plan and building layouts, unit processes with sizing and configuration, major equipment layouts, and well-organized construction cost roll-up and summations for all source, treatment, and transmission elements.

Request for Proposals

- Local, Regional, National, and International Firms will have interest.
- Will contact those most familiar with DMWW.
- Publicize on web and in paper.



BLACK & VEATCH



Request for Proposals

- 5/28/2021 :: RFP Delivered
- 7/2/2021 :: Proposals Due
- Week of 7/12/2021 :: Interviews
- 7/27/2021 :: Board Approval



Questions?

