



### System-Wide Finished Water Reservoir Inspection, Design and Rehabilitation

- Innovation
- Water MP Right Sizing
- Reliability/Redundancy
- NEWTP Repurposing

**Project Status** Active

**CIP Type** Program

**Project New To CIP**

**Project Engineer/Manager** Eric Kramp

**Manager** Grant Gartrell

**Managing Dept** Water Eng

**Date Original Business Case Prepared** 10/12/2016

**Year Project Added to CIP** 2016

**Budget** Water

**Class Lvl 1** Water

**Class Lvl 2** Programs

**Class Lvl 3** Programs

**Location** Multiple Counties

#### Fund and Cost Center

**Project Significance** This project merges all CIPs associated with Reservoir Rehabilitation except 170800 into a single, Omnibus CIP Project. This new project is being managed against a overall repair schedule to mitigate conflicts in the transmission system so as to minimize the impact for MDEQ Mandated inspections and repairs to GLWA Reservoirs at Booster Stations and Water Treatment Plants.

**Scope of Work** The contract will provide inspection and maintenance of the existing 23 of 33 potable water storage tanks in the system.

**Challenges** Considerable plant, transmission system, and Jurisdiction Haven Authority buy-in is required to perform this contract. Isolation of the Reservoir has been a challenge for GLWA and its predecessor agency.

**Project History** This project combines CS132023 and CIP 132024 into a single project.

**Related Project** CIP 170800 (CS-151A), and previous projects DWS-874 and DWS-823.

**Lookup Driver** 3 - Regulatory

**Explanation** MDEQ requires inspection of potable water storage tanks on a fixed schedule.



System-Wide Finished Water Reservoir Inspection, Design and Rehabilitation

**PM Weighted  
Score**

**62.8**

Criteria	Score	Comment
Condition	4	
Efficiency and Innovation	3	
Financial	1	
O&M	5	
Performance (Service Level/Reliability)	4	
Public Benefit	1	
Public Health & Safety	2	
Regulatory (Environmental/Legal)	4	



System-Wide Finished Water Reservoir Inspection, Design and Rehabilitation

**Phase** Construction

**Contract** TBD

**Status** Future Planned Start

**Title** Construction

**Phase Budget**

**Phase Status**

**Start Date**

**End Date**

**Cost Allocation**

**Funding Source**

**Fund**

**Useful Life >20Yrs?**

**Tot. Federal Loan Amount**

**Cost Estimation Information**

**Cost Est. Class**

**Cost Est. Date**

**Cost Est. Source**

**Cost Est. Prepared By**

**Program/Allowance Task Information**

**Project Manager**

**CIP Number**

**Description**

Cost Type	Fiscal Year	Expense	Fringe Benefit	NonPersonne	Comment
Construction	FY20	\$4,496			2020CIP
Construction	FY21	\$4,630			2020CIP
Construction	FY22	\$4,769			2020CIP
Construction	FY23	\$3,275			2020CIP
Construction	FY24	\$5,060			2020CIP
Construction	FY25+	\$30,130			2020CIP

Task	Start Date	End Date	Duration
Scope Development	11/1/2018	3/1/2019	120
Procurement	3/1/2019	8/28/2019	180
Project Execution	8/28/2019	4/1/2027	2773
Project Closeout	4/1/2027	6/30/2027	90

Prior Yr Actuals	FY19	FY20	FY21	FY22	FY23	FY24	FY25+	Total
	0	4,496	4,630	4,769	3,275	5,060	30,130	52,360

**Phase Total Expenses By FY (All figures are in \$1,000's)**



System-Wide Finished Water Reservoir Inspection, Design and Rehabilitation

**Phase** GLWA Employees Project management

**Contract** NA

**Status** Active

**Title** GLWA Salaries

**Phase Budget**

**Phase Status**

**Start Date**

**End Date**

**Cost Allocation**

**Funding Source**

**Fund**

**Useful Life >20Yrs?**

**Tot. Federal Loan Amount**

**Cost Estimation Information**

**Cost Est. Class**

**Cost Est. Date**

**Cost Est. Source**

**Cost Est. Prepared By**

**Program/Allowance Task Information**

**Project Manager**

**CIP Number**

**Description**

Cost Type	Fiscal Year	Expense	Fringe Benefit	NonPersonne	Comment
GLWA Salaries CIP2020	FY19	\$7	3	0	2020CIP
GLWA Salaries CIP2020	FY20	\$34	13	2	2020CIP
GLWA Salaries CIP2020	FY21	\$35	14	2	2020CIP
GLWA Salaries CIP2020	FY22	\$34	13	2	2020CIP
GLWA Salaries CIP2020	FY23	\$35	14	2	2020CIP
GLWA Salaries CIP2020	FY24	\$34	13	2	2020CIP
GLWA Salaries CIP2020	FY25+	\$208	82	10	2020CIP

Task	Start Date	End Date	Duration
Scope Development	6/30/2016	11/1/2018	854
Project Execution	11/1/2018	4/30/2027	3102
Project Closeout	4/1/2027	6/30/2027	90

Prior Yr Actuals	FY19	FY20	FY21	FY22	FY23	FY24	FY25+	Total
	10	49	51	49	51	49	300	559

Phase Total Expenses By FY (All figures are in \$1,000's)



System-Wide Finished Water Reservoir Inspection, Design and Rehabilitation

**Phase** Study and Design and Construction Assistance

**Contract** TBD

**Status** Active

**Title** Engineering

**Phase Budget**

**Phase Status**

**Start Date**

**End Date**

**Cost Allocation**

**Funding Source**

**Fund**

**Useful Life >20Yrs?**

**Tot. Federal Loan Amount**

**Cost Estimation Information**

**Cost Est. Class**

**Cost Est. Date**

**Cost Est. Source**

**Cost Est. Prepared By**

**Program/Allowance Task Information**

**Project Manager**

**CIP Number**

**Description**

Cost Type	Fiscal Year	Expense	Fringe Benefit	NonPersonne	Comment
Engineering Services	FY19	\$472			2020CIP
Engineering Services	FY20	\$583			2020CIP
Engineering Services	FY21	\$530			2020CIP
Engineering Services	FY22	\$364			2020CIP
Engineering Services	FY23	\$562			2020CIP
Engineering Services	FY24	\$386			2020CIP
Engineering Services	FY25+	\$3,348			2020CIP

Task	Start Date	End Date	Duration
Scope Development	6/30/2016	11/20/2017	508
Procurement	11/20/2017	11/20/2018	365
Project Execution	11/20/2018	4/1/2027	3054
Project Closeout	4/1/2027	6/30/2027	90

Prior Yr Actuals	FY19	FY20	FY21	FY22	FY23	FY24	FY25+	Total
	472	583	530	364	562	386	3,348	6,245



**System-Wide Finished Water Reservoir Inspection, Design and Rehabilitation**

**Phase Total Expenses By FY (All figures are in \$1,000's)**

**Phase** not applicable

**Contract** NA

**Status** Closed Out

**Title** Prior Year Actual Expenses

**Phase Budget**

**Cost Allocation**

**Phase Status**

**Funding Source**

**Start Date**

**Fund**

**End Date**

**Useful Life >20Yrs?**

**Tot. Federal Loan Amount**

**Cost Estimation Information**

<input type="text" value="1"/>	<b>Cost Est. Class</b>
<input type="text"/>	<b>Cost Est. Date</b>
<input type="text"/>	<b>Cost Est. Source</b>
<input type="text"/>	<b>Cost Est. Prepared By</b>

**Program/Allowance Task Information**

**Project Manager**

**CIP Number**

**Description**

**Phase Total Expenses By FY (All figures are in \$1,000's)**

**Project Total Expenses By FY Compared to Prior CIPs (All figures are in \$1,000's)**

CIP	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	Total
2018		50	3,300	2,550	2,550	2,550			0	0	11,000
2019	0		39	472	753	4,510	4,340	4,340	4,645	0	19,099
2020	0	0		482	5,128	5,211	5,182	3,888	5,495	33,778	59,164