

GLWA's FY 2020 - 2024 Capital Improvement Plan

*GLWA CIP Committee Meeting
December 18, 2018*

1:00 p.m. – 3:00 p.m.



Agenda

- **Introduction**
- **Questions & Answers from CIP Preliminary Draft 1**
- **Major CIP Changes Since Preliminary Draft 1**
- **Next Steps and Closing Remarks**

Questions & Answers From CIP Preliminary Draft 1



GLWA 2020-2024 Capital Improvement Plan Preliminary Draft 1 Comments, Questions and Answers December 13, 2018

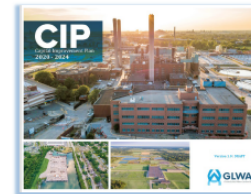
Summary:

The 2020-2024 Capital Improvement Plan (CIP) review period began with the release of the Preliminary Draft 1.0 at the Great Lakes Water Authority (GLWA) Capital Improvement Planning Committee on October 29, 2018. Preliminary Draft 1.0 was also released at the Charges Roll-Out #1 - CIP meeting held on October 25, 2018. Comments were requested by November 19, 2018.

Written responses were received from member partners and the GLWA Board of Directors. In addition, feedback, questions and comments were gathered from the Asset Management / Capital Improvement Planning Work Group meeting held on November 27, 2018.

General comments were received from several of the respondents that provided positive feedback and support for the CIP's ease of use, level of detail, as well as the effort that went into developing it and the improvements incorporated year-over-year.

The respondents also provided 45 comments and questions related to many areas within the CIP and in the projects that were presented. Each of these comments and questions have an associated response written after each question. Where applicable, and as indicated in the response to each question or comment, modifications to the overall CIP document have been made and can be viewed within the 2020-2024 Capital Improvement Plan Preliminary Draft 2.



General Information

- Preliminary Draft 1 Released
 - To Member Partners at Charges Roll-Out Meeting #1 on 10/25/2018
 - To GLWA CIP Committee Meeting on 10/29/2018
- Comments and Questions
 - Due on 11/19/2018
 - From Member Partners, Directors and AM/CIP Work Group
 - 6 General Comments
 - 45 Specific Questions & Comments
- Preliminary Draft 2 Released Today

Questions & Answers From CIP Preliminary Draft 1

- **Overarching Comments :**

- Positive in nature specifically related to improvements

“I am very heartened in that the level of detail and effort placed into the CIP plan continues to increase and improve year over year and now clearly sets forth a much improved understanding of the prioritized needs of GLWA in addressing its maintenance of its critical assets.”

“Continuing improvements in CIP process, especially in the connection between the financial and technical side.”

Questions & Answers From CIP Preliminary Draft 1

45 Comments and Questions, Grouped into 8 Types

| Comment Type | Quantity |
|---|----------|
| Prioritization, Risk & Project Timing | 20 |
| Project Information (Condition Assessments to Inform CIP, BCE versus RFP scope of work, O&M Projects) | 6 |
| CIP Delivery & Spend Rate Assumption Policy | 5 |
| Financial Information & Procurement (CIP Chapter III) | 4 |
| CIP Format & Information Provided | 3 |
| Process (Review Committee, Charges-Rollout) | 3 |
| External Resource Availability | 2 |
| Water Treatment Capacity Reduction Re-evaluation | 2 |
| Total | 45 |

Official responses to questions are available in hard copy.

Questions & Answers From CIP Preliminary Draft 1

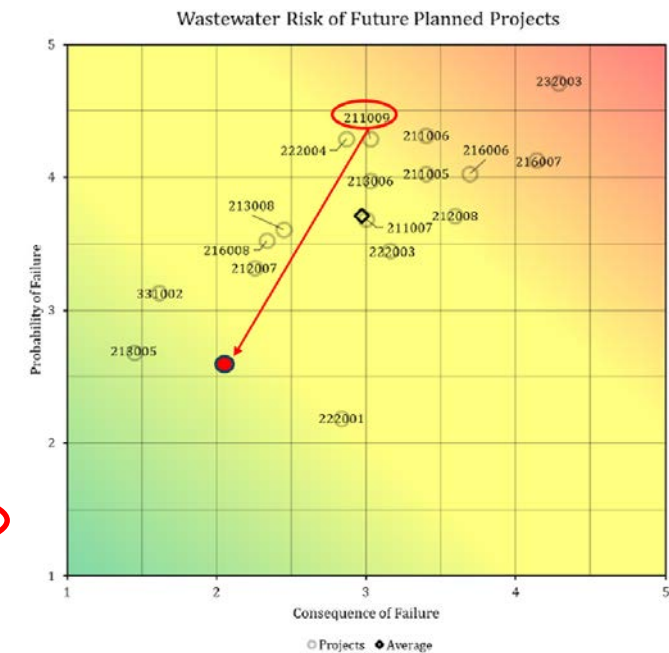
Prioritization, Risk & Project Timing:

- 1) Future review of the prioritization criteria
- 2) Detailed evaluation of the higher risk projects to ensure justifiable timing

Table V-1. Project Prioritization

| No. | Weight | Criteria | Risk Factor |
|-----|--------|---|-------------|
| 1 | 12% | Condition | Probability |
| 2 | 15% | Performance (Service Level/Reliability) | Probability |
| 3 | 18% | Regulatory (Environmental/Legal) | Consequence |
| 4 | 11% | O&M | Probability |
| 5 | 17% | Public Health & Safety | Consequence |
| 6 | 8% | Public Benefit | Consequence |
| 7 | 10% | Financial | Consequence |
| 8 | 9% | Efficiency & Innovation | Consequence |

| 2023-2024 CIP Water Future Planned Project Prioritization & Projected Funding | | | | | | | | | | | | | | |
|---|--|-------|----------------|-----|-----|--------|--------|--------|--------|--------|--------|--------|--------|--|
| CIP | Title | Score | Prioritization | Cal | Pol | FY2023 | FY2024 | FY2025 | FY2026 | FY2027 | FY2028 | FY2029 | Notes | |
| | | | Ranking | | | | | | | | | | | |
| 22352 | Emergency WWT WTP Building Ventilation Improvements | 75 | 1 | 4.8 | 3.5 | 7 | 507 | 3,907 | 000 | - | - | - | - | |
| 21100 | WTP Low and High Lift Pumping, and Filter Backwash Pump Improvements | 71 | 7 | 1.7 | 5.0 | - | 401 | 1,611 | 3,149 | 4,492 | 10,000 | 12,713 | 17,641 | |
| 21100 | WTP Low and High Lift Pumping & Rapid Mix Chamber (PFI), Dulce Sea, Fossilization & Filtration System Improvements | 69 | 3 | 3.8 | 4.0 | - | - | - | - | 1,349 | 3,840 | 4,593 | 7,348 | Project was delayed due to financial prioritization |
| 21304 | WTP Raw Water Backwash | 67 | 4 | 7.5 | 4.7 | 1 | 1,346 | 1,346 | 0 | - | - | - | - | |
| 22002 | Northwest District Station Port Piping Improvements | 64 | 5 | 3.5 | 2.8 | - | - | 50 | 1,790 | 3,790 | - | - | - | |
| 21305 | WTP Two 25 MGSD High Lift Pumps, Water Production Flow Meters and Port Piping Improvements | 62 | 6 | 3.1 | 3.1 | 16 | 9,310 | 10,000 | 7,000 | - | - | - | - | The 95 and transmission main relocation project (CIP 127004) is dependent on the completion of this project. |
| 21401 | WTP Port Piping and High Lift Header Improvements | 62 | 7 | 3.3 | 4.4 | - | - | - | - | 77 | 493 | 15,719 | 15,719 | Project can be delayed because engineering has mitigated a portion of the risk and recent assessments indicate positive project outcomes |
| 22002 | Fullerton P2 Improvements | 61 | 8 | 2.3 | 4.3 | 10 | 365 | 885 | 4,803 | 4,225 | 3,333 | - | - | DOCS is assessing impacts |
| 21005 | MC Steel Cover Replacement | 61 | 9 | 2.6 | 3.8 | - | 166 | 647 | - | - | - | - | - | |
| 21001 | Roofing Systems Replacement at Water Plants and Sewer Pump Station | 61 | 10 | 1.8 | 5.0 | - | - | 375 | 375 | 1,675 | 1,375 | 344 | 344 | 344 |
| 22002 | 14 Mile Transmission Main Loop | 58 | 11 | 2.8 | 3.2 | - | 751 | 4,315 | 1,507 | 13,400 | 12,000 | 13,769 | 11,606 | Accelerated project needed to resolve reliability issues |
| 22004 | Downline Transmission Main Loop | 58 | 12 | 2.8 | 3.2 | - | 267 | 844 | 3,051 | 10,763 | 12,102 | - | - | Accelerated project needed to resolve reliability issues |



Questions & Answers From CIP Preliminary Draft 1

CIP Delivery & Spend Rate Assumption

- 1) Concern about ability to deliver projects identified
 - Responses
 - Capital Program Management in 2019
 - Newly dedicated CIP Director
- 2) Ensure alignment with CIP spend rate assumption
 - Responses
 - Both want delivery and execution of the CIP
 - Timing issue related to the transaction being completed and when the CIP was compiled

Questions & Answers From CIP Preliminary Draft 1

Project Information

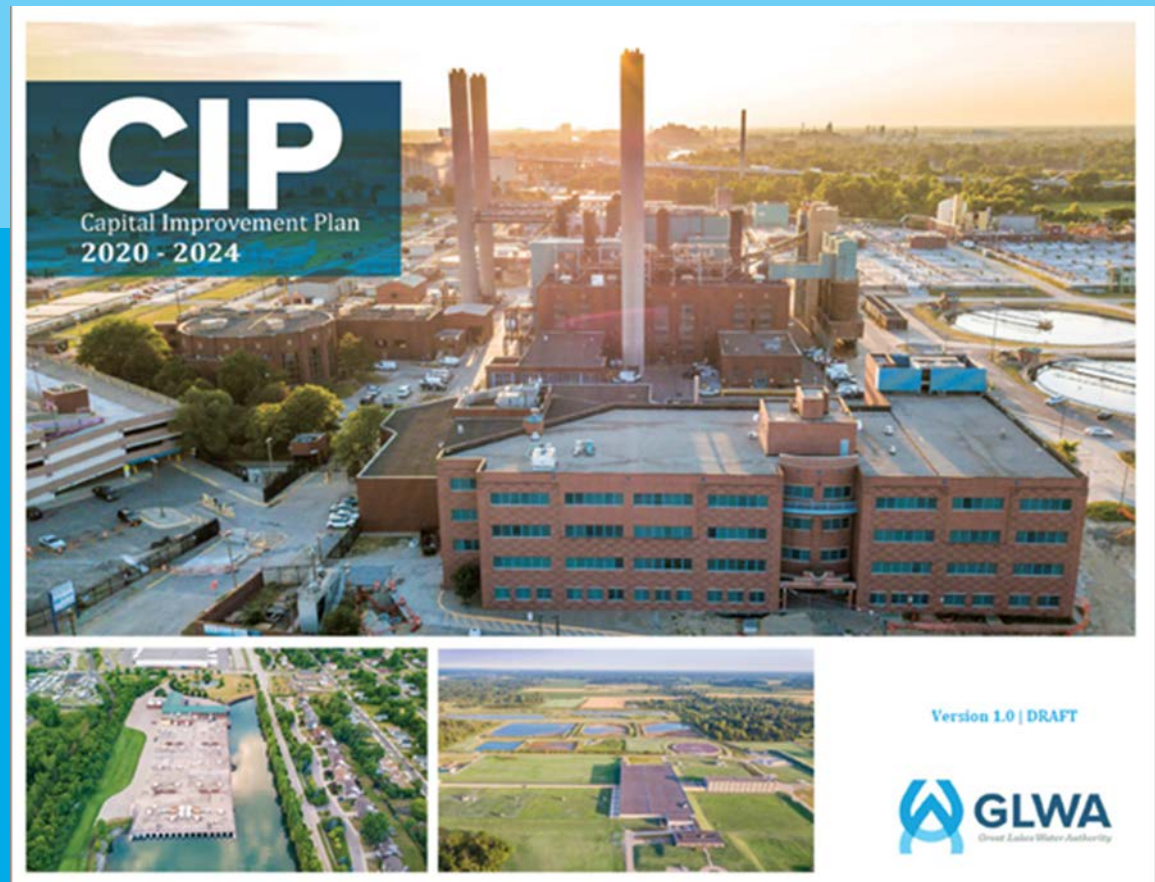
1) Condition Assessment informing CIP Business Cases

- Response
 - Where feasible we strive to have condition assessments to inform BCE's, but difficult due to number of assets and long-term horizon of CIP

2) BCE versus RFP scope differences

- Responses:
 - There will be differences – RFP's are based upon the latest and more detailed information/evaluation
 - BCE's are now being updated annually to minimize these differences

CIP Changes Since Preliminary Draft 1



CIP Changes Since Preliminary Draft 1 (Continued)

2020-2024 CIP Preliminary Draft 2 – Modifications Made

- Identified projects as “New to the FY2020 CIP” with a checkbox for the ease of the reader. The Phase Status of these projects has been changed to either “Active” or “Future Planned”
- Updated the Life-To-Date project information as of June 30, 2018 that became available since the first preliminary draft
- Minor modifications to Phase Status, Task Schedules and general BCE information as identified in an internal quality control and assurance check

CIP Changes Since Preliminary Draft 1 (Continued)

2020-2024 CIP Preliminary Draft 2 – Modifications

CIP Number: 212004

Project Title WRRF Chlorination and Dechlorination Process Equipment Improvements

Project Status Active

Class Lvl 1 Wastewater

Class Lvl 2 WRRF

Class Lvl 3 Secondary Treatment & Disinfection

Location City of Detroit

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

☐ Project New To CIP

Project Score 81.6

Project Engineer/Manager Ali Khraizat

Manager Ali Khraizat



Chlorinator/Sulfonator buildings

Project Significance The disinfection complex equipment condition has deteriorated because of the corrosive characteristics of the chemicals utilized in the operations of the area. This project is needed to restore equipment performance to OEM levels.

Scope of Work Scope of Work is to refurbish evaporators, chlorinators/sulfonators, replace regulating check valves, ejectors, process water valves, gas safety panels, compressors, gas flow meters, and all accessories and appurtenances. This proposed CIP budget is for construction only. The design and construction assistance services are budgeted through "As Needed Engineering Services Contract CS-1481, Task #23".

Challenges Chlorine and sulfur dioxide are both extremely hazardous toxic chemicals that can impact staff and the public if an uncontrolled gas release occurs. Maintaining staff safety, regulatory compliance, and meeting production requirements is a challenge.

Project Expenses Compared to Previous CIP Versions (All figures are in \$1,000's)

| CIP | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | FY22 | FY23 | FY24 | FY25 | Total |
|------|------|------|------|-------|-------|-------|------|------|------|------|-------|
| 2018 | | | 400 | 2,800 | 1,800 | | | | 0 | 0 | 5,000 |
| 2019 | 0 | 86 | | 2,101 | 2,422 | 661 | | | | 0 | 5,270 |
| 2020 | 0 | 0 | 117 | 913 | 2,345 | 1,670 | 0 | 0 | 0 | 0 | 5,045 |

CIP Changes Since Preliminary Draft 1 (Continued)

2020-2024 CIP Preliminary Draft 2 – Modifications

- Northeast Pumping Station (CIP# 232003) and North Interceptor East Arm Rehabilitation (CIP# 222003) have been accelerated. These projects will likely be financed by OMID.

2020-2024 CIP Wastewater Future Planned Project Prioritization & Projected Funding

| CIP | Title | Score | Prioritization Ranking | CoF | PoF | FY2019 | FY2020 | FY2021 | FY2022 | FY2023 | FY2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | FY 2029 | Notes |
|--------|---|-------|---------------------------|-----|-----|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---|
| 232003 | Northeast Pumping Station | 89 | 1 | 4.3 | 4.7 | 1,000 | 7,000 | 10,500 | 10,500 | 2,500 | - | - | - | - | - | - | Project has been Accelerated in Preliminary Draft 2 |
| 222003 | North Interceptor East Arm (NIEA) Evaluation and Rehabilitation | 65 | 8 | 3.2 | 3.4 | 500 | 15,000 | 14,500 | - | - | - | - | - | - | - | - | Project has been Accelerated in Preliminary Draft 2 |

2020-2024 CIP Preliminary Draft 2 – Modifications

- [illegible]



CIP Changes Since Preliminary Draft 1 (Continued)

2020-2024 CIP Preliminary Draft 2 – Modifications

Modifications to Tables VI-1 – 3 (Water), VI-7-10 (Wastewater)

- Grouped and sorted differently to assist the reader
- “Closed”, “Cancelled” and “Reclassified” Projects
 - Removed from the tables. Remain in the Chapter VII, Project Descriptions and within the Appendices.
- “Future Planned” and “Active” Projects
 - “Active” projects are sorted (highest – lowest) by 2020-2024 5-year projected expenses
 - “Future Planned” projects are sorted by overall priority

CIP Changes Since Preliminary Draft 1 (Continued)

2020-2024 CIP Preliminary Draft 2 – Modifications

Table VI-1. Water CIP Projects: Active, Ranked by 2020-2024 CIP Total

| CIP # | Title | Project Status | Year Added | Lifetime Actual Thru FY 2018 (unaudited) | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 & Beyond | 2020-2024 CIP Total | Project Total | Percent of W/S CIP |
|--------|--|----------------|------------|--|---------|---------|---------|---------|---------|---------|------------------|---------------------|---------------|--------------------|
| 122003 | WWP to NE Transmission Main | A | 2014 | 1,655 | 1,121 | 871 | 15,786 | 24,115 | 29,615 | 29,994 | 30,115 | 100,381 | 133,272 | 11.8% |
| 122004 | 96-inch Main Relocation, Isolation Valves Installations, and New Parallel Main | A | 2016 | 1,130 | 837 | 5,000 | 6,000 | 26,453 | 35,886 | 23,453 | 33,907 | 96,792 | 132,666 | 11.4% |
| 114002 | Springwells Water Treatment Plant, Low-Lift and High-Lift Pumping Station Improvements | A | 2004 | 498 | 2,607 | 5,985 | 9,302 | 13,724 | 13,724 | 26,145 | 42,831 | 68,880 | 114,816 | 8.1% |
| 115001 | Water Works Park Water Treatment Plant Yard Piping, Valves and Venturi Meters Replacement | A | 2007 | 682 | 899 | 17,333 | 17,333 | 17,333 | - | - | - | 51,999 | 53,580 | 6.1% |
| 122006 | Wick Road Water Transmission Main Construction | A | 2016 | 126 | 1,370 | 18,028 | 12,334 | 60 | - | - | - | 30,422 | 31,918 | 3.6% |
| 111009 | Lake Huron Water Treatment Plant, Two New High-Lift Pumps, Water Production Flow Meter, and Select Yard Piping Improvements | A | 2018 | - | 16 | 9,030 | 10,030 | 7,030 | - | - | - | 26,090 | 26,106 | 3.1% |
| 170800 | System-Wide Finished Water Reservoir Inspection, Design and Rehabilitation | A | 2016 | - | 482 | 5,128 | 5,211 | 5,182 | 3,888 | 5,495 | 33,778 | 24,904 | 59,164 | 2.9% |
| 114011 | Springwells Water Treatment Plant Steam, Condensate Return, and Compressed Air Piping Improvements | A | 2012 | 473 | 3,109 | 5,392 | 7,754 | 8,261 | - | - | - | 21,407 | 24,989 | 2.5% |
| 170600 | Water Transmission Main Asset Assessment Program | A | 2017 | - | 2,500 | 3,000 | 4,000 | 4,000 | 5,000 | 5,000 | 25,000 | 21,000 | 48,500 | 2.5% |
| | Pennsylvania, Springwells and Northeast Raw Water Supply | | | | | | | | | | | | | |

CIP Changes Since Preliminary Draft 1 (Continued)

2020-2024 CIP Preliminary Draft 2 – Modifications

Table VI-2. Water CIP Projects: Pending Closeout, Ranked by Total Cost

| CIP # | Title | Project Status | Year Added | Lifetime Actual Thru FY 2018 (unaudited) | Projected Expenditures | | | | | | | | 2020-2024 CIP Total | Project Total | Percent of W/S CIP |
|---------------------------------------|---|----------------|------------|--|------------------------|---------|---------|---------|---------|---------|---------------------|---|------------------------|---------------|-----------------------|
| | | | | | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 & Beyond | | | | |
| 122001 | Parallel 42-Inch Main in 24 Mile Road from Rochester Station to Romeo Plank Road | PC | 2005 | 33,566 | - | - | - | - | - | - | - | 0 | 33,566 | 0.0% | |
| 122012 | 36-inch Water Main in Telegraph Road | PC | 2012 | 9,418 | 155 | - | - | - | - | - | - | 0 | 9,573 | 0.0% | |
| 122002 | Replacement of Five (5) PRV Pits of Treated Water Transmission System | PC | 2010 | 1,844 | 804 | - | - | - | - | - | - | 0 | 2,648 | 0.0% | |
| 114009 | SPW WTP Service Area Redundancy Study | PC | 2014 | 311 | - | - | - | - | - | - | - | 0 | 311 | 0.0% | |
| 132004 | North Service Center Pumping Station - Hydraulic Surge Control | PC | 2014 | 215 | - | - | - | - | - | - | - | 0 | 215 | 0.0% | |
| 132001 | Wick Road Booster Pumping Station Rehabilitation | PC | 2004 | 130 | 35 | - | - | - | - | - | - | 0 | 165 | 0.0% | |
| 122009 | Water System Improvements in Joy Road from Southfield Road to Trinity | PC | 2014 | 107 | - | - | - | - | - | - | - | 0 | 107 | 0.0% | |
| 116003 | Genesee and Lapeer County Transmission System Improvements | PC | 2016 | - | - | - | - | - | - | - | - | 0 | 0 | 0.0% | |
| 122010 | Water Main Replacement within the City of Detroit - Joy Rd from Greenfield to Schaefer and Davison Ave from Lindwood to Livernois | PC | 2014 | - | - | - | - | - | - | - | - | 0 | 0 | 0.0% | |
| 380500 | Wastewater General Engineering Services on an As-needed Basis | PC | 2004 | - | - | - | - | - | - | - | - | 0 | 0 | 0.0% | |
| 380800 | Geotechnical and Related Services on an As-Needed Basis | PC | 2007 | - | - | - | - | - | - | - | - | 0 | 0 | 0.0% | |
| Pending Closeout Water Projects Total | | | | 45,591 | 994 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46,585 | 0.0% | |

CIP Changes Since Preliminary Draft 1 (Continued)

2020-2024 CIP Preliminary Draft 2 – Modifications

Table VI-3. Water CIP Projects: Future Planned, Ranked by Prioritization Score

| CIP # | Title | Project Status | Year Added | Lifetime Actual Thru FY 2018 (unaudited) | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 & Beyond | 2020-2024 CIP Total | Project Total | Percent of W/S CIP | Prioritization Score (RC) |
|---------------|--|----------------|------------|--|---------|---------|---------|---------|---------|---------|------------------|---------------------|---------------|--------------------|---------------------------|
| 111001 | Lake Huron Water Treatment Plant, Low-Lift, High Lift and Filter Backwash Pumping System Improvements | FP | 2010 | - | - | 401 | 1,611 | 3,169 | 4,450 | 10,000 | 32,757 | 19,631 | 52,388 | 2.3% | 71.6 |
| 113003 | Southwest Water Treatment Plant, Low- and High-Lift Pumping Station, Flocculation and Filtration System Improvements | FP | 2014 | - | - | - | - | - | - | - | 148,286 | 0 | 148,286 | 0.0% | 67.6 |
| 132025 | Northwest Booster Station Yard Piping Improvements | FP | 2020 | - | - | - | 50 | 1,700 | 3,750 | - | - | 5,500 | 5,500 | 0.6% | 63.6 |
| 114010 | Springwells Water Treatment Plant, Yard Piping and High-Lift Header Improvements | FP | 2012 | - | - | - | - | - | - | 72 | 110,578 | 72 | 110,650 | 0.0% | 62.2 |
| 132012 | Ypsilanti Booster Pumping Station Improvements | FP | 2017 | 4 | 28 | 585 | 865 | 2,855 | 4,205 | 1,319 | - | 9,829 | 9,861 | 1.2% | 61.2 |
| 112005 | Northeast Water Treatment Plant - Replacement of Covers for Process Water Conduits | FP | 2018 | - | - | 166 | 647 | - | - | - | - | 813 | 813 | 0.1% | 61.0 |
| 331001 | Roofing Systems Replacement at Water Plants and Booster Pump Stations | FP | 2014 | - | - | - | 225 | 375 | 1,625 | 1,825 | 1,375 | 4,050 | 5,425 | 0.5% | 61.0 |
| 122016 | Downriver Transmission Main Loop | FP | 2017 | - | - | 297 | 964 | 3,051 | 10,763 | 22,122 | - | 37,197 | 37,197 | 4.4% | 58.4 |
| 122013 | 14 Mile Transmission Main Loop | FP | 2017 | - | - | 751 | 1,315 | 1,507 | 13,420 | 12,000 | 25,433 | 28,993 | 54,426 | 3.4% | 58.4 |
| 132016 | North Service Center Pumping Station Improvements | FP | 2017 | - | - | - | - | - | 6 | 6,325 | 18,589 | 6,331 | 24,920 | 0.7% | 58.2 |
| 132021 | Imlay Booster Pumping Station - Replace Pumps, Motors, VFDs, and HVAC System | FP | 2018 | - | - | - | - | - | 6 | 2,103 | 10,000 | 2,109 | 12,109 | 0.2% | 58.2 |
| 132017 | North Service Center Booster Pump Station - On-Site & Off-Site | FP | 2018 | - | - | 6 | 2,300 | 2,506 | 264 | - | - | 5,076 | 5,076 | 0.6% | 57.8 |

CIP Changes Since Preliminary Draft 1 (Continued)

2020-2024 CIP Preliminary Draft 2 – Modifications

Table VI-4. Water CIP Projects: Totals

| Totals | Lifetime Actual Thru FY 2018 (unaudited) | Projected Expenditures | | | | | | | 2020-2024 CIP Total | Project Total | Percent of W/S CIP |
|---------------------------------------|--|------------------------|----------------|----------------|----------------|----------------|----------------|---------------------|------------------------|------------------|-----------------------|
| | | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 & Beyond | | | |
| Active Water Projects Total | 123,888 | 67,724 | 137,159 | 143,855 | 140,561 | 108,332 | 105,392 | 313,131 | 635,299 | 1,140,042 | 74.5% |
| Pending Closeout Water Projects Total | 45,591 | 994 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46,585 | 0.0% |
| Future Planned Water Projects Total | 4 | 28 | 6,088 | 22,744 | 42,034 | 60,674 | 85,474 | 484,991 | 217,014 | 702,037 | 25.5% |
| Water Projects Total | 169,483 | 68,746 | 143,247 | 166,599 | 182,595 | 169,006 | 190,866 | 798,122 | 852,313 | 1,888,664 | 100.0% |

WATER Changes Between Version 1 & Version 2

WATER: 2020-2024 CIP Summary Table

\$1,000's

| WATER | Lifetime Actual Through FY18 | FY19 | FY20 | FY21 | FY22 | FY23 | FY24 | FY25+ | 2020 - 2024 CIP Total | Project Total |
|-----------------------------------|------------------------------------|--------|---------|---------|---------|---------|---------|---------|-----------------------------|------------------|
| 2020 Preliminary Draft 1 | 192,432 | 68,746 | 143,247 | 166,599 | 182,595 | 169,006 | 190,866 | 798,122 | 852,313 | 1,911,613 |
| 2020 Preliminary Draft 2 | 169,483 | 68,746 | 143,247 | 166,599 | 182,595 | 169,006 | 190,866 | 798,122 | 852,313 | 1,888,664 |
| Draft 1 to Draft 2 Change: | (22,949) | - | - | - | - | - | - | - | - | (22,949) |

- Lifetime Actuals Through Fiscal Year 2018 have been updated
- Reduced primarily due to removing the “Closed” projects from the summary

WASTEWATER Changes Between Version 1 & Version 2

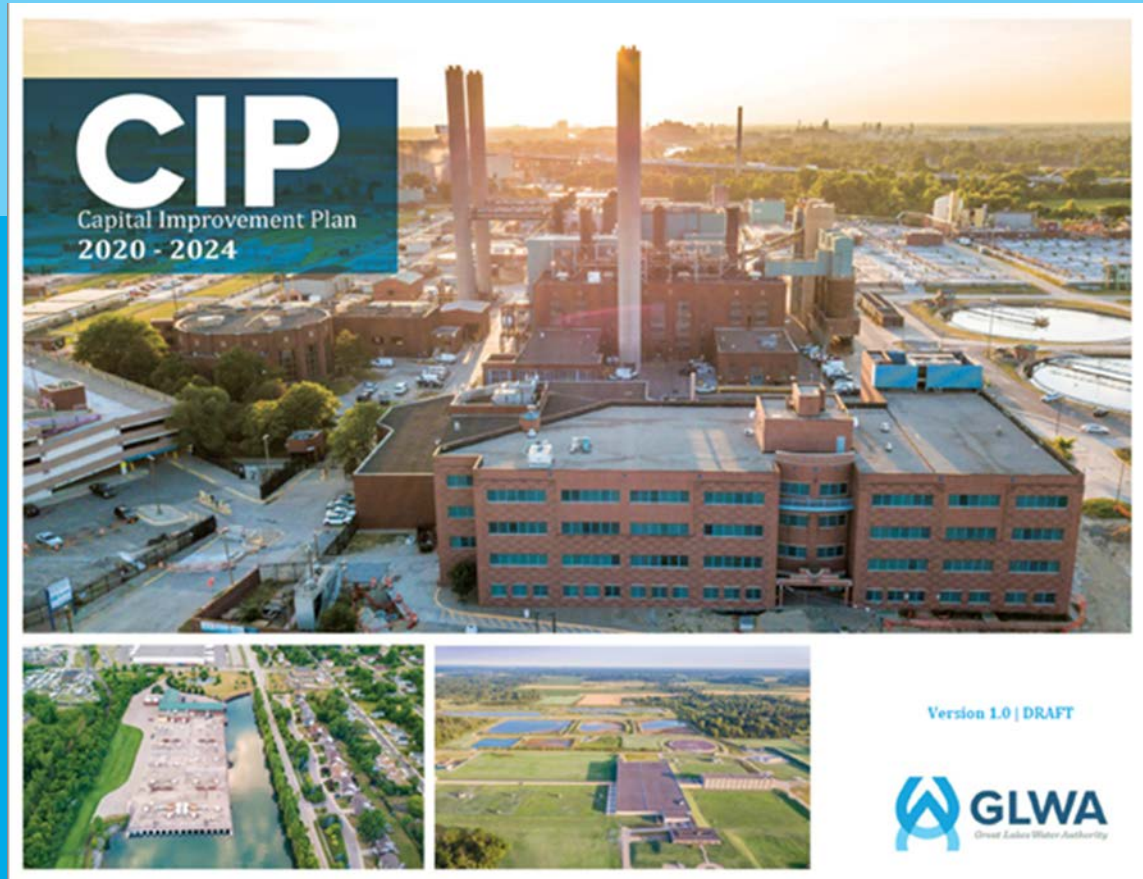
WASTEWATER: 2020-2024 CIP Summary Table

\$1,000's

| WASTEWATER | Lifetime Actual Through FY18 | FY19 | FY20 | FY21 | FY22 | FY23 | FY24 | FY25+ | 2020 - 2024 CIP Total | Project Total |
|-----------------------------------|------------------------------|--------------|---------------|---------------|---------------|--------------|----------|-----------------|-----------------------|------------------|
| 2020 Preliminary Draft 1 | 295,216 | 104,931 | 139,480 | 107,430 | 139,677 | 156,884 | 130,159 | 321,843 | 673,630 | 1,395,620 |
| 2020 Preliminary Draft 2 | 137,135 | 106,409 | 161,480 | 132,430 | 150,177 | 159,384 | 130,159 | 269,515 | 733,630 | 1,246,689 |
| Draft 1 to Draft 2 Change: | (158,081) | 1,478 | 22,000 | 25,000 | 10,500 | 2,500 | - | (52,328) | 60,000 | (148,931) |

- Lifetime Actuals Through Fiscal Year 2018 have been updated
- Reduced primarily due to removing the “Closed” projects from the summary
- FY19-23 Increases (and FY2025+ decreases) due to the acceleration of the Northeast Pump Station and the North Interceptor East Arm rehabilitation projects

Next Steps



Next Steps

Comments and questions are accepted throughout the remainder of this process. All feedback, comments and suggestions are welcomed!

FY2020 - 2024 CIP SCHEDULE (Revised 12/13/18)

| Completed | Date | Meeting Type | Notes |
|-----------|------------|---|---|
| ✓ | 8/20/2018 | NA | Distribute & Train Business Case Evaluation Database |
| ✓ | 9/26/2018 | NA | BCE's Due |
| ✓ | 10/1/2018 | Water Review Committee Meeting | Review existing project priorities, identify new project priorities and potentially adjust schedules for projects in order to align with overall CIP projected expenditures previously approved |
| ✓ | 10/3/2018 | Wastewater Review Committee Meeting | |
| ✓ | 10/18/2018 | Executive Leadership Team review of BCEs and Modifications to CIP | Review of New BCEs & CIP Modifications |
| ✓ | 10/25/2018 | Charges Roll-Out Mtg #1 - CIP @ AM/CIP Work Group | 1st Member Partner Review of CIP - Preliminary Draft 1 |
| ✓ | 10/29/2018 | GLWA CIP Committee | 1st CIP Committee Review of CIP - Preliminary Draft 1 |
| ✓ | 11/19/2018 | NA | Member Partner & Board Comments Due |
| ✓ | 11/30/2018 | GLWA CIP Committee | CIP Planned Modifications for Preliminary Draft 2 |
| ✓ | 12/18/2018 | AM/CIP Committee Work Group Meeting | 2nd Member Partner Review of CIP Preliminary Draft 2 |
| ✓ | 12/18/2018 | GLWA CIP Committee | 2nd CIP Committee Review of CIP Preliminary Draft 2 |
| | 1/23/2019 | GLWA Board | 1st CIP Presentation of CIP Preliminary Draft 2 |
| | Feb-19 | GLWA CIP Committee | 3rd CIP Committee - Deliberations of CIP |
| | Feb-19 | GLWA CIP Committee | 4th CIP Committee - Deliberations of CIP |

Questions





GLWA

Great Lakes Water Authority

Have a Great Day!