



CONSOLIDATED COMMISSION ON UTILITIES

Guam Power Authority | Guam Waterworks Authority
P.O. Box 2977 Hagåtña, Guam 96932 | (671) 648-3002 | guamccu.org

GUAM WATERWORKS AUTHORITY WORK SESSION

CCU Conference Room

8:30 a.m., Tuesday, February 20, 2024

AGENDA

1. **CALL TO ORDER**
2. **GWA ISSUES FOR DECISION**
 - 2.1 [Resolution No. 10-FY2024 – Relative to Approval of Design-Build of GWA Upper Tumon Campus Improvements](#)
 - 2.2 [Resolution No. 11-FY2024 – Relative to Approval of the FY2025-FY2029 5-Year Financial Plan and CIP](#)
3. **[GWA GM REPORT](#)**
 - 3.1 [Administration](#)
 - 3.2 **Compliance**
 - 3.3 [Engineering / Capital Improvement Program](#)
 - 3.4 [Financial](#)
 - 3.5 [Operations](#)
 - 3.6 **Other**
4. **OTHER DISCUSSION**
 - 4.1 **2022 Market Update and Strategic Pay Scale**
5. **ANNOUNCEMENTS**
 - 5.1 **Next CCU Meetings:** February 22, 2024 - GPA WS at 8:30 a.m.
February 27, 2024 – CCU Regular Board Meeting at 5:30 p.m.
6. **ADJOURNMENT**



GUAM WATERWORKS AUTHORITY

“Better Water, Better Lives.”

Gloria B. Nelson Public Service Building | 688 Route 15 | Mangilao, Guam 96913

Tel: (671) 300-6846/7

ISSUES FOR DECISION

Resolution 10-FY2024

Relative to Approval to Procure Design-Build of Upper Tumon Campus Improvements

What is the projects’ objective and is it necessary and urgent?

GWA Upper Tumon Campus Improvements project is needed to make necessary repairs, rehabilitation and renovations of the Customer Service Center, Compliance Laboratory, Warehouse and Meter Testing Facility which will be implemented in two phases. Phase I is comprised of Warehouse Rehabilitation and Meter Testing Facility Repair and Phase II includes the Customer Service Center Renovation and replacement of essential laboratory equipment.

The Upper Tumon Warehouse was constructed in 1993. Normal wear in Guam’s tropical environment over the span of 30 years contributed to deterioration of roofing and other structural components. In May 2023, Typhoon Mawar caused additional damage to the Warehouse and Meter Testing Facility affecting the integrity of stored materials and the safety for occupants of both buildings.

The existing Customer Service Center that houses both GWA and GPA personnel, has not seen significant renovation or rehabilitation for many years, and renovations are necessary to improve customer experience, working conditions for utility personnel, and to meet current requirements of the building code, fire/safety code, and other relevant code standards. The GWA Compliance Laboratory has three laboratories served by a special laboratory ventilation and exhaust systems, components of which are beyond their useful life or no longer meet current standards. Replacement of equipment in the laboratory is necessary to meet acceptable indoor air quality requirements and ensure continued operation of the laboratory.

The objective of this project is to procure the design-build renovation/rehabilitation and repair of these facilities in the following phases:

1. Phase I - Upper Tumon Warehouse and Meter Testing Facility
2. Phase II – Upper Tumon Customer Service Center and Laboratory Equipment Replacement

Where is the project located?

Both Phase I and Phase II projects are located in Upper Tumon.

How much will it cost?

Phase I is estimated to cost \$3,167,500.00

Phase II is estimated to cost \$5,080,900.00

Total estimated cost for Phase I and Phase II is \$8,248,400.00.

When will it be completed?

Phase I and Phase II will be advertised as separate projects. Phase I is expected to take up to three years to complete; Phase II will require up to four years to complete.

What is the funding source?

GWA intends to use multiple sources including bonds funds, Internal Funded Capital Improvement Project (revenue) funding, FEMA Public Assistance Program funding, GWA Property Insurance Claims



CONSOLIDATED COMMISSION ON UTILITIES
Guam Power Authority | Guam Waterworks Authority
P.O. Box 2977 Hagatna, Guam 96932 | (671)649-3002 | guamccu.org

GWA RESOLUTION NO. 10-FY2024

**RELATIVE TO REQUESTING APPROVAL TO PROCURE DESIGN-BUILD OF GWA
UPPER TUMON CAMPUS IMPROVEMENTS**

WHEREAS, under 12 G.C.A. § 14105, the Consolidated Commission on Utilities (“CCU”) has plenary authority over financial, contractual, and policy matters relative to the Guam Waterworks Authority (“GWA”); and

WHEREAS, the Guam Waterworks Authority (“GWA”) is a Guam Public Corporation established and existing under the laws of Guam; and

WHEREAS, GWA will be utilizing the Design-Build project delivery method for the GWA Upper Tumon Campus Improvements project to make necessary repairs, rehabilitation and renovations of the Customer Service Center, Compliance Laboratory, Warehouse and Meter Testing Facility; and

WHEREAS, the GWA Upper Tumon Campus Improvements project will be implemented in two phases: Phase I (Warehouse Rehabilitation and Meter Testing Facility Repair) and Phase II (Customer Service Center Renovation and Laboratory Equipment Replacement); and

WHEREAS, the existing Upper Tumon Warehouse was originally constructed in 1993 to store and manage the inventory of equipment and spare parts needed for immediate repairs to maintain the water and wastewater assets in good working condition; and.

WHEREAS, the normal wear in Guam’s tropical conditions over the span of 30 years contributed to deterioration of metal roofing, gutters, z-purlins and other structural members of the warehouse resulting in rain water leaking through the damaged roof. In addition, Typhoon Mawar caused further extensive damage to the warehouse and the adjacent Meter Testing

1 Facility in May 2023, damaging the existing roof, offices, some stored parts and equipment (see
2 Exhibits A and B); and

3
4 **WHEREAS**, the extensive damage to Upper Tumon Warehouse and Meter Testing
5 Facility have affected the integrity of stored materials and the safety for occupants of both
6 buildings. GWA staff at the Upper Tumon Warehouse and the Asset Management office on the
7 second floor of Meter Testing Facility have been temporarily relocated to the Upper Tumon
8 Customer Service Center or the GBN Public Service Building in Mangilao; and

9
10 **WHEREAS**, the rehabilitation of the Upper Tumon Warehouse and the repair of Meter
11 Testing Facility are necessary and urgent to make the facility safe for GWA employees and
12 visitors, and to properly protect and maintain the inventory of spare parts while in storage; and

13
14 **WHEREAS**, in Resolution No. 2009-16 (Exhibit C), the CCU directed GPA and GWA
15 to explore opportunities for the Upper Tumon Customer Service Center wherein services
16 provided to customers may be improved by combining resources of the two utilities; and

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18 **WHEREAS**, the renovation of existing Customer Service Center, currently housing both
19 GWA and GPA customer service, is necessary to improve general comfort and convenience for
20 customers and staff, and to meet current requirements of the building code, fire/safety code, and
21 other relevant codes and standards; and

22
23 **WHEREAS**, the GWA Compliance Laboratory facility has three (3) laboratories served
24 by a special laboratory ventilation and exhaust systems, components of which are beyond their
25 useful life or no longer meet current standards; and

26
27 **WHEREAS**, based on a condition report prepared by an engineering firm (see Exhibit
28 D), a replacement of the existing ventilation equipment with new Dedicated Outside Air Units
29 (DOAUs) is necessary to meet acceptable indoor air quality requirements per national standards
30 and ensure continued operation of the laboratory; and

31 //

1 **WHEREAS**, the recommended Scope of Work includes design analysis, environmental
2 clearance technical support, detailed engineering drawings, specifications, all regulatory
3 approval and permits, and construction including labor, tools, equipment and materials; and
4

5 **WHEREAS**, GWA management seeks CCU approval to procure a competitive design-
6 build contract among experienced and qualified companies for the Design-Build of Upper
7 Tumon Campus Improvements Phase I (Upper Tumon Warehouse Rehabilitation and Meter
8 Testing Facility Repair) and Phase II (Customer Service Center Renovation and Laboratory
9 Equipment Replacement); and
10

11 **WHEREAS**, funding in the amount of Three Million One Hundred Sixty-Seven
12 Thousand Five Hundred Dollars (\$3,167,500.00) for Phase I and Five Million Eighty Thousand
13 Nine Hundred Dollars (\$5,080,900.00) for Phase II, for a total funding amount to Eight Million
14 Two Hundred Forty-Eight Thousand Four Hundred Dollars (\$8,248,400.00), is available
15 through GWA bonds funds, Internally Funded Capital Improvement Project (revenue) funding,
16 GWA Property Insurance Claims and reimbursement through FEMA Public Assistance Program
17 funding as applicable; and
18

19 **WHEREAS**, GWA management further seeks CCU authorization to submit a petition to
20 the PUC for approval under the PUC contract review protocol.
21

22 **NOW BE IT THEREFORE RESOLVED**; the Consolidated Commission on Utilities
23 does hereby approve the following:

- 24 1. The recitals set forth above hereby constitute the findings of the CCU.
- 25 2. The CCU finds that solicitation of bids for Design-Build of GWA Upper
26 Tumon Campus Improvements is necessary to ensure public safety, equipment
27 protection, continued operations and improve customer service (Exhibits A, B,
28 and D).
- 29 3. The CCU hereby authorizes the amount for Design-Build of GWA Upper
30 Tumon Campus Improvements Phase I (Warehouse Rehabilitation and Meter
31 Testing Facility Repair) and Phase II (Customer Service Center Renovation

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and Laboratory Equipment Replacement) of Eight Million Two Hundred Forty-Eight Thousand Four Hundred Dollars (\$8,248,400.00).

- 4. The CCU hereby further authorizes the management of GWA to fund the Design-Build project delivery of GWA Upper Tumon Campus Improvements through GWA bonds funds, Internally Funded Capital Improvement Project (revenue) funding, FEMA Public Assistance Program, GWA Property Insurance Claims as applicable and other appropriate funding sources.
- 5. The CCU hereby further authorizes GWA management to petition the PUC for approval of the procurement of Design-Build of GWA Upper Tumon Campus Improvements.

RESOLVED, that the Chairman certified, and the Board Secretary attests to the adoption of this Resolution.

DULY AND REGULARLY ADOPTED, this 27th day of February 2024.

Certified by:

Attested by:

JOSEPH T. DUENAS

PEDRO ROY MARTINEZ

Chairperson

Secretary

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SECRETARY'S CERTIFICATE

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I, Pedro Roy Martinez, Board Secretary of the Consolidated Commission on Utilities as evidenced by my signature above do hereby certify as follows:

The foregoing is a full, true, and accurate copy of the resolution duly adopted at a regular meeting by the members of the Guam Consolidated Commission on Utilities, duly and legally held at a place properly noticed and advertised at which meeting a quorum was present and the members who were present voted as follows:

AYES:	_____
NAYS:	_____
ABSENT:	_____
ABSTAIN:	_____

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EXHIBIT A1
UPPER TUMON WAREHOUSE
TYPHOON DAMAGES

DAMAGE ASSESSMENT/PROJECT WORKSHEET

DATE: 06/02/2023

APPLICANT AGENCY: Guam Waterworks Authority

DAMAGED FACILITY: UPPER TUMON WAREHOUSE FACILITY

LOCATION: UPPER TUMON, GUAM

CATEGORY OF WORK: A, B, C, D, E, **F**, G (circle one)

INITIAL ASSESSMENT OF DAMAGE (DESCRIPTION AND DIMENSIONS):

1. APPROXIMATELY 4,469 SQUARE FEET OF BUTLERIB ROOFING WAS RIPPED OFF REQUIRING REPLACEMENT OF ROOF PANELS AND INSULATION.
2. ROOF FLASHING AND ROOF GUTTER WERE RIPPED OFF.
3. THE ENTIRE ACOUSTIC CEILING TILES AT THE SECOND FLOOR NEED REPLACEMENT. MANY TILES DROPPED DOWN TO THE FLOOR AND DAMAGED, THOSE THAT REMAINED IN THE CEILING WERE ALSO WATER DAMAGED.
4. REMOVAL AND REPLACEMENT OF WATER DAMAGED GYPSUM BOARD WALLS INCLUDING DOORS AND WINDOWS BOTH AT GROUND FLOOR AND MEZZANINE FLOOR.
5. REPAINTING OF NEW GYPSUM BOARD WALLS AND DOORS AT GROUND FLOOR AND MEZZANINE FLOOR.
6. REMOVAL AND REPLACEMENT OF WATER DAMAGED GYPSUM BOARD WALLS INCLUDING DOORS AND WINDOWS, ROOF, AND CEILING AT GROUND FLOOR STORE KEEPER OFFICE.
7. REPAINTING OF NEW GYPSUM BOARD WALLS AND DOORS, CEILING AT GROUND FLOOR STORE KEEPER'S OFFICE.
8. REMOVE AND REPLACE WATER DAMAGED LIGHTING FIXTURES AND WIRING (INTERIOR AND EXTERIOR OF WAREHOUSE)
9. REMOVE AND REPLACEMENT OF ROLL-UP DOORS INCLUDING MOTORS.
10. REPLACEMENT OF ASSORTED SHELVES AND CONTAINMENT PALLETS

INTERIOR/EQUIPMENT DAMAGE:

SCOPE OF WORK:

1. REMOVE DAMAGED BUTLERIB ROOF PANELS UP TO THE RIDGE INCLUDING INSULATION.
2. REPLACE DAMAGED BUTLERIB ROOFING PANELS UP TO THE RIDGE INCLUDING INSULATION.
3. REMOVE AND REPLACE ROOF FLASHING
4. REMOVE AND REPLACE ROOF GUTTER
5. REMOVAL AND DISPOSAL OD DAMAGED ACOUSTIC CEILING
6. REPLACE/INSTALL NEW ACOUSTIC CEILING TILES (GROUND AND Mezzanine FLOORS)
7. REMOVE AND REPLACED WATER DAMAGED GYPSUM BOARDS, DOORS, AND WINDOWS AT GROUND FLOOR AND MEZZANINE FLOOR.
8. REPAINTING OF GYPSUM BOARDS, DOORS, AND WINDOWS AT GROUND FLOOR AND MEZZANINE FLOOR.
9. REMOVE AND REPLACED WATER DAMAGED GYPSUM BOARDS, DOORS, AND WINDOWS, ROOF AND CEILING AT GROUND FLOOR STORE KEEPER OFFICE.
10. REPAINTING OF GYPSUM BOARDS, DOORS, AND CEILING AT STORE KEEPER OFFICE GROUND FLOOR.
11. REMOVE AND REPLACE WATER DAMAGED LIGHTING FIXTURES AND WIRING (INTERIOR AND EXTERIOR OF WAREHOUSE)
12. REMOVE AND REPLACE STEEL ROLL-UP DOORS INCLUDING MOTORS
13. REPLACEMENT OF ASSORTED SHELVES AND CONTAINMENT PALLETS DAMAGED BY WATER.

ESTIMATED PROJECT COST: \$438,998.00

ITEM	NARRATIVE	QUANTITY/UNIT	UNIT PRICE	COST
1.	LABOR, MATERIAL, & EQUIPMENT	1 LS	\$67,035.00	\$67,035.00
2.	LABOR, MATERIAL, & EQUIPMENT	1 LS	\$111,725.00	\$111,725.00
3.	LABOR AND MATERIAL	1 LS	\$560.00	\$560.00
4.	LABOR AND MATERIAL	1 LS	\$600.00	\$600.00
5.	LABOR AND MATERIAL	1 LS	\$1,000.00	\$1,000.00
6.	LABOR AND MATERIAL	1 LS	\$41,118.00	\$41,118.00
7.	LABOR AND MATERIAL	1 LS	\$59,000.00	\$59,000.00
8.	LABOR AND MATERIAL	1 LS	\$22,500.00	\$22,500.00
9.	LABOR AND MATERIAL	1 LS	\$22,444.00	\$22,444.00
10.	LABOR AND MATERIAL	1 LS	\$8,310.00	\$8,310.00
11.	LABOR AND MATERIAL	1 LS	\$45,000.00	\$45,000.00
12.	LABOR AND MATERIAL	1 LS	\$16,500.00	\$16,500.00
13.	LABOR AND MATERIAL	1 LS	\$43,206.00	\$43,206.00

TOTAL ESTIMATED PROJECT COSTS \$438,998

DOES THE SCOPE OF WORK CHANGE THE PRE-DISASTER CONDITIONS AT THE SITE?

YES NO

SPECIAL CONSIDERATIONS ISSUES INCLUDED? YES NO

HAZARD MITIGATION PROPOSAL INCLUDED? YES NO

IS THERE INSURANCE COVERAGE ON THIS FACILITY? YES NO

PREPARED BY: ERNESTO VILLARIN

Agency Point of Contact (POC)

TITLE: SENIOR ENGINEER

BUSINESS ADDRESS: GLORIA B. NELSON BUILDING, 688 ROUTE 15, MANGILAO

BUSINESS TELEPHONE: 671-300-6063

ALTERNATE POC: _____

BUSINESS TELEPHONE: _____

VERIFIED BY: _____ DATE: _____

FEMA Inspector

ATTACHMENTS:

- Photos or Videos
- Site Plan
- Agency Specific Forms or Worksheets



ROOF TOP VIEW – GWA UPPER TUMON WAREHOUSE



ITEMS 1 & 1A- DAMAGED ROOFING BACKSIDE



ITEMS 2, 3 & 4– DAMAGED ROOFING AND FLASHING
(RIGHT SIDE OF WAREHOUSE)



ITEM 5 – DAMAGED ROOF
GUTTER
(FRONT OF WAREHOUSE)



ITEM 6 – DAMAGED ROOF RIDGE



ITEM 7 & 7A – DAMAGED ROOFING NEAR THE RIDGE OF THE WAREHOUSE



**ITEM 8 – DAMAGED ACOUSTIC CEILING AND WATER
DAMAGED GYPSUM BOARD WALL
WAREHOUSE MEZZANINE FLOOR**



**ITEM 8 – DAMAGE AT
GROUND FLOOR OFFICE
(ACOUSTIC CEILING TILES, WATER
DAMAGED GYPSUM BOARD
WALL)**

NO POWER – INSIDE IS DARK

EXHIBIT A2
METER TESTING FACILITY
TYPHOON DAMAGES

DAMAGE ASSESSMENT/PROJECT WORKSHEET

DATE: 08/09/2023

APPLICANT AGENCY: Guam Waterworks Authority

DAMAGED FACILITY: METER TESTING FACILITY

LOCATION: UPPER TUMON, GUAM

CATEGORY OF WORK: A, B, C, D, **F**, G (circle one)

INITIAL ASSESSMENT OF DAMAGE (DESCRIPTION AND DIMENSIONS):

1. APPROXIMATELY 99 SQUARE FEET OF BUTLERIB ROOFING WAS RIPPED OFF CAUSING WIND AND WATER DAMAGE TO THE OFFICE AREA AT THE SECOND FLOOR.
2. THE ENTIRE ACOUSTIC CEILING TILES AT THE SECOND FLOOR NEED REPLACEMENT. MANY TILES DROPPED DOWN TO THE FLOOR AND DAMAGED, THOSE THAT REMAINED IN THE CEILING WERE ALSO WATER DAMAGED.
3. REMOVAL AND REPLACEMENT OF WATER DAMAGED GYPSUM BOARD WALLS INCLUDING DOORS AT SECOND FLOOR OFFICE.
4. REPAINTING OF NEW GYPSUM BOARD WALLS AND DOORS AT SECOND FLOOR.
5. REMOVAL AND REPLACEMENT OF "NEW" AIR-CONDITIONING UNITS
6. CLEANUP OF AIR INTAKE DUCTING.

INTERIOR/EQUIPMENT DAMAGE:

SCOPE OF WORK:

1. REMOVE DAMAGED BUTLERIB ROOF PANELS UP TO THE RIDGE INCLUDING INSULATION.
2. REPLACE DAMAGED BUTLERIB ROOFING UP TO THE RIDGE INCLUDING INSULATION.
3. REMOVE AND DISPOSE OF ALL ACOUSTIC CEILING TILES
4. REPLACE ALL ACOUSTIC CEILING TILES.
5. REMOVE MOLD INFESTED GYPSUM BOARD WALL
6. REMOVE AND REPLACE WOODEN DOORS
7. REPLACE GYPSUM BOARD WALL
8. REPLACE WOODEN DOORS
9. REPAINTING OF WALLS AND DOORS
10. REMOVE AND REPLACE OF "NEW" AIR-CONDITION UNITS
11. CLEAN FREE OF MOLDS THE AIR-INTAKE DUCTING

ESTIMATED PROJECT COST: \$164,622.70

ITEM	NARRATIVE	QUANTITY/UNIT	UNIT PRICE	COST
1.	LABOR, MATERIAL, & EQUIPMENT	1 LS	\$5,285.20	\$5,285.20
2.	LABOR, MATERIAL, & EQUIPMENT	1 LS	\$11,765.00	\$11,765.00
3.	LABOR AND MATERIAL	1 LS	\$3,500.00	\$3,500.00
4.	LABOR AND MATERIAL	1 LS	\$16,100.00	\$16,100.00
5.	LABOR AND MATERIAL	1 LS	\$2,500.00	\$2,500.00
6.	LABOR AND MATERIAL	1 LS	\$2,500.00	\$2,500.00
7.	LABOR AND MATERIAL	1 LS	\$96,737.50	\$96,737.50
8.	LABOR AND MATERIAL	1 LS	\$2,500.00	\$2,500.00
9.	LABOR AND MATERIAL	1 LS	\$17,985.00	\$17,985.00
10.	LABOR AND MATERIAL	1 LS	\$5,250.00	\$5,250.00
11.	LABOR AND MATERIAL	1 LS	\$500.00	\$500.00
			TOTAL	\$164,662.70

TOTAL ESTIMATED PROJECT COSTS \$164,662.70

DOES THE SCOPE OF WORK CHANGE THE PRE-DISASTER CONDITIONS AT THE SITE?

YES NO

SPECIAL CONSIDERATIONS ISSUES INCLUDED? YES NO

HAZARD MITIGATION PROPOSAL INCLUDED? YES NO

IS THERE INSURANCE COVERAGE ON THIS FACILITY? YES NO

PREPARED BY: ERNESTO VILLARIN

Agency Point of Contact (POC)

TITLE: SENIOR ENGINEER

BUSINESS ADDRESS: GLORIA B. NELSON BUILDING, 688 ROUTE 15, MANGILAO

BUSINESS TELEPHONE: 671-300-6063

ALTERNATE POC: _____

BUSINESS TELEPHONE: _____

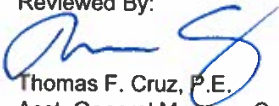
VERIFIED BY: _____ DATE: _____

FEMA Inspector

ATTACHMENTS:

- Photos or Videos
- Site Plan
- Agency Specific Forms or Worksheets

Reviewed By:



Thomas F. Cruz, P.E.
Asst. General Manager Operations



METER TESTING FACILITY TOP VIEW



**ITEMS 1 AND 2 – REMOVE AND REPLACE DAMAGED ROOFING
PANELS UP TO ROOF RIDGE**





ITEMS 3, 4, 5 AND 6 – METER TESTING FACILITY

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GUAM CONSOLIDATED COMMISSION ON UTILITIES

RESOLUTION NO. 2009-16

RELATIVE TO THE EXTENSION OF A MEMORANDUM OF UNDERSTANDING REGARDING COST SHARING BETWEEN THE GUAM WATERWORKS AUTHORITY AND THE GUAM POWER AUTHORITY

WHEREAS, the Guam Power Authority and the Guam Waterworks Authority are governed by a common board – the Consolidated Commission on Utilities; and

WHEREAS, the Consolidated Commission on Utilities has undertaken a number of initiatives to identify opportunities wherein the ratepayers of Guam may be better served if the Parties were to work together as a consolidated utility; and

WHEREAS, one of the initiatives was to hire a consolidated general manager to serve as a liaison between the Consolidated Commission on Utilities and the Utilities – the General Manager of Consolidated Utility Services; and

WHEREAS, the General Manager of Consolidated Utility Services has been directed to explore and make recommendations as to the eventual consolidation of the two utilities under the purview of the Consolidated Commission on Utilities; and

WHEREAS, the Utilities require a legal structure under which resources can be provided back and forth between the Guam Waterworks Authority and the Guam Power Authority; and

WHEREAS, the Guam Waterworks Authority and the Guam Power Authority entered into a Memorandum of Understanding (MOU) in 2003 which has now expired its own terms and both GWA and GPA wish to extend out the MOU; and

WHEREAS, under the initial MOU, GWA has struggled to repay GPA for resources which were provided at the direction of the General Manager of Consolidated Utility Services; and

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WHEREAS, a new MOU has been drafted under which GWA is being allowed a four year period in which to repay amounts owed to GPA and pledges to remain current on any payments for resource provision in the future as well as setting forth some protocol requirements for future resource sharing; and

NOW THEREFORE, BE IT RESOLVED BY THE CONSOLIDATED COMMISSION ON UTILITIES, AS THE GOVERNING BODY OF THE GUAM WATERWORKS AUTHORITY, AS FOLLOWS:

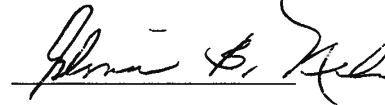
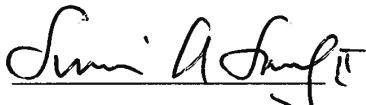
1. The General Managers of the Guam Power Authority, the Guam Waterworks Authority, and Consolidated Utility Services are authorized to sign the attached Memorandum of Understanding
2. The Commission reaffirms its desire for the Utilities to continue to explore opportunities wherein services provided to customers may be improved by combining the resources of the two utilities.

RESOLVED, that the Chairman certifies and the Secretary attests to the adoption of this Resolution.

DULY AND REGULARLY ADOPTED AND APPROVED THIS 23rd day of June, 2009.

Certified by:

Attested by:



SIMON A. SANCHEZ, II
Chairperson

GLORIA B. NELSON
Secretary

I, Gloria B. Nelson, Secretary for the Consolidated Commission on Utilities do hereby certify as follows:

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The foregoing is a full, true and accurate copy of the resolution duly adopted at a regular meeting by the members of the Guam Consolidated Commission on Utilities, duly and legally held at a place properly noticed and advertised on April 28, 2009, at which meeting a quorum was present and the members who were present voted as follows:

AYES:	_____	4
NAYS:	_____	0
ABSTENTIONS:	_____	0
ABSENT:	_____	1





GUAM **WATERWORKS** AUTHORITY

CONDITION FOUND REPORT (CFR)

- **DOAS Basis of Design**
- **Specifications**
- **Scope of Work**



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1.0 Background

The Guam Waterworks Authority (GWA) Compliance Facility has three (3) laboratories served by a designated package unit (PCU) for each zone. The PCU's utilize an outside air (OA) economizer where OA enters the return air mixing box for conditioning the humid air. The PCUs are constant volume.

The design intent specified a Dedicated Outside Air Unit (DOAU) that have specific technical features. A DOAUs are designed to condition 100% outside air at all times. Not all units PCUs are designed to handle 100% latency load. The GWA laboratories should adhere to ASHRAE guidelines for laboratory HVAC design. There are fume hoods in theses spaces that require air to be all positively pressured.

1.1 Design Specification

The following table contains the cooling load profile and the electrical characteristics as per the design requirement during the construction of the GWA Compliance Laboratory.

MARK	QTY	AREA SERVED	COOLING CAPACITY (BTUH)		OA (CFM)	ELECTRICAL
			TOTAL	SENSIBLE		
DOAU-PAC-1	1	Waste Water Lab (114)	220,000	87,000	2500 - 3100	208-230/3ø/60
DOAU-PAC-2	1	Micro/Bacterial Lab (112)	97,000	39,000	1100	208-230/3ø/60
DOAU-PAC-3	1	Wet Chem Lab (111)	97,000	39,000	1100	208-230/3ø/60

1.2 Purpose

The purpose of this document is establish the minimum acceptable technical requirements for the replacement of the DOAU equipment that serves the lab areas that includes the installation of a central controller dedicated for all three (3) DOAUs and permits further expansion utilizing an open protocol framework. This document also establishes the technical requirements for the contractors to comply with for submission.

1.3 References and Compliance

- ASHRAE 90.1-2019 Energy Standard for Buildings Except Low-Rise Residential Buildings
- ASHRAE Standard 62.1-2019 Ventilation for Acceptable Indoor Air Quality

1.4 Humidity Control

Active humidity control is the driver for the selection of the replacement equipment for the GWA labs. The DOAUs must have deep cooling coils and/or desiccant dehumidification components that are typically used to remove high latent loads or humidity. A standard PCU

with an OA economizer is not acceptable for the design intent for the proper cooling, conditioning (Indoor Air Quality), and dehumidification of the lab spaces.

1.5 Room Pressurization Monitoring

Each lab should be equipped with a stand alone pressure monitoring system that allows the occupants of the lab to monitor positive pressurization.

1.6 Conditions Found







— END SECTION —

2.0 Rough Order of Magnitude (ROMs)

The following table provides a budget overview of the replacement of the existing PCUs with the correct DOAUs as per design.

Category	Equipment	Installation / Materials	Crane Rental	TOTAL
1. DOAU-PAC-1: Waste Water Lab (114)	\$ 90,764.00	\$ 27,229.20	\$ 1,800.00	\$ 119,793.20
2. DOAU-PAC-2: Micro/Bacterial Lab (112)	\$ 86,719.00	\$ 26,015.70	\$ 1,800.00	\$ 114,534.70
3. DOAU-PAC-3: Wet Chem Lab (111)	\$ 86,719.00	\$ 26,015.70	\$ 1,800.00	\$ 114,534.70
4. Central Controller (Open Protocol Framework)	\$ 9,365.00	\$ 6,280.00		\$ 15,645.00
5. In-Room Pressure Sensors / Monitor	\$ 3,752.00	\$ 600.00		\$ 4,352.00
Extended Totals	\$ 277,319.00	\$ 86,140.60	\$ 5,400.00	\$ 368,859.60

The ROMs provide complete installed costs. This include all ductwork transitions, electrical works, equipment, appurtenances, coil corrosion protection, and crane rental to position the equipment on the roof of the building.

— END SECTION —

3.0 Scope of Work (SOW)

This scope of work only defines the SOW for the replacement of DOAU-PAC-1, DOAU-PAC-2, and DOAU-PAC-3, the transition ductwork, related components, installation of the new control system, and start-up and commissioning (Cx) of the system with final Operations and Maintenance (O&M) documentation.

Each DOAU have designated roof curbs that require air conveyance transitions. The existing pedestals would need to be removed and the area field inspected, before and after photos of the existing equipment and disposed of, and reporting of any concerns prior to the commencement of the installation of the new equipment. The contractor is responsible to submit all requisite administrative documentation and all equipment submittals inclusive of components, appurtenances, and utilized installation materials. Submittals shall require approval prior to ordering and the issuance of a Notice to Proceed (NTP).

Start-up and commissioning documentation shall include start-up reports, installation, operations, and maintenance manuals (IOMs), and the equipment manufacturer's warranty.

Performance of work activities include:

- Supply, delivery, and mechanical installation of three (3) DOAU units as per equipment schedule, duct work transition, control system, and related appurtenances
- Field verification, safety precautions, quality assurance, briefings, and coordinated work activities with GWA
- Recover refrigerant from existing systems in accordance with U.S. EPA 608 guidelines, removal of existing PCUs, and dispose equipment complying with industry and regulatory standards for disposal
- Placement, mounting, and installation of the DOAUs at the designed locations
- Installation of roof curbs, duct transition, drain, electrical works and appurtenances (e.g. voltage monitor, disconnect, conduits, etc. or as prescribed in the solicitation request)
- Installation of independent lab space pressure sensor for monitoring positive pressure when the DOAUs are running
- Termination of electrical works from provided disconnects
- Installation and programming of new control system, wiring and thermostats
- Charging of system with R410a following the manufacturer's design guidelines
- Calibration of system for proper operations as per defined SOOs
- Start-up and commissioning
- Provide manufacturer's warranty based on authorized Start-up and Commissioning report

3.1 Exclusions

This excludes any work activities and supply of materials not specified in this scope of work and what will be specified in the solicitation request and engineered specifications. Exclusions are as follows:

- Civil works: concrete pads, protective barriers, etc.
- Electrical works outside the purview of the defined SOW
- Demolition works outside scope of mechanical installation

— END SECTION —

4.0 Basis of Design (BOD)

The BOD defined herewith is meant to establish the minimum evaluation requirements for the replacement of the PCUs from a package unit variety with an outside air (OA) economizer to a unit that can condition 100% outside air: Dedicated Outside Air System (DOAS).

The BOD will contain the technical features required for this project and shall be included in GWA's solicitation request.

PART 1 - GENERAL

1.1 SUMMARY

- A. This section includes units with integral cooling for outdoor installation. Integral cooling source shall be packaged DX. Airflow arrangement shall be Outdoor Air only. Each unit shall incorporate additional product requirements as listed in Section 2 of this specification.

1.2 SUBMITTALS

- A. Product Data: For each type or model include the following:
 - 1. Complete fan performance curves for both Supply Air and Exhaust Air, with system operating conditions indicated, as tested in an AMCA certified chamber.
 - 2. Sound performance data for both Supply Air and Exhaust Air, as tested in an AMCA certified chamber.
 - 3. Motor ratings, electrical characteristics and motor and fan accessories.
 - 4. Performance ratings for all chilled water or DX coils.
 - 5. Dimensioned drawings for each type of installation, showing isometric and plan views, to include location of attached ductwork and service clearance requirements.
 - 6. Estimated gross weight of each installed unit.
 - 7. Installation, Operating and Maintenance manual (IOM) for each model.
 - 8. Microprocessor Controller (DDC) specifications to include available options and operating protocols. Include complete data on all factory-supplied input devices.

1.3 QUALITY ASSURANCE

- A. Source Limitations: Obtain unit with all appurtenant components or accessories from a single manufacturer.
- B. For the actual fabrication, installation, and testing of work under this section, use only thoroughly trained and experienced workers completely familiar with the items required and with the manufacturer's current recommended methods of installation.
- C. Product Options: Drawings must indicate size, profiles and dimensional requirements of unit and are to be based on the specific system indicated. Refer to Division 1 Section "Product Requirements".
- D. End of line test with full report available upon request.
- E. Certifications
 - 1. Entire unit shall be ETL Certified per U.L. 1995 and bear an ETL sticker.
 - 2. Coils shall be Recognized Components for ANSI/UL 1995, CAN / CSA C22.2 No 236.05.

1.4 COORDINATION

- A. Coordinate size and location of all building penetrations required for installation of each unit and associated plumbing and electrical systems.
- B. Coordinate location of water system fittings to ensure correct positioning for connection to the water coil and condensate drain pipe.
- C. Coordinate sequencing of construction of associated plumbing, HVAC, electrical supply, roofing contractor.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with specifications contained within this document, manufacturers offering products that may be incorporated into the work include, but are not limited to:
 - 1. Mitsubishi Electric US, Inc.

2.2 MANUFACTURED UNITS

- A. Unit shall be fully assembled at the factory and consist of an insulated metal cabinet, downturn outdoor air intake with 2" aluminum mesh filter assembly, evaporator coil, hot gas reheat coil, packaged DX system, phase and brownout protection, motorized dampers, motorized recirculating damper, curb assembly, filter assembly intake air, supply air blower assembly, and an electrical control center. All specified components and internal accessories factory installed are tested and prepared for single-point high voltage connection except with electric post heat and exhaust fan only power which have dual point power.

2.3 MANUFACTURED UNITS

- A. Materials: Formed, double wall insulated metal cabinet, fabricated to permit access to internal components for maintenance.
 - 1. Unit's exterior shall be supplied from the manufacturer using G60 galvaneal steel with proprietary pre-painted material in the following finish color; Concrete Gray-RAL 7023. This has been subjected to a salt spray test per ASTM-B117 and evaluated using ASTM-D714 and ASTM-D610 showing no observable signs of rust or blistering until reaching 2,500 hours. Uncoated galvanized steel exterior is not acceptable.
 - 2. Internal assemblies: 24 gauge, galvanized (G90) steel except for motor supports which shall be minimum 14 gauge galvanized (G90) steel.
- B. Cabinet Insulation: Comply with NFPA 90A and NFPA 90B and erosion requirements of UL 181.
 - 1. Materials: Rigid urethane injected foam. Foam board not acceptable.
 - a. Thickness: 2 inch (50.8 mm)
 - b. Thermal Resistance R13

- c. Thermally broken
- d. Meets UL94HF-1 flame requirements.
- e. Location and application: Full coverage of entire cabinet exterior to include walls, roof of unit, unit base, and doors.
- 2. Materials: Fiberglass insulation. If insulation other than fiberglass is used, it must also meet the Fire Hazard Classification shown below.
 - a. Thickness: 2 inch (50.8 mm)
 - b. Thermal Resistance R8
 - c. Fire Hazard Classification: Maximum flame spread of 25 and smoke developed of 50, when tested in accordance with ASTM C 411.
 - d. Location and application: Divider panels between outdoor air and return air/exhaust air streams.
- C. Roof Insulation: 2 inch (50.8 mm) fiberglass located above the 1 inch (25.4 mm) foam panel.
- D. Access panels / doors: Unit shall be equipped with insulated, hinged doors or removable access panels to provide easy access to all major components. Doors and access panels shall be fabricated of 18 gauge galvanized G90 steel or painted galvanized steel.
- E. Supply Air blower assemblies: Blower assembly shall consist of an electric motor and direct-drive fans. Assembly shall be mounted on heavy gauge galvanized steel rails and further mounted on 1.125 inch thick neoprene vibration isolators. Blower motors shall be capable of continuous speed modulation and controlled by a VFD.
- F. Evaporator Coil: Evaporator coil shall be (silver) soldered or brazed into the compressed refrigerant system. Coil shall be constructed of copper tubing, permanently bonded to aluminum fins and enclosed in a galvanized steel frame. If two compressors are used as components of the unit, then the evaporator coil shall be of "interlaced" configuration, permitting independent operation of either compressor without conflict with the other compressor. The evaporator, hot gas reheat and condensing coils are coated with ElectroFin® coil coating.
- G. Control panel / connections: Units shall have an electrical control center where all high and low voltage connections are made. Control center shall be constructed to permit single-point high voltage power supply connections. RTU shall be equipped with a Unit Disconnect Switch.
- H. Condensate drain pan: Drain Pan shall be an integral part of the unit whenever a cooling option is included. Pan shall be formed of welded austenitic stainless steel sheet material and provided with a welded stainless steel drain connection at the front for connection to a P trap. Drain pan shall be sloped in two directions to provide positive draining and drain connector shall be sealed at penetration through cabinet wall.
- I. P trap: If the unit is equipped with a condensate drain pan, contractor shall provide, or fabricate, and install an appropriate P trap, in accordance with all local and area codes and Best Practices.
- J. Reheat coil with factory installed modulating hot gas reheat valve.
- K. Packaged DX System: Unit shall have an integral compressor(s) and evaporator coil located within the weather-tight unit housing. The evaporator, hot gas reheat and condensing coils are coated with ElectroFin® coil coating. Condenser coils and appurtenant condenser fan assemblies shall be factory installed as integral subassemblies of the unit and mounted

on the exterior of the unit. Lead condenser fan shall have EC motor to maintain condenser pressure at part load conditions. Motors shall be UL Recognized and CSA Certified. The lead refrigerant compressor(s) shall be inverter hermetic scroll-type and shall be equipped with liquid line filter drier, thermostatic expansion valves (TXV)(s), manual reset high pressure and low pressure cutouts and all appurtenant sensors, service ports and safety devices. Compressed refrigerant system shall be fully charged with R-410A refrigerant. Compressors shall be mounted within an insulated access compartment and on a raised cabinet shelf to reduce sound and vibration. Each compressor shall be factory-equipped with an electric crankcase heater to boil off liquid refrigerant from the oil.

- L. Condenser Fans: Fan blades must be constructed of aluminum or a composite material and have a geometry designed and documented to reduce sound and energy when compared to a traditional rectangular blade fan. Traditional rectangular blade fans are not allowed due to increased noise generated and increase power utilized. Condenser fan motors shall be three phase, external rotor, type 56 frame, open air over and shaft up. Each condenser fan motor shall have a vented frame, rated for continuous duty and be equipped with an automatic reset thermal protector. Lead condenser fan(s) will have an electronically commutated (EC) motor that will modulate to maintain a head pressure set point.] Motors shall be UL Recognized and CSA Certified. Single condenser fan running at max RPM and design static pressure shall not exceed an A-weighted sound power level of 75 db at free inlet/outlet test conditions.
- M. Packaged DX Control and Diagnostics: The Packaged DX system shall be controlled by an onboard digital controller (DDC) that indicates both owner-supplied settings and fault conditions that may occur. The DDC shall be programmed to indicate the following faults:
 - 1. Global alarm condition (active when there is at least one alarm)
 - 2. Supply Air Proving alarm
 - 3. Dirty Filter Alarm
 - 4. Compressor Trip alarm
 - 5. Compressor Locked Out alarm
 - 6. Supply Air Temperature Low Limit alarm
 - a. Sensor #1 Out of Range (outside air temperature)
 - b. Sensor #2 Out of Range (supply air temperature)
 - c. Sensor #3 Out of Range (cold coil leaving air temperature)
- N. Phase and brownout protection: Unit shall have a factory-installed phase monitor to detect electric supply phase loss and voltage brown-out conditions. Upon detection of a fault, the monitor shall disconnect supply voltage to all motors.
- O. Motorized dampers / Intake Air, Motorized dampers of low leakage type shall be factory installed.
- P. Motorized Recirculating Air Damper designed to permit 100% recirculation of exhaust air shall be factory installed.
- Q. Curb Assembly: A curb assembly made of 14 gauge galvanized steel shall be provided by the factory for assembly and installation as part of this division. The curb assembly shall provide perimeter support of the entire unit and shall have duct adapter(s) for supply air. Curb assembly shall enclose the underside of the unit and shall be sized to fit into a recess in the bottom

of the unit. Contractor shall be responsible for coordinating with roofing contractor to ensure curb unit is properly flashed to provide protection against weather/moisture penetration. Contractor shall provide and install appropriate insulation for the curb assembly. The curb shall be the height of 14 in.

- R. Hail Guards: Protects the condensing unit from damage due to extreme weather conditions such as hail and flying debris.
- S. 24V/120V Smoke detector: Duct smoke detector is shipped loose for field mounting and wiring in the supply or return air duct. The air duct smoke detector housing shall be UL listed per UL 268A specifically for use in air handling systems. The air duct smoke detector housing shall be suitable for mounting indoors. The detector shall operate at air velocities of 100 feet per minute to 4000 feet per minute (0.5 to 20.32 meters/second). The power supply voltage shall be 20-29 VDC, 24 VAC 50-60 Hz, and 120 VAC 50-60 Hz. The detector shall consist of an alarm initiation contact and two DPDT auxiliary contact closures. WARNING: Duct smoke detectors are NOT a substitute for open area smoke detectors; NOT a substitute for early warning detection; NOT a replacement for a building's regular fire detection system. Refer to NFPA 72 and 90A for additional information.

2.4 BLOWER

- A. Blower section construction, Supply Air: direct drive motor and blower shall be assembled on a 14 gauge galvanized steel platform and shall be equipped with 1.125 inch thick neoprene vibration isolation devices.
- B. Blower assemblies: Shall be statically and dynamically balanced and designed for continuous operation at maximum rated fan speed and horsepower.
- C. Fan: Direct drive, airfoil plenum fan with aluminum wheel statically and dynamically balanced. Prop or belt-drive fan not acceptable due to low static capabilities.
- D. Blades: Welded aluminum blades only.
- E. Blower section motor source quality control: Blower performance shall be factory tested for flow rate, pressure, power, air density, rotation speed and efficiency. Ratings are to be established in accordance with AMCA 210, "Laboratory Methods of Testing Fans for Rating".

2.5 MOTORS

- A. General: Blower motors greater than 1/2 horsepower shall be "NEMA Premium" unless otherwise indicated. Compliance with EPA minimum energy-efficiency standards for single speed ODP and TE enclosures is not acceptable. Motors shall be heavy-duty, permanently lubricated type to match the fan load and furnished at the specified voltage, phase and enclosure.
- B. Motors shall be 60 cycle, 3 phase 208 volts.

2.6 UNIT CONTROLS

- A. The unit shall be constructed so that it can function as a stand-alone heating and cooling system controlled by factory-supplied controllers, thermostats and sensors or it can be operated as a heating and cooling system controlled by a Building Management System (BMS). This unit shall be controlled by a factory-installed microprocessor programmable controller (DDC) that is connected to various optional sensors.
- B. Unit shall incorporate a DDC controller with integral LCD screen that provides text readouts of status. DDC controller shall have a built-in keypad to permit operator to access read-out screens without the use of ancillary equipment, devices or software. DDC controllers that require the use of equipment or software that is not factory-installed in the unit are not acceptable. Alarm readouts consisting of flashing light codes are not acceptable. Owner-specified ventilating conditions can be input by means of pushbuttons.
- C. Unit supply fan shall be configured for Constant Volume (ON/OFF).
- D. Unit exhaust fan shall be configured for
- E. Outside Air / Return Air damper control shall be
- F. Operating protocol: The DDC shall be factory-programmed for BACNetIP.
- G. Variable Frequency Drive (VFD): unit shall have factory installed variable frequency drive for modulation of the exhaust air blower assembly. The VFD shall be factory-programmed for unit-specific requirements and shall not require additional field programming to operate.
- H. Unit shall be provided with a space thermostat measuring temperature and relative humidity. Thermostat shall have an LCD display and push buttons allowing for setpoint adjustments.

2.7 FILTERS

- A. Unit shall have permanent 2 inch (50.8 mm) aluminum filters located in the outdoor air intake and shall be accessible from the exterior of the unit. MERV 8 disposable pleated filters shall be provided in the supply air stream. MERV 8 and MERV 13 disposable pleated filters shall be provided in the supply final air stream.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Prior to start of installation, examine area and conditions to verify correct location for compliance with installation tolerances and other conditions affecting unit performance. See unit IOM.
- B. Examine roughing-in of plumbing, electrical and HVAC services to verify actual location and compliance with unit requirements. See unit IOM.
- C. Proceed with installation only after all unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. In all cases, industry Best Practices shall be incorporated. Connections are to be made subject to the installation requirements shown above.
- B. Piping installation requirements are specified in Division 22 (Plumbing). Drawings indicate general arrangement of piping, fittings and specialties.
- C. Duct installation and connection requirements are specified in Division 23 of this document.
- D. Electrical installation requirements are specified in Division 26 of this document.

3.3 CONNECTIONS

- A. In all cases, industry Best Practices shall be incorporated. Connections are to be made subject to the installation requirements shown above.
- B. Piping installation requirements are specified in Division 22 (Plumbing). Drawings indicate general arrangement of piping, fittings and specialties.
- C. Duct installation and connection requirements are specified in Division 23 of this document.
- D. Electrical installation requirements are specified in Division 26 of this document.

3.4 FIELD QUALITY CONTROL

- A. Manufacturer's Field Service: Engage a factory authorized service representative to inspect field assembled components and equipment installation, to include electrical and piping connections. Report results to A / E in writing. Inspection must include a complete startup checklist to include (as a minimum) the following: Completed Start-Up Checklists as found in manufacturer's IOM.

3.5 START-UP SERVICE

- A. Engage a factory authorized service representative to perform startup service. Clean entire unit, comb coil fins as necessary, install clean filters. Measure and record electrical values for voltage and amperage. Refer to Division 23 "Testing, Adjusting and Balancing" and comply with provisions therein.

3.6 DEMONSTRATION AND TRAINING

- A. Engage a factory authorized service representative to train owner's maintenance personnel to adjust, operate and maintain the entire unit. Refer to Division 01 Section Closeout Procedures and Demonstration and Training.



GUAM WATERWORKS AUTHORITY

“Better Water, Better Lives.”

Gloria B. Nelson Public Service Building | 688 Route 15 | Mangilao, Guam 96913

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Issues for Decision

Resolution No. 11- FY2024

Relative to Approving the Five-Year Financial Plan and Capital Improvement Program

What is the project’s objective and is it necessary and urgent?

The Guam Waterworks Authority (GWA, the Authority) has prepared its fourth consecutive Five-Year Financial Plan (Financial Plan) to support the continued improvement of the operations and maintenance of the Authority, invest in critical infrastructure, and enhance GWA’s financial stability while ensuring just and reasonable rates. The CCU’s approval of the Financial Plan is necessary and urgent to authorize and enable the Authority to obtain necessary resources to continue its operations and to timely meet regulatory compliance requirements, including the Clean Water Act (Consent Decree compliance), impending additions to federal Safe Drinking Water Act (PFAS) and local regulations for emerging contaminants (Dieldrin).

On September 28, 2023, the Public Utilities Commission (PUC) ordered GWA to provide its next multi-year rate plan on or before April 1, 2024. Because of the notice requirements in the Ratepayers Bill of Rights, GWA requested, and PUC agreed to modify the order to allow for an advance draft of the rate plan to be provided on or before March 4, 2024, and the final submission of the rate plan on or before June 3, 2024. GWA believes this schedule will help to facilitate the review and approval of the rate plan before the start of FY2025.

Where is the location?

Approval of the Financial Plan will impact utility operations at all GWA sites and the provision of water/wastewater services to all GWA customer locations.

How much will it cost?

Revenue requirements are projected to be:

FY2025	\$155,271,144
FY2026	\$169,933,072
FY2027	\$182,505,875
FY2028	\$200,707,639
FY2029	\$221,593,952

When will it be completed?

As stated above, an advance draft of the Financial Plan will be submitted to the Public Utilities Commission (PUC) on March 4, 2024, and, after the Ratepayer Bill of Rights public notice requirements are met, the final Financial Plan and Rate Petition will be submitted to the PUC on or before June 3, 2024.

What is the funding source?

The Financial Plan provides for the primary funding source for overall revenue requirements from operating revenues. The Capital Improvement Plan will be funded through a combination of revenues, debt financing, grants and SDC sources.

The RFP/BID responses (if applicable):

Not applicable.



CONSOLIDATED COMMISSION ON UTILITIES
Guam Power Authority | Guam Waterworks Authority
P.O. Box 2977 Hagatna, Guam 96932 | (671)649-3002 | guamccu.org

GWA RESOLUTION NO. 11-FY2024

RELATIVE TO APPROVING THE FIVE-YEAR FINANCIAL PLAN AND CAPITAL IMPROVEMENT PROGRAM

WHEREAS, under 12 G.C.A. § 14105, the Consolidated Commission on Utilities (“CCU”) has plenary authority over financial, contractual, and policy matters relative to the Guam Waterworks Authority (“GWA”); and

WHEREAS, the Guam Waterworks Authority (“GWA”) is a Guam Public Corporation established and existing under the laws of Guam; and

WHEREAS, the September 28, 2023, Public Utility Commission (PUC) Docket 19-05 Order for Annual True-Up for FY2024 Rate ordering provision 4, required GWA to “*file its next multi-year rate plan on or before April 1, 2024*”; and

WHEREAS, Public Law 26-26, Ratepayers’ Bill of Rights, requires GWA to publish a public notice of any proposed rate increase in a newspaper of general circulation at least three (3) months before submitting the proposed rate increase to the PUC; and

WHEREAS, Public Law 26-26, Ratepayers’ Bill of Rights, also requires GWA to mail a notice to every ratepayer at least one (1) month before submitting the proposed rate increase to the PUC; and

WHEREAS, at GWA’s request, on December 19, 2023, the PUC modified its earlier Order to allow GWA to file an advance petition on or before March 4, 2024, and its final multi-year rate plan on or before June 3, 2024; and

WHEREAS, Guam Waterworks authority has prepared its fourth consecutive Five-Year Financial Plan (“Financial Plan”) for Fiscal Year (FY) FY2025 to FY2029; and

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WHEREAS, GWA’s Financial Plan addresses the FY2025 to FY2029 estimated annual budgets and capital improvement projects to provide for the continued modernization, operation, maintenance, and repair of GWA's water and wastewater systems; and

WHEREAS, GWA requires sufficient revenues to meet projected costs driven primarily by obligatory investments for system reliability, federal regulatory compliance, the 2011 Federal Court Order, and the 2024 US EPA Partial Consent Decree; must concurrently meet rate covenants delineated in GWA’s bond indenture; and must address CCU and PUC debt service coverage policies along with credit rating considerations; and

WHEREAS, a narrative summary of the Financial Plan is provided as Attachment A with highlights that include:

1. Non-lifeline water and wastewater rate increases (developed using a cash basis analysis) of 29% in FY2025, 12.5% in FY2026, 10% in FY2027, 10% in FY2028 and 10% in FY2029 and a lifeline rate increase of 12.5% in FY 2026. These rate increases are to fund operating expenses and other costs subject to inflationary pressures, to pay for current and future debt service, and enable limited internal financing of capital requirements, (See Attachment B, Historical and Forecasted Operating Results, Proposed Rates, for the 5-Year Rate Table);
2. Surcharges, adjusted to cover projected retirees’ costs, of 3.5% in FY2025, 3.2% in FY2026, and 3.0% in FY2027 through FY2029;
3. Full funding of cash reserves required under the Bond Indenture and CCU Policy;
4. Gradual increasing of the current 1.3x debt service coverage to the PUC/CCU target of 1.5x over the period of the Financial Plan to effect prudent financial management, risk mitigation, and strategic alignment of the Authority’s debt obligations with growth and capital plans;
5. Rebuilding of the Rate Stabilization Fund (RSF) with planned transfers in of ten million (\$10,000,000) over the five-year period. The RSF will be used to fund expenses associated with unexpected events or, during uncertain times, declining revenues and increasing expenses. RSF replenishment may create opportunities to enhance

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- investment grade status for GWA bonds and thereby improve terms and conditions. and related costs of GWA debt offerings;
6. Continuing efforts to reduce water losses through completion of planned district metered area installations and conduct of aggressive leak detection and repair efforts. GWA’s programmatic approach will require additional line detection staffing and prioritizing of line replacement projects;
 7. Funding of capital improvement projects with current revenues of approximately One Hundred and Fifteen Million (\$115,000,000) to reduce GWA’s reliance on debt financing and balance GWA’s capital structure. IFCIP financing will thereby reduce costs to consumers by reducing interest and other costs associated with debt financing;
 8. Issuing an estimated seven hundred eighty million dollars (\$780,000,000) of new money debt instruments (without capitalizing interest) to fund much needed capital improvement projects; and

WHEREAS, the Rate Application Model (RAM) has been used to generate schedules listed in Public Utility Commission Minimum Filing Requirements (MFR) as well as additional schedules to which help inform reviewers of the Financial Plan; these schedules being provided in Attachment C and which include:

Schedule	Description
Schedule A-1	Historical and Forecasting Operating Results, Existing Rates
Schedule A-2	Historical and Forecasting Operating Results, Proposed Rates
Schedule B	Rate Revenues & Billing Determinants by Class
Schedules C	Budgeted Operating Expense
Schedule D*	Navy Water Purchases
Schedule E*	Sources & Uses of Funds, Capital Improvement Program
Schedule F	Debt Service & Other Financing Charges
Schedules G*	Capital Improvement Projects
Schedule H	Other Revenues, Interest Revenues & Revenue Adjustments

Schedule	Description
Schedule I	Other Cash Flow Items
Schedules J	Proof of System Revenues
Schedule K	Proposed Rate Adjustments
Schedule L*	Bill Impacts by Customer Class

* Schedules in addition to the MFR

and, **WHEREAS**, a sample bill summary is provided as Attachment D and below, and is a summary of sample bill increases based on average monthly consumption for each customer class:

Customer Class	FY25	FY26	FY27	FY28	FY29
Residential 3 kGals	\$9.10	\$10.32	\$4.50	\$5.03	\$5.54
Commercial 1 30 kGals	\$242.11	\$132.78	\$119.89	\$134.20	\$147.62
Commercial 2 500 kGals	\$5,609.72	\$3,073.05	\$2,773.98	\$3,107.93	\$3,419.14
Commercial 3 50 kGals	\$679.84	\$372.42	\$335.78	\$376.45	\$414.15
Hotel 500 kGals	\$5,641.56	\$3,090.47	\$2,789.69	\$3,125.55	\$3,438.51
Government 200 kGals	\$1,775.00	\$972.42	\$877.68	\$984.01	\$1,082.58
Irrigation 20 kGals	\$43.42	\$23.76	\$21.52	\$24.03	\$26.57
Agriculture 20 kGals	\$44.96	\$24.74	\$22.27	\$25.02	\$27.38

and, **WHEREAS**, the Financial Plan will fund the Five-Year Capital Improvement Plan attached hereto as Attachment E, which includes but is not limited to:

- a. Water Production and Treatment
 - i. Well rehabilitation, repair, and equipment replacement.
 - ii. Ugum Water Treatment Plant upgrades.
 - iii. PFAS removal projects including evaluation, design, and treatment plant construction with related transmission mains and booster stations
- b. Water Distribution and Storage
 - i. Water main renovation and replacement
 - ii. Water storage tank replacements and rehabilitation including four new projects

- 1 c. Sewer Collection Main and Force Main
- 2 i. Replacement and rehabilitation of gravity sewer main (with additional areas
- 3 identified by the model update).
- 4 ii. Assessment, replacement, and rehabilitation of pressurized force main.
- 5 d. Sewage Lift Stations
- 6 i. Rehabilitation/Replacement of sewage pumping stations.
- 7 e. Wastewater Treatment
- 8 i. Planning for upgrade of the Hagatna WWTP.
- 9 f. Electrical and Control
- 10 i. Implementation of SCADA equipment installation and activation.
- 11 ii. IT Improvements.
- 12 g. General Plant and Miscellaneous
- 13 i. Erection of a Fleet Maintenance Facility.
- 14 ii. GWA warehouse and test bench
- 15 iii. Replacement of mobile equipment and light fleet vehicles
- 16 iv. District water meter area implementation
- 17 v. Master meter implementation and service meter replacement
- 18 vi. Hydrant maintenance and replacement
- 19 vii. Wastewater model update
- 20 viii. Miscellaneous wastewater system improvements
- 21 ix. General engineering systems planning; and

22

23 **WHEREAS**, GWA will conduct a comprehensive public information campaign which will

24 comply with notification requirements in the Ratepayers Bill of Rights and include presentations

25 to the public via village meetings, the Mayor’s Council, the legislature, and community and civic

26 groups, as well as media interviews, social media, posting to the GWA website, and ratepayer

27 billing inserts so that the plan can be evaluated and commented on by the public; and

28

29 **WHEREAS**, GWA plans to submit an advance draft of the FY2025-FY2029 Financial

30 Plan and Capital Improvement Project and rate application (Rate Package) to the PUC on March

1 4, 2024, and, after the required Rate Payers Bill of Rights notice, file the final Rate Package on or
2 before June 3; 2024; and
3

4 **WHEREAS**, having reviewed and analyzed the plans, the CCU finds the Financial Plan is
5 ready for approval and the CCU will authorize GWA management to provide an advance draft of
6 the Financial Plan to the Public Utilities Commission (PUC), commence the public notice
7 requirements as required in the Ratepayers Bill of Rights contained in the Guam Code Annotated,
8 and formally submit to the PUC, once the requirements of the Ratepayers Bill of Rights have been
9 met, the Rate Package.

10
11 **NOW BE IT THEREFORE RESOLVED**, the Consolidated Commission on Utilities
12 does hereby approve and authorize the following:

- 13 1. The recitals set forth above hereby constitute the findings of the CCU.
- 14 2. The CCU hereby approves the Financial Plan for FY2025-FY2029 which
15 includes non-lifeline water and wastewater rate increases of 29% in FY2025,
16 12.5% in FY2026, 10% in FY2027, 10% in FY2028 and 10% in FY2029 and a
17 lifeline rate increase of 12.5% in FY2026 to support approximately \$780
18 million of new debt financing, internally fund CIP of \$115 million, maintain
19 cash reserves required under the bond indenture, rebuild the Rate Stabilization
20 Fund with transfers in of \$10 million, gradually increase the debt service
21 coverage ratio from 1.3x to 1.5x, continue efforts to reduce water losses, and to
22 cover retiree expenses with legislative surcharges of 3.5% in FY2025, 3.2% in
23 FY2026, and 3.0% in FY2027 through FY2029.
- 24 3. The CCU hereby authorizes GWA management to submit an advance draft of
25 the Rate Package to the PUC, commence a public outreach program, and
26 comply with the public notice requirements contained in the Ratepayers Bill of
27 Rights.
- 28 4. The CCU hereby further authorizes the management of GWA to engage the
29 PUC in discussions regarding the advance submission as needed, and to
30 formally submit the FY2025-FY2029 Rate Package to the PUC after meeting
31 public notice requirements contained in the Ratepayers Bill of Rights.

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RESOLVED, that the Chairman certified, and the Board Secretary attests to the adoption of this Resolution.

DULY AND REGULARLY ADOPTED, this 27th day of February 2024.

Certified by:

Attested by:

JOSEPH T. DUENAS

PEDRO ROY MARTINEZ

Chairperson

Secretary

SECRETARY'S CERTIFICATE

I, Pedro Roy Martinez, Board Secretary of the Consolidated Commission on Utilities as evidenced by my signature above do hereby certify as follows:

The foregoing is a full, true, and accurate copy of the resolution duly adopted at a regular meeting by the members of the Guam Consolidated Commission on Utilities, duly and legally held at a place properly noticed and advertised at which meeting a quorum was present and the members who were present voted as follows:

AYES: _____

NAYS: _____

ABSENT: _____

ABSTAIN: _____

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EXHIBIT A

**GUAM WATERWORKS
AUTHORITY
Five-Year Financial Plan**

FY2025-FY2029

2/9/2014

Guam Waterworks Authority Five-Year Financial Plan, FY2025-FY2029

Introduction

The Guam Waterworks Authority (GWA, Authority) has prepared its fourth consecutive five-year financial plan to support the continued improvement of the operations and maintenance of the Authority, invest in critical infrastructure, and enhance GWA's financial stability while ensuring just and reasonable rates. The development of this 5-year Financial Plan has considered the effects of various operational and regulatory issues which determine the revenue requirements of the Authority. These include:

- challenges with staff recruitment and retention,
- the requirements of the recently filed Complaint and Partial Consent Decree in U.S. District Court,
- new federal and local regulations on emerging contaminants such as PFAS and Dieldrin,
- protection of the Northern Guam Lens Aquifer (NGLA),
- continued implementation of the Authority's Water Loss Control Program; and
- the challenges of execution of GWA's significant capital improvement program in light of military buildup.

GWA's revenue requirements are also influenced by its financial position resulting from adjudication of the FY2024 True-Up. The PUC's FY2024 Order established rate levels that did not provide for replenishment of Rate Stabilization Fund (RSF) reserves that proved critical for avoiding technical default in FY2023 and continued to target debt service coverage below the prescribed minimum dictated by (temporarily suspended) CCU and PUC policy.

Financial Plan Overview

GWA's 2018 Water Resource Master Plan laid out a strategic financial planning approach which provided a steady path of sustainable rate increases to cover operations and maintenance expenses and attempted to achieve a balance between debt and revenue financing of the needed capital improvement program.

The economic impacts of the global pandemic, geopolitical conflicts on oil, energy and manufacturing costs, and localized labor availability on the costs of construction have all had appreciable effects on the operating expenses of the Authority and its ability to fund an expanding capital improvement program in line with that long-term balanced financial strategy. PUC rate relief granted with FY2023 rates, and with the FY2024 annual true-up has not remedied GWA's difficult financial position. It began FY2024 with less than \$1M in RSF funds and with debt service coverage (temporarily) below minimums prescribed by CCU and PUC policy.

Rate Increase Drivers

As discussed further below, the principal drivers of GWA's requested rate relief are three-fold. First, GWA has to date absorbed (high) inflationary trends across most of its Operational and Maintenance (O&M) expense categories and unsustainably deferred needed O&M spending. Its forecasted O&M expenses account for inflationary impacts, address needs to recruit and retain staff, and provide for mandated expenses for insurance and retiree benefits. Second, GWA's rates will enable financing of capital spending also largely mandated by regulatory requirements or required to sustain GWA's critical Water Loss Control program. Absent the (still pending) availability of short-term construction period financing, debt service expenses are projected to increase nearly 120% -- representing the largest single cost component increase forecasted. Third, GWA's plan is structured to improve debt service coverage and liquidity metrics to

Guam Waterworks Authority
Five-Year Financial Plan, FY2025-FY2029

gradually move it from the financial precipice where debt service coverage levels marginally exceed covenanted requirements and available reserves have been depleted. It has planned for gradual restoration of the RSF (to levels still below those available pre-pandemic) and improvement of debt service coverage (also to levels still below those pre-pandemic) while continuing to maintain prescribed operating liquidity (e.g., Days Cash on Hand) metrics and Debt Service Reserve Fund targets.

Proposed Rate Increases

In order to meet revenue requirements that include the forecasted operations and maintenance expenses, debt service payments, and internally financed capital; maintain required cash reserves; and replenish GWA's Rate Stabilization Fund (RSF), the following proposed rate increases over the five years are needed:

Fiscal Year	Non-Lifeline Rate Increase	Lifeline Rate Increase
FY2025	29.0%	
FY2026	12.5%	12.5%
FY2027	10.0%	
FY2028	10.0%	
FY2029	10.0%	

Legislative surcharges will be applied to the non-lifeline charges and are used to cover post-retirement benefit costs such as supplemental annuities, medical and dental insurance, life insurance, and cost of living allowances.

Fiscal Year	Legislative Surcharge
FY2025	3.5%
FY2026	3.2%
FY2027	3.0%
FY2028	3.0%
FY2029	3.0%

Revenue and Demand Assumptions

Forecasted revenues reflect application of GWA's proposed volumetric rates and base charges to forecasted numbers of meters by size and billable volumes across each of GWA's customer classes. These billing determinant forecasts reflect extensive analysis of historical billing data, price elasticity factors, and adjustments for general trends in water usage. Annual increases in rates and charges are assumed to be applied uniformly across base charges and volumetric rates, and across water and wastewater systems except the lifeline rates proposed to be increased only in FY2026 by the same percentage as that applicable to non-lifeline rates. Application of rate increases by base charge and rate components may be altered with the PUC's pending decision on GWA's Rate Design Petition.

Guam Waterworks Authority
Five-Year Financial Plan, FY2025-FY2029

Operating and Maintenance Budget

As Guam Waterworks Authority business units prepared their requests to meet operational needs over the next 5 years, there was a laundry list of factors to consider: the economy, recruitment and retention challenges, ongoing recovery from the pandemic and Typhoon Mawar, new regulatory requirements, and unstable fuel costs, all of which GWA continues to balance in its day-to-day activities.

These considerations were built into the assumptions used when funding requirements for this 5-Year Rate Period were compiled.

Utilities

Power Purchases. For the next 5 years, GWA projects annual consumption at 61 million kilowatt-hours (kwh) for all facilities and an aggregate average cost (agency-wide) of \$.42/kwh for FY2025 and \$.39/kwh for FY2026 moving forward. Projected consumption is based on actual consumption over the past 3 years; that level of consumption is maintained over the five-year period. GWA has maintained these projected rates for planning purposes and will monitor for efficiencies upon operation of the new Ukudu power plant slated in FY2026.

Water Purchases. Expenses for water purchases from the Navy are forecast based on projected FY2025 water demands of 550,000 kilo-gallons (kGal) and a rate of \$11/kGal and projected billable sewer flows of 15,000 KGal at a rate of \$31/kGals. Forecasted Navy water purchase expenses throughout the five-year period are based on the same service rates with reductions in consumption levels and billable flows projected in FY2026 through FY2029 due to efforts to reduce water loss through line replacements, district metered areas, and an aggressive leak prevention program. The opening of Camp Blas may introduce a water exchange agreement.

Staffing and Salaries and Benefits

FTE levels. GWA proposes to keep its 400 FTE authorization level for FY2025 and FY2026, increasing to 410 FTEs for the remaining three years. While GWA has been working to improve its ability to quickly fill vacancies, employees have been exiting as vacancies are filled. Departures are largely for opportunities with the federal government, federal contractors, or employment off-island, often featuring improved compensation.

As of this January 2024, GWA had 360 active employees, 28 announced recruitments and 22 vacancies. Many of the vacancies are in the operations, engineering, and compliance areas where certifications or specialized education or training may be required and where there is competition for similar positions in the federal government or with federal contractors. Flexibility in recruitment within authorized budget levels is necessary for GWA management to prioritize staffing areas of critical need as changes occur in staff levels through normal attrition.

Salary migration. As noted above, GWA is finding it increasingly difficult to recruit and retain skilled employees due to better opportunities, pay and benefits elsewhere. GWA plans to implement updates to its Compensation Plan based on an external 2022 market study of industry salaries. This plan involves migrating employee salaries up the 50th market percentile over the next 5 years:

- FY2025 funds migration to the 30th percentile;
- FY2026 funds migration to the 35th percentile;
- FY2027 funds migration to the 40th percentile;
- FY2028 t funds migration to the 45th percentile; and

Guam Waterworks Authority Five-Year Financial Plan, FY2025-FY2029

- FY2029 funds migration to the 50th percentile.

The migration costs would be inclusive of annual pay for performance adjustments. The salary migration will cost about \$3.5 million in salaries over the next 5-years and will help to recruit and retain its most valuable asset, GWA employees. For certain positions, such as engineers, leak detection and sewer cleaning technicians, GWA anticipates that salary migration will enable the recruitment and retention of staff to do work that would otherwise be contracted out at higher costs.

Premium Pay. Premium pay provides a budget for overtime based on 6% of salaries; night differential at 1% and holiday work at 2%. Premium pay is required to address emergencies as well as cover for vacancies and regularly scheduled shift work.

Benefits. The recent announcement of the government's self-insurance program resulted in an increase in the government's share of costs for medical and dental benefits. For FY2025, GWA budgeted benefits at the current average per enrollee for all employees. It has been reported that the government share is not expected to increase and may even decrease over time. With that in mind, GWA maintained rates for life, medical and dental coverage for all employees. Retirement is calculated at 29% of base salary.

Administrative and General Expenses

In comparison to the FY2024 approved budget levels, Administrative and General expenses categories reflect a 38% increase in FY2025 and then provide for inflationary adjustments for individual line-item categories in the ensuing fiscal periods. Inflationary adjustments for individual line-item categories are, in general, based on recent experience, market dynamics, and forecasted operational considerations.

Sludge Removal. Sludge removal is the expense to take the sludge from the Wastewater Treatment Plants to the landfill. This also includes the landfill charges. FY2024 budget in this category is underfunded; projected expenditures in this category have been returned to the appropriate levels and adjusted for inflation.

Chemicals. In combination with price increases for the cost of various chemicals, GWA must now purchase greater quantities of chemicals to address both water and wastewater services. Additional water wells will require the use of granular activated carbon (GAC) to address growing concerns over the levels of contaminants (PFAS and Dieldrin) found in certain areas. Additionally, GWA must replace the GAC vessels more frequently than initially planned. GAC costs in the first year are projected at \$1.4 million in comparison to FY2024's planned \$70,000 budget.

New polymer options are also being studied for application at the Northern and Agat-Santa Rita treatment plants to reduce the volume of chemical application required by the product currently in use at all plants. On the collection side of wastewater, GWA is scheduled to expand dosing applications of treatment additives aimed at reducing the level of fats, oil, and grease, which in turn help in reducing system blockages and overflows.

Materials & Supplies. This category of expense includes materials and supplies needed for critical operations, compliance, and safety activities, and for office work. Many of these items are parts needed to repair and maintain equipment located throughout GWA. A six percent escalation rate was applied to this category.

Guam Waterworks Authority Five-Year Financial Plan, FY2025-FY2029

Transportation. Fuel and lubricants and vehicle parts are included in this cost category. Parts and materials to repair tires, heavy equipment, and vehicles are also part of this expense. Also included is vehicle tracking software which monitors vehicle location, vehicle speeds and idling time. A ten percent inflation rate was applied to this category.

Communications. Communications includes internet and phones. As GWA outfits its operations staff with mobile tools to improve Asset Management and expands connectivity to facilitate implementation of SCADA throughout its facilities and equipment sites, this expense will grow and then level off.

Claims. Claims include damage to cable lines and private or government property that may occur as part of repair work. Claims from sewage overflows are also covered in this category as is Workman's Compensation.

Insurance. GWA's existing contract for insurance coverage will run through FY2026 holding the same \$1.9 million annual premium. GWA assumes a nominal 3% inflationary increase moving forward for each of the remaining 3 years. As the insurance market tightens, and with the advent of the recent typhoon and related claims, it is uncertain if insurance costs can be maintained.

Training & Travel. Investing in our employees through training helps build a knowledgeable and skill-based staff. With the easing of pandemic related restrictions, GWA plans to take advantage of the opportunities to network with industry peers, become exposed to new developments in the industry, and become more familiar with best practices. Such interaction and professional development improve operational performance and contribute to employee retention.

Advertising. Print ads, social media and the GWA website are included in this cost category.

Miscellaneous Expenses. Miscellaneous expenses include bank charges and fees expenses related to the Consolidated Commissions on Utilities (CCU), postage, subscriptions, government fees, and certain employee related expenses.

Regulatory Expense. The category includes payment to the Public Utilities Commission.

Provisions for Bad Debt. The Bad Debt expense provision is two percent (2%) of Operating Revenues. Bad Debt is netted from Revenues and therefore not included in the Administrative and General Expenses totals.

Contractual Expenses

Compared to FY2024. Contractual expenses are expected to grow almost 32% in FY2025 in part due to regulatory and compliance requirements and operational support as well as the continuing dependency on computer technology to realize operational efficiencies.

Audit and Computer Maintenance. Besides auditing, financial consulting, rating agencies fees, risk management, and well monitoring, a large part of this expense category supports software subscriptions and technical support.

Building Rental. This expense category includes lease costs for the Fadian offices as well as storage space.

Equipment Rental. Equipment leases are often needed to help support operations and augment the current fleet. This is especially critical for deep well maintenance and repair operations and will be needed to support cleaning and CCTV operations required by the 2024 Consent Decree.

Guam Waterworks Authority Five-Year Financial Plan, FY2025-FY2029

Legal. A large part of the legal fees is related to a land dispute. This case requires a specialized firm with experience in these matters.

Laboratory. Much of the lab samples collected are sent to off-island labs for analysis. GWA anticipates that the costs will jump in the first year due to additional testing required for emerging contaminants such as PFAS, and for monitoring treatment system performance as these are installed over the first few years of the planning period. Additionally, GWA is required to monitor its underground tanks and ensure they are not contaminating surrounding areas.

Other Contractual Expenses. The majority of this expense category is for the repair and maintenance of equipment that require specialized skills or equipment. Also included is road restoration, trash pickup, security, janitorial services, drug testing, leak detection, printing and copying, and various permitting requirements.

Retiree Expenses

Retiree expenses consist of the supplemental annuities for 'old plan' members, medical and dental insurance, life insurance, and cost of living allowances. As mentioned above, the legislative surcharge is designed to fund this cost.

Five Year Capital Improvement Plan

GWA's Five-Year CIP includes certain capital program requirements mandated under the 2024 Partial Consent Decree, including wastewater collection system gravity line assessment, capacity analyses and certain rehabilitation/replacement for the portions of the sewer collection network; inventory, assessment and analyses are required for sewer pump station force main (discharge) piping and rehabilitation / replacement of a certain percentage of the Authority's total force main piping inventory; assessment, design and construction of Tier 1 and a certain number of Tier 2 pump station upgrades as such tiers have been identified in the Authority's 2018 Water Resources Master Plan (WRMP) Update.

The CIP includes planning and engineering to address proposed federal regulations for emerging contaminants such as PFAS and selected water tank projects. It also includes distribution system valve and line replacement projects to improve pressure zone realignment, water loss and facilitate implementation of district metering; continued connection of the Authority's water and wastewater facilities to the SCADA network, as well as attendant facility electrical system upgrades; and replacement of the Authority's vehicle maintenance facility, as well as repairs/upgrades to its main operations, customer service facility and warehouse complex.

CIP Description	Total Costs	Percentage
Water Projection	\$195,065,690	21.7%
Water Treatment	9,573,432	1.1%
Water Distribution	203,109,517	22.6%
Water Storage	25,931,842	2.9%
Wastewater Collection	268,380,943	29.9%
Wastewater Treatment	62,080,740	6.9%
Electrical, Monitoring, Control	36,437,196	4.1%
General Plan	98,154,030	10.9%
Total CIP	898,733,389	100.0%

Guam Waterworks Authority Five-Year Financial Plan, FY2025-FY2029

The FY2025-FY2029 Capital Improvement Plan is a key component and cost driver of the Five-Year Financial Plan.

Other Financial Assumptions and Considerations

CIP Funding Sources

GWA has included projected grant funding, systems development charges, revenue funding as well as new revenue bonds to fund investment in infrastructure.

Funding Source	Total Funding	Percentage
US EPA State Revolving Fund	\$89,000,000	8.9%
System Development Charge	3,750,000	.4%
New Revenue Bonds	780,000,000	78.2%
Revenues	115,000,000	11.5%
Funds from Prior Years	9,905,703	1.0%
Funds for Future Years	(98,922,314)	
Total Funding	898,733,389	100.0%

US Environmental Protection Agency State Revolving Fund (SRF). GWA anticipates funding from the SRF, augmented by the federal Infrastructure Investment and Jobs Act, to provide \$27M in CIP funding for FY2025 – FY2027. SRF funding for FY2028-FY2029 is expected to be reduced to \$4M annually as congress has earmarked much of the funding previously distributed via formulaic allocations to all states and territories for special projects within specific congressional districts.

System Development Charge. System Development Charges are restricted to uses for expanding the water and wastewater system and are part of the fees charged for new construction.

Revenue Bonds. GWA expects to issue new revenue bonds in FY2025 of \$250M, FY2027 of \$310M, and FY2029 of \$220M and structure levelized debt payments to prevent jumps in debt service that will similarly require a similar increase in rates. GWA continues to work with its legislative oversight chair to introduce legislation that will authorize borrowing through USEPA WIFIA (Water Infrastructure Finance and Innovation Act) loans as well as Tax Exempt Commercial Paper which will reduce borrowing costs.

Internally funded. Service rates that support capital outlays reduce the amount of financing required by GWA, hence, saving ratepayers the cost of interest and other associated expenses. These also allow GWA to fund smaller capital projects (less than \$1 million) that may not qualify for bond funds under the terms defined by GWA's bond indenture.

Prior and Future Years Rollovers. It is anticipated that funding received in prior years will help pay for CIPs in future years. Certification of funds must occur at the beginning of the procurement process and many of the larger infrastructure projects will take two to three years to complete, from design to construction.

Debt Service and Debt Service Coverage

Revenue Bonds are a key source of funding for water and wastewater infrastructure. Debt service for FY2025-FY2029 is projected below:

Fiscal Year	Existing Debt	New Debt	Totals
FY2025	\$38,282,565	\$8,242,997	\$46,525,561

Guam Waterworks Authority
Five-Year Financial Plan, FY2025-FY2029

Fiscal Year	Existing Debt	New Debt	Totals
FY2026	38,278,065	16,485,993	54,764,058
FY2027	38,276,815	26,707,309	64,984,124
FY2028	39,542,315	36,968,625	76,470,940
FY2029	40,453,165	44,635,627	84,635,627

The anticipated savings from the refunding scheduled in 2024 have been applied to the existing debt totals. Forecasted new debt service reflects a number of key assumptions regarding the structure and terms of GWA's revenue bond offerings. These issues are scheduled in FY 2025, FY 2027, and FY 2027 in par amounts of \$250 million, \$310 million, and \$220 million, respectively. Each 30-year, fixed rate issue is structured with levelized debt service payments (except that the initial year is 50 percent of the annual payment amount - a half-year convention).

Mindful that GWA's credit rating (and thereby future cost of capital) will be significantly impacted by debt service coverage and liquidity metrics, GWA's financial plan contemplates a gradual return of coverage levels (that also enable IFCIP spending) from the 1.3x level permitted temporarily by the PUC's most recent Orders to 1.5x achieved prior to the pandemic and in compliance with CCU and PUC policy. Given the magnitude of GWA's capital program and prospective reliance on debt financing, debt service coverage is, and will continue to be, a principal driver of rate increase requirements (and credit ratings). GWA's financial plan provides for a steady return to coverage levels consistent with investment grade credits, and use of coverage dollars to current revenue fund capital provides for balancing, to the extent practicable, of GWA's capital structure (e.g., debt/equity ratio).

Summary and Conclusions

GWA is acutely aware of the potential impacts on customers of its Five-Year Financial Plan and does not seek the requested rate relief lightly. It is simply required to restore GWA's financial integrity, deliver life essential services and fund needed investment / reinvestment in our water and sewer systems. We hope to secure approvals of several measures through separate petitions (e.g., TECP (Tax Exempt Commercial Paper) financing, Customer Assistance Program funding, self-insurance) that may mitigate these impacts without simply deferring rate increases and expenses to a later, more expensive, day.

ATTACHMENT B

Historical and Forecasted Operating Results, Proposed Rates

	Historical Year	Current Year	Forecast Year	Forecast Year	Forecast Year	Forecast Year	Forecast Year
	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Non-Lifeline Rate Increase	5.5%	16.7%	29.0%	12.5%	10.0%	10.0%	10.0%
Lifeline Rate Increase	0.0%	16.7%	0.0%	12.5%	0.0%	0.0%	0.0%
CASH SOURCES							
Water Service Revenues	69,672,862	79,688,942	99,819,447	112,310,275	123,419,168	135,679,564	149,279,940
Legislative Surcharge	2,147,271	2,798,810	3,285,020	3,381,323	3,503,935	3,872,428	4,281,117
Water SDC Revenues							
Water Rate Revenues	\$ 71,820,133	\$ 82,487,752	\$ 103,104,467	\$ 115,691,598	\$ 126,923,103	\$ 139,551,992	\$ 153,561,057
Wastewater Rate Revenues	37,478,560	43,590,855	52,669,507	59,711,229	65,178,108	71,378,389	78,326,297
Other Revenues	567,167	515,000	515,000	515,000	515,000	515,000	515,000
Rate Revenue Adjustment	(3,044,250)	(1,760,284)	(2,270,766)	(2,554,612)	(2,810,073)	(3,091,081)	(3,400,189)
Bad Debt Adjustment	(421,467)	(2,262,236)	(3,067,628)	(3,449,987)	(3,771,973)	(4,134,629)	(4,537,933)
Total Operating Revenues¹	\$ 106,400,142	\$ 122,571,087	\$ 150,950,580	\$ 169,913,227	\$ 186,034,165	\$ 204,219,672	\$ 224,464,232
Interest / Investment Income	1,972,141	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Rate Stabilization Transfers Out (In) ²	18,050,000	-	-	(2,500,000)	(2,500,000)	(2,500,000)	(2,500,000)
TOTAL SOURCES	\$ 126,422,283	\$ 123,571,087	\$ 151,950,580	\$ 168,413,227	\$ 184,534,165	\$ 202,719,672	\$ 222,964,232
CASH USES							
Power Purchases ³	24,397,961	21,843,028	25,665,944	23,868,000	23,868,000	23,868,000	23,868,000
Water Purchases	7,038,954	5,900,000	6,515,000	6,251,000	6,207,000	5,756,000	5,756,000
Salaries & Benefits ⁴	27,272,268	29,705,247	33,886,181	35,953,228	37,330,583	38,924,275	40,547,721
Admin & General ⁵	9,023,292	9,687,858	13,466,252	14,223,571	14,799,682	15,404,665	16,040,346
Contractual Expense	5,575,264	7,464,494	9,716,803	10,249,511	10,556,997	10,380,899	10,692,326
Retiree Expense	3,560,495	3,755,617	4,495,403	4,623,703	4,759,489	4,902,860	5,053,931
O&M Subtotal	\$ 76,868,234	\$ 78,356,244	\$ 93,745,582	\$ 95,169,013	\$ 97,521,750	\$ 99,236,699	\$ 101,958,324
Debt Service	39,036,678	38,762,231	46,525,561	54,764,058	64,984,124	76,470,940	84,635,627
Internally Funded Capital (IFCIP)	2,836,370	8,784,879	15,000,000	20,000,000	20,000,000	25,000,000	35,000,000
TOTAL USES	\$ 118,741,281	\$ 125,903,354	\$ 155,271,144	\$ 169,933,072	\$ 182,505,875	\$ 200,707,639	\$ 221,593,952
Net Annual Cash Flow	\$ 7,681,002	\$ (2,332,267)	\$ (3,320,564)	\$ (1,519,844)	\$ 2,028,290	\$ 2,012,032	\$ 1,370,281
DEBT SERVICE COVERAGE							
Net Revenues	\$ 49,554,049	\$ 45,214,843	\$ 58,204,998	\$ 73,244,214	\$ 87,012,415	\$ 103,482,973	\$ 121,005,908
Adjustment, Capitalized Labor	3,075,928	4,159,140	4,405,203	4,673,920	4,852,976	5,060,156	5,271,204
Adjustment, Other ⁶	673,200	715,649	701,500	708,515	715,600	722,756	729,984
Revenues Available for Debt Service	\$ 53,303,177	\$ 50,089,632	\$ 63,311,701	\$ 78,626,649	\$ 92,580,991	\$ 109,265,885	\$ 127,007,095
Total Debt Service	39,036,678	38,762,231	46,525,561	54,764,058	64,984,124	76,470,940	84,635,627
Debt Service Coverage	1.365	1.292	1.361	1.436	1.425	1.429	1.501
Additional Revenue Requirement							
Annual INCREMENTAL revenues needed to meet DSC target of 1.5x			\$ 6,476,641	\$ (2,957,202)	\$ 1,375,757	\$ 545,330	\$ (5,440,526)
Forecasted EOY operating reserves			\$ 39,413,279	\$ 37,893,435	\$ 39,921,725	\$ 41,933,758	\$ 43,304,038
Minimum reserve requirement, 120 days			\$ 30,820,465	\$ 31,288,443	\$ 32,061,945	\$ 32,625,764	\$ 33,520,545
Total Additional Revenues Needed			\$ 6,476,641	\$ 3,519,439	\$ 4,895,196	\$ 5,440,526	\$ -
Days O&M, EOY Operating Reserves			153	145	149	154	155
OTHER INFORMATION							
SDC Revenues	1,359,167	1,165,000	1,165,000	1,165,000	1,165,000	1,165,000	1,165,000
Depreciation	30,768,912	28,817,076	29,166,924	29,738,571	30,493,808	31,248,890	32,100,460
Net Operating Income	\$ 3,198,092	\$ 20,721,907	\$ 33,608,277	\$ 50,844,563	\$ 64,036,583	\$ 79,959,238	\$ 96,841,651
Non-Operating Revenues (Expenses)	23,907,738	6,195,000	6,195,000	6,195,000	6,195,000	6,195,000	6,195,000
Interest Expense	(28,671,774)	(28,282,065)	(27,735,778)	(27,161,815)	(26,568,065)	(25,944,565)	(25,255,165)
Capital Contributions	13,120,737	27,000,000	27,000,000	27,000,000	27,000,000	4,000,000	4,000,000
Change in Net Position	\$ 11,554,793	\$ 25,634,842	\$ 39,067,500	\$ 56,877,748	\$ 70,663,518	\$ 64,209,673	\$ 81,781,486

1 - Includes leachate and Navy revenues; excludes system development charge revenues
 2 - FY 2023 value includes \$12.4 million of ARPA funds which was used to offset debt service coverage requirements
 3 - Operational efficiencies related to Ukudu treatment plant are reflected in FY 2026 and beyond
 4 - Capitalized labor, which does not represent a cash impact, is not included in this calculation of annual net cash flow
 5 - Excludes bad debt expense since this line item is included as an offset to rate revenues (per audited financials)
 6 - Includes retiree COLA and end-of-year pension and OPEB adjustments

ATTACHMENT C

Rate Application Schedules <i>A list of schedules to meet the PUC's minimum filing requirements</i>		
Schedule	Title	Description
A-1	Historical and Forecasted Operating Results, Existing Rates	Pro forma that forecasts revenues, O&M, and debt service; debt service coverage and cash balances; and other financial metrics under existing rates
A-2	Historical and Forecasted Operating Results, Proposed Rates	Pro forma that forecasts revenues, O&M, and debt service; debt service coverage and cash balances; and other financial metrics under proposed rates
B-1	Rate Revenues and Billing Determinants by Class, Forecast Year #1	Presents customer accounts, billed volumes, and rate revenue by component by customer class for the water and wastewater systems for FY 2025
B-2	Rate Revenues and Billing Determinants by Class, Forecast Year #2	Presents customer accounts, billed volumes, and rate revenue by component by customer class for the water and wastewater systems for FY 2026
B-3	Rate Revenues and Billing Determinants by Class, Forecast Year #3	Presents customer accounts, billed volumes, and rate revenue by component by customer class for the water and wastewater systems for FY 2027
B-4	Rate Revenues and Billing Determinants by Class, Forecast Year #4	Presents customer accounts, billed volumes, and rate revenue by component by customer class for the water and wastewater systems for FY 2028
B-5	Rate Revenues and Billing Determinants by Class, Forecast Year #5	Presents customer accounts, billed volumes, and rate revenue by component by customer class for the water and wastewater systems for FY 2029
C-1	Operating Expenses by Major Cost Category	Forecasts of O&M expense by major cost category on a cash basis; includes adjustments to present O&M comparable to GWA's typical budget request
C-2	Budgeted Operating Expense by Object Class	Forecasts of budgeted O&M expense by object class
D	Navy Water Purchases	Detail related to the forecast for GWA's anticipated water purchases (volume and corresponding rate)
E	Sources and Uses of Funds, Capital Improvement Program	Annual CIP encumbrance requirements by project category and matching sources of funds, in nominal terms, across the rate application period
F	Debt Service and Other Financing Charges	Outlines existing debt service obligations, anticipated refunding savings and capitalized interest credits (if relevant), and debt service for new bonds
G-1	Internally Funded Capital Improvement Projects (IFCIP)	Identifies capital projects that GWA may fund with IFCIP transfers (i.e. net operating revenues of the system)
G-2	Externally Funded Capital Improvement Projects (Grants)	Identifies capital projects that GWA may fund with grants from various government agencies
H	Other Revenues, Interest Revenues & Revenue Adjustments	Delineates other revenues by category from both historical and forecast perspective; interest revenues and revenue adjustments are outlined
I	Other Cash Flow Items	Presents historical and forecasted use of, or contributions to, rate stabilization fund reserves; shows receipt of ARPA funds (if relevant)
J-1W	Proof of Water System Revenues, Forecast Year #1	Demonstrates proof of rate revenue forecast by identifying billing determinants and forecasted rate components for the water system, FY 2025
J-2W	Proof of Water System Revenues, Forecast Year #2	Demonstrates proof of rate revenue forecast by identifying billing determinants and forecasted rate components for the water system, FY 2026
J-3W	Proof of Water System Revenues, Forecast Year #3	Demonstrates proof of rate revenue forecast by identifying billing determinants and forecasted rate components for the water system, FY 2027
J-4W	Proof of Water System Revenues, Forecast Year #4	Demonstrates proof of rate revenue forecast by identifying billing determinants and forecasted rate components for the water system, FY 2028
J-5W	Proof of Water System Revenues, Forecast Year #5	Demonstrates proof of rate revenue forecast by identifying billing determinants and forecasted rate components for the water system, FY 2029
J-1WW	Proof of Wastewater System Revenues, Forecast Year #1	Demonstrates proof of rate revenue forecast by identifying billing determinants and forecasted rate components for the wastewater system, FY 2025
J-2WW	Proof of Wastewater System Revenues, Forecast Year #2	Demonstrates proof of rate revenue forecast by identifying billing determinants and forecasted rate components for the wastewater system, FY 2026
J-3WW	Proof of Wastewater System Revenues, Forecast Year #3	Demonstrates proof of rate revenue forecast by identifying billing determinants and forecasted rate components for the wastewater system, FY 2027
J-4WW	Proof of Wastewater System Revenues, Forecast Year #4	Demonstrates proof of rate revenue forecast by identifying billing determinants and forecasted rate components for the wastewater system, FY 2028
J-5WW	Proof of Wastewater System Revenues, Forecast Year #5	Demonstrates proof of rate revenue forecast by identifying billing determinants and forecasted rate components for the wastewater system, FY 2029
K	Proposed Rate Adjustments	Presents proposed rates by component (base charge vs. volumetric) for all meter sizes and rate tiers, by customer class
L	Monthly Bill Impacts by Customer Class	Calculates monthly bill impacts in both nominal and percentage terms for each year of the rate application period for various customer classes

Schedule A-1

Historical and Forecasted Operating Results, Existing Rates

	Historical Year	Current Year	Forecast Year	Forecast Year	Forecast Year	Forecast Year	Forecast Year
	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Non-Lifeline Rate Increase	5.5%	16.7%	0.0%	0.0%	0.0%	0.0%	0.0%
Lifeline Rate Increase	0.0%	16.7%	0.0%	0.0%	0.0%	0.0%	0.0%
CASH SOURCES							
Water Rate Revenues	\$ 71,820,133	\$ 82,487,752	\$ 83,010,283	\$ 83,560,482	\$ 84,238,894	\$ 85,076,784	\$ 85,949,683
Wastewater Rate Revenues	37,478,560	43,590,855	44,232,920	44,900,370	45,643,195	46,469,033	47,328,130
Other Revenues	567,167	515,000	515,000	515,000	515,000	515,000	515,000
Rate Revenue Adjustment	(3,044,250)	(1,760,284)	(1,760,284)	(1,760,284)	(1,760,284)	(1,760,284)	(1,760,284)
Bad Debt Adjustment	(421,467)	(2,262,236)	(2,515,285)	(2,538,045)	(2,564,884)	(2,596,434)	(2,629,354)
Total Operating Revenues¹	\$ 106,400,142	\$ 122,571,087	\$ 123,482,634	\$ 124,677,523	\$ 126,071,921	\$ 127,704,100	\$ 129,403,175
Interest / Investment Income	1,972,141	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Rate Stabilization Transfers Out (In) ²	18,050,000	-	-	(2,500,000)	(2,500,000)	(2,500,000)	(2,500,000)
TOTAL SOURCES	\$ 126,422,283	\$ 123,571,087	\$ 124,482,634	\$ 123,177,523	\$ 124,571,921	\$ 126,204,100	\$ 127,903,175
CASH USES							
Power Purchases ³	24,397,961	21,843,028	25,665,944	23,868,000	23,868,000	23,868,000	23,868,000
Water Purchases	7,038,954	5,900,000	6,515,000	6,251,000	6,207,000	5,756,000	5,756,000
Salaries & Benefits ⁴	27,272,268	29,705,247	33,886,181	35,953,228	37,330,583	38,924,275	40,547,721
Admin & General ⁵	9,023,292	9,687,858	13,466,252	14,223,571	14,799,682	15,404,665	16,040,346
Contractual Expense	5,575,264	7,464,494	9,716,803	10,249,511	10,556,997	10,380,899	10,692,326
Retiree Expense	3,560,495	3,755,617	4,495,403	4,623,703	4,759,489	4,902,860	5,053,931
O&M Subtotal	\$ 76,868,234	\$ 78,356,244	\$ 93,745,582	\$ 95,169,013	\$ 97,521,750	\$ 99,236,699	\$ 101,958,324
Debt Service	39,036,678	38,762,231	46,525,561	54,764,058	64,984,124	76,470,940	84,635,627
Internally Funded Capital (IFCIP)	2,836,370	8,784,879	15,000,000	20,000,000	20,000,000	25,000,000	35,000,000
TOTAL USES	\$ 118,741,281	\$ 125,903,354	\$ 155,271,144	\$ 169,933,072	\$ 182,505,875	\$ 200,707,639	\$ 221,593,952
Net Annual Cash Flow	\$ 7,681,002	\$ (2,332,267)	\$ (30,788,509)	\$ (46,755,548)	\$ (57,933,954)	\$ (74,503,540)	\$ (93,690,777)
DEBT SERVICE COVERAGE							
Net Revenues	\$ 49,554,049	\$ 45,214,843	\$ 30,737,052	\$ 28,008,510	\$ 27,050,171	\$ 26,967,400	\$ 25,944,851
Adjustment, Capitalized Labor	3,075,928	4,159,140	4,405,203	4,673,920	4,852,976	5,060,156	5,271,204
Adjustment, Other ⁶	673,200	715,649	701,500	708,515	715,600	722,756	729,984
Revenues Available for Debt Service	\$ 53,303,177	\$ 50,089,632	\$ 35,843,755	\$ 33,390,945	\$ 32,618,747	\$ 32,750,312	\$ 31,946,038
Total Debt Service	\$ 39,036,678	\$ 38,762,231	\$ 46,525,561	\$ 54,764,058	\$ 64,984,124	\$ 76,470,940	\$ 84,635,627
Debt Service Coverage	1.365	1.292	0.770	0.610	0.502	0.428	0.377
Additional Revenue Requirement							
Annual INCREMENTAL revenues needed to meet DSC target of 1.5x			\$ 33,944,587	\$ 14,810,556	\$ 16,102,297	\$ 17,098,659	\$ 13,051,305
Forecasted EOY operating reserves			\$ 11,945,334	\$ (34,810,215)	\$ (92,744,168)	\$ (167,247,708)	\$ (260,938,485)
Minimum reserve requirement, 120 days			\$ 30,820,465	\$ 31,288,443	\$ 32,061,945	\$ 32,625,764	\$ 33,520,545
Total Additional Revenues Needed			\$ 33,944,587	\$ 48,755,143	\$ 64,857,440	\$ 81,956,099	\$ 95,007,404
Days O&M, EOY Operating Reserves			46	(133)	(347)	(615)	(934)
OTHER INFORMATION							
SDC Revenues	1,359,167	1,165,000	1,165,000	1,165,000	1,165,000	1,165,000	1,165,000
Depreciation	30,768,912	28,817,076	29,166,924	29,738,571	30,493,808	31,248,890	32,100,460
Net Operating Income	\$ 3,198,092	\$ 20,721,907	\$ 6,140,331	\$ 5,608,859	\$ 4,074,339	\$ 3,443,666	\$ 1,780,594
Non-Operating Revenues (Expenses)	23,907,738	6,195,000	6,195,000	6,195,000	6,195,000	6,195,000	6,195,000
Interest Expense	(28,671,774)	(28,282,065)	(27,735,778)	(27,161,815)	(26,568,065)	(25,944,565)	(25,255,165)
Capital Contributions	13,120,737	27,000,000	27,000,000	27,000,000	27,000,000	4,000,000	4,000,000
Change in Net Position	\$ 11,554,793	\$ 25,634,842	\$ 11,599,554	\$ 11,642,044	\$ 10,701,274	\$ (12,305,899)	\$ (13,279,571)

1 - Includes leachate and Navy revenues; excludes system development charge revenues

2 - FY 2023 value includes \$12.4 million of ARPA funds which was used to offset debt service coverage requirements

3 - Operational efficiencies related to Ukudu treatment plant are reflected in FY 2026 and beyond

4 - Capitalized labor, which does not represent a cash impact, is not included in this calculation of annual net cash flow

5 - Excludes bad debt expense since this line item is included as an offset to rate revenues (per audited financials)

6 - Includes retiree COLA and end-of-year pension and OPEB adjustments

Schedule A-2

Historical and Forecasted Operating Results, Proposed Rates

	Historical Year	Current Year	Forecast Year	Forecast Year	Forecast Year	Forecast Year	Forecast Year
	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Non-Lifeline Rate Increase	5.5%	16.7%	29.0%	12.5%	10.0%	10.0%	10.0%
Lifeline Rate Increase	0.0%	16.7%	0.0%	12.5%	0.0%	0.0%	0.0%
CASH SOURCES							
Water Service Revenues	69,672,862	79,688,942	99,819,447	112,310,275	123,419,168	135,679,564	149,279,940
Legislative Surcharge	2,147,271	2,798,810	3,285,020	3,381,323	3,503,935	3,872,428	4,281,117
Water SDC Revenues							
Water Rate Revenues	\$ 71,820,133	\$ 82,487,752	\$ 103,104,467	\$ 115,691,598	\$ 126,923,103	\$ 139,551,992	\$ 153,561,057
Wastewater Rate Revenues	37,478,560	43,590,855	52,669,507	59,711,229	65,178,108	71,378,389	78,326,297
Other Revenues	567,167	515,000	515,000	515,000	515,000	515,000	515,000
Rate Revenue Adjustment	(3,044,250)	(1,760,284)	(2,270,766)	(2,554,612)	(2,810,073)	(3,091,081)	(3,400,189)
Bad Debt Adjustment	(421,467)	(2,262,236)	(3,067,628)	(3,449,987)	(3,771,973)	(4,134,629)	(4,537,933)
Total Operating Revenues¹	\$ 106,400,142	\$ 122,571,087	\$ 150,950,580	\$ 169,913,227	\$ 186,034,165	\$ 204,219,672	\$ 224,464,232
Interest / Investment Income	1,972,141	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Rate Stabilization Transfers Out (In) ²	18,050,000	-	-	(2,500,000)	(2,500,000)	(2,500,000)	(2,500,000)
TOTAL SOURCES	\$ 126,422,283	\$ 123,571,087	\$ 151,950,580	\$ 168,413,227	\$ 184,534,165	\$ 202,719,672	\$ 222,964,232
CASH USES							
Power Purchases ³	24,397,961	21,843,028	25,665,944	23,868,000	23,868,000	23,868,000	23,868,000
Water Purchases	7,038,954	5,900,000	6,515,000	6,251,000	6,207,000	5,756,000	5,756,000
Salaries & Benefits ⁴	27,272,268	29,705,247	33,886,181	35,953,228	37,330,583	38,924,275	40,547,721
Admin & General ⁵	9,023,292	9,687,858	13,466,252	14,223,571	14,799,682	15,404,665	16,040,346
Contractual Expense	5,575,264	7,464,494	9,716,803	10,249,511	10,556,997	10,380,899	10,692,326
Retiree Expense	3,560,495	3,755,617	4,495,403	4,623,703	4,759,489	4,902,860	5,053,931
O&M Subtotal	\$ 76,868,234	\$ 78,356,244	\$ 93,745,582	\$ 95,169,013	\$ 97,521,750	\$ 99,236,699	\$ 101,958,324
Debt Service	39,036,678	38,762,231	46,525,561	54,764,058	64,984,124	76,470,940	84,635,627
Internally Funded Capital (IFCIP)	2,836,370	8,784,879	15,000,000	20,000,000	20,000,000	25,000,000	35,000,000
TOTAL USES	\$ 118,741,281	\$ 125,903,354	\$ 155,271,144	\$ 169,933,072	\$ 182,505,875	\$ 200,707,639	\$ 221,593,952
Net Annual Cash Flow	\$ 7,681,002	\$ (2,332,267)	\$ (3,320,564)	\$ (1,519,844)	\$ 2,028,290	\$ 2,012,032	\$ 1,370,281
DEBT SERVICE COVERAGE							
Net Revenues	\$ 49,554,049	\$ 45,214,843	\$ 58,204,998	\$ 73,244,214	\$ 87,012,415	\$ 103,482,973	\$ 121,005,908
Adjustment, Capitalized Labor	3,075,928	4,159,140	4,405,203	4,673,920	4,852,976	5,060,156	5,271,204
Adjustment, Other ⁶	673,200	715,649	701,500	708,515	715,600	722,756	729,984
Revenues Available for Debt Service	\$ 53,303,177	\$ 50,089,632	\$ 63,311,701	\$ 78,626,649	\$ 92,580,991	\$ 109,265,885	\$ 127,007,095
Total Debt Service	39,036,678	38,762,231	46,525,561	54,764,058	64,984,124	76,470,940	84,635,627
Debt Service Coverage	1.365	1.292	1.361	1.436	1.425	1.429	1.501
Additional Revenue Requirement							
Annual INCREMENTAL revenues needed to meet DSC target of 1.5x			\$ 6,476,641	\$ (2,957,202)	\$ 1,375,757	\$ 545,330	\$ (5,440,526)
Forecasted EOY operating reserves			\$ 39,413,279	\$ 37,893,435	\$ 39,921,725	\$ 41,933,758	\$ 43,304,038
Minimum reserve requirement, 120 days			\$ 30,820,465	\$ 31,288,443	\$ 32,061,945	\$ 32,625,764	\$ 33,520,545
Total Additional Revenues Needed			\$ 6,476,641	\$ 3,519,439	\$ 4,895,196	\$ 5,440,526	\$ -
Days O&M, EOY Operating Reserves			153	145	149	154	155
OTHER INFORMATION							
SDC Revenues	1,359,167	1,165,000	1,165,000	1,165,000	1,165,000	1,165,000	1,165,000
Depreciation	30,768,912	28,817,076	29,166,924	29,738,571	30,493,808	31,248,890	32,100,460
Net Operating Income	\$ 3,198,092	\$ 20,721,907	\$ 33,608,277	\$ 50,844,563	\$ 64,036,583	\$ 79,959,238	\$ 96,841,651
Non-Operating Revenues (Expenses)	23,907,738	6,195,000	6,195,000	6,195,000	6,195,000	6,195,000	6,195,000
Interest Expense	(28,671,774)	(28,282,065)	(27,735,778)	(27,161,815)	(26,568,065)	(25,944,565)	(25,255,165)
Capital Contributions	13,120,737	27,000,000	27,000,000	27,000,000	27,000,000	4,000,000	4,000,000
Change in Net Position	\$ 11,554,793	\$ 25,634,842	\$ 39,067,500	\$ 56,877,748	\$ 70,663,518	\$ 64,209,673	\$ 81,781,486

1 - Includes leachate and Navy revenues; excludes system development charge revenues
 2 - FY 2023 value includes \$12.4 million of ARPA funds which was used to offset debt service coverage requirements
 3 - Operational efficiencies related to Ukudu treatment plant are reflected in FY 2026 and beyond
 4 - Capitalized labor, which does not represent a cash impact, is not included in this calculation of annual net cash flow
 5 - Excludes bad debt expense since this line item is included as an offset to rate revenues (per audited financials)
 6 - Includes retiree COLA and end-of-year pension and OPEB adjustments

Schedule B-1

Rate Revenues and Billing Determinants by Class, Forecast Year #1

FY 2025	Customer Accounts¹	Volume (kgals)²	Base Charge Revenues	Volume Revenues	Surcharge Revenues	Total Revenues
Water System						
Residential	40,530	1,701,052	\$ 19,385,243	\$ 5,961,735	\$ 678,484	\$ 26,025,462
Residential (lifeline)		1,472,552		27,657,157	968,000	28,625,158
Commercial 1+	2,456	600,252	1,684,099	14,012,832	549,393	16,246,323
Commercial 2-	22	54,840	50,146	1,280,225	46,563	1,376,933
Commercial 3	282	127,408	209,435	2,974,326	111,432	3,295,192
Hotels	54	573,258	183,243	13,382,675	474,807	14,040,725
Government	362	514,378	456,760	12,008,119	436,271	12,901,150
Agriculture	325	47,721	164,212	357,850	18,272	540,335
Irrigation	33	3,727	22,473	28,918	1,799	53,190
Subtotal, Billed Revenues	44,064	5,095,188	\$ 22,155,610	\$ 77,663,837	\$ 3,285,020	\$ 103,104,467
Adjustments ³						(1,502,986)
Water Revenues						\$ 101,601,481
Wastewater System						
Residential ⁴	28,623	-	\$ 11,022,760	\$ -	\$ -	\$ 11,022,760
Commercial 1+	1,925	371,410	-	4,780,290	167,310	4,947,600
Commercial 2-	19	43,727	-	1,370,972	47,984	1,418,956
Commercial 3	271	98,611	-	4,287,069	150,047	4,437,116
Hotels	50	376,799	-	11,813,757	413,481	12,227,238
Government	263	384,591	-	7,077,386	247,709	7,325,095
Leachate	2	30,000	-	569,700	19,940	589,640
Navy		561,000	-	10,339,230	361,873	10,701,103
Subtotal, Billed Revenues	31,153	1,866,138	\$ 11,022,760	\$ 40,238,404	\$ 1,408,344	\$ 52,669,507
Adjustments ³						(767,780)
Wastewater Revenues						\$ 51,901,727
System Rate Revenues						\$ 153,503,208

1 - Average number of customers billed monthly during the fiscal year

2 - The government customer class excludes consumption attributed to GWA (i.e., non-revenue accounts)

3 - Forecasted revenue adjustments applied proportionately to water and wastewater revenues

4 - Residential accounts include the number of multi-family units that receive the residential base charge

Schedule B-2

Rate Revenues and Billing Determinants by Class, Forecast Year #2

FY 2026	Customer Accounts¹	Volume (kgals)²	Base Charge Revenues	Volume Revenues	Surcharge Revenues	Total Revenues
Water System						
Residential	40,727	1,684,535	\$ 21,914,262	\$ 6,643,931	\$ 701,256	\$ 29,259,449
Residential (lifeline)		1,458,254		30,824,926	986,398	31,811,324
Commercial 1+	2,462	591,639	1,897,897	15,542,679	558,098	17,998,674
Commercial 2-	22	52,413	56,415	1,376,914	45,867	1,479,196
Commercial 3	282	125,592	235,624	3,299,375	113,120	3,648,120
Hotels	54	593,752	206,153	15,598,190	505,739	16,310,081
Government	363	516,186	514,402	13,560,478	450,396	14,525,276
Agriculture	325	47,041	184,741	396,904	18,613	600,257
Irrigation	33	3,674	25,283	32,101	1,836	59,221
Subtotal, Billed Revenues	44,268	5,073,086	\$ 25,034,777	\$ 87,275,498	\$ 3,381,323	\$ 115,691,598
Adjustments ³						(1,684,962)
Water Revenues						\$ 114,006,635
Wastewater System						
Residential ⁴	28,720	-	\$ 12,443,489	\$ -	\$ -	\$ 12,443,489
Commercial 1+	1,932	366,081	-	5,303,864	169,724	5,473,587
Commercial 2-	19	41,792	-	1,474,304	47,178	1,521,482
Commercial 3	271	97,205	-	4,754,953	152,159	4,907,112
Hotels	50	390,270	-	13,767,559	440,562	14,208,121
Government	263	385,943	-	7,992,451	255,758	8,248,209
Leachate	2	30,000	-	641,100	20,515	661,615
Navy		572,220	-	11,867,843	379,771	12,247,614
Subtotal, Billed Revenues	31,257	1,883,511	\$ 12,443,489	\$ 45,802,073	\$ 1,465,666	\$ 59,711,229
Adjustments ³						(869,650)
Wastewater Revenues						\$ 58,841,579
System Rate Revenues						\$ 172,848,214

1 - Average number of customers billed monthly during the fiscal year

2 - The government customer class excludes consumption attributed to GWA (i.e., non-revenue accounts)

3 - Forecasted revenue adjustments applied proportionately to water and wastewater revenues

4 - Residential accounts include the number of multi-family units that receive the residential base charge

Schedule B-3

Rate Revenues and Billing Determinants by Class, Forecast Year #3

FY 2027	Customer Accounts¹	Volume (kgals)²	Base Charge Revenues	Volume Revenues	Surcharge Revenues	Total Revenues
Water System						
Residential	40,926	1,678,804	\$ 24,224,883	\$ 6,621,327	\$ 726,746	\$ 31,572,957
Residential (lifeline)		1,453,293		33,796,415	1,013,892	34,810,308
Commercial 1+	2,467	585,134	2,090,774	16,914,215	570,150	19,575,139
Commercial 2-	22	50,290	62,058	1,453,716	45,473	1,561,247
Commercial 3	282	124,274	259,205	3,592,322	115,546	3,967,073
Hotels	54	617,205	226,771	17,841,297	542,042	18,610,110
Government	365	521,365	567,037	15,070,890	469,138	16,107,065
Agriculture	325	46,547	203,242	432,242	19,065	654,549
Irrigation	33	3,636	27,814	34,959	1,883	64,656
Subtotal, Billed Revenues	44,474	5,080,548	\$ 27,661,785	\$ 95,757,383	\$ 3,503,935	\$ 126,923,103
Adjustments ³						(1,856,642)
Water Revenues						\$ 125,066,461
Wastewater System						
Residential ⁴	28,818	-	\$ 12,485,950	\$ -	\$ -	\$ 12,485,950
Commercial 1+	1,938	362,055	-	5,773,353	173,201	5,946,554
Commercial 2-	19	40,100	-	1,556,334	46,690	1,603,024
Commercial 3	271	96,185	-	5,175,625	155,269	5,330,894
Hotels	50	405,686	-	15,745,351	472,361	16,217,712
Government	263	389,816	-	8,882,251	266,468	9,148,718
Leachate	2	30,000	-	705,300	21,159	726,459
Navy		583,664	-	13,319,222	399,577	13,718,798
Subtotal, Billed Revenues	31,361	1,907,506	\$ 12,485,950	\$ 51,157,436	\$ 1,534,723	\$ 65,178,108
Adjustments ³						(953,431)
Wastewater Revenues						\$ 64,224,677
System Rate Revenues						\$ 189,291,138

1 - Average number of customers billed monthly during the fiscal year

2 - The government customer class excludes consumption attributed to GWA (i.e., non-revenue accounts)

3 - Forecasted revenue adjustments applied proportionately to water and wastewater revenues

4 - Residential accounts include the number of multi-family units that receive the residential base charge

Schedule B-4

Rate Revenues and Billing Determinants by Class, Forecast Year #4

FY 2028	Customer Accounts¹	Volume (kgals)²	Base Charge Revenues	Volume Revenues	Surcharge Revenues	Total Revenues
Water System						
Residential	41,125	1,673,053	\$ 26,775,787	\$ 6,598,645	\$ 803,274	\$ 34,177,706
Residential (lifeline)		1,448,314		37,050,150	1,111,505	38,161,655
Commercial 1+	2,473	578,932	2,303,775	18,411,317	621,453	21,336,544
Commercial 2-	22	48,253	68,265	1,534,565	48,085	1,650,915
Commercial 3	282	122,969	285,133	3,910,677	125,874	4,321,684
Hotels	54	641,585	249,452	20,403,834	619,599	21,272,885
Government	366	525,146	624,400	16,700,825	519,757	17,844,981
Agriculture	325	46,059	223,594	470,474	20,822	714,890
Irrigation	33	3,597	30,596	38,076	2,060	70,732
Subtotal, Billed Revenues	44,680	5,087,908	\$ 30,561,002	\$ 105,118,562	\$ 3,872,428	\$ 139,551,992
Adjustments ³						(2,045,066)
Water Revenues						\$ 137,506,926
Wastewater System						
Residential ⁴	28,917	-	\$ 12,528,843	\$ -	\$ -	\$ 12,528,843
Commercial 1+	1,945	358,218	-	6,284,447	188,533	6,472,980
Commercial 2-	19	38,476	-	1,642,748	49,282	1,692,031
Commercial 3	271	95,175	-	5,633,504	169,005	5,802,509
Hotels	50	421,710	-	18,005,285	540,159	18,545,443
Government	263	392,643	-	9,844,468	295,334	10,139,802
Leachate	2	30,000	-	776,100	23,283	799,383
Navy		595,338	-	14,948,929	448,468	15,397,397
Subtotal, Billed Revenues	31,467	1,931,559	\$ 12,528,843	\$ 57,135,482	\$ 1,714,064	\$ 71,378,389
Adjustments ³						(1,046,015)
Wastewater Revenues						\$ 70,332,374
System Rate Revenues						\$ 207,839,301

1 - Average number of customers billed monthly during the fiscal year

2 - The government customer class excludes consumption attributed to GWA (i.e., non-revenue accounts)

3 - Forecasted revenue adjustments applied proportionately to water and wastewater revenues

4 - Residential accounts include the number of multi-family units that receive the residential base charge

Schedule B-5

Rate Revenues and Billing Determinants by Class, Forecast Year #5

FY 2029	Customer Accounts¹	Volume (kgals)²	Base Charge Revenues	Volume Revenues	Surcharge Revenues	Total Revenues
Water System						
Residential	41,325	1,667,323	\$ 29,595,776	\$ 6,576,045	\$ 887,873	\$ 37,059,695
Residential (lifeline)		1,443,354		40,627,113	1,218,813	41,845,926
Commercial 1+	2,479	572,792	2,538,490	20,040,524	677,370	23,256,384
Commercial 2-	22	46,299	75,093	1,619,888	50,849	1,745,830
Commercial 3	282	121,677	313,657	4,257,183	137,125	4,707,966
Hotels	54	666,928	274,400	23,334,094	708,255	24,316,748
Government	367	528,951	687,564	18,506,637	575,826	19,770,027
Agriculture	325	45,575	245,969	512,406	22,751	781,126
Irrigation	33	3,560	33,657	41,444	2,253	77,354
Subtotal, Billed Revenues	44,887	5,096,458	\$ 33,764,607	\$ 115,515,333	\$ 4,281,117	\$ 153,561,057
Adjustments ³						(2,251,682)
Water Revenues						\$ 151,309,375
Wastewater System						
Residential ⁴	29,016	-	\$ 12,571,737	\$ -	\$ -	\$ 12,571,737
Commercial 1+	1,952	354,419	-	6,840,640	205,219	7,045,859
Commercial 2-	19	36,917	-	1,733,986	52,020	1,786,006
Commercial 3	271	94,176	-	6,131,976	183,959	6,315,935
Hotels	50	438,368	-	20,589,894	617,697	21,207,591
Government	263	395,487	-	10,910,920	327,328	11,238,247
Leachate	2	30,000	-	853,800	25,614	879,414
Navy		607,244	-	16,778,164	503,345	17,281,509
Subtotal, Billed Revenues	31,573	1,956,611	\$ 12,571,737	\$ 63,839,379	\$ 1,915,181	\$ 78,326,297
Adjustments ³						(1,148,507)
Wastewater Revenues						\$ 77,177,790
System Rate Revenues						\$ 228,487,165

1 - Average number of customers billed monthly during the fiscal year

2 - The government customer class excludes consumption attributed to GWA (i.e., non-revenue accounts)

3 - Forecasted revenue adjustments applied proportionately to water and wastewater revenues

4 - Residential accounts include the number of multi-family units that receive the residential base charge

Schedule C-1

Operating Expense by Major Cost Category

	<i>Historical Years</i>		<i>Current Year</i>	<i>Forecasted Years</i>				
	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Expense Category								
Power Purchases	\$ 18,577,440	\$ 24,397,961	\$ 21,843,028	\$ 25,665,944	\$ 23,868,000	\$ 23,868,000	\$ 23,868,000	\$ 23,868,000
Water Purchases	5,656,471	7,038,954	5,900,000	6,515,000	6,251,000	6,207,000	5,756,000	5,756,000
Salaries & Benefits	25,891,396	27,272,268	29,705,247	33,886,181	35,953,228	37,330,583	38,924,275	40,547,721
Admin & General	7,956,423	9,023,292	9,687,858	13,466,252	14,223,571	14,799,682	15,404,665	16,040,346
Contractual Expense	4,492,845	5,575,264	7,464,494	9,716,803	10,249,511	10,556,997	10,380,899	10,692,326
Retiree Expense	8,864,985	3,560,495	3,755,617	4,495,403	4,623,703	4,759,489	4,902,860	5,053,931
O&M Subtotal, Cash Basis	\$ 71,439,560	\$ 76,868,234	\$ 78,356,244	\$ 93,745,582	\$ 95,169,013	\$ 97,521,750	\$ 99,236,699	\$ 101,958,324
Budget Adjustments								
+ Depreciation	28,462,573	30,768,912	28,817,076	29,166,924	29,738,571	30,493,808	31,248,890	32,100,460
- Capitalized Labor ¹	(3,699,767)	(3,075,928)	(4,159,140)	(4,405,203)	(4,673,920)	(4,852,976)	(5,060,156)	(5,271,204)
+ Bad Debt Expense ²	2,028,510	421,467	2,262,236	3,067,628	3,449,987	3,771,973	4,134,629	4,537,933
Budgeted Annual O&M Subtotal	\$ 96,202,366	\$ 104,561,217	\$ 105,276,415	\$ 121,574,931	\$ 123,683,651	\$ 126,934,555	\$ 129,560,063	\$ 133,325,513

1 - Within GWA's operating budget, capitalized labor expense is credited against the Salaries & Budget line item

Schedule C-2

Budgeted Operating Expense by Object Class

	Current Year		Forecast Years			
	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Object Class						
06 Water Purchases	\$ 5,900,000	\$ 6,515,000	\$ 6,251,000	\$ 6,207,000	\$ 5,756,000	\$ 5,756,000
07 Power Purchases	21,843,028	25,665,944	23,868,000	23,868,000	23,868,000	23,868,000
08 Salaries and Wages	21,906,726	24,180,694	25,722,784	26,762,582	27,959,212	29,114,911
09 Pension and Benefits	7,798,521	9,705,486	10,230,444	10,568,001	10,965,063	11,432,810
10 Capitalized Labor and Benefits	(4,159,140)	(4,405,203)	(4,673,920)	(4,852,976)	(5,060,156)	(5,271,204)
11 Sludge removal	335,916	692,489	710,214	731,521	753,466	776,070
12 Chemicals	1,919,331	4,224,183	4,513,030	4,648,420	4,787,873	4,931,509
13 Materials & Supplies	2,484,994	2,634,093	2,792,139	2,959,667	3,137,247	3,325,482
14 Transportation	774,960	852,456	937,702	1,031,472	1,134,619	1,248,081
15 Communications	159,211	133,090	238,912	246,080	253,462	261,066
16 Claims	179,000	245,000	252,350	259,921	267,718	275,750
17 Insurance	1,936,000	1,963,000	1,963,000	2,021,890	2,082,547	2,145,023
18 Training & Travel	201,154	779,539	840,011	865,212	891,168	917,903
19 Advertising	134,385	274,867	287,117	295,730	304,602	313,740
20 Miscellaneous	1,343,906	1,439,035	1,450,621	1,494,140	1,538,964	1,585,133
21 Regulatory Expense	219,000	228,500	238,475	245,629	252,998	260,588
22 Bad Debts Provision	2,262,236	3,067,628	3,449,987	3,771,973	4,134,629	4,537,933
23 Depreciation Expense	28,817,076	29,166,924	29,738,571	30,493,808	31,248,890	32,100,460
24 Audit & Computer Maint.	1,989,257	3,077,463	3,135,008	3,229,058	3,325,930	3,425,708
25 Building rental	603,165	668,772	705,372	726,533	748,329	770,779
26 Equipment rental	561,291	695,117	753,950	776,568	799,865	823,861
27 Legal	1,500,000	1,700,000	1,700,000	1,751,000	1,803,530	1,857,636
28 Laboratory	525,950	426,255	654,055	673,677	693,887	714,704
29 Other	2,284,832	3,149,196	3,301,126	3,400,160	3,009,358	3,099,639
30 Retiree annuities & health care	3,039,968	3,793,903	3,915,188	4,043,889	4,180,103	4,323,948
31 Contribution to Govt. of Guam	715,649	701,500	708,515	715,600	722,756	729,984
O&M Subtotal	\$105,276,415	\$121,574,931	\$123,683,651	\$126,934,555	\$129,560,063	\$133,325,513

Schedule D

Navy Water Purchases

	<i>Historical</i>	<i>Current Year</i>	<i>Forecast</i>	<i>Forecast</i>	<i>Forecast</i>	<i>Forecast</i>	<i>Forecast</i>
	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Navy Contract (FENA)							
Purchased Water (Kgals)	590,939	491,132	550,000	526,000	522,000	481,000	481,000
Rate per Kgal	\$11.13	\$11.20	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00
Percent Change in Rate		0.6%	-1.8%	0.0%	0.0%	0.0%	0.0%
Water Purchase Costs	\$ 6,579,117	\$ 5,500,678	\$ 6,050,000	\$ 5,786,000	\$ 5,742,000	\$ 5,291,000	\$ 5,291,000
Other Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Water Purchases	\$ 6,579,117	\$ 5,500,678	\$ 6,050,000	\$ 5,786,000	\$ 5,742,000	\$ 5,291,000	\$ 5,291,000
Other Contract							
Purchased Sewer (Kgals)	13,567	12,709	15,000	15,000	15,000	15,000	15,000
Rate per Kgal	\$33.71	\$31.42	\$31.00	\$31.00	\$31.00	\$31.00	\$31.00
Percent Change in Rate		-6.8%	-1.3%	0.0%	0.0%	0.0%	0.0%
Sewer Purchase Costs	\$ 457,290	\$ 399,325	\$ 465,000	\$ 465,000	\$ 465,000	\$ 465,000	\$ 465,000
Total Purchases	\$ 7,036,407	\$ 5,900,003	\$ 6,515,000	\$ 6,251,000	\$ 6,207,000	\$ 5,756,000	\$ 5,756,000

Schedule E

Sources and Uses of Funds, Capital Improvement Program

	Forecast Years						
	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	TOTAL	%
Capital Program by Element							
Water Production	\$ 36,627,745	\$ 36,016,703	\$ 40,001,296	\$ 44,958,480	\$ 37,461,466	\$ 195,065,690	21.7%
Water Treatment	1,767,515	1,838,216	1,911,744	1,988,214	2,067,743	9,573,432	1.1%
Water Distribution	15,456,100	49,767,698	54,462,816	62,888,416	20,534,486	203,109,517	22.6%
Water Storage	5,660,642	3,669,633	1,581,554	1,119,207	13,900,805	25,931,842	2.9%
Water System Subtotal	\$ 59,512,002	\$ 91,292,250	\$ 97,957,411	\$ 110,954,318	\$ 73,964,500	\$ 433,680,480	
Wastewater Collection	45,055,515	63,165,723	56,863,283	57,148,000	46,148,421	268,380,943	29.9%
Wastewater Treatment	2,334,478	3,374,591	6,326,499	26,095,770	23,949,402	62,080,740	6.9%
Wastewater System Subtotal	\$ 47,389,993	\$ 66,540,315	\$ 63,189,782	\$ 83,243,770	\$ 70,097,823	\$ 330,461,683	
Electrical, Monitoring & Control	6,617,663	12,706,711	7,011,836	3,948,423	6,152,564	36,437,196	4.1%
General Plant	29,392,031	18,269,942	20,611,675	14,745,943	15,134,438	98,154,030	10.9%
Total CIP¹	\$ 142,911,688	\$ 188,809,218	\$ 188,770,704	\$ 212,892,454	\$ 165,349,325	\$ 898,733,389	100.0%

Proposed Funding Sources							
Reserves & Previous Bond Proceeds	\$ 9,905,703	\$ -	\$ -	\$ -	\$ -	\$ 9,905,703	1.0%
SRF & DOD Grants	27,000,000	27,000,000	27,000,000	4,000,000	4,000,000	89,000,000	8.9%
System Development Charge Revenues	750,000	750,000	750,000	750,000	750,000	3,750,000	0.4%
Proceeds from New Revenue Bonds	250,000,000	-	310,000,000	-	220,000,000	780,000,000	78.2%
IFCIP Transfers	15,000,000	20,000,000	20,000,000	25,000,000	35,000,000	115,000,000	11.5%
Used (Unused) Funding Sources ²	(159,744,015)	141,059,218	(168,979,296)	183,142,454	(94,400,675)	(98,922,314)	
Total Funding Sources	\$ 142,911,688	\$ 188,809,218	\$ 188,770,704	\$ 212,892,454	\$ 165,349,325	\$ 898,733,389	100.0%

1 - Estimated projects costs in nominal dollars; subject to change based on project procurement and construction market conditions

2 - Approximately \$98.9 million will remain for projects beyond FY 2029 (i.e. GWA has employed a 2-year bond sizing protocol)

Schedule F

Debt Service and Other Financing Charges

	Historical	Current	Forecast	Forecast	Forecast	Forecast	Forecast
	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Issuance							
2013 Revenue Bonds							
Principal	\$ 3,145,000	\$ 3,315,000	\$ 3,485,000	\$ 3,670,000	\$ 3,850,000	\$ 4,045,000	\$ -
Interest	1,100,363	935,250	761,213	578,250	394,750	202,250	-
Total Payment	\$ 4,245,363	\$ 4,250,250	\$ 4,246,213	\$ 4,248,250	\$ 4,244,750	\$ 4,247,250	\$ -
2014 Refunding Revenue Bonds							
Principal	\$ 4,005,000	\$ 4,205,000	\$ 4,410,000	\$ 4,630,000	\$ 4,865,000	\$ 5,110,000	\$ 5,365,000
Interest	3,202,750	3,002,500	2,792,250	2,571,750	2,340,250	2,097,000	1,841,500
Total Payment	\$ 7,207,750	\$ 7,207,500	\$ 7,202,250	\$ 7,201,750	\$ 7,205,250	\$ 7,207,000	\$ 7,206,500
2016 Revenue Bonds							
Principal	\$ 835,000	\$ 875,000	\$ 925,000	\$ 965,000	\$ 1,015,000	\$ 1,065,000	\$ 1,120,000
Interest	6,748,750	6,707,000	6,663,250	6,617,000	6,568,750	6,518,000	6,464,750
Total Payment	\$ 7,583,750	\$ 7,582,000	\$ 7,588,250	\$ 7,582,000	\$ 7,583,750	\$ 7,583,000	\$ 7,584,750
2017 Refunding Revenue Bonds							
Principal	\$ 2,250,000	\$ 2,365,000	\$ 2,485,000	\$ 2,610,000	\$ 2,740,000	\$ 2,875,000	\$ 3,015,000
Interest	5,159,000	5,046,500	4,928,250	4,804,000	4,673,500	4,536,500	4,392,750
Total Payment	\$ 7,409,000	\$ 7,411,500	\$ 7,413,250	\$ 7,414,000	\$ 7,413,500	\$ 7,411,500	\$ 7,407,750
2020A Revenue Bonds							
Principal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Interest	6,700,000	6,700,000	6,700,000	6,700,000	6,700,000	6,700,000	6,700,000
Total Payment	\$ 6,700,000	\$ 6,700,000	\$ 6,700,000	\$ 6,700,000	\$ 6,700,000	\$ 6,700,000	\$ 6,700,000
2020B Refunding Revenue Bonds							
Principal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,260,000	\$ 6,175,000
Interest	5,890,815	5,890,815	5,890,815	5,890,815	5,890,815	5,890,815	5,856,165
Total Payment	\$ 5,890,815	\$ 5,890,815	\$ 5,890,815	\$ 5,890,815	\$ 5,890,815	\$ 7,150,815	\$ 12,031,165
Anticipated Refunding Savings		(279,834)	(758,213)	(758,750)	(761,250)	(757,250)	(477,000)
Capitalized Interest Proceeds		-	-	-	-	-	-
Existing Debt Service	\$ 39,036,678	\$ 38,762,231	\$ 38,282,565	\$ 38,278,065	\$ 38,276,815	\$ 39,542,315	\$ 40,453,165
Other Debt							
Proposed Debt Service		-	8,242,997	16,485,993	26,707,309	36,928,625	44,182,462
Interest, Commercial Paper Program		-	-	-	-	-	-
Total Debt Service	\$ 39,036,678	\$ 38,762,231	\$ 46,525,561	\$ 54,764,058	\$ 64,984,124	\$ 76,470,940	\$ 84,635,627

Schedule G-1

Internally Funded Capital Improvement Projects (IFCIP)

		Forecast Years				
		FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Proposed IFCIP Amounts						
Annual IFCIP Transfers from Operating Fund		\$ 15,000,000	\$ 20,000,000	\$ 20,000,000	\$ 25,000,000	\$ 35,000,000
Projects Funded by IFCIP (subject to change)						
MP-PW-Well-02	Well Equipment Overhaul	\$ 3,387,737	\$ 3,523,247	\$ -	\$ 3,810,744	\$ 2,476,983
MP-PW-Well-05	Wellhead Protection					948,989
MP-PW-Well-06	Well Repair		956,134	994,380	1,998,883	3,285,965
MP-PW-SWTP-04	Ugum SWTP 7-Year Improvement Project				1,988,214	2,067,743
MP-PW-Pipe-10	Miscellaneous Piping Projects	-	-	1,354,048	-	-
MP-PW-Pipe-11	Miscellaneous Piping Connections		168,851	175,605	182,629	189,935
MP-PW-Pipe-13	2-inch Pipe Replacement				1,109,592	1,794,120
MP-PW-Pipe-15	PRV Rehab and Replacement	-	-	2,214,679		-
MP-PW-Pipe-16	Valve Exercise, Repair, and Replacement	-	489,582	-	-	-
MP-PW-BPS-01	Rehabilitate and Replace BPSs	3,512,155	-	-	235,347	244,761
MP-WW-MH-01	Manhole Rehabilitation	-	507,714		549,144	571,109
MP-WW-Pipe-01	Gravity Pipe Rehabilitation/Replacement					10,093,952
MP-PW-Misc-02	Master Meter Implementation and Ongoing Meter Replacement				1,151,633	1,197,698
MP-Gen-Misc-01	GWA Engineering Systems Planning	-	3,093,376	-	2,737,469	1,631,741
MP-Gen-Misc-02A	WRMP Comprehensive Update & Water System Planning	-	-	-	2,039,677	2,121,263
MP-Gen-Misc-05	GWA Customer Service, Warehouse, Test Bench and Improvements	4,157,514	6,044,217	6,285,986	-	-
MP-Gen-Misc-06	GPWA Fleet Maintenance Facility	3,942,594	-	-	-	-
MP-Gen-Misc-07	Mobile Equipment Replacement	-	1,687,296	-	-	-
MP-Gen-Misc-08	General Plant Improvements	-	2,122,489	3,583,012	3,726,332	815,871
MP-PW-Misc-03	Hydrant Condition Assessment and Maintenance		1,407,094	1,463,378	1,521,913	1,407,306
MP-Gen-Misc-04	Monitoring: Information Technology Improvements	-	-	1,433,205	1,490,533	326,348
MP-Gen-Misc-03	Control: Surveying and Property Delineation	-	-		786,924	818,401
MP-Gen-Misc-09	Control: Security and Resilience	-	-		1,019,838	163,174
MP-Gen-EE-02	Electrical: SCADA Implementation Phase B – Additional Sites	-	-	2,495,707	-	4,167,468
MP-Gen-EE-03	Electrical: SCADA Implementation Phase C – Additional Instruments	-	-	-	651,128	677,173
Total Project Costs		\$ 15,000,000	\$ 20,000,000	\$ 20,000,000	\$ 25,000,000	\$ 35,000,000

Schedule G-2

Externally Funded Capital Improvement Projects (Grants)

		Forecast Years				
		FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
External Funding						
SRF & DOD Grants		\$ 27,000,000	\$ 27,000,000	\$ 27,000,000	\$ 4,000,000	\$ 4,000,000
Externally Funded Projects (subject to change)						
MP-PW-Well-01	Well Rehabilitation			\$ 7,885,945		
MP-PW-Well-05	Wellhead Protection		618,675			
MP-PW-Well-08	PFAS Water Treatment Design & Construction	2,704,000				
MP-PW-Well-09	PFAS Well Transmission Main Design & Construction		5,624,320		-	-
MP-PW-Well-10	PFAS Well Pumps & Booster Stations	2,163,200				
MP-PW-SWTP-01	UGUM SWTP River Intake Cleaning Project	119,024				
MP-PW-SWTP-02	UGUM SWTP Intake Modification	3,203,900				
MP-PW-SWTP-04	Ugum SWTP 7-Year Improvement Project		1,838,216	1,911,744		-
MP-PW-Pipe-13	2-inch Pipe Replacement				1,037,163	1,061,427
MP-PW-Pipe-15	PRV Rehab & Replacement	2,047,595	2,129,499			-
MP-PW-Pipe-16	Valve Exercise, Repair, and Replacement	784,586		848,608	529,531	407,935
MP-PW-BPS-01	Rehabilitate and Replace BPS			226,295		
MP-WW-Pipe-01	Gravity Pipe Rehabilitation/Replacement		6,550,964	5,651,425		
MP-WW-Pipe-06	Rt.1 Dededo (Northern District Route 1 Capacity Replacement) Phase 1	581,392	3,125,260			
MP-WW-Pipe-28	CCTV Inspection, Assessment, Documentation, & Reporting	2,902,387				
MP-WW-FM-01	Force Main Rehabilitation/Replacement			7,141,886		
MP-WW-FM-02	Replace Yigo Lift Station Force Main	2,062,626				
MP-WW-FM-04	Hagatna WWTP Force Main Rehabilitation/Replacement	8,428,863				
MP-WW-MH-01	Manhole Rehabilitation	488,187				
MP-WW-Pump-01	Lift Station Rehabilitation/Replacement		2,249,728	2,339,717	2,433,306	2,530,638
MP-WW-Pump-02	Tumon Basin-Fujita Lift Station		3,963,447			
MP-WW-Misc-02	I/I and SSES Assessments	703,040				
MP-WW-Misc-03	Miscellaneous Wastewater Improvements	811,200	899,891	994,380		
Total Project Costs		\$ 27,000,000	\$ 27,000,000	\$ 27,000,000	\$ 4,000,000	\$ 4,000,000

Schedule H

Other Revenues, Interest Revenues & Revenue Adjustments

	Historical		Current	Forecast				
	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Other Revenues								
Cash Short/Over	\$ 1,664	\$ (3,378)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
W- Illegal Connection	44,587	128,872	105,000	105,000	105,000	105,000	105,000	105,000
W- Install Fee	199,167	199,286	200,000	200,000	200,000	200,000	200,000	200,000
W- Reconnect Fee	106,040	96,665	100,000	100,000	100,000	100,000	100,000	100,000
W- NSF Checks	4,350	3,690	5,000	5,000	5,000	5,000	5,000	5,000
Miscellaneous (GSWA)	30,520	13,383	15,000	15,000	15,000	15,000	15,000	15,000
Rent - GTA lease	27,000	27,000	27,000	27,000	27,000	27,000	27,000	27,000
Miscellaneous Admin	-	39,265	-	-	-	-	-	-
W- Account Analysis	10	40	-	-	-	-	-	-
W- Special Reading Fee	-	-	-	-	-	-	-	-
W- Inspect Fee	3,100	3,200	3,000	3,000	3,000	3,000	3,000	3,000
Honey - Bucket	48,050	59,145	60,000	60,000	60,000	60,000	60,000	60,000
Liquidated Damages	-	-	-	-	-	-	-	-
Special Damages	-	-	-	-	-	-	-	-
Total Other Revenues	\$ 464,488	\$ 567,167	\$ 515,000	\$ 515,000	\$ 515,000	\$ 515,000	\$ 515,000	\$ 515,000
Interest Revenues & Adjustments								
Interest Revenues ¹	\$ 275,879	\$ 1,972,141	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000
Revenue Adjustments ²	\$ (1,407,844)	\$ (3,044,250)	\$ (1,760,284)	\$ (2,270,766)	\$ (2,554,612)	\$ (2,810,073)	\$ (3,091,081)	\$ (3,400,189)

1 - Interest revenues on operating reserves and associated accounts

2 - Adjustment from billed to audited revenues (includes accruals, unbilled consumption, and other post-billing adjustments)

Schedule I

Other Cash Flow Items

	<i>Historical Years</i>		<i>Current Year</i>	<i>Forecast Years</i>				
	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Other Cash Flow Items								
Rate Stabilization Transfers Out (In) ¹	\$ 5,750,000	\$ 5,650,000	\$ -	\$ -	\$ (2,500,000)	\$ (2,500,000)	\$ (2,500,000)	\$ (2,500,000)
ARPA Funding	-	12,400,000						
Total Other Cash Flow Items	\$ 5,750,000	\$ 18,050,000	\$ -	\$ -	\$ (2,500,000)	\$ (2,500,000)	\$ (2,500,000)	\$ (2,500,000)

1 - Rate stabilization transfers may vary based on actual financial performance and targeted debt service coverage

GWA Work Session - February 20, 2024 - ISSUES FOR DECISION

Schedule J-1W

Proof of Water System Revenues, Forecast Year #1

	Customer Class									TOTAL
	FY 2025	RES	COM-1	COM-2	COM-3	HOT	GOV	AG	IRR	
BILLING DETERMINANTS										
Water Demand (kgals)										
Tier 1 (up to 5 kgals)	1,701,052	600,252	54,840	127,408	573,258	514,378	47,721	3,727		
Tier 2 (above 5 kgals)	1,472,552	-	-	-	-	-	-	-	-	-
Tier 3 (NA)	-	-	-	-	-	-	-	-	-	-
Subtotal	3,173,604	600,252	54,840	127,408	573,258	514,378	47,721	3,727		5,095,188
Water Accounts by Meter Size										
3/4 inch	40,061	1,635	2	167	2	129	261	15		
1 inch	307	286	2	31	1	37	34	6		
1.5 inch	97	292	4	42	2	71	23	5		
2 inch	24	143	4	25	7	46	7	7		
3 inch	8	23	2	6	4	31	-	-		
4 inch	19	47	4	8	19	27	-	-		
6 inch	12	27	2	3	14	15	-	-		
8 inch	2	1	2	-	4	4	-	-		
10 inch	-	2	-	-	1	2	-	-		
12 inch	-	-	-	-	-	-	-	-		
Subtotal	40,530	2,456	22	282	54	362	325	33		44,064
WATER RATES										
Volumetric Rates										
Tier 1 (up to 5 kgals)	\$ 3.51	\$ 23.38	\$ 23.38	\$ 23.38	\$ 23.38	\$ 23.38	\$ 7.51	\$ 7.77		
Tier 2 (above 5 kgals)	\$ 18.81	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Tier 3 (NA)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Monthly Base Charges by Meter Size										
3/4 inch	\$ 39.50	\$ 39.50	\$ 39.50	\$ 39.50	\$ 39.50	\$ 39.50	\$ 38.16	\$ 39.50		
1 inch	\$ 46.10	\$ 46.10	\$ 46.10	\$ 46.10	\$ 46.10	\$ 46.10	\$ 44.54	\$ 46.10		
1.5 inch	\$ 72.32	\$ 72.32	\$ 72.32	\$ 72.32	\$ 72.32	\$ 72.32	\$ 69.90	\$ 72.32		
2 inch	\$ 92.12	\$ 92.12	\$ 92.12	\$ 92.12	\$ 92.12	\$ 92.12	\$ 89.01	\$ 92.12		
3 inch	\$ 164.54	\$ 164.54	\$ 164.54	\$ 164.54	\$ 164.54	\$ 164.54	\$ 159.01	\$ 164.54		
4 inch	\$ 230.33	\$ 230.33	\$ 230.33	\$ 230.33	\$ 230.33	\$ 230.33	\$ 222.54	\$ 230.33		
6 inch	\$ 427.73	\$ 427.73	\$ 427.73	\$ 427.73	\$ 427.73	\$ 427.73	\$ 413.27	\$ 427.73		
8 inch	\$ 625.13	\$ 625.13	\$ 625.13	\$ 625.13	\$ 625.13	\$ 625.13	\$ 603.98	\$ 625.13		
10 inch	\$ 855.47	\$ 855.47	\$ 855.47	\$ 855.47	\$ 855.47	\$ 855.47	\$ 826.53	\$ 855.47		
12 inch	\$ 1,019.92	\$ 1,019.92	\$ 1,019.92	\$ 1,019.92	\$ 1,019.92	\$ 1,019.92	\$ 985.41	\$ 1,019.92		
WATER RATE REVENUES										
Volume Revenues										
Tier 1 (up to 5 kgals)	\$ 5,970,691	\$ 14,033,882	\$ 1,282,148	\$ 2,978,794	\$ 13,402,779	\$ 12,026,159	\$ 358,388	\$ 28,962		
Tier 2 (above 5 kgals)	27,698,705	-	-	-	-	-	-	-		
Tier 3 (NA)	-	-	-	-	-	-	-	-		
Subtotal	\$ 33,669,396	\$ 14,033,882	\$ 1,282,148	\$ 2,978,794	\$ 13,402,779	\$ 12,026,159	\$ 358,388	\$ 28,962		\$ 77,780,508
Base Charge Revenues										
3/4 inch	\$ 18,988,914	\$ 774,990	\$ 948	\$ 79,158	\$ 948	\$ 61,146	\$ 119,517	\$ 7,110		
1 inch	169,832	158,215	1,106	17,149	553	20,468	18,172	3,319		
1.5 inch	84,180	253,409	3,471	36,449	1,736	61,617	19,292	4,339		
2 inch	26,531	158,078	4,422	27,636	7,738	50,850	7,477	7,738		
3 inch	15,796	45,413	3,949	11,847	7,898	61,209	-	-		
4 inch	52,515	129,906	11,056	22,112	52,515	74,627	-	-		
6 inch	61,593	138,585	10,266	15,398	71,859	76,991	-	-		
8 inch	15,003	7,502	15,003	-	30,006	30,006	-	-		
10 inch	-	20,531	-	-	10,266	20,531	-	-		
12 inch	-	-	-	-	-	-	-	-		
Subtotal	\$ 19,414,365	\$ 1,686,629	\$ 50,221	\$ 209,749	\$ 183,519	\$ 457,446	\$ 164,459	\$ 22,506		\$ 22,188,894
FORECAST CALIBRATION										
Calibration factor ¹	-0.15%	-0.15%	-0.15%	-0.15%	-0.15%	-0.15%	-0.15%	-0.15%		
Calibrated Revenues	\$ 53,004,135	\$ 15,696,930	\$ 1,330,370	\$ 3,183,761	\$ 13,565,918	\$ 12,464,879	\$ 522,062	\$ 51,391		\$ 99,819,447
LEGISLATIVE SURCHARGE										
Surcharge	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%		
Surcharge Revenues	\$ 1,646,484	\$ 549,393	\$ 46,563	\$ 111,432	\$ 474,807	\$ 436,271	\$ 18,272	\$ 1,799		\$ 3,285,020
Totals by Class	\$ 54,650,619	\$ 16,246,323	\$ 1,376,933	\$ 3,295,192	\$ 14,040,725	\$ 12,901,150	\$ 540,335	\$ 53,190		\$ 103,104,467

1 - Adjustment factor calibrates historical billing determinants and actual revenue performance with predicted results from the RAM's revenue forecasting module; this adjustment primarily accounts for partial bills that occur within the billing data (move-ins and move-outs)

Schedule J-2W

Proof of Water System Revenues, Forecast Year #2

	Customer Class									TOTAL
	FY 2026	RES	COM-1	COM-2	COM-3	HOT	GOV	AG	IRR	
BILLING DETERMINANTS										
Water Demand (kgals)										
Tier 1 (up to 5 kgals)	1,684,535	591,639	52,413	125,592	593,752	516,186	47,041	3,674		
Tier 2 (above 5 kgals)	1,458,254	-	-	-	-	-	-	-	-	-
Tier 3 (NA)	-	-	-	-	-	-	-	-	-	-
Subtotal	3,142,788	591,639	52,413	125,592	593,752	516,186	47,041	3,674		5,073,086
Water Accounts by Meter Size										
3/4 inch	40,261	1,641	2	167	2	130	261	15		
1 inch	304	286	2	31	1	37	34	6		
1.5 inch	97	292	4	42	2	71	23	5		
2 inch	24	143	4	25	7	46	7	7		
3 inch	8	23	2	6	4	31	-	-		
4 inch	19	47	4	8	19	27	-	-		
6 inch	12	27	2	3	14	15	-	-		
8 inch	2	1	2	-	4	4	-	-		
10 inch	-	2	-	-	1	2	-	-		
12 inch	-	-	-	-	-	-	-	-		
Subtotal	40,727	2,462	22	282	54	363	325	33		44,268
WATER RATES										
Volumetric Rates										
Tier 1 (up to 5 kgals)	\$ 3.95	\$ 26.31	\$ 26.31	\$ 26.31	\$ 26.31	\$ 26.31	\$ 8.45	\$ 8.75		
Tier 2 (above 5 kgals)	\$ 21.17	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Tier 3 (NA)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Monthly Base Charges by Meter Size										
3/4 inch	\$ 44.44	\$ 44.44	\$ 44.44	\$ 44.44	\$ 44.44	\$ 44.44	\$ 42.93	\$ 44.44		
1 inch	\$ 51.87	\$ 51.87	\$ 51.87	\$ 51.87	\$ 51.87	\$ 51.87	\$ 50.11	\$ 51.87		
1.5 inch	\$ 81.36	\$ 81.36	\$ 81.36	\$ 81.36	\$ 81.36	\$ 81.36	\$ 78.64	\$ 81.36		
2 inch	\$ 103.64	\$ 103.64	\$ 103.64	\$ 103.64	\$ 103.64	\$ 103.64	\$ 100.14	\$ 103.64		
3 inch	\$ 185.11	\$ 185.11	\$ 185.11	\$ 185.11	\$ 185.11	\$ 185.11	\$ 178.89	\$ 185.11		
4 inch	\$ 259.13	\$ 259.13	\$ 259.13	\$ 259.13	\$ 259.13	\$ 259.13	\$ 250.36	\$ 259.13		
6 inch	\$ 481.20	\$ 481.20	\$ 481.20	\$ 481.20	\$ 481.20	\$ 481.20	\$ 464.93	\$ 481.20		
8 inch	\$ 703.28	\$ 703.28	\$ 703.28	\$ 703.28	\$ 703.28	\$ 703.28	\$ 679.48	\$ 703.28		
10 inch	\$ 962.41	\$ 962.41	\$ 962.41	\$ 962.41	\$ 962.41	\$ 962.41	\$ 929.85	\$ 962.41		
12 inch	\$ 1,147.41	\$ 1,147.41	\$ 1,147.41	\$ 1,147.41	\$ 1,147.41	\$ 1,147.41	\$ 1,108.59	\$ 1,147.41		
WATER RATE REVENUES										
Volume Revenues										
Tier 1 (up to 5 kgals)	\$ 6,653,912	\$ 15,566,028	\$ 1,378,982	\$ 3,304,332	\$ 15,621,622	\$ 13,580,849	\$ 397,500	\$ 32,150		
Tier 2 (above 5 kgals)	30,871,233	-	-	-	-	-	-	-		
Tier 3 (NA)	-	-	-	-	-	-	-	-		
Subtotal	\$ 37,525,144	\$ 15,566,028	\$ 1,378,982	\$ 3,304,332	\$ 15,621,622	\$ 13,580,849	\$ 397,500	\$ 32,150		\$ 87,406,608
Base Charge Revenues										
3/4 inch	\$ 21,470,386	\$ 875,112	\$ 1,067	\$ 89,058	\$ 1,067	\$ 69,326	\$ 134,457	\$ 7,999		
1 inch	189,222	178,018	1,245	19,296	622	23,030	20,445	3,735		
1.5 inch	94,703	285,085	3,905	41,005	1,953	69,319	21,705	4,882		
2 inch	29,848	177,846	4,975	31,092	8,706	57,209	8,412	8,706		
3 inch	17,771	51,090	4,443	13,328	8,885	68,861	-	-		
4 inch	59,082	146,149	12,438	24,876	59,082	83,958	-	-		
6 inch	69,293	155,909	11,549	17,323	80,842	86,616	-	-		
8 inch	16,879	8,439	16,879	-	33,757	33,757	-	-		
10 inch	-	23,098	-	-	11,549	23,098	-	-		
12 inch	-	-	-	-	-	-	-	-		
Subtotal	\$ 21,947,183	\$ 1,900,748	\$ 56,500	\$ 235,978	\$ 206,462	\$ 515,175	\$ 185,018	\$ 25,321		\$ 25,072,385
FORECAST CALIBRATION										
Calibration factor ¹	-0.15%	-0.15%	-0.15%	-0.15%	-0.15%	-0.15%	-0.15%	-0.15%		
Calibrated Revenues	\$ 59,383,119	\$ 17,440,576	\$ 1,433,329	\$ 3,535,000	\$ 15,804,343	\$ 14,074,880	\$ 581,644	\$ 57,385		\$ 112,310,275
LEGISLATIVE SURCHARGE										
Surcharge	3.20%	3.20%	3.20%	3.20%	3.20%	3.20%	3.20%	3.20%		
Surcharge Revenues	\$ 1,687,654	\$ 558,098	\$ 45,867	\$ 113,120	\$ 505,739	\$ 450,396	\$ 18,613	\$ 1,836		\$ 3,381,323
Totals by Class	\$ 61,070,773	\$ 17,998,674	\$ 1,479,196	\$ 3,648,120	\$ 16,310,081	\$ 14,525,276	\$ 600,257	\$ 59,221		\$ 115,691,598

1 - Adjustment factor calibrates historical billing determinants and actual revenue performance with predicted results from the RAM's revenue forecasting module; this adjustment primarily accounts for partial bills that occur within the billing data (move-ins and move-outs)

GWA Work Session - February 20, 2024 - ISSUES FOR DECISION

Schedule J-3W

Proof of Water System Revenues, Forecast Year #3

	Customer Class									TOTAL
	RES	COM-1	COM-2	COM-3	HOT	GOV	AG	IRR		
FY 2027										
BILLING DETERMINANTS										
Water Demand (kgals)										
Tier 1 (up to 5 kgals)	1,678,804	585,134	50,290	124,274	617,205	521,365	46,547	3,636		
Tier 2 (above 5 kgals)	1,453,293	-	-	-	-	-	-	-		
Tier 3 (NA)	-	-	-	-	-	-	-	-		
Subtotal	3,132,096	585,134	50,290	124,274	617,205	521,365	46,547	3,636		5,080,548
Water Accounts by Meter Size										
3/4 inch	40,463	1,646	2	167	2	132	261	15		
1 inch	301	286	2	31	1	37	34	6		
1.5 inch	97	292	4	42	2	71	23	5		
2 inch	24	143	4	25	7	46	7	7		
3 inch	8	23	2	6	4	31	-	-		
4 inch	19	47	4	8	19	27	-	-		
6 inch	12	27	2	3	14	15	-	-		
8 inch	2	1	2	-	4	4	-	-		
10 inch	-	2	-	-	1	2	-	-		
12 inch	-	-	-	-	-	-	-	-		
Subtotal	40,926	2,467	22	282	54	365	325	33		44,474
WATER RATES										
Volumetric Rates										
Tier 1 (up to 5 kgals)	\$ 3.95	\$ 28.95	\$ 28.95	\$ 28.95	\$ 28.95	\$ 28.95	\$ 9.30	\$ 9.63		
Tier 2 (above 5 kgals)	\$ 23.29	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Tier 3 (NA)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Monthly Base Charges by Meter Size										
3/4 inch	\$ 48.89	\$ 48.89	\$ 48.89	\$ 48.89	\$ 48.89	\$ 48.89	\$ 47.23	\$ 48.89		
1 inch	\$ 57.06	\$ 57.06	\$ 57.06	\$ 57.06	\$ 57.06	\$ 57.06	\$ 55.13	\$ 57.06		
1.5 inch	\$ 89.50	\$ 89.50	\$ 89.50	\$ 89.50	\$ 89.50	\$ 89.50	\$ 86.51	\$ 89.50		
2 inch	\$ 114.01	\$ 114.01	\$ 114.01	\$ 114.01	\$ 114.01	\$ 114.01	\$ 110.16	\$ 114.01		
3 inch	\$ 203.63	\$ 203.63	\$ 203.63	\$ 203.63	\$ 203.63	\$ 203.63	\$ 196.78	\$ 203.63		
4 inch	\$ 285.05	\$ 285.05	\$ 285.05	\$ 285.05	\$ 285.05	\$ 285.05	\$ 275.40	\$ 285.05		
6 inch	\$ 529.32	\$ 529.32	\$ 529.32	\$ 529.32	\$ 529.32	\$ 529.32	\$ 511.43	\$ 529.32		
8 inch	\$ 773.61	\$ 773.61	\$ 773.61	\$ 773.61	\$ 773.61	\$ 773.61	\$ 747.43	\$ 773.61		
10 inch	\$ 1,058.66	\$ 1,058.66	\$ 1,058.66	\$ 1,058.66	\$ 1,058.66	\$ 1,058.66	\$ 1,022.84	\$ 1,058.66		
12 inch	\$ 1,262.16	\$ 1,262.16	\$ 1,262.16	\$ 1,262.16	\$ 1,262.16	\$ 1,262.16	\$ 1,219.45	\$ 1,262.16		
WATER RATE REVENUES										
Volume Revenues										
Tier 1 (up to 5 kgals)	\$ 6,631,274	\$ 16,939,625	\$ 1,455,900	\$ 3,597,718	\$ 17,868,099	\$ 15,093,530	\$ 432,892	\$ 35,011		
Tier 2 (above 5 kgals)	33,847,186	-	-	-	-	-	-	-		
Tier 3 (NA)	-	-	-	-	-	-	-	-		
Subtotal	\$ 40,478,460	\$ 16,939,625	\$ 1,455,900	\$ 3,597,718	\$ 17,868,099	\$ 15,093,530	\$ 432,892	\$ 35,011		\$ 95,901,235
Base Charge Revenues										
3/4 inch	\$ 23,738,833	\$ 965,675	\$ 1,173	\$ 97,976	\$ 1,173	\$ 77,442	\$ 147,924	\$ 8,800		
1 inch	206,101	195,830	1,369	21,226	685	25,335	22,493	4,108		
1.5 inch	104,178	313,608	4,296	45,108	2,148	76,254	23,877	5,370		
2 inch	32,835	195,641	5,472	34,203	9,577	62,934	9,253	9,577		
3 inch	19,548	56,202	4,887	14,661	9,774	75,750	-	-		
4 inch	64,991	160,768	13,682	27,365	64,991	92,356	-	-		
6 inch	76,222	171,500	12,704	19,056	88,926	95,278	-	-		
8 inch	18,567	9,283	18,567	-	37,133	37,133	-	-		
10 inch	-	25,408	-	-	12,704	25,408	-	-		
12 inch	-	-	-	-	-	-	-	-		
Subtotal	\$ 24,261,275	\$ 2,093,915	\$ 62,151	\$ 259,595	\$ 227,112	\$ 567,889	\$ 203,548	\$ 27,855		\$ 27,703,340
FORECAST CALIBRATION										
Calibration factor ¹	-0.15%	-0.15%	-0.15%	-0.15%	-0.15%	-0.15%	-0.15%	-0.15%		
Calibrated Revenues	\$ 64,642,626	\$ 19,004,990	\$ 1,515,774	\$ 3,851,527	\$ 18,068,068	\$ 15,637,927	\$ 635,485	\$ 62,772		\$ 123,419,168
LEGISLATIVE SURCHARGE										
Surcharge	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%		
Surcharge Revenues	\$ 1,740,639	\$ 570,150	\$ 45,473	\$ 115,546	\$ 542,042	\$ 469,138	\$ 19,065	\$ 1,883		\$ 3,503,935
Totals by Class	\$ 66,383,265	\$ 19,575,139	\$ 1,561,247	\$ 3,967,073	\$ 18,610,110	\$ 16,107,065	\$ 654,549	\$ 64,656		\$ 126,923,103

1 - Adjustment factor calibrates historical billing determinants and actual revenue performance with predicted results from the RAM's revenue forecasting module; this adjustment primarily accounts for partial bills that occur within the billing data (move-ins and move-outs)

GWA Work Session - February 20, 2024 - ISSUES FOR DECISION

Schedule J-4W

Proof of Water System Revenues, Forecast Year #4

	Customer Class									
FY 2028	RES	COM-1	COM-2	COM-3	HOT	GOV	AG	IRR	TOTAL	
BILLING DETERMINANTS										
Water Demand (kgals)										
Tier 1 (up to 5 kgals)	1,673,053	578,932	48,253	122,969	641,585	525,146	46,059	3,597		
Tier 2 (above 5 kgals)	1,448,314	-	-	-	-	-	-	-		
Tier 3 (NA)	-	-	-	-	-	-	-	-		
Subtotal	3,121,367	578,932	48,253	122,969	641,585	525,146	46,059	3,597		5,087,908
Water Accounts by Meter Size										
3/4 inch	40,665	1,652	2	167	2	133	261	15		
1 inch	298	286	2	31	1	37	34	6		
1.5 inch	97	292	4	42	2	71	23	5		
2 inch	24	143	4	25	7	46	7	7		
3 inch	8	23	2	6	4	31	-	-		
4 inch	19	47	4	8	19	27	-	-		
6 inch	12	27	2	3	14	15	-	-		
8 inch	2	1	2	-	4	4	-	-		
10 inch	-	2	-	-	1	2	-	-		
12 inch	-	-	-	-	-	-	-	-		
Subtotal	41,125	2,473	22	282	54	366	325	33		44,680
WATER RATES										
Volumetric Rates										
Tier 1 (up to 5 kgals)	\$ 3.95	\$ 31.85	\$ 31.85	\$ 31.85	\$ 31.85	\$ 31.85	\$ 10.23	\$ 10.60		
Tier 2 (above 5 kgals)	\$ 25.62	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Tier 3 (NA)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Monthly Base Charges by Meter Size										
3/4 inch	\$ 53.78	\$ 53.78	\$ 53.78	\$ 53.78	\$ 53.78	\$ 53.78	\$ 51.96	\$ 53.78		
1 inch	\$ 62.77	\$ 62.77	\$ 62.77	\$ 62.77	\$ 62.77	\$ 62.77	\$ 60.65	\$ 62.77		
1.5 inch	\$ 98.45	\$ 98.45	\$ 98.45	\$ 98.45	\$ 98.45	\$ 98.45	\$ 95.17	\$ 98.45		
2 inch	\$ 125.42	\$ 125.42	\$ 125.42	\$ 125.42	\$ 125.42	\$ 125.42	\$ 121.18	\$ 125.42		
3 inch	\$ 224.00	\$ 224.00	\$ 224.00	\$ 224.00	\$ 224.00	\$ 224.00	\$ 216.46	\$ 224.00		
4 inch	\$ 313.56	\$ 313.56	\$ 313.56	\$ 313.56	\$ 313.56	\$ 313.56	\$ 302.94	\$ 313.56		
6 inch	\$ 582.26	\$ 582.26	\$ 582.26	\$ 582.26	\$ 582.26	\$ 582.26	\$ 562.58	\$ 582.26		
8 inch	\$ 850.98	\$ 850.98	\$ 850.98	\$ 850.98	\$ 850.98	\$ 850.98	\$ 822.18	\$ 850.98		
10 inch	\$ 1,164.53	\$ 1,164.53	\$ 1,164.53	\$ 1,164.53	\$ 1,164.53	\$ 1,164.53	\$ 1,125.13	\$ 1,164.53		
12 inch	\$ 1,388.38	\$ 1,388.38	\$ 1,388.38	\$ 1,388.38	\$ 1,388.38	\$ 1,388.38	\$ 1,341.40	\$ 1,388.38		
WATER RATE REVENUES										
Volume Revenues										
Tier 1 (up to 5 kgals)	\$ 6,608,558	\$ 18,438,975	\$ 1,536,870	\$ 3,916,551	\$ 20,434,486	\$ 16,725,914	\$ 471,181	\$ 38,133		
Tier 2 (above 5 kgals)	37,105,809	-	-	-	-	-	-	-		
Tier 3 (NA)	-	-	-	-	-	-	-	-		
Subtotal	\$ 43,714,366	\$ 18,438,975	\$ 1,536,870	\$ 3,916,551	\$ 20,434,486	\$ 16,725,914	\$ 471,181	\$ 38,133		\$ 105,276,477
Base Charge Revenues										
3/4 inch	\$ 26,243,564	\$ 1,066,135	\$ 1,291	\$ 107,775	\$ 1,291	\$ 85,833	\$ 162,739	\$ 9,680		
1 inch	224,466	215,427	1,506	23,350	753	27,870	24,745	4,519		
1.5 inch	114,596	344,969	4,726	49,619	2,363	83,879	26,267	5,907		
2 inch	36,121	215,221	6,020	37,626	10,535	69,232	10,179	10,535		
3 inch	21,504	61,824	5,376	16,128	10,752	83,328	-	-		
4 inch	71,492	176,848	15,051	30,102	71,492	101,593	-	-		
6 inch	83,845	188,652	13,974	20,961	97,820	104,807	-	-		
8 inch	20,424	10,212	20,424	-	40,847	40,847	-	-		
10 inch	-	27,949	-	-	13,974	27,949	-	-		
12 inch	-	-	-	-	-	-	-	-		
Subtotal	\$ 26,816,011	\$ 2,307,235	\$ 68,368	\$ 285,561	\$ 249,827	\$ 625,338	\$ 223,930	\$ 30,642		\$ 30,606,913
FORECAST CALIBRATION										
Calibration factor ¹	-0.15%	-0.15%	-0.15%	-0.15%	-0.15%	-0.15%	-0.15%	-0.15%		
Calibrated Revenues	\$ 70,424,582	\$ 20,715,091	\$ 1,602,830	\$ 4,195,810	\$ 20,653,286	\$ 17,325,225	\$ 694,068	\$ 68,672		\$ 135,679,564
LEGISLATIVE SURCHARGE										
Surcharge	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%		
Surcharge Revenues	\$ 1,914,778	\$ 621,453	\$ 48,085	\$ 125,874	\$ 619,599	\$ 519,757	\$ 20,822	\$ 2,060		\$ 3,872,428
Totals by Class	\$ 72,339,360	\$ 21,336,544	\$ 1,650,915	\$ 4,321,684	\$ 21,272,885	\$ 17,844,981	\$ 714,890	\$ 70,732		\$ 139,551,992

1 - Adjustment factor calibrates historical billing determinants and actual revenue performance with predicted results from the RAM's revenue forecasting module; this adjustment primarily accounts for partial bills that occur within the billing data (move-ins and move-outs)

GWA Work Session - February 20, 2024 - ISSUES FOR DECISION

Schedule J-5W

Proof of Water System Revenues, Forecast Year #5

	Customer Class									TOTAL
	RES	COM-1	COM-2	COM-3	HOT	GOV	AG	IRR		
FY 2029										
BILLING DETERMINANTS										
Water Demand (kgals)										
Tier 1 (up to 5 kgals)	1,667,323	572,792	46,299	121,677	666,928	528,951	45,575	3,560		
Tier 2 (above 5 kgals)	1,443,354	-	-	-	-	-	-	-		
Tier 3 (NA)	-	-	-	-	-	-	-	-		
Subtotal	3,110,676	572,792	46,299	121,677	666,928	528,951	45,575	3,560		5,096,458
Water Accounts by Meter Size										
3/4 inch	40,868	1,658	2	167	2	134	261	15		
1 inch	295	286	2	31	1	37	34	6		
1.5 inch	97	292	4	42	2	71	23	5		
2 inch	24	143	4	25	7	46	7	7		
3 inch	8	23	2	6	4	31	-	-		
4 inch	19	47	4	8	19	27	-	-		
6 inch	12	27	2	3	14	15	-	-		
8 inch	2	1	2	-	4	4	-	-		
10 inch	-	2	-	-	1	2	-	-		
12 inch	-	-	-	-	-	-	-	-		
Subtotal	41,325	2,479	22	282	54	367	325	33		44,887
WATER RATES										
Volumetric Rates										
Tier 1 (up to 5 kgals)	\$ 3.95	\$ 35.04	\$ 35.04	\$ 35.04	\$ 35.04	\$ 35.04	\$ 11.26	\$ 11.66		
Tier 2 (above 5 kgals)	\$ 28.19	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Tier 3 (NA)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Monthly Base Charges by Meter Size										
3/4 inch	\$ 59.16	\$ 59.16	\$ 59.16	\$ 59.16	\$ 59.16	\$ 59.16	\$ 57.16	\$ 59.16		
1 inch	\$ 69.05	\$ 69.05	\$ 69.05	\$ 69.05	\$ 69.05	\$ 69.05	\$ 66.72	\$ 69.05		
1.5 inch	\$ 108.30	\$ 108.30	\$ 108.30	\$ 108.30	\$ 108.30	\$ 108.30	\$ 104.69	\$ 108.30		
2 inch	\$ 137.97	\$ 137.97	\$ 137.97	\$ 137.97	\$ 137.97	\$ 137.97	\$ 133.30	\$ 137.97		
3 inch	\$ 246.40	\$ 246.40	\$ 246.40	\$ 246.40	\$ 246.40	\$ 246.40	\$ 238.11	\$ 246.40		
4 inch	\$ 344.92	\$ 344.92	\$ 344.92	\$ 344.92	\$ 344.92	\$ 344.92	\$ 333.24	\$ 344.92		
6 inch	\$ 640.49	\$ 640.49	\$ 640.49	\$ 640.49	\$ 640.49	\$ 640.49	\$ 618.84	\$ 640.49		
8 inch	\$ 936.08	\$ 936.08	\$ 936.08	\$ 936.08	\$ 936.08	\$ 936.08	\$ 904.40	\$ 936.08		
10 inch	\$ 1,280.99	\$ 1,280.99	\$ 1,280.99	\$ 1,280.99	\$ 1,280.99	\$ 1,280.99	\$ 1,237.65	\$ 1,280.99		
12 inch	\$ 1,527.22	\$ 1,527.22	\$ 1,527.22	\$ 1,527.22	\$ 1,527.22	\$ 1,527.22	\$ 1,475.54	\$ 1,527.22		
WATER RATE REVENUES										
Volume Revenues										
Tier 1 (up to 5 kgals)	\$ 6,585,924	\$ 20,070,630	\$ 1,622,321	\$ 4,263,579	\$ 23,369,147	\$ 18,534,438	\$ 513,176	\$ 41,506		
Tier 2 (above 5 kgals)	40,688,145	-	-	-	-	-	-	-		
Tier 3 (NA)	-	-	-	-	-	-	-	-		
Subtotal	\$ 47,274,069	\$ 20,070,630	\$ 1,622,321	\$ 4,263,579	\$ 23,369,147	\$ 18,534,438	\$ 513,176	\$ 41,506		\$ 115,688,867
Base Charge Revenues										
3/4 inch	\$ 29,013,011	\$ 1,177,047	\$ 1,420	\$ 118,557	\$ 1,420	\$ 95,129	\$ 179,025	\$ 10,649		
1 inch	244,437	236,980	1,657	25,687	829	30,658	27,222	4,972		
1.5 inch	126,061	379,483	5,198	54,583	2,599	92,272	28,894	6,498		
2 inch	39,735	236,757	6,623	41,391	11,589	76,159	11,197	11,589		
3 inch	23,654	68,006	5,914	17,741	11,827	91,661	-	-		
4 inch	78,642	194,535	16,556	33,112	78,642	111,754	-	-		
6 inch	92,231	207,519	15,372	23,058	107,602	115,288	-	-		
8 inch	22,466	11,233	22,466	-	44,932	44,932	-	-		
10 inch	-	30,744	-	-	15,372	30,744	-	-		
12 inch	-	-	-	-	-	-	-	-		
Subtotal	\$ 29,640,237	\$ 2,542,303	\$ 75,205	\$ 314,128	\$ 274,812	\$ 688,597	\$ 246,339	\$ 33,708		\$ 33,815,330
FORECAST CALIBRATION										
Calibration factor ¹	-0.15%	-0.15%	-0.15%	-0.15%	-0.15%	-0.15%	-0.15%	-0.15%		
Calibrated Revenues	\$ 76,798,934	\$ 22,579,014	\$ 1,694,981	\$ 4,570,840	\$ 23,608,493	\$ 19,194,201	\$ 758,375	\$ 75,101		\$ 149,279,940
LEGISLATIVE SURCHARGE										
Surcharge	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%		
Surcharge Revenues	\$ 2,106,687	\$ 677,370	\$ 50,849	\$ 137,125	\$ 708,255	\$ 575,826	\$ 22,751	\$ 2,253		\$ 4,281,117
Totals by Class	\$ 78,905,621	\$ 23,256,384	\$ 1,745,830	\$ 4,707,966	\$ 24,316,748	\$ 19,770,027	\$ 781,126	\$ 77,354		\$ 153,561,057

1 - Adjustment factor calibrates historical billing determinants and actual revenue performance with predicted results from the RAM's revenue forecasting module; this adjustment primarily accounts for partial bills that occur within the billing data (move-ins and move-outs)

Schedule J-1WW

Proof of Wastewater System Revenues, Forecast Year #1

FY 2025	Customer Class								
	RES	COM-1	COM-2	COM-3	HOT	GOV	Leachate	NAVY	TOTAL
BILLING DETERMINANTS									
Billable Flows (kgals)									
Subtotal	-	371,410	43,727	98,611	376,799	384,591	30,000	561,000	1,866,138
Wastewater Accounts by Meter Size									
3/4 inch ¹	28,365	1,323	-	161	1	75			
1 inch	144	209	1	29	1	29			
1.5 inch	57	224	4	40	2	49			
2 inch	21	98	4	25	7	38			
3 inch	8	20	2	6	4	28			
4 inch	16	33	4	8	18	25			
6 inch	10	16	2	2	13	13			
8 inch	2	1	2	-	4	4			
10 inch	-	1	-	-	-	2			
12 inch	-	-	-	-	-	-			
Subtotal	28,623	1,925	19	271	50	263	-	-	31,151
WASTEWATER RATES									
Volumetric Rates									
Rate per Kgal	\$ -	\$ 12.89	\$ 31.40	\$ 43.54	\$ 31.40	\$ 18.43	\$ 18.99	\$ 18.43	
Monthly Base Charges by Meter Size									
3/4 inch	\$ 32.14	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1 inch	\$ 32.14	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1.5 inch	\$ 32.14	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2 inch	\$ 32.14	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3 inch	\$ 32.14	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4 inch	\$ 32.14	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
6 inch	\$ 32.14	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
8 inch	\$ 32.14	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
10 inch	\$ 32.14	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
12 inch	\$ 32.14	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
WASTEWATER RATE REVENUES									
Volume Revenues									
Subtotal	\$ -	\$ 4,787,471	\$ 1,373,032	\$ 4,293,509	\$ 11,831,504	\$ 7,088,018	\$ 569,700	\$ 10,339,230	\$ 40,282,464
Base Charge Revenues									
3/4 inch	\$ 10,939,813	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1 inch	55,538	-	-	-	-	-	-	-	-
1.5 inch	21,984	-	-	-	-	-	-	-	-
2 inch	8,099	-	-	-	-	-	-	-	-
3 inch	3,085	-	-	-	-	-	-	-	-
4 inch	6,171	-	-	-	-	-	-	-	-
6 inch	3,857	-	-	-	-	-	-	-	-
8 inch	771	-	-	-	-	-	-	-	-
10 inch	-	-	-	-	-	-	-	-	-
12 inch	-	-	-	-	-	-	-	-	-
Subtotal	\$ 11,039,319	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,039,319
FORECAST CALIBRATION									
Calibration factor ²	-0.15%	-0.15%	-0.15%	-0.15%	-0.15%	-0.15%	NA	NA	
Calibrated Revenues	\$ 11,022,760	\$ 4,780,290	\$ 1,370,972	\$ 4,287,069	\$ 11,813,757	\$ 7,077,386	\$ 569,700	\$ 10,339,230	\$ 51,261,163
LEGISLATIVE SURCHARGE									
Surcharge	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	
Surcharge Revenues	\$ -	\$ 167,310	\$ 47,984	\$ 150,047	\$ 413,481	\$ 247,709	\$ 19,940	\$ 361,873	\$ 1,408,344
Totals by Class	\$ 11,022,760	\$ 4,947,600	\$ 1,418,956	\$ 4,437,116	\$ 12,227,238	\$ 7,325,095	\$ 589,640	\$ 10,701,103	\$ 52,669,507

1 - Includes multi-family units that receive the residential wastewater charge

2 - Adjustment factor calibrates historical billing determinants and actual revenue performance with predicted results from the RAM's revenue forecasting module; this adjustment primarily accounts for partial bills that occur within the billing data (move-ins and move-outs); Navy and leachate revenues are therefore excluded

Schedule J-2WW

Proof of Wastewater System Revenues, Forecast Year #2

FY 2026	Customer Class								
	RES	COM-1	COM-2	COM-3	HOT	GOV	Leachate	NAVY	TOTAL
BILLING DETERMINANTS									
Billable Flows (kgals)									
Subtotal	-	366,081	41,792	97,205	390,270	385,943	30,000	572,220	1,883,511
Wastewater Accounts by Meter Size									
3/4 inch ¹	28,463	1,330	-	161	1	75			
1 inch	143	209	1	29	1	29			
1.5 inch	57	224	4	40	2	49			
2 inch	21	98	4	25	7	38			
3 inch	8	20	2	6	4	28			
4 inch	16	33	4	8	18	25			
6 inch	10	16	2	2	13	13			
8 inch	2	1	2	-	4	4			
10 inch	-	1	-	-	-	2			
12 inch	-	-	-	-	-	-			
Subtotal	28,720	1,932	19	271	50	263	-	-	31,255
WASTEWATER RATES									
Volumetric Rates									
Rate per Kgal	\$ -	\$ 14.51	\$ 35.33	\$ 48.99	\$ 35.33	\$ 20.74	\$ 21.37	\$ 20.74	
Monthly Base Charges by Meter Size									
3/4 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1.5 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
6 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
8 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
10 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
12 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
WASTEWATER RATE REVENUES									
Volume Revenues									
Subtotal	\$ -	\$ 5,311,831	\$ 1,476,519	\$ 4,762,097	\$ 13,788,241	\$ 8,004,457	\$ 641,100	\$ 11,867,843	\$ 45,852,088
Base Charge Revenues									
3/4 inch	\$ 12,350,665	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1 inch	62,051	-	-	-	-	-	-	-	-
1.5 inch	24,733	-	-	-	-	-	-	-	-
2 inch	9,112	-	-	-	-	-	-	-	-
3 inch	3,471	-	-	-	-	-	-	-	-
4 inch	6,943	-	-	-	-	-	-	-	-
6 inch	4,339	-	-	-	-	-	-	-	-
8 inch	868	-	-	-	-	-	-	-	-
10 inch	-	-	-	-	-	-	-	-	-
12 inch	-	-	-	-	-	-	-	-	-
Subtotal	\$ 12,462,182	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,462,182
FORECAST CALIBRATION									
Calibration factor ²	-0.15%	-0.15%	-0.15%	-0.15%	-0.15%	-0.15%	NA	NA	
Calibrated Revenues	\$ 12,443,489	\$ 5,303,864	\$ 1,474,304	\$ 4,754,953	\$ 13,767,559	\$ 7,992,451	\$ 641,100	\$ 11,867,843	\$ 58,245,562
LEGISLATIVE SURCHARGE									
Surcharge	3.20%	3.20%	3.20%	3.20%	3.20%	3.20%	3.20%	3.20%	
Surcharge Revenues	\$ -	\$ 169,724	\$ 47,178	\$ 152,159	\$ 440,562	\$ 255,758	\$ 20,515	\$ 379,771	\$ 1,465,666
Totals by Class	\$ 12,443,489	\$ 5,473,587	\$ 1,521,482	\$ 4,907,112	\$ 14,208,121	\$ 8,248,209	\$ 661,615	\$ 12,247,614	\$ 59,711,229

1 - Includes multi-family units that receive the residential wastewater charge

2 - Adjustment factor calibrates historical billing determinants and actual revenue performance with predicted results from the RAM's revenue forecasting module; this adjustment primarily accounts for partial bills that occur within the billing data (move-ins and move-outs); Navy and leachate revenues are therefore excluded

Schedule J-3WW

Proof of Wastewater System Revenues, Forecast Year #3

FY 2027	Customer Class								
	RES	COM-1	COM-2	COM-3	HOT	GOV	Leachate	NAVY	TOTAL
BILLING DETERMINANTS									
Billable Flows (kgals)									
Subtotal	-	362,055	40,100	96,185	405,686	389,816	30,000	583,664	1,907,506
Wastewater Accounts by Meter Size									
3/4 inch ¹	28,562	1,336	-	161	1	75			
1 inch	142	209	1	29	1	29			
1.5 inch	57	224	4	40	2	49			
2 inch	21	98	4	25	7	38			
3 inch	8	20	2	6	4	28			
4 inch	16	33	4	8	18	25			
6 inch	10	16	2	2	13	13			
8 inch	2	1	2	-	4	4			
10 inch	-	1	-	-	-	2			
12 inch	-	-	-	-	-	-			
Subtotal	28,818	1,938	19	271	50	263			31,359
WASTEWATER RATES									
Volumetric Rates									
Rate per Kgal	\$ -	\$ 15.97	\$ 38.87	\$ 53.89	\$ 38.87	\$ 22.82	\$ 23.51	\$ 22.82	
Monthly Base Charges by Meter Size									
3/4 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1.5 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
6 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
8 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
10 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
12 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
WASTEWATER RATE REVENUES									
Volume Revenues									
Subtotal	\$ -	\$ 5,782,026	\$ 1,558,672	\$ 5,183,400	\$ 15,769,005	\$ 8,895,594	\$ 705,300	\$ 13,319,222	\$ 51,213,219
Base Charge Revenues									
3/4 inch	\$ 12,393,623	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1 inch	61,617	-	-	-	-	-	-	-	-
1.5 inch	24,733	-	-	-	-	-	-	-	-
2 inch	9,112	-	-	-	-	-	-	-	-
3 inch	3,471	-	-	-	-	-	-	-	-
4 inch	6,943	-	-	-	-	-	-	-	-
6 inch	4,339	-	-	-	-	-	-	-	-
8 inch	868	-	-	-	-	-	-	-	-
10 inch	-	-	-	-	-	-	-	-	-
12 inch	-	-	-	-	-	-	-	-	-
Subtotal	\$ 12,504,707	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,504,707
FORECAST CALIBRATION									
Calibration factor ²	-0.15%	-0.15%	-0.15%	-0.15%	-0.15%	-0.15%	NA	NA	
Calibrated Revenues	\$ 12,485,950	\$ 5,773,353	\$ 1,556,334	\$ 5,175,625	\$ 15,745,351	\$ 8,882,251	\$ 705,300	\$ 13,319,222	\$ 63,643,385
LEGISLATIVE SURCHARGE									
Surcharge	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	
Surcharge Revenues	\$ -	\$ 173,201	\$ 46,690	\$ 155,269	\$ 472,361	\$ 266,468	\$ 21,159	\$ 399,577	\$ 1,534,723
Totals by Class	\$ 12,485,950	\$ 5,946,554	\$ 1,603,024	\$ 5,330,894	\$ 16,217,712	\$ 9,148,718	\$ 726,459	\$ 13,718,798	\$ 65,178,108

1 - Includes multi-family units that receive the residential wastewater charge

2 - Adjustment factor calibrates historical billing determinants and actual revenue performance with predicted results from the RAM's revenue forecasting module; this adjustment primarily accounts for partial bills that occur within the billing data (move-ins and move-outs); Navy and leachate revenues are therefore excluded

Schedule J-4WW

Proof of Wastewater System Revenues, Forecast Year #4

FY 2028	Customer Class								
	RES	COM-1	COM-2	COM-3	HOT	GOV	Leachate	NAVY	TOTAL
BILLING DETERMINANTS									
Billable Flows (kgals)									
Subtotal	-	358,218	38,476	95,175	421,710	392,643	30,000	595,338	1,931,559
Wastewater Accounts by Meter Size									
3/4 inch ¹	28,661	1,343	-	161	1	75			
1 inch	142	209	1	29	1	29			
1.5 inch	57	224	4	40	2	49			
2 inch	21	98	4	25	7	38			
3 inch	8	20	2	6	4	28			
4 inch	16	33	4	8	18	25			
6 inch	10	16	2	2	13	13			
8 inch	2	1	2	-	4	4			
10 inch	-	1	-	-	-	2			
12 inch	-	-	-	-	-	-			
Subtotal	28,917	1,945	19	271	50	263	-	-	31,465
WASTEWATER RATES									
Volumetric Rates									
Rate per Kgal	\$ -	\$ 17.57	\$ 42.76	\$ 59.28	\$ 42.76	\$ 25.11	\$ 25.87	\$ 25.11	
Monthly Base Charges by Meter Size									
3/4 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1.5 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
6 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
8 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
10 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
12 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
WASTEWATER RATE REVENUES									
Volume Revenues									
Subtotal	\$ -	\$ 6,293,888	\$ 1,645,216	\$ 5,641,967	\$ 18,032,333	\$ 9,859,257	\$ 776,100	\$ 14,948,929	\$ 57,197,691
Base Charge Revenues									
3/4 inch	\$ 12,436,581	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1 inch	61,617	-	-	-	-	-	-	-	-
1.5 inch	24,733	-	-	-	-	-	-	-	-
2 inch	9,112	-	-	-	-	-	-	-	-
3 inch	3,471	-	-	-	-	-	-	-	-
4 inch	6,943	-	-	-	-	-	-	-	-
6 inch	4,339	-	-	-	-	-	-	-	-
8 inch	868	-	-	-	-	-	-	-	-
10 inch	-	-	-	-	-	-	-	-	-
12 inch	-	-	-	-	-	-	-	-	-
Subtotal	\$ 12,547,665	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,547,665
FORECAST CALIBRATION									
Calibration factor ²	-0.15%	-0.15%	-0.15%	-0.15%	-0.15%	-0.15%	NA	NA	
Calibrated Revenues	\$ 12,528,843	\$ 6,284,447	\$ 1,642,748	\$ 5,633,504	\$ 18,005,285	\$ 9,844,468	\$ 776,100	\$ 14,948,929	\$ 69,664,325
LEGISLATIVE SURCHARGE									
Surcharge	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	
Surcharge Revenues	\$ -	\$ 188,533	\$ 49,282	\$ 169,005	\$ 540,159	\$ 295,334	\$ 23,283	\$ 448,468	\$ 1,714,064
Totals by Class	\$ 12,528,843	\$ 6,472,980	\$ 1,692,031	\$ 5,802,509	\$ 18,545,443	\$ 10,139,802	\$ 799,383	\$ 15,397,397	\$ 71,378,389

1 - Includes multi-family units that receive the residential wastewater charge

2 - Adjustment factor calibrates historical billing determinants and actual revenue performance with predicted results from the RAM's revenue forecasting module; this adjustment primarily accounts for partial bills that occur within the billing data (move-ins and move-outs); Navy and leachate revenues are therefore excluded

Schedule J-5WW

Proof of Wastewater System Revenues, Forecast Year #5

	Customer Class									
	FY 2029	RES	COM-1	COM-2	COM-3	HOT	GOV	Leachate	NAVY	TOTAL
BILLING DETERMINANTS										
Billable Flows (kgals)										
Subtotal	-	354,419	36,917	94,176	438,368	395,487	30,000	607,244	1,956,611	
Wastewater Accounts by Meter Size										
3/4 inch ¹	28,761	1,350	-	161	1	75				
1 inch	141	209	1	29	1	29				
1.5 inch	57	224	4	40	2	49				
2 inch	21	98	4	25	7	38				
3 inch	8	20	2	6	4	28				
4 inch	16	33	4	8	18	25				
6 inch	10	16	2	2	13	13				
8 inch	2	1	2	-	4	4				
10 inch	-	1	-	-	-	2				
12 inch	-	-	-	-	-	-				
Subtotal	29,016	1,952	19	271	50	263	-	-	31,571	
WASTEWATER RATES										
Volumetric Rates										
Rate per Kgal	\$ -	\$ 19.33	\$ 47.04	\$ 65.21	\$ 47.04	\$ 27.63	\$ 28.46	\$ 27.63		
Monthly Base Charges by Meter Size										
3/4 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
1 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
1.5 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
2 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
3 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
4 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
6 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
8 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
10 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
12 inch	\$ 36.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
WASTEWATER RATE REVENUES										
Volume Revenues										
Subtotal	\$ -	\$ 6,850,916	\$ 1,736,591	\$ 6,141,187	\$ 20,620,825	\$ 10,927,310	\$ 853,800	\$ 16,778,164	\$ 63,908,794	
Base Charge Revenues										
3/4 inch	\$ 12,479,973	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
1 inch	61,183	-	-	-	-	-	-	-	-	
1.5 inch	24,733	-	-	-	-	-	-	-	-	
2 inch	9,112	-	-	-	-	-	-	-	-	
3 inch	3,471	-	-	-	-	-	-	-	-	
4 inch	6,943	-	-	-	-	-	-	-	-	
6 inch	4,339	-	-	-	-	-	-	-	-	
8 inch	868	-	-	-	-	-	-	-	-	
10 inch	-	-	-	-	-	-	-	-	-	
12 inch	-	-	-	-	-	-	-	-	-	
Subtotal	\$ 12,590,623	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,590,623	
FORECAST CALIBRATION										
Calibration factor ²	-0.15%	-0.15%	-0.15%	-0.15%	-0.15%	-0.15%	NA	NA		
Calibrated Revenues	\$ 12,571,737	\$ 6,840,640	\$ 1,733,986	\$ 6,131,976	\$ 20,589,894	\$ 10,910,920	\$ 853,800	\$ 16,778,164	\$ 76,411,116	
LEGISLATIVE SURCHARGE										
Surcharge	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%		
Surcharge Revenues	\$ -	\$ 205,219	\$ 52,020	\$ 183,959	\$ 617,697	\$ 327,328	\$ 25,614	\$ 503,345	\$ 1,915,181	
Totals by Class	\$ 12,571,737	\$ 7,045,859	\$ 1,786,006	\$ 6,315,935	\$ 21,207,591	\$ 11,238,247	\$ 879,414	\$ 17,281,509	\$ 78,326,297	

1 - Includes multi-family units that receive the residential wastewater charge

2 - Adjustment factor calibrates historical billing determinants and actual revenue performance with predicted results from the RAM's revenue forecasting module; this adjustment primarily accounts for partial bills that occur within the billing data (move-ins and move-outs); Navy and leachate revenues are therefore excluded

Schedule K
Proposed Rate Adjustments

	Proposed Rates					
	Existing	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Water Rates						
Monthly Base Charge¹						
3/4 inch	\$30.62	\$39.50	\$44.44	\$48.89	\$53.78	\$59.16
1 inch	\$35.73	\$46.10	\$51.87	\$57.06	\$62.77	\$69.05
1.5 inch	\$56.06	\$72.32	\$81.36	\$89.50	\$98.45	\$108.30
2 inch	\$71.41	\$92.12	\$103.64	\$114.01	\$125.42	\$137.97
3 inch	\$127.55	\$164.54	\$185.11	\$203.63	\$224.00	\$246.40
4 inch	\$178.55	\$230.33	\$259.13	\$285.05	\$313.56	\$344.92
6 inch	\$331.57	\$427.73	\$481.20	\$529.32	\$582.26	\$640.49
8 inch	\$484.59	\$625.13	\$703.28	\$773.61	\$850.98	\$936.08
10 inch	\$663.15	\$855.47	\$962.41	\$1,058.66	\$1,164.53	\$1,280.99
12 inch	\$790.63	\$1,019.92	\$1,147.41	\$1,262.16	\$1,388.38	\$1,527.22
Volumetric Rates						
Residential						
Tier 1 Threshold	5 kgals	5 kgals	5 kgals	5 kgals	5 kgals	5 kgals
Tier 1 Rate	\$ 3.51	\$ 3.51	\$ 3.95	\$ 3.95	\$ 3.95	\$ 3.95
Tier 2 Rate	\$14.58	\$18.81	\$21.17	\$23.29	\$25.62	\$28.19
Non-Residential²						
Commercial-1	\$18.12	\$23.38	\$26.31	\$28.95	\$31.85	\$35.04
Commercial-2	\$18.12	\$23.38	\$26.31	\$28.95	\$31.85	\$35.04
Commercial-3	\$18.12	\$23.38	\$26.31	\$28.95	\$31.85	\$35.04
Hotels	\$18.12	\$23.38	\$26.31	\$28.95	\$31.85	\$35.04
Government	\$18.12	\$23.38	\$26.31	\$28.95	\$31.85	\$35.04
Agriculture	\$5.82	\$7.51	\$8.45	\$9.30	\$10.23	\$11.26
Irrigation	\$6.02	\$7.77	\$8.75	\$9.63	\$10.60	\$11.66
Wastewater Rates						
Monthly Base Charge³						
3/4 inch	\$32.14	\$32.14	\$36.16	\$36.16	\$36.16	\$36.16
1 inch	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1.5 inch	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2 inch	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3 inch	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4 inch	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6 inch	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8 inch	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10 inch	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12 inch	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Volumetric Rates						
Residential	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Commercial-1	\$9.99	\$12.89	\$14.51	\$15.97	\$17.57	\$19.33
Commercial-2	\$24.34	\$31.40	\$35.33	\$38.87	\$42.76	\$47.04
Commercial-3	\$33.75	\$43.54	\$48.99	\$53.89	\$59.28	\$65.21
Hotels	\$24.34	\$31.40	\$35.33	\$38.87	\$42.76	\$47.04
Government	\$14.28	\$18.43	\$20.74	\$22.82	\$25.11	\$27.63
Leachate	\$14.72	\$18.99	\$21.37	\$23.51	\$25.87	\$28.46
Navy	\$14.28	\$18.43	\$20.74	\$22.82	\$25.11	\$27.63
Legislative Surcharge						
Surcharge	3.80%	3.50%	3.20%	3.00%	3.00%	3.00%

1 - The Agriculture customer class receives an approximate 3.4% discount to the water base charge for all meter sizes

2 - Non-residential volumetric water rates are applied to all levels of demand

3 - Currently, only residential customers - regardless of meter size - receive a \$32.14 monthly wastewater charge

Schedule L

Monthly Bill Impacts by Customer Class

			Forecast Years						
Meter	Kgals		FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	Total
Customer Class									
Residential	3/4 inch	3	\$74.45	\$83.55	\$93.87	\$98.37	\$103.40	\$108.94	
				\$9.10	\$10.32	\$4.50	\$5.03	\$5.54	\$34.49
				12.2%	12.4%	4.8%	5.1%	5.4%	46.3%
Residential	3/4 inch	7	\$111.74	\$129.51	\$145.47	\$154.24	\$164.08	\$174.92	
				\$17.77	\$15.96	\$8.77	\$9.84	\$10.84	\$63.18
				15.9%	12.3%	6.0%	6.4%	6.6%	56.5%
Residential	3/4 inch	12	\$187.41	\$226.85	\$254.70	\$274.19	\$296.02	\$320.09	
				\$39.44	\$27.85	\$19.49	\$21.83	\$24.07	\$132.68
				21.0%	12.3%	7.7%	8.0%	8.1%	70.8%
Commercial-1	3/4 inch	30	\$844.91	\$1,087.02	\$1,219.80	\$1,339.69	\$1,473.89	\$1,621.51	
				\$242.11	\$132.78	\$119.89	\$134.20	\$147.62	\$776.60
				28.7%	12.2%	9.8%	10.0%	10.0%	91.9%
Commercial-2	2 inch	500	\$19,584.37	\$25,194.09	\$28,267.14	\$31,041.12	\$34,149.05	\$37,568.19	
				\$5,609.72	\$3,073.05	\$2,773.98	\$3,107.93	\$3,419.14	\$17,983.82
				28.6%	12.2%	9.8%	10.0%	10.0%	91.8%
Commercial-3	3/4 inch	50	\$2,373.51	\$3,053.35	\$3,425.77	\$3,761.55	\$4,138.00	\$4,552.15	
				\$679.84	\$372.42	\$335.78	\$376.45	\$414.15	\$2,178.64
				28.6%	12.2%	9.8%	10.0%	10.0%	91.8%
Hotel	4 inch	500	\$19,695.58	\$25,337.14	\$28,427.61	\$31,217.29	\$34,342.84	\$37,781.35	
				\$5,641.56	\$3,090.47	\$2,789.68	\$3,125.55	\$3,438.51	\$18,085.77
				28.6%	12.2%	9.8%	10.0%	10.0%	91.8%
Government	1.5 inch	200	\$6,191.52	\$7,966.52	\$8,938.94	\$9,816.62	\$10,800.63	\$11,883.21	
				\$1,775.00	\$972.42	\$877.68	\$984.01	\$1,082.58	\$5,691.69
				28.7%	12.2%	9.8%	10.0%	10.0%	91.9%
Agriculture	3/4 inch	20	\$151.53	\$194.95	\$218.71	\$240.23	\$264.26	\$290.83	
				\$43.42	\$23.76	\$21.52	\$24.03	\$26.57	\$139.30
				28.7%	12.2%	9.8%	10.0%	10.1%	91.9%
Irrigation	3/4 inch	20	\$156.76	\$201.72	\$226.46	\$248.73	\$273.75	\$301.13	
				\$44.96	\$24.74	\$22.27	\$25.02	\$27.38	\$144.37
				28.7%	12.3%	9.8%	10.1%	10.0%	92.1%

Guam Waterworks Authority
 Sample Bill Summary
 FY2024 - FY2029

EXHIBIT D

Rate Class	Gals	ACTUAL		PROPOSED				
		2024	2025	2026	2027	2028	2029	
1 Residential	3	\$ 74.45	\$ 83.55	\$ 93.87	\$ 98.37	\$ 103.40	\$ 108.94	
Nominal Change			\$ 9.10	\$ 10.32	\$ 4.50	\$ 5.03	\$ 5.54	
Percentage Change			12.2%	12.4%	4.8%	5.1%	5.4%	
2 Residential	7	\$ 111.74	\$ 129.51	\$ 145.47	\$ 154.24	\$ 164.08	\$ 174.92	
Nominal Change			\$ 17.77	\$ 15.96	\$ 8.77	\$ 9.84	\$ 10.84	
Percentage Change			15.9%	12.3%	6.0%	6.4%	6.6%	
3 Residential	12	\$ 187.41	\$ 226.85	\$ 254.70	\$ 274.19	\$ 296.02	\$ 320.09	
Nominal Change			39.44	27.85	19.49	21.83	24.07	
Percentage Change			21.0%	12.3%	7.7%	8.0%	8.1%	
4 Commercial 1	30	\$ 844.91	\$ 1,087.02	\$ 1,219.80	\$ 1,339.69	\$ 1,473.89	\$ 1,621.51	
Nominal Change			\$ 242.11	\$ 132.78	\$ 119.89	\$ 134.20	\$ 147.62	
Percentage Change			28.7%	12.2%	9.8%	10.0%	10.0%	
5 Commercial 2	500	\$ 19,584.37	\$ 25,194.09	\$ 28,267.14	\$ 31,041.12	\$ 34,149.05	\$ 37,568.19	
Nominal Change			\$ 5,609.72	\$ 3,073.05	\$ 2,773.98	\$ 3,107.93	\$ 3,419.14	
Percentage Change			28.6%	12.2%	9.8%	10.0%	10.0%	
6 Commercial 3	50	\$ 2,373.51	\$ 3,053.35	\$ 3,425.77	\$ 3,761.55	\$ 4,138.00	\$ 4,552.15	
Nominal Change			\$ 679.84	\$ 372.42	\$ 335.78	\$ 376.45	\$ 414.15	
Percentage Change			28.6%	12.2%	9.8%	10.0%	10.0%	
7 Hotel	500	\$ 19,695.58	\$ 25,337.14	\$ 28,427.61	\$ 31,217.29	\$ 34,342.84	\$ 37,781.35	
Nominal Change			\$ 5,641.56	\$ 3,090.47	\$ 2,789.69	\$ 3,125.55	\$ 3,438.51	
Percentage Change			28.6%	12.2%	9.8%	10.0%	10.0%	
8 Government	200	\$ 6,191.52	\$ 7,966.52	\$ 8,938.94	\$ 9,816.62	\$ 10,800.63	\$ 11,883.21	
Nominal Change			\$ 1,775.00	\$ 972.42	\$ 877.68	\$ 984.01	\$ 1,082.58	
Percentage Change			28.7%	12.2%	9.8%	10.0%	10.0%	
9 Agriculture	20	\$ 151.53	\$ 194.95	\$ 218.71	\$ 240.23	\$ 264.26	\$ 290.83	
Nominal Change			\$ 43.42	\$ 23.76	\$ 21.52	\$ 24.03	\$ 26.57	
Percentage Change			28.7%	12.2%	9.8%	10.0%	10.1%	
10 Irrigation	20	\$ 156.76	\$ 201.72	\$ 226.46	\$ 248.73	\$ 273.75	\$ 301.13	
Nominal Change			\$ 44.96	\$ 24.74	\$ 22.27	\$ 25.02	\$ 27.38	
Percentage Change			28.7%	12.3%	9.8%	10.1%	10.0%	

Commercial 1 - Grocery Store
 Commercial 2 - Industrial Laundry
 Commercial 3 - Restaurant

Attachment E

Capital Improvement Plan						
<i>Projected encumbrances by category by year (NOMINAL DOLLARS)</i>						
Project Number	Project Description	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Estimated Inflation Factors		1.0816	1.1249	1.1699	1.2167	1.2653
Water Production						
MP-PW-SWTP-01	Ugum SWTP River Intake Cleaning Project	\$ 119,024	\$ -	\$ -	\$ -	\$ -
MP-PW-SWTP-02	Ugum SWTP Intake Modifications	3,203,900	-	-	-	-
MP-PW-Well-01	Well Rehabilitation	9,014,155	7,582,640	7,885,945	16,402,766	7,177,966
MP-PW-Well-02	Well Equipment Overhaul	3,387,737	3,523,247	5,038,243	3,810,744	2,476,983
MP-PW-Well-03	Capacity Enhancement – Well Exploration	1,347,268	1,401,159	1,457,206	1,393,828	1,576,114
MP-PW-Well-04	Capacity Enhancement – Well Development and Construction	11,119,180	-	-	-	618,430
MP-PW-Well-05	Wellhead Protection	594,880	618,675	643,422	669,159	948,989
MP-PW-Well-06	Well Repair	811,200	956,134	994,380	1,998,883	3,285,965
MP-PW-Well-08	PFAS Water Treatment Design & Construction (3@\$33.33M)	2,704,000	6,749,184	7,019,151	7,299,917	10,122,552
MP-PW-Well-09	PFAS Well Transmission Mains Design & Construction	2,163,200	5,624,320	5,849,293	6,083,265	10,122,552
MP-PW-Well-10	PFAS Well Pumps & Booster Stations	2,163,200	4,499,456	7,019,151	7,299,917	7,591,914
MP-PW-SW-01	Santa Rita Spring Impoundment Expansion	-	5,061,888	4,094,505	-	-
Subtotal, Water Production		\$ 36,627,745	\$ 36,016,703	\$ 40,001,296	\$ 44,958,480	\$ 37,461,466
Water Treatment Program						
MP-PW-SWTP-04	Ugum SWTP 7-Year Improvement Project	\$ 1,767,515	\$ 1,838,216	\$ 1,911,744	\$ 1,988,214	\$ 2,067,743
Subtotal, Water Treatment Program		\$ 1,767,515	\$ 1,838,216	\$ 1,911,744	\$ 1,988,214	\$ 2,067,743
Water Distribution - System Improvement Program						
MP-PW-Pipe-01	Astumbo Zone Piping	\$ -	\$ 1,407,094	\$ 5,853,510	\$ -	\$ -
MP-PW-Pipe-02	Route 1 Astumbo Zone Piping	760,177	4,821,835	5,014,708	-	-
MP-PW-Pipe-03	Harmon Cliffline Piping to Route 1	591,403	-	-	-	-
MP-PW-Pipe-04	Hyundai Well Piping	762,966	-	-	-	-
MP-PW-Pipe-06	Mangilao Pressure Zone Realignment	479,818	-	-	-	-
MP-PW-Pipe-07	Mataguac BPS Suction Piping	1,022,403	-	-	-	-
MP-PW-Pipe-08	Nimitz Lower BPS Piping	168,773	2,130,949	-	-	-
MP-PW-Pipe-09	Yigo, Santa Rosa Zone Realignment	248,278	3,139,125	-	-	-
MP-PW-Pipe-10	Miscellaneous Piping Projects	-	-	1,354,048	-	-
MP-PW-Pipe-11	Miscellaneous Piping Connections	162,357	168,851	175,605	182,629	189,935
MP-PW-Pipe-12	Piping Rehabilitation and Replacement	-	10,239,146	10,648,711	22,149,320	8,158,707
MP-PW-Pipe-13	2-Inch Pipe Replacement	-	11,209,847	11,892,212	12,319,234	2,855,547
MP-PW-Pipe-14	Asbestos Cement Pipe Replacement	-	13,962,142	14,520,628	25,169,088	6,282,204
MP-PW-Pipe-15	PRV Rehab and Replacement	2,047,595	2,129,499	2,214,679	2,303,266	2,395,396
MP-PW-Pipe-16	Valve Exercise, Repair, and Replacement	784,586	489,582	848,608	529,531	407,935
Subtotal, Water Distribution- System Improvement		\$ 7,028,355	\$ 49,698,069	\$ 52,522,710	\$ 62,653,069	\$ 20,289,725
Water Distribution - Booster Pump Station Improvement						
MP-PW-BPS-01	Rehabilitate and Replace BPSs	\$ 3,512,155	\$ -	\$ 226,295	\$ 235,347	\$ 244,761
MP-PW-BPS-01.A	Brigade Booster Pump Improvement	4,915,590	-	-	-	-
MP-PW-BPS-02	Nimitz Hill Upper BPS	-	69,629	-	-	-
MP-PW-BPS-03	Route 15 BPS	-	-	1,713,811	-	-
Subtotal, Water Distribution- Booster Pump Stations		\$ 8,427,744	\$ 69,629	\$ 1,940,107	\$ 235,347	\$ 244,761
Water Storage Tank Improvements						
MP-PW-Tank-08	Maloloj Tank	1,380,871	1,122,959	-	-	-
MP-PW-Tank-09A	Manenggon Hills Tanks A	2,393,510	1,025,949	-	-	-
MP-PW-Tank-10A	Nimitz Hill Tanks A	51,608	320,585	333,409	-	-
MP-PW-Tank-10B	Nimitz Hill Tanks B	51,608	320,585	333,409	-	-
MP-PW-Tank-13	Piti Tank	937,319	-	-	-	6,688,508
MP-PW-Tank-15	Sinifa Tank (formerly Santa Rita Tank)	-	-	-	-	6,688,508
MP-PW-Tank-22	Existing Tank Assessment Inspections	-	-	-	167,881	174,596
MP-PW-Tank-23	Recurring Tank Inspections	845,726	879,555	914,737	951,326	349,193
Subtotal, Water Storage Tank Improvements		\$ 5,660,642	\$ 3,669,633	\$ 1,581,554	\$ 1,119,207	\$ 13,900,805
Wastewater Collection - Gravity Piping Projects						
MP-WW-Pipe-01	Gravity Pipe Rehabilitation/Replacement	\$ -	\$ 6,550,964	\$ 8,065,171	\$ 277,710	\$ 10,093,952
MP-WW-Pipe-02	Barrigada Pump Station Pipe Rehabilitation/Replacement	-	6,744,707	-	-	-
MP-WW-Pipe-06	Rt.1 Dededo (Northern District Route 1 Capacity Replacement) Phase 1	581,392	6,896,210	7,172,059	7,458,941	-
MP-WW-Pipe-09	North Dededo Capacity Replacement - Phase 1	-	-	-	-	1,212,384
MP-WW-Pipe-14	Dededo Capacity Replacement	-	-	-	-	409,567
MP-WW-Pipe-17	Mamajanao Capacity Replacement	-	2,658,739	3,883,231	-	-
MP-WW-Pipe-18	Rt.12 at Rt.2 (Agat-Santa Rita Capacity Replacement) Phase 1	-	-	345,478	4,366,477	-
MP-WW-Pipe-19	Rt.12 at Rt.2 (Agat-Santa Rita Capacity Replacement) Phase 2 (first priority)	-	4,812,492	-	-	-
MP-WW-Pipe-20	Rt.12 at Rt.2 (Agat-Santa Rita Capacity Replacement) Phase 3	-	-	-	706,042	4,479,130

Capital Improvement Plan						
<i>Projected encumbrances by category by year (NOMINAL DOLLARS)</i>						
		FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Project Number	Project Description					
MP-WW-Pipe-24	Umatac-Merizo Capacity Replacement - Rt.4 (PS17 to PS14)	-	2,851,837	-	-	-
MP-WW-Pipe-27	Septic/Cesspool System Reduction	13,152,256	13,759,899	11,923,273	12,400,204	7,064,114
MP-WW-Pipe-28	CCTV Inspection, Assessment, Documentation, & Reporting	2,902,387	-	-	-	-
MP-WW-Pipe-29	Gravity Main Condition Assessment Report	-	112,486	-	-	-
MP-WW-Pipe-30	Future Gravity Main Rehabilitation and Replacement Plan	-	10,292,093	10,703,776	11,131,928	11,577,205
MP-WW-Pipe-33	Clean all mains [5 year rotation; 60 miles per year]	1,697,506	1,765,407	1,836,023	1,909,464	1,985,842
MP-WW-Pipe-34	"Hot Spot" Cleaning	63,276	-	-	-	-
MP-WW-MH-01	Manhole Rehabilitation	488,187	507,714	528,023	549,144	571,109
Subtotal, Wastewater Collection Gravity Piping Projts		\$ 18,885,004	\$ 56,952,548	\$ 44,457,034	\$ 38,799,909	\$ 37,393,304
Wastewater Collection - Forcemain Projects						
MP-WW-FM-01	Force Main Rehabilitation/Replacement [25%]	\$ -	\$ -	\$ 7,141,886	\$ 7,427,561	\$ -
MP-WW-FM-02	Replace Yigo Lift Station Force Main	4,647,538	-	-	-	-
MP-WW-FM-03	Route 1 Asan Force Main Rehabilitation/Replacement	2,123,695	-	-	-	-
MP-WW-FM-04	Hagáthra WWTP Force Main Rehabilitation/Replacement	8,428,863	-	-	-	-
MP-WW-FM-05	Force Main Action Plan and Implementation [75%]	1,622,400	-	-	-	-
MP-WW-FM-06	Force Main Action Plan	4,569,760	-	-	-	-
MP-WW-FM-07	Force Main Inventory and Mapping	513,760	-	-	-	-
MP-WW-FM-08	Force Main Assessment	216,320	-	-	-	-
MP-WW-FM-09	Force Main Assessment Report	216,320	-	-	-	-
MP-WW-FM-10	Prepare a force main spill contingency plan	216,320	-	-	-	-
MP-WW-FM-11	Prepare a force main operation and maintenance program	-	-	-	-	-
MP-WW-FM-12	Force Main Operation and Maintenance Program	-	-	-	-	-
Subtotal, Wastewater Collection Forcemain Projects		\$ 22,554,977	\$ -	\$ 7,141,886	\$ 7,427,561	\$ -
Wastewater Collection - Lift/Pump Station Projects						
MP-WW-Pump-01	Lift Station Rehabilitation/Replacement	\$ -	\$ 2,249,728	\$ 2,339,717	\$ 2,433,306	\$ 2,530,638
MP-WW-Pump-02	Tumon Basin - Fujita Lift Station	-	3,963,447	2,924,646	3,041,632	3,163,298
MP-WW-Pump-09	Tier 1 Pump Station Improvements (23 pump stations)	3,615,535	-	-	5,445,592	3,061,181
Subtotal, Wastewater Collection Lift/Pump Station Projects		\$ 3,615,535	\$ 6,213,175	\$ 5,264,364	\$ 10,920,530	\$ 8,755,117
Wastewater Treatment Projects						
MP-WW-WWTP-01	Hagáthra WWTP Primary Treatment Repair/Rehabilitation	\$ -	\$ -	\$ -	\$ 16,945,007	\$ 17,622,807
MP-WW-WWTP-02.1	Hagáthra WWTP Secondary Treatment Upgrade Alternatives Evaluation	2,334,478	3,374,591	-	-	-
MP-WW-WWTP-02	Hagáthra WWTP Secondary Treatment Upgrade	-	-	5,849,293	6,083,265	6,326,595
MP-WW-WWTP-03	Inarajan WWTP Repair/Rehabilitation	-	-	301,727	2,824,168	-
MP-WW-WWTP-09	Ocean Outfall Inspection	-	-	175,479	243,331	-
Subtotal, Wastewater Treatment Projects		\$ 2,334,478	\$ 3,374,591	\$ 6,326,499	\$ 26,095,770	\$ 23,949,402
Electrical, Monitoring and Control Projects						
MP-Gen-EE-02	Electrical: SCADA Implementation Phase B – Additional Sites	\$ 836,892	\$ 870,367	\$ 3,853,058	\$ -	\$ 4,167,468
MP-Gen-EE-03	Electrical: SCADA Implementation Phase C – Additional Instruments	-	5,436,895	-	651,128	677,173
MP-Gen-EE-04	Electrical: SCADA Control Center System Improvement	3,222,032	3,350,914	-	-	-
MP-Gen-Misc-04	Monitoring: Information Technology Improvements	1,222,933	1,378,082	1,433,205	1,490,533	326,348
MP-Gen-Misc-03	Control: Surveying and Property Delineation	429,173	727,556	744,959	786,924	818,401
MP-Gen-Misc-09	Control: Security and Resilience	906,633	942,898	980,614	1,019,838	163,174
Subtotal, Electrical Monitoring and Control Projects		\$ 6,617,663	\$ 12,706,711	\$ 7,011,836	\$ 3,948,423	\$ 6,152,564
General Plant Facility and Fleet						
MP-Gen-Misc-05	GWA Customer Service, Warehouse, Test Bench and Improvements	\$ 5,811,747	\$ 6,044,217	\$ 6,285,986	\$ -	\$ -
MP-Gen-Misc-06	GPWA Fleet Maintenance Facility	3,942,594	-	-	-	4,612,278
MP-Gen-Misc-07	Mobile Equipment Replacement	1,622,400	1,687,296	1,754,788	1,824,979	652,697
MP-Gen-Misc-07.A	Wastewater Light Mobile Replacement Program	1,622,400	-	-	-	-
MP-Gen-Misc-08	General Plant Improvements	2,231,096	3,445,204	3,583,012	3,726,332	815,871
Subtotal, General Plant Facility and Fleet		\$ 15,230,238	\$ 11,176,717	\$ 11,623,786	\$ 5,551,312	\$ 6,080,845
Miscellaneous Planning Program						
MP-Gen-Misc-01	GWA Engineering Systems Planning	\$ 1,850,806	\$ 3,093,376	\$ 3,217,111	\$ 2,737,469	\$ 1,631,741
MP-Gen-Misc-02A	WRMP Comprehensive Update & Water System Planning	-	-	-	2,039,677	2,121,263
MP-Gen-Misc-02B	WRMP Update (Interim Update)	144,333	-	301,727	-	-
Subtotal, Miscellaneous Planning Program		\$ 1,995,139	\$ 3,093,376	\$ 3,518,838	\$ 4,777,146	\$ 3,753,005

Capital Improvement Plan		<i>Projected encumbrances by category by year (NOMINAL DOLLARS)</i>				
		FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Project Number	Project Description					
Miscellaneous Water Supply Support Program						
MP-PW-Misc-01	South Guam Water Supply Study	\$ -	\$ -	\$ 678,886	\$ -	\$ -
MP-PW-Misc-02	Master Meter Implementation and Ongoing Meter Replacement	1,023,797	1,064,749	1,107,339	1,151,633	1,197,698
MP-PW-Misc-02.A	District Meter Area Implementation	6,128,820	-	-	-	-
MP-PW-Misc-03	Hydrant Condition Assessment and Maintenance	1,352,975	1,407,094	1,463,378	1,521,913	1,582,789
MP-PW-Misc-04	OneGuam	66,192	181,326	-	196,123	81,587
MP-PW-Misc-05	Leak Detection Assistance	267,364	446,789	464,660	483,247	502,576
Subtotal, Miscellaneous Water Supply Support Program		\$ 8,839,149	\$ 3,099,958	\$ 3,714,263	\$ 3,352,915	\$ 3,364,651
Miscellaneous Wastewater Projects						
MP-WW-Misc-01A	Update Wastewater Collection System Model (Major Update)	\$ 697,410	\$ -	\$ -	\$ -	\$ -
MP-WW-Misc-01B	Update Wastewater Collection System Model (Continued)	1,115,855	-	-	-	-
MP-WW-Misc-02	I/I and SSES Assessments	703,040	-	760,408	-	822,457
MP-WW-Misc-03	Miscellaneous Wastewater Improvements	811,200	899,891	994,380	1,064,571	1,113,481
Subtotal, Miscellaneous Wastewater Projects		\$ 3,327,505	\$ 899,891	\$ 1,754,788	\$ 1,064,571	\$ 1,935,938
Grand Totals		\$ 142,911,688	\$ 188,809,218	\$ 188,770,704	\$ 212,892,454	\$ 165,349,325



Presentation To:

Consolidated Commission on Utilities

GWA Work Session
February 20, 2024



Issues for Resolution

GWA Work Session
February 20, 2024



Design-Build of Upper Tumon Campus Improvements

Relative to Approval to Procure Design-Build of Upper Tumon Campus Improvements

GWA Resolution No. 10-FY2024

What is the project's objective and is it necessary and urgent?

- GWA Upper Tumon Campus Improvements project is needed to make necessary repairs, rehabilitation and renovations of the Customer Service Center, Compliance Laboratory, Warehouse and Meter Testing Facility which will be implemented in two phases. Phase I is comprised of Warehouse Rehabilitation and Meter Testing Facility Repair and Phase II includes the Customer Service Center Renovation and replacement of essential laboratory equipment.
- The Upper Tumon Warehouse was constructed in 1993. Normal wear in Guam's tropical environment over the span of 30 years contributed to deterioration of roofing and other structural components. In May 2023, Typhoon Mawar caused additional damage to the Warehouse and Meter Testing Facility affecting the integrity of stored materials and the safety for occupants of both buildings.
- The existing Customer Service Center that houses both GWA and GPA personnel, has not seen significant renovation or rehabilitation for many years, and renovations are necessary to improve customer experience, working conditions for utility personnel, and to meet current requirements of the building code, fire/safety code, and other relevant code standards. The GWA Compliance Laboratory has three laboratories served by a special laboratory ventilation and exhaust systems, components of which are beyond their useful life or no longer meet current standards. Replacement of equipment in the laboratory is necessary to meet acceptable indoor air quality requirements and ensure continued operation of the laboratory.
- The objective of this project is to procure the design-build renovation/rehabilitation and repair of these facilities in the following phases:
 1. Phase I - Upper Tumon Warehouse and Meter Testing Facility
 2. Phase II – Upper Tumon Customer Service Center and Laboratory Equipment Replacement

3
(continued on next page)

Design-Build of Upper Tumon Campus Improvements *(continuation)*

Relative to Approval to Procure Design-Build of Upper Tumon Campus Improvements

GWA Resolution No. 10-FY2024

Where is the project located?

- Both Phase I and Phase II projects are located in Upper Tumon.

How much will it cost?

- Phase I is estimated to cost \$3,167,500.00
- Phase II is estimated to cost \$5,080,900.00
- Total estimated cost for Phase I and Phase II is \$8,248,400.00.

When will it be completed?

- Phase I and Phase II will be advertised as separate projects. Phase I is expected to take up to three years to complete; Phase II will require up to four years to complete.

What is the funding source?

- GWA intends to use multiple sources including bonds funds, Internal Funded Capital Improvement Project (revenue) funding, FEMA Public Assistance Program funding, GWA Property Insurance Claims as applicable.

The RFP/BID responses (if applicable):

- Not applicable.

Five-Year Financial Plan and Capital Improvement Program

Relative to Approving the Five-Year Financial Plan and Capital Improvement Program

GWA Resolution No. 11-FY2024

What is the project's objective and is it necessary and urgent?

- The Guam Waterworks Authority (GWA, the Authority) has prepared its fourth consecutive Five-Year Financial Plan (Financial Plan) to support the continued improvement of the operations and maintenance of the Authority, invest in critical infrastructure, and enhance GWA's financial stability while ensuring just and reasonable rates. The CCU's approval of the Financial Plan is necessary and urgent to authorize and enable the Authority to obtain necessary resources to continue its operations and to timely meet regulatory compliance requirements, including the Clean Water Act (Consent Decree compliance), impending additions to federal Safe Drinking Water Act (PFAS) and local regulations for emerging contaminants (Dieldrin).
- On September 28, 2023, the Public Utilities Commission (PUC) ordered GWA to provide its next multi-year rate plan on or before April 1, 2024. Because of the notice requirements in the Ratepayers Bill of Rights, GWA requested, and PUC agreed to modify the order to allow for an advance draft of the rate plan to be provided on or before March 4, 2024, and the final submission of the rate plan on or before June 3, 2024. GWA believes this schedule will help to facilitate the review and approval of the rate plan before the start of FY2025.

Where is the location?

- Approval of the Financial Plan will impact utility operations at all GWA sites and the provision of water/wastewater services to all GWA customer locations.

*(continued on next page)*⁵

Five-Year Financial Plan and Capital Improvement Program *(continuation)*

Relative to Approving the Five-Year Financial Plan and Capital Improvement Program

GWA Resolution No. 11-FY2024

How much will it cost?

- Revenue requirements are projected to be:

FY2025	\$155,271,144
FY2026	\$169,933,072
FY2027	\$182,505,875
FY2028	\$200,707,639
FY2029	\$221,593,952

When will it be completed?

- As stated above, an advance draft of the Financial Plan will be submitted to the Public Utilities Commission (PUC) on March 4, 2024, and, after the Ratepayer Bill of Rights public notice requirements are met, the final Financial Plan and Rate Petition will be submitted to the PUC on or before June 3, 2024.

What is the funding source?

- The Financial Plan provides for the primary funding source for overall revenue requirements from operating revenues. The Capital Improvement Plan will be funded through a combination of revenues, debt financing, grants and SDC sources.

The RFP/BID responses (if applicable):

- Not applicable.



Management Report

GWA Work Session

February 20, 2024

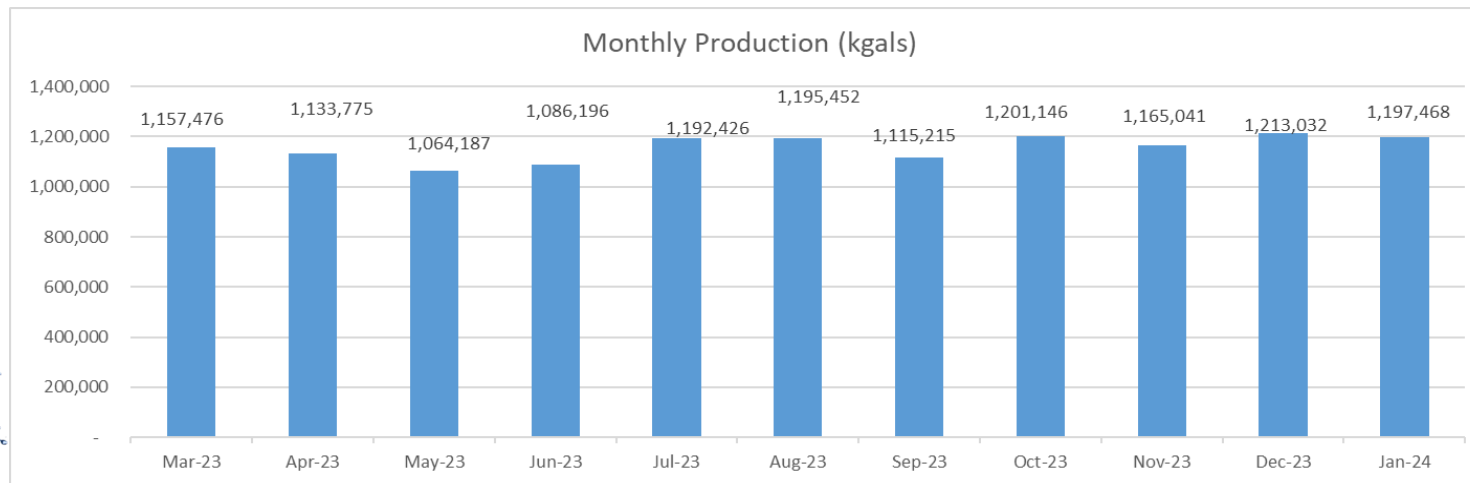




Operations Update

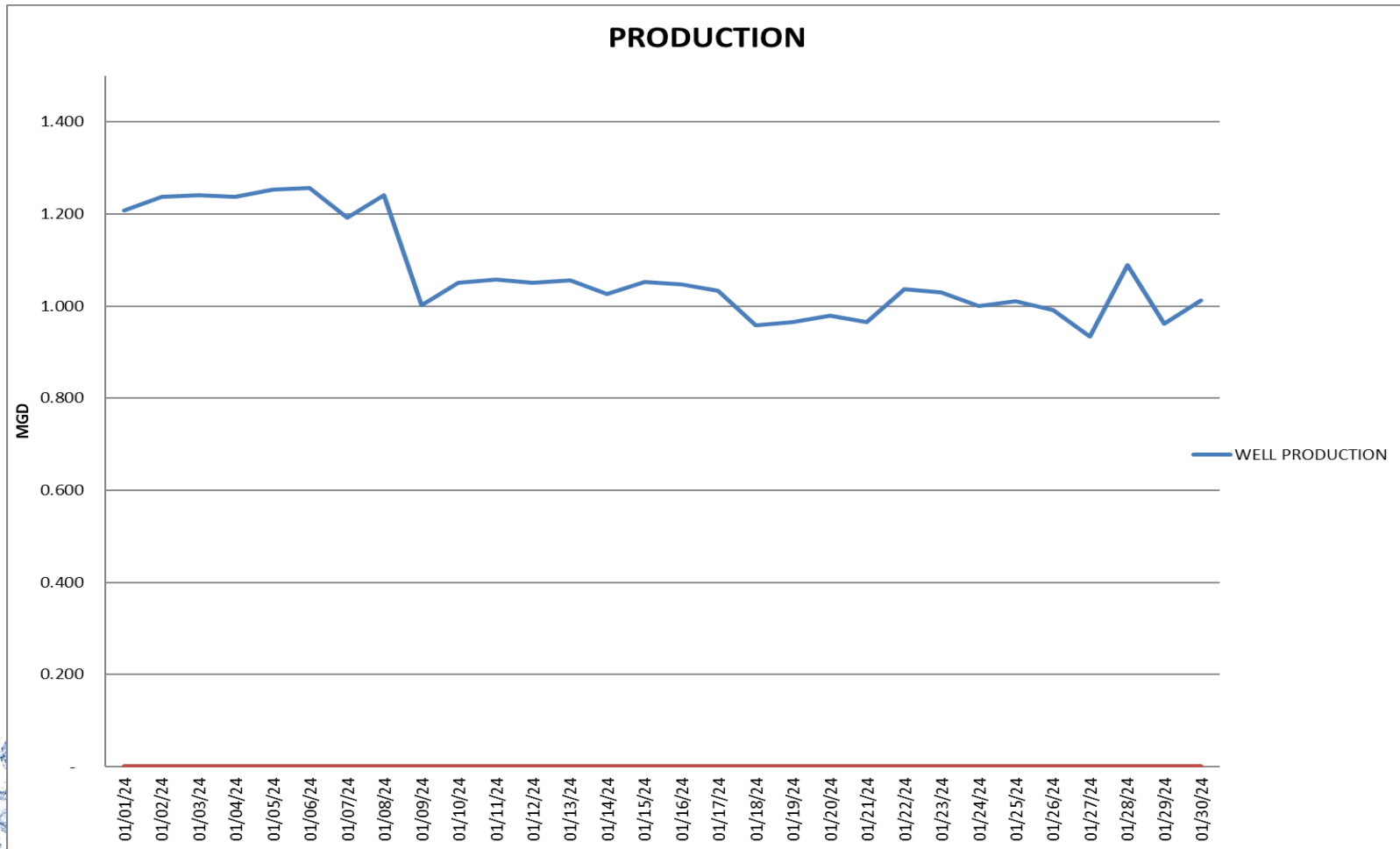
Water Production (January 2024)

Monthly Production Summary - January 2024				DW Status as of 1/31/2024		REMARKS	
Deep Wells			35.5 MGD		Active	93	DW units on line
Active wells =	93 of 120						
Avg days in operation =	31 days						A29
Total Production =	1,099,434 Kgals				Standby	1	
Springs			0.27 MGD		Grounded Motors	15	A09-A18-A26-D01-D03-D09-D12-D14-F01-F10-F13-F20-M05-M12-Y16
Avg days in operation =	31 days						
Total Production =	8,244 Kgals				Out of Commission	9	A02-A07-A28-D05-D13-M01-M14-MJ01-MJ05
Ugum Surface Water Plant			1.7 MGD		Secured - PFO	2	A23 and-A25
Avg days in operation =	31 days						
Total Production =	53,565 Kgals				TOTAL	120	
Tumon Maui Well			1.21 MGD				
Avg days in operation =	30 days						
Total Production =	36,225 Kgals						
		1,197,468 Kgals	38.7 MGD				





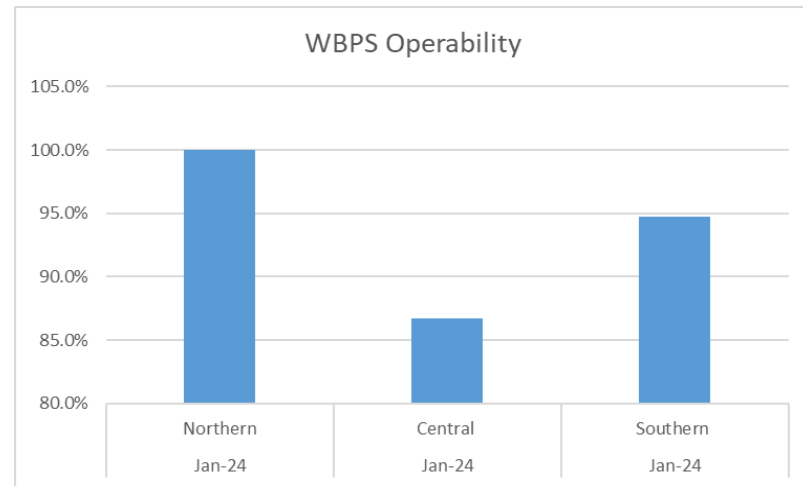
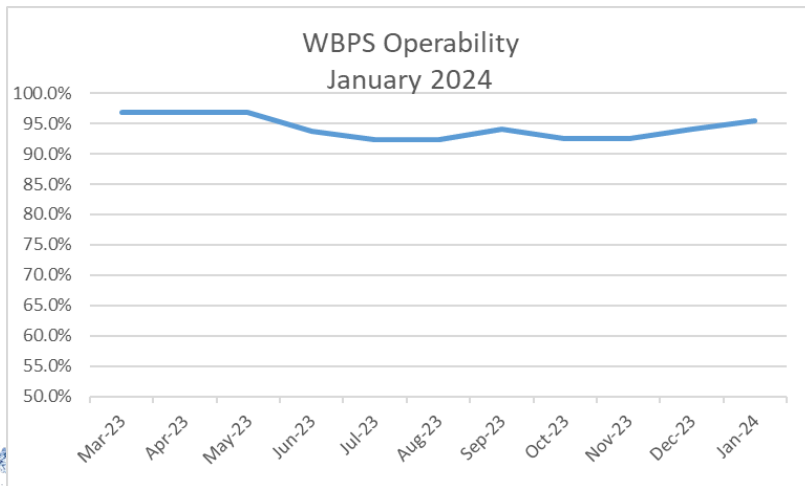
Tumon Maui Well Production (January 2024)





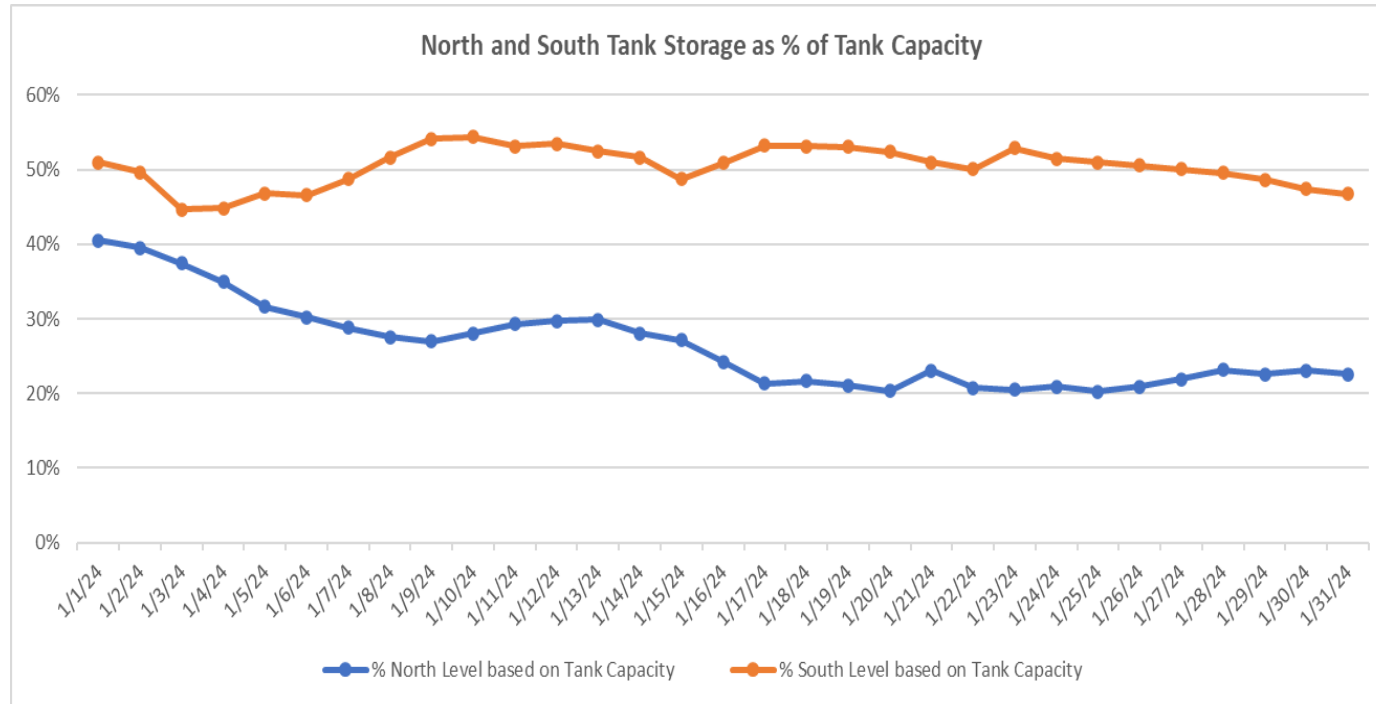
Water Distribution (January 2024)

Monthly Distribution Summary - January 2024					
Water Booster Pump Stations					
	District	No. of Stations	Total Pumps	Pumps Operating	% Operational
	Northern	14	33	33	100.0%
	Central	7	15	13	86.7%
	Southern	8	19	18	94.7%
		29	67	64	95.5%





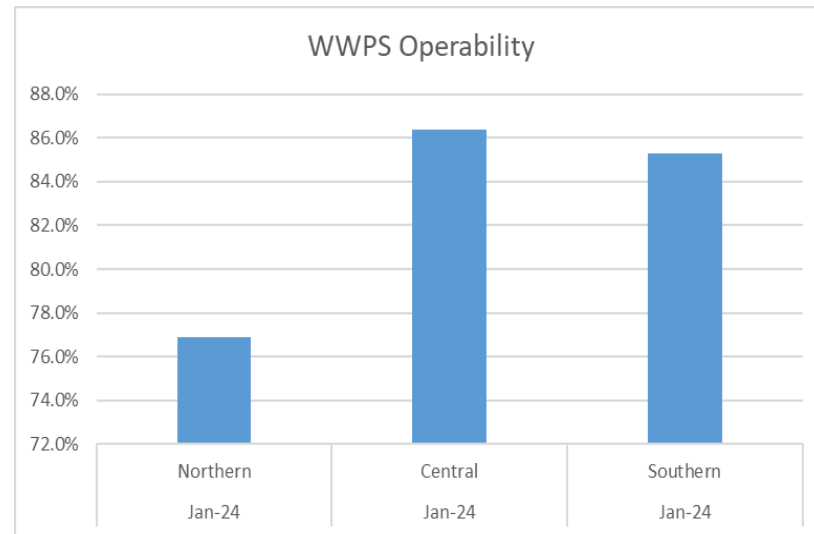
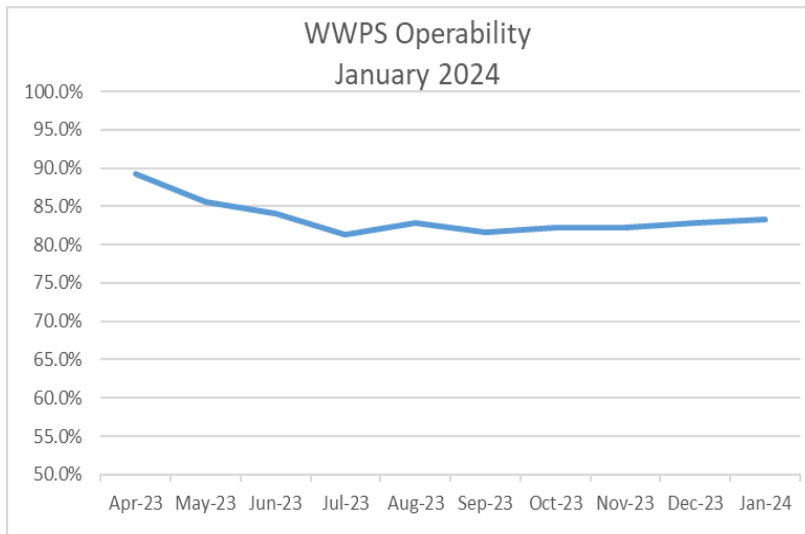
Water Distribution – Tank Levels (January 2024)





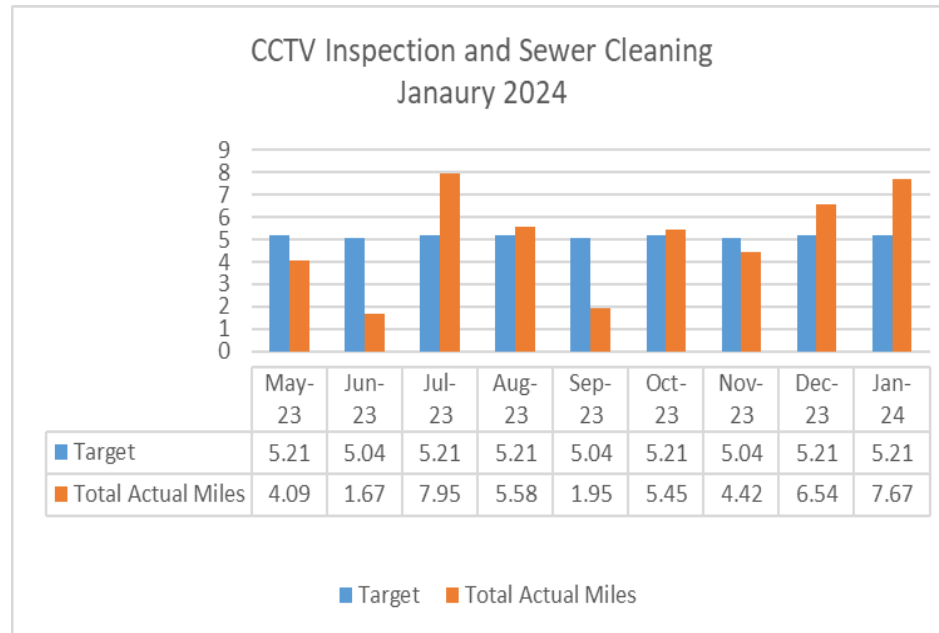
Wastewater Collections (January 2024)

Monthly Collections Summary - January 2024					
Wastewater Pump Stations					
	District	No. of Stations	Total Pumps	Pumps Operating	% Operational
	Northern	22	52	40	76.9%
	Central	30	66	57	86.4%
	Southern	32	68	58	85.3%
		84	186	155	83.3%





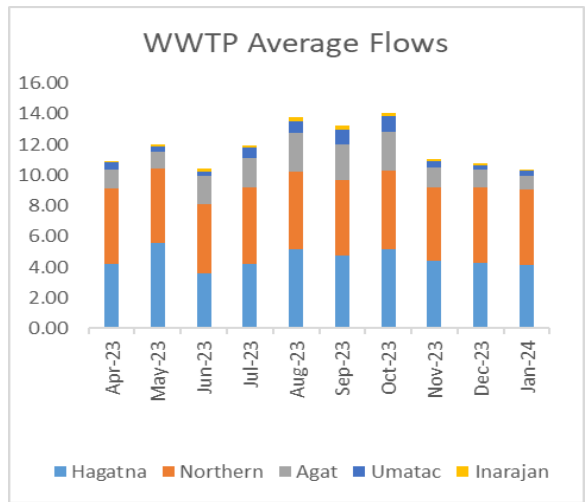
Wastewater Collections – CCTV (January 2024)





Wastewater Treatment (January 2024)

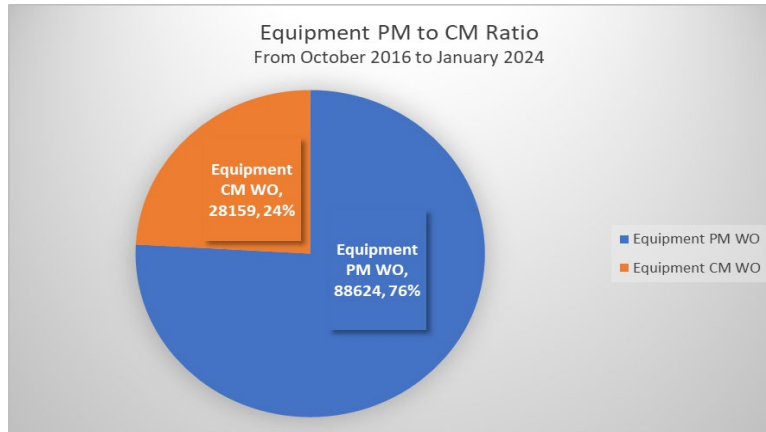
Monthly Wastewater Treatment Summary - January 2024				
WW Treatment Plants - Flows				
	Facility	Avg. Daily Flows	Sludge (lbs)	Sludge Disp. (\$)
	Hagatna	4.14	294,880	\$ 26,539
	Northern	4.93	708,340	\$ 63,751
	Agat	0.91	49,540	\$ 6,012
	Umatac	0.30		
	Inarajan	0.11		
		10.39	1,052,760	\$ 96,302



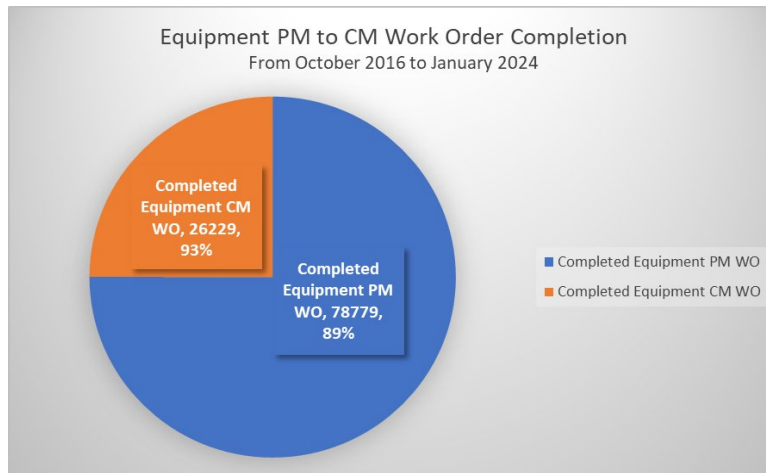


Asset Management (through January 2024)

I. Equipment Preventive Maintenance to Corrective Maintenance *Ratio*



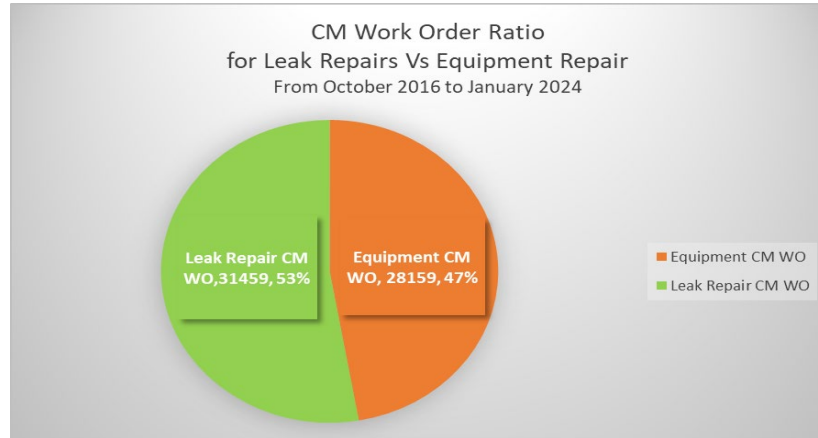
II. Equipment Preventive Maintenance to Corrective Maintenance *Work Order Completion*



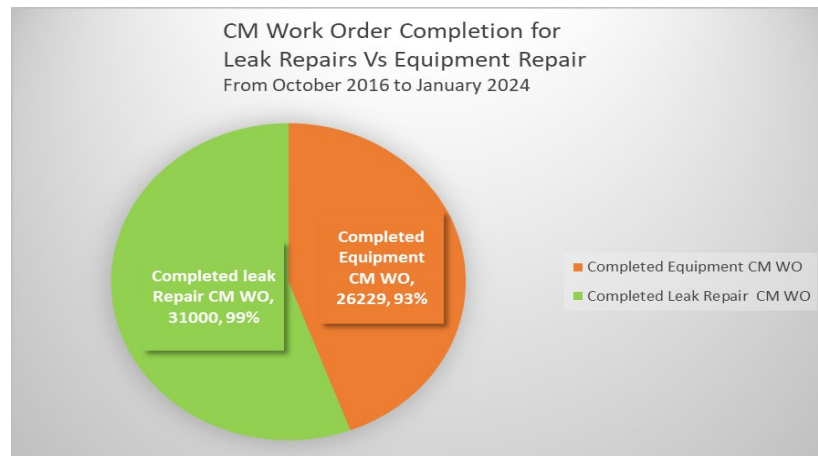


Asset Management (through January 2024)

III. Corrective Maintenance Work Order **Ratio** for Leak Repairs vs. Equipment Repair



IV. Corrective Maintenance Work Order **Completion** for Leak Repairs vs. Equipment Repair





One Guam Update (January 2024)

- TMW- inspection on January 17, 2024. No major issues

- Interagency Billing & Contracts/Agreements
 - Still working on this. No response on the water for trade idea from DOD Finance.
 - Preparing new (separate) contract with GWA for purpose of PFAS study.

- Other
 - PFAS – Allonia
 - Navy and GWA will be sending samples to Allonia for the PFAS study. GWA and Navy will coordinate the shipping of the samples. Shipping carboys may require a preservative. GWA will need to confirm with Allonia.
 - USGS
 - Stephen Zhaniser from USGS attended the One Guam meeting
 - Working on the OGWRIP program; collecting data on all monitoring wells. USGS is working with WERI to provide reports using that data.
 - Data from new wells started about a year ago; however not all well's location points were surveyed yet. For next visit, will have a survey team come out and collect those measuring points for reference. Once that's done, USGS can make meaningful interpretations and chart the results. Mr. Zhaniser met with Miguel B. earlier; GWA will approve the release of as-builts for the new wells to USGS. Contractors for new wells did collect some survey points. GWA is not sure of the level of accuracy from those survey points. DOD will provide the list of wells that need verification of survey points for well location.
 - USGS is hoping to set up a meeting in April so can go through where at with One-Guam the progress of the data collection and analysis. Would like to get all parties involved to talk about deliverables and responsibilities.



(continued on next page)



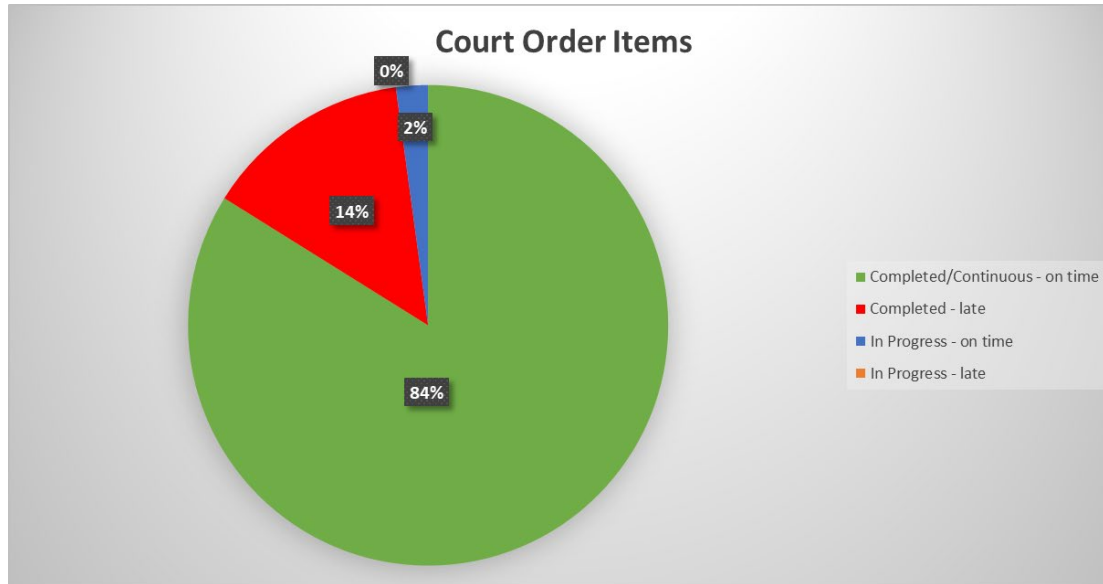
One Guam Update (January 2024 - continuation)

- Other
 - Stream Gauges
 - USGS is interested in replacing at least 2 stream gauges that are in very bad condition; Umatac which is not being used currently because not functioning, and Pago River which is barely functioning and in danger of collapsing. Navy team trying to get information on Pago because apparently built by Seabees but research is need on the ownership of the stream gauges and the property.
 - Construction Activity within Radio Barrigada by Route 16 near Navy's Reservoir
 - Modeling was done for the area. Don't anticipate a problem with the load from DOD. DOD did review the project and not much of a load; they have a fire suppression system and may put their own pump but will draw water from Navy Barrigada tank.
 - DOD stated they are requesting a *Sewer Systems Assessment Study* to verify if existing infrastructure is sufficient for the ongoing DOD projects. The fact that sewer in that area will discharge to GWA. GWA advised having a holding tank at Radio Barrigada in event of in-rush for sewage that GWA's lift station may not be able to handle. Once assessment study released, DOD will communicate with GWA. GWA Engineering/Permits would like to get information to analyze the data.
 - That there would likely be a System Development Charge (SDC) because of the heavy loading. GWA Engineering will analyze the demand and work with Customer Service on the SDC.





Court Order Summary (through January 2024 – no changes)



Court Order Summary

	Court Order Items	%	Performance % Completed	Performance (on-time or completed)
Completed/Continuous - on time	78	84%	97.8%	100.0%
Completed - late	13	14%		
In Progress - on time	2	2%		
In Progress - late	0	0%		
Totals	93	100%		





Court Order – Status Information (January 2024)

The following SSO was reported for January 2024:

- Jan. 20, 2024, SSO#1422212: Ypao Beach Road, Tamuning - Ypao Pump Station Failure
- Jan. 23, 2024, SSO#1420812: Chagami Street, Inalahan - Inalahan Pump Station Failure





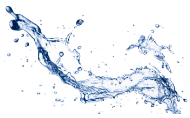
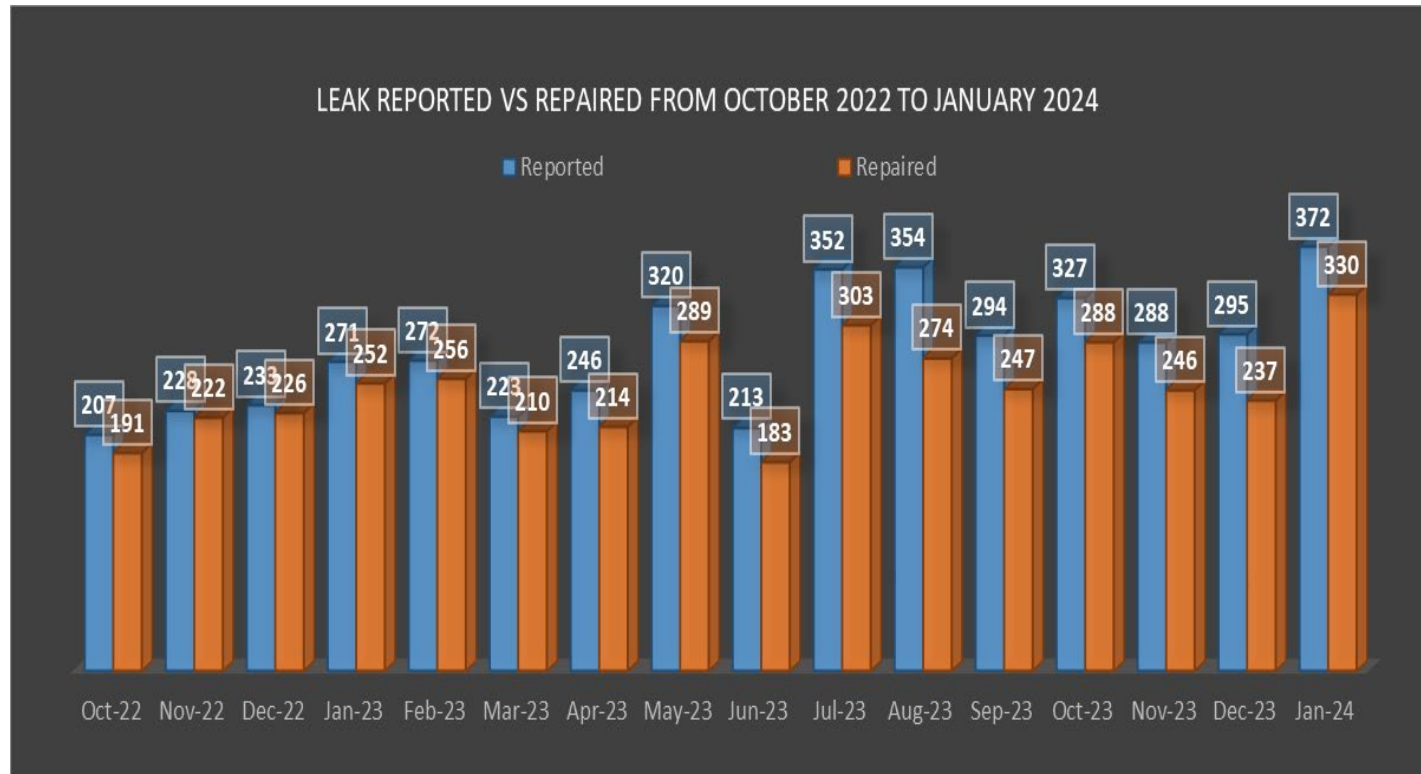
Land Acquisition Summary (through January 2024)

GWA Facility	Location	Gov. or Private Property	Land Acquisition Status
Tanks	Astumbo-L10164	Gov't. - CLTC	Petition of Land Registration package forwarded to Attorney General by DLM 11/04/19. AG pending court filing 06/30/2021 – Follow up status sent to DLM 10/06/2021; 11/03/2021; 01/27/2022; 03/04/2022; 05/12/2022; 07/07/2022;09/12/2022; 12/27/2022; DLM response 07/11/2023 have not been able to meet with Assignment AG for LR proceedings. Land Agent has followed up and emailed multiple times with Margarita at DLM on meeting with DLM attorney on status of Land Registration proceedings 10/02/2023. This process is crucial for GWA to acquire property for GWA reservoir. 02/01/2024: Follow up sent to Margarita at DLM
	Piti-L259	Private/Federal	Received final comments from DoAg. Waiting on the archaeological report before we can submit 299 forms. Waiting for permission from NPS to access the lot and perform the Archeological survey.
	Ugum River Intake/Booster Pump Station	Private	When the UGUM Water treatment plant was built in 1990, no land reservations for the area by the booster pump station, the Ugum river intake and access road. Land Agent currently researching the area under Lot 292, owned by the Aguon Family. GWA would need to secure a Grant of Easement for the access road and booster pump facility along the river intake. 12/19/2023: GWA coordinating with DCA for survey services to perform a boundary retracement survey of the subject lot to establish the limits of the survey; as-built existing facilities, structures, and road, to obtain + 2,376 square meters for the parcel and create the easement for GWA reservation.
Deep Wells	AG-12-L10154-4	Dept. of Agriculture/Manhita Farms	Right of Entry Agreement sent to Manhita Farms for signature 05/24/18. 2 nd follow up sent on 04/10/19; 08/03/2021. ROE Agreement information sent to GWA legal counsel for further review and processing 01/28/2022; 08/11/2023 –GM signed and submitted to DCA for final review and processing at DLM; 09/26/2023-Submitted to DCA for final map processing
Booster Pump Station	Agfayan-T3734 B19 L28	Private	TGE working on structural design for pump station area for L28, B19, T3734, Inarajan 11/07/19. Letter of Decision received by CLTC 06/09/2021. CLTC has responded for in-kind service letter 10/08/2021. 1 st appraisal report submitted to GWA 05/11/2022. 2 nd appraisal submittal to GWA 09/20/2022. Appraisal report sent to GM/legal counsel for review, approval and response 09/22/2022. Garrett stated updated appraisal report cost is \$2500 each. Funding needs to be requested 10/02/2023.
Asan Springs	Asan-L501	Federal	<ul style="list-style-type: none"> Revised Environmental Assessment report with NPS for review. 1/25/24 09/18/2023: The Office of Congressman Moylan has offered assistance to work with the NPS in completing the EA and Finding of No Significant Impact (FONSI) along with the Right of Way agreement to GWA, the EA is a prerequisite of the ROE agreement.



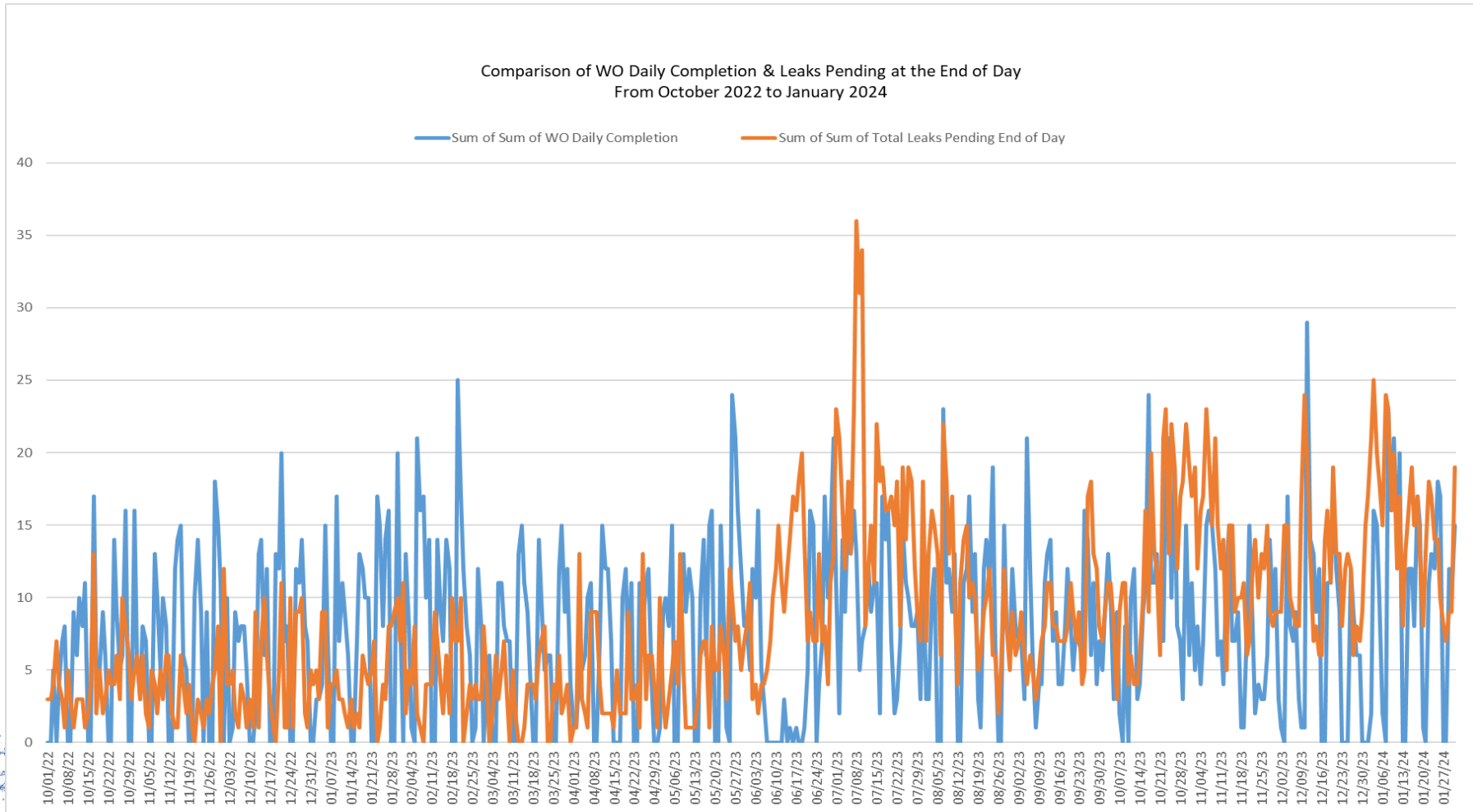


Comparison of Leaks Reported vs. Leaks Repaired (through January 2024)





Daily Leak Repairs (through January 2024)





Highlights of Customer Care Section Operations (January 2024)

Highlights of Customer Care Section Operations – January 2024:

- There are 2 total holidays in Jan 2024
- The average wait time for all 3 locations is 4.3 as compared to 4.0 for Dec 2023.
- The number one reason for visit for each GPWA location is:
 - Gloria B Nelson Public Service Bldg. Fadian = Apply for water
 - Julale Satellite Office = Copy of bill
 - Upper Tumon Satellite Office = Bill Dispute
- The average number of Facebook visits is 7023 for January 2024, down from 17,461 for Dec 2023. December's large numbers were the direct result of several water outages with January 2024 having fewer outages than December 2023.
- Instagram profile visits for Jan 2024 decreased to 302 as compared to 695 for Dec 2023. Again, this is due to fewer outages in January than December.
- Jan 2024 average number of active pay plans is 396 which compares similarly to Dec 2023 average number of active pay plans @ 361.
- There was an increase in emails received for Jan 2024 @ 521 as compared to Dec 2023 @ 480.
- Meter Reading Unit reported a 96.17% successful electronic read percentage as compared to 96.75% for Dec 2023.
- 12.9% of GWA customer meters recorded ongoing private side leakages in January 2024 which compares similarly to Dec 2023 @ 13%.





GWA Financial Overview

JANUARY 2024

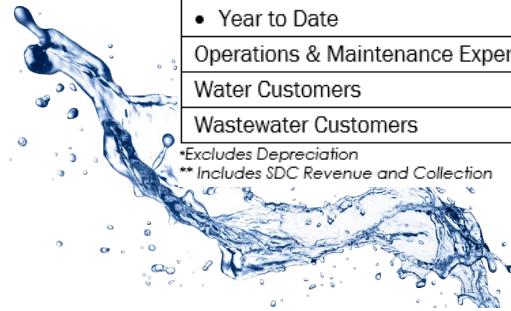




Key Financial Indicators

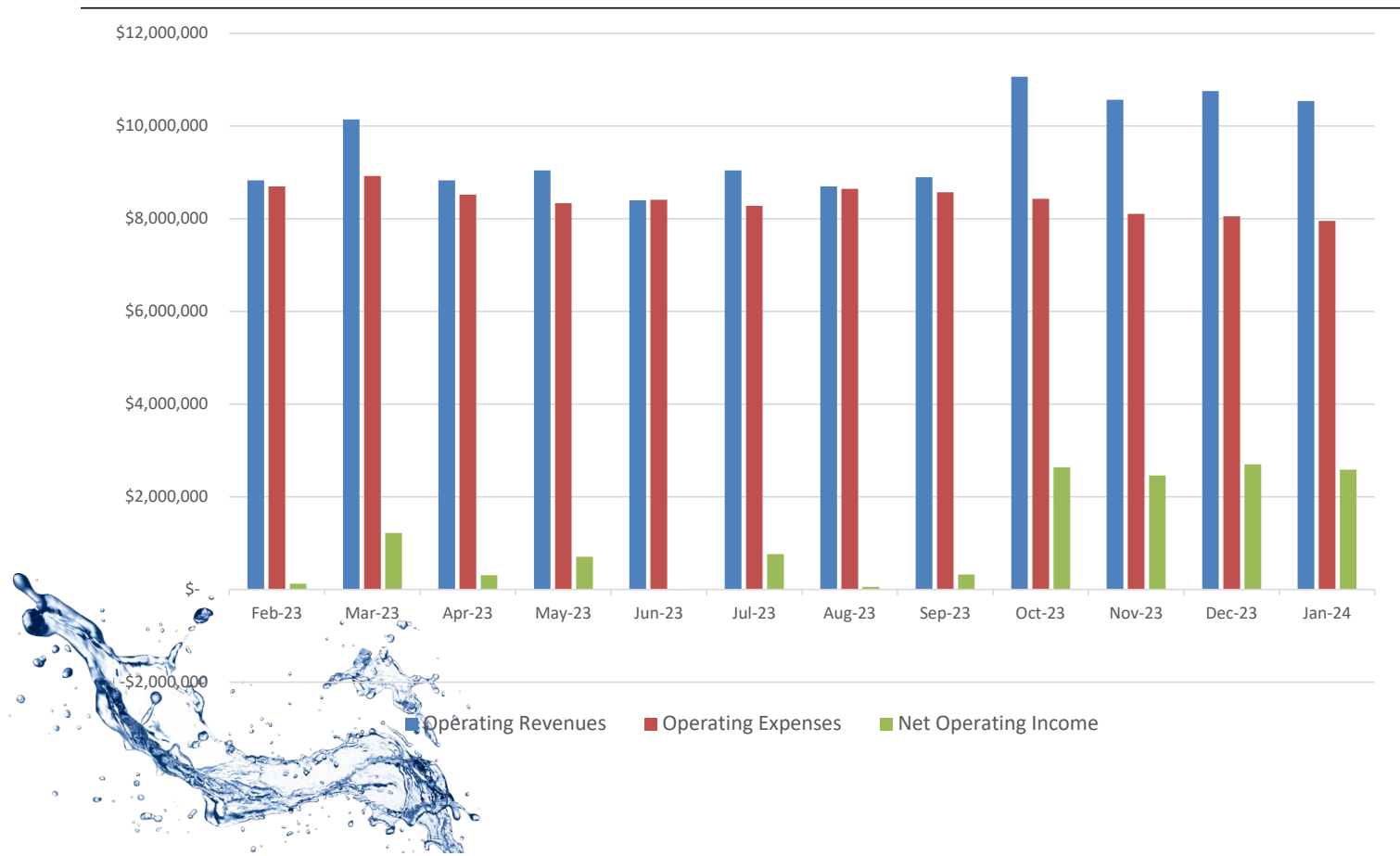
Indicator	Target	November 2023	December 2023	January 2024
DSC YTD				
• Per Section 6.12 of Indenture	1.25	1.54	1.57	1.59
• Per PUC / CCU	1.30	1.54	1.57	1.59
Days - Cash on Hand	120 days	267 days	271 days	278 days
Collection Ratio**				
• Month to Date	99%	75%	88%	98%
• Year to Date	99%	81%	83%	87%
Days Billed	30 days	31 days	29 days	30 days
Account Receivable Days	30 days	37 days	39 days	39 days
Account Payable Days	45 days	40 days	40 days	38 days
Employee Count	400 FTE	359 FTE	359 FTE	357 FTE
Water Demand				
• Month to Date	451,933	425,213	431,731	424,459
• Year to Date	1,807,733	831,499	1,263,230	1,687,688
Wastewater Flow				
• Month to Date	317,500	303,650	316,817	309,902
• Year to Date	1,270,000	609,437	926,255	1,236,157
Operations & Maintenance Expense*	\$6,567,186	\$5,701,402	\$5,653,023	\$5,552,981
Water Customers	43,978	43,565	43,539	43,525
Wastewater Customers	30,781	30,946	31,083	30,879

*Excludes Depreciation
 **Includes SDC Revenue and Collection



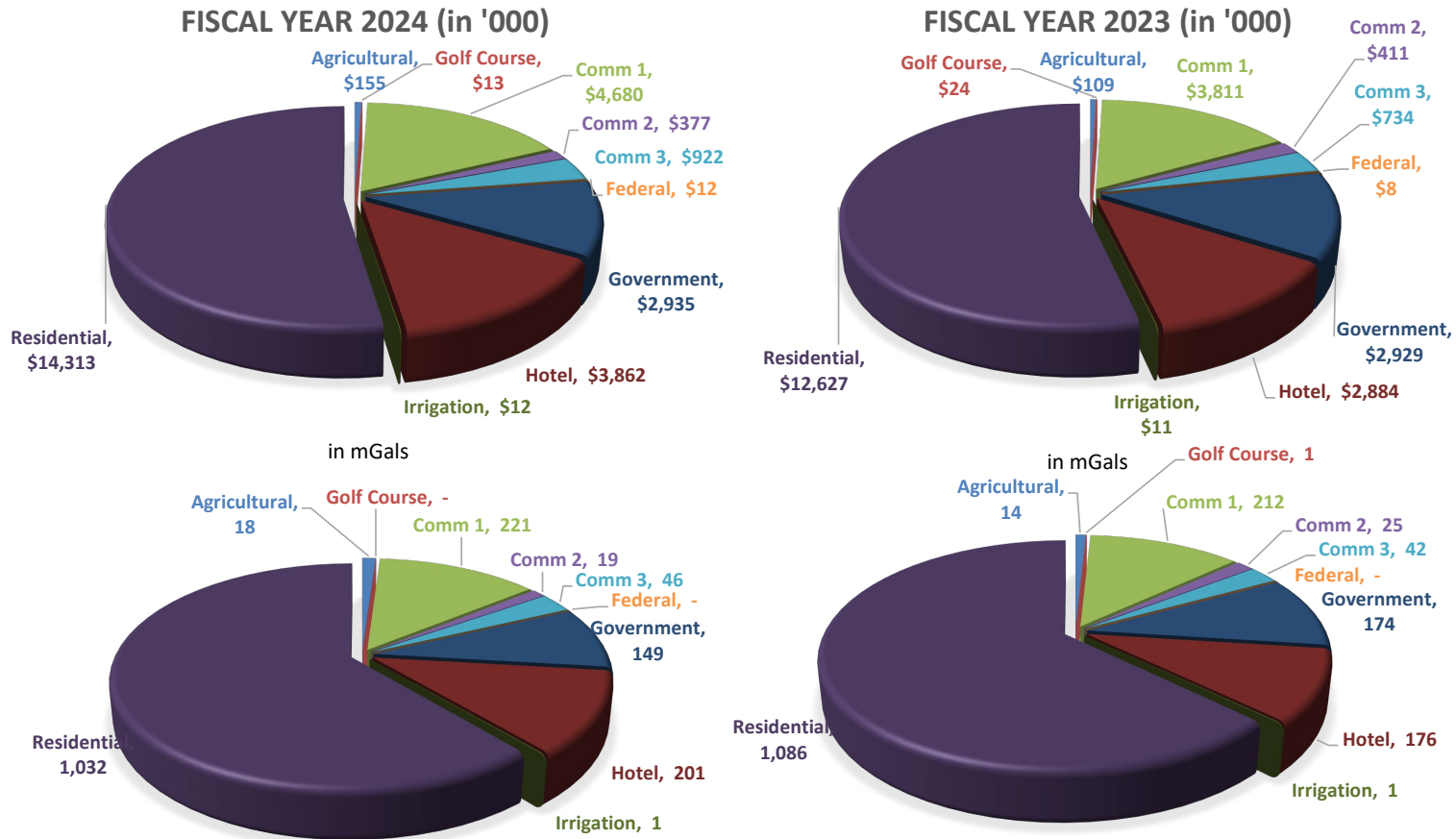


Income Statement



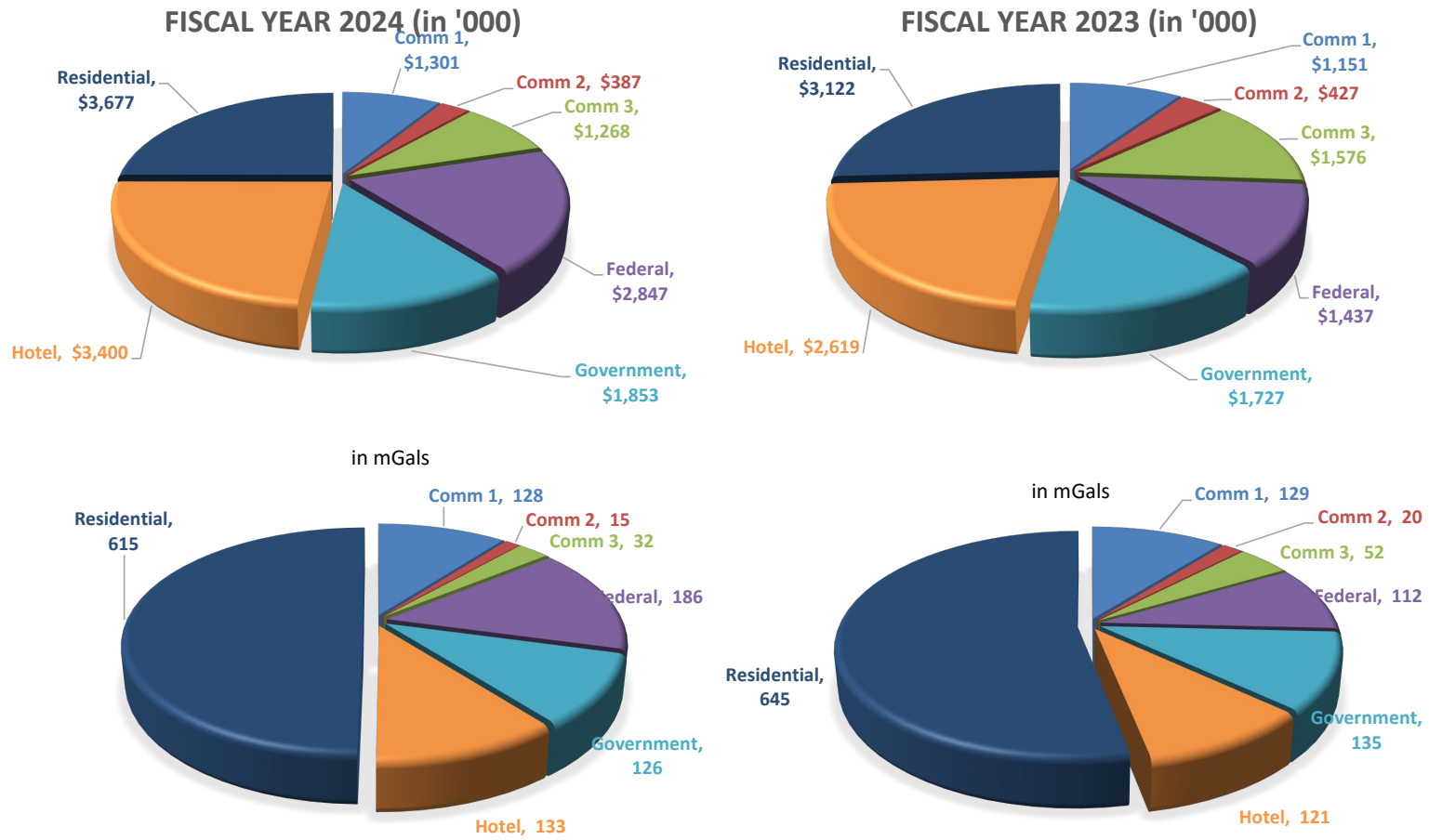


JANUARY YTD Water Revenue/Demand by Rate Class



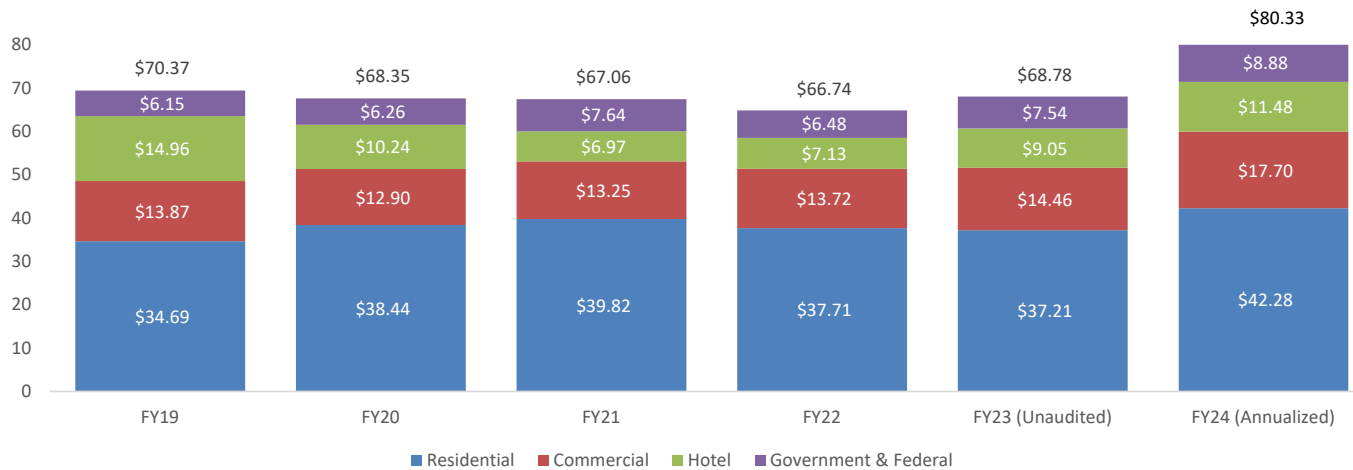
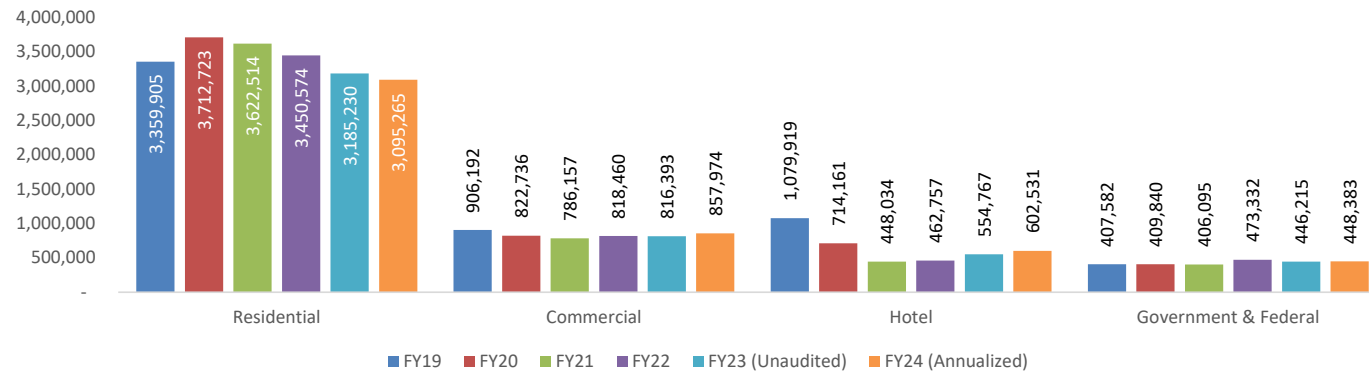


JANUARY YTD Waste Water Revenue/FLOW by Rate Class



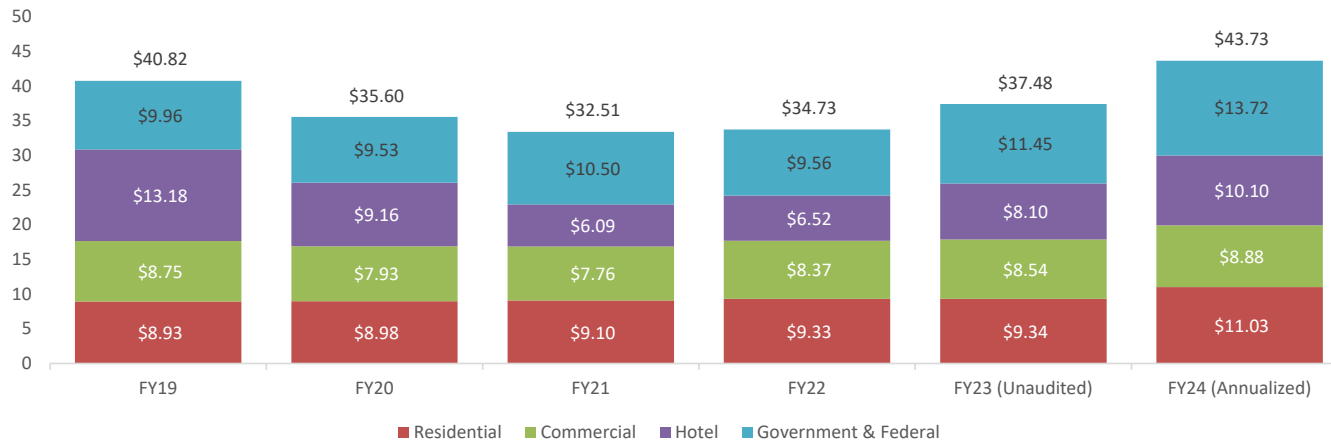
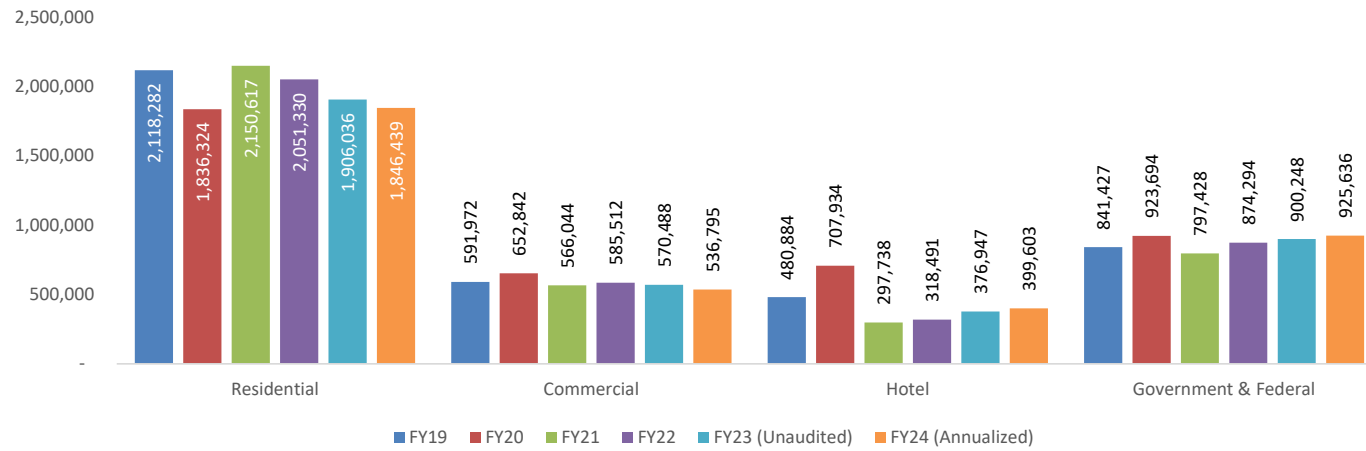


Annual Water Demand and Revenues by Rate Class



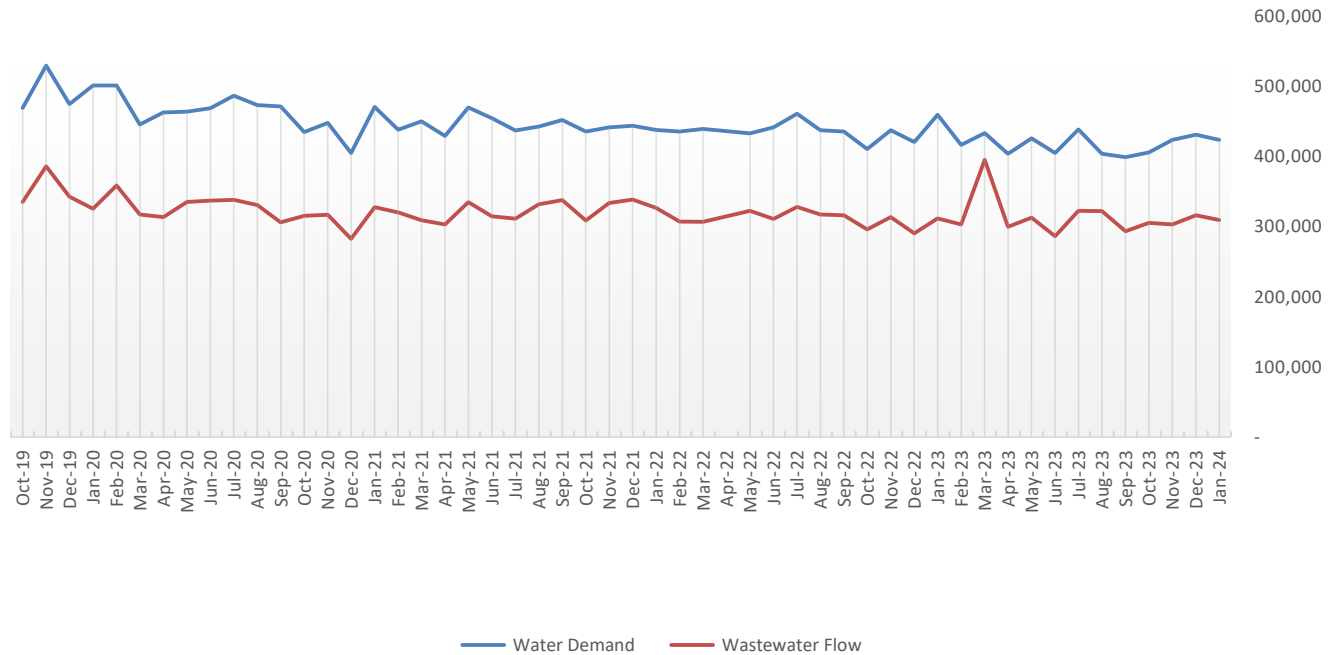


Annual Wastewater Billable Flows and Revenues by Rate Class





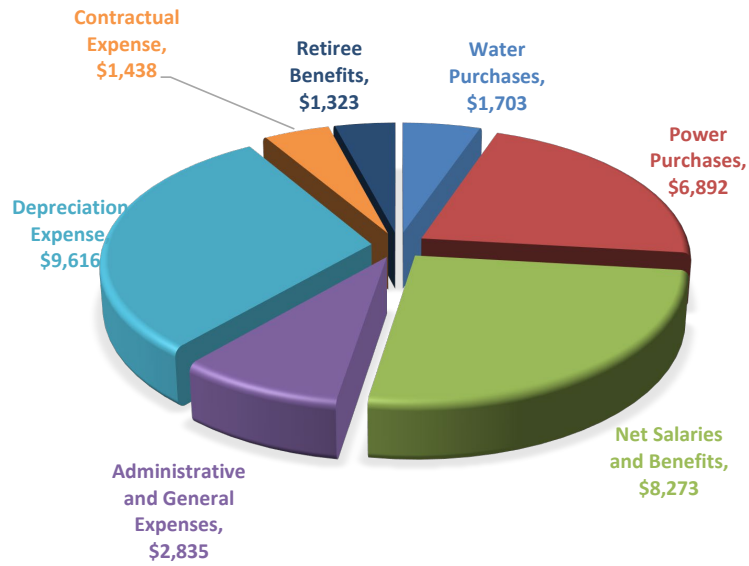
Water Demand & Wastewater Flow – 4 Years



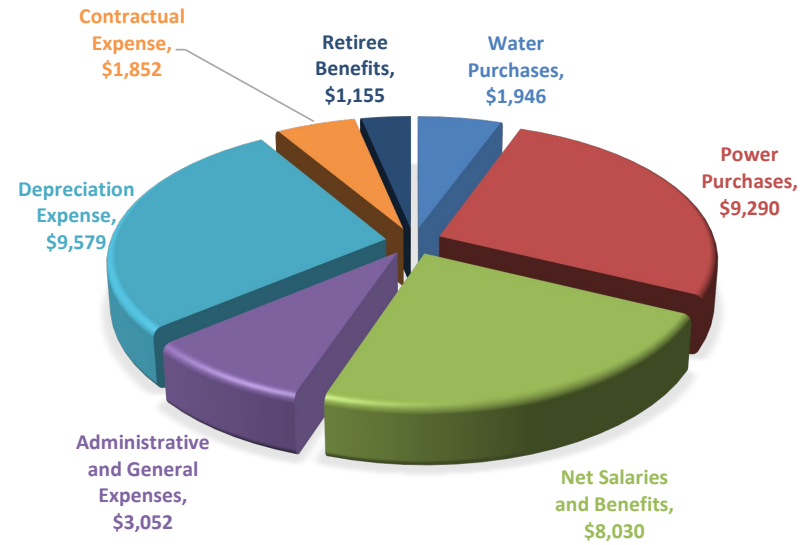


JANUARY YTD Expenses by Categories

FY2024 (IN '000)

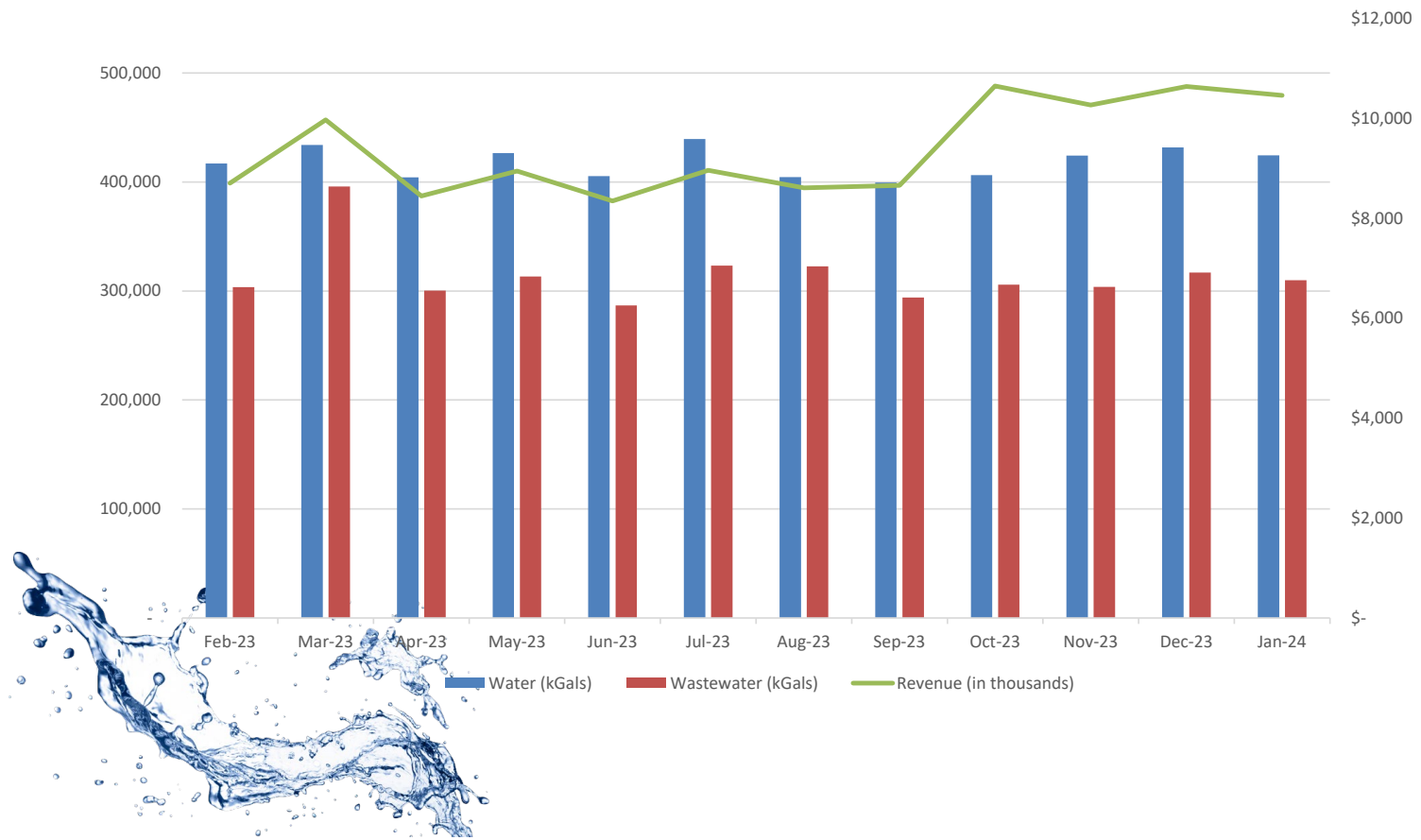


FY2023 (IN '000)



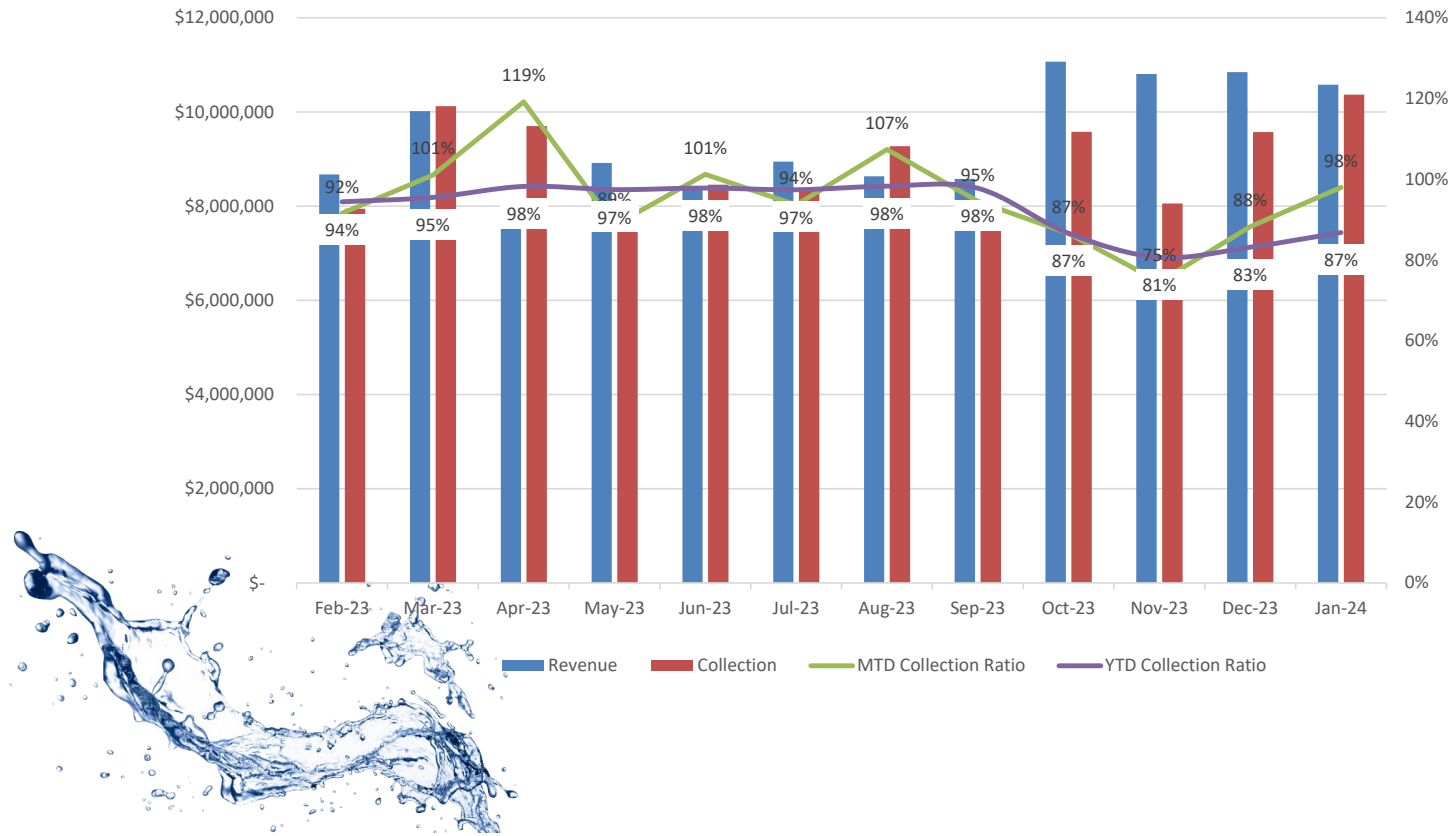


Overall Revenues and Demand





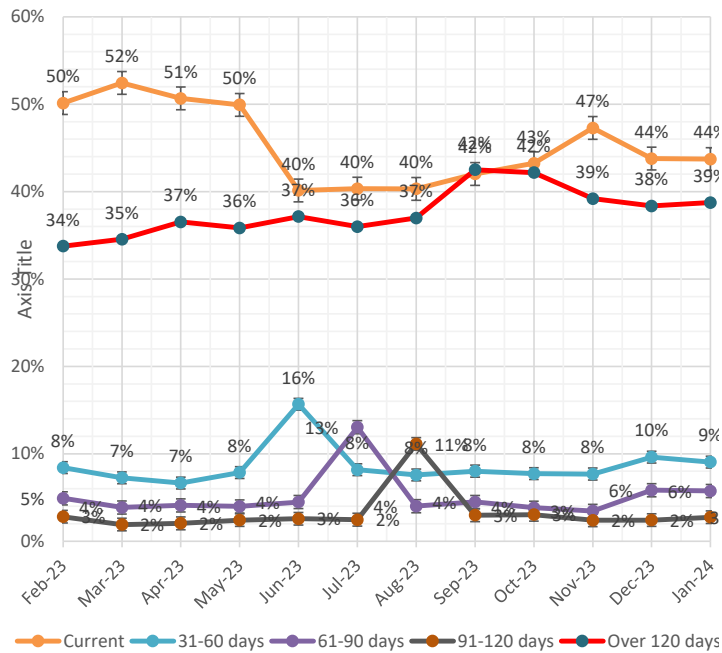
Overall Revenues and Collections



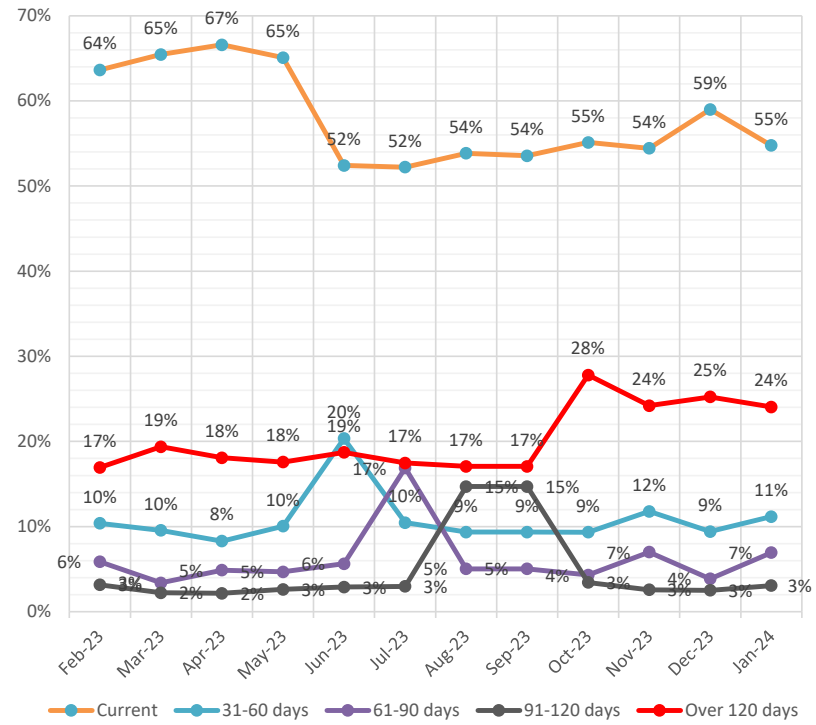


Overall – AR Aging

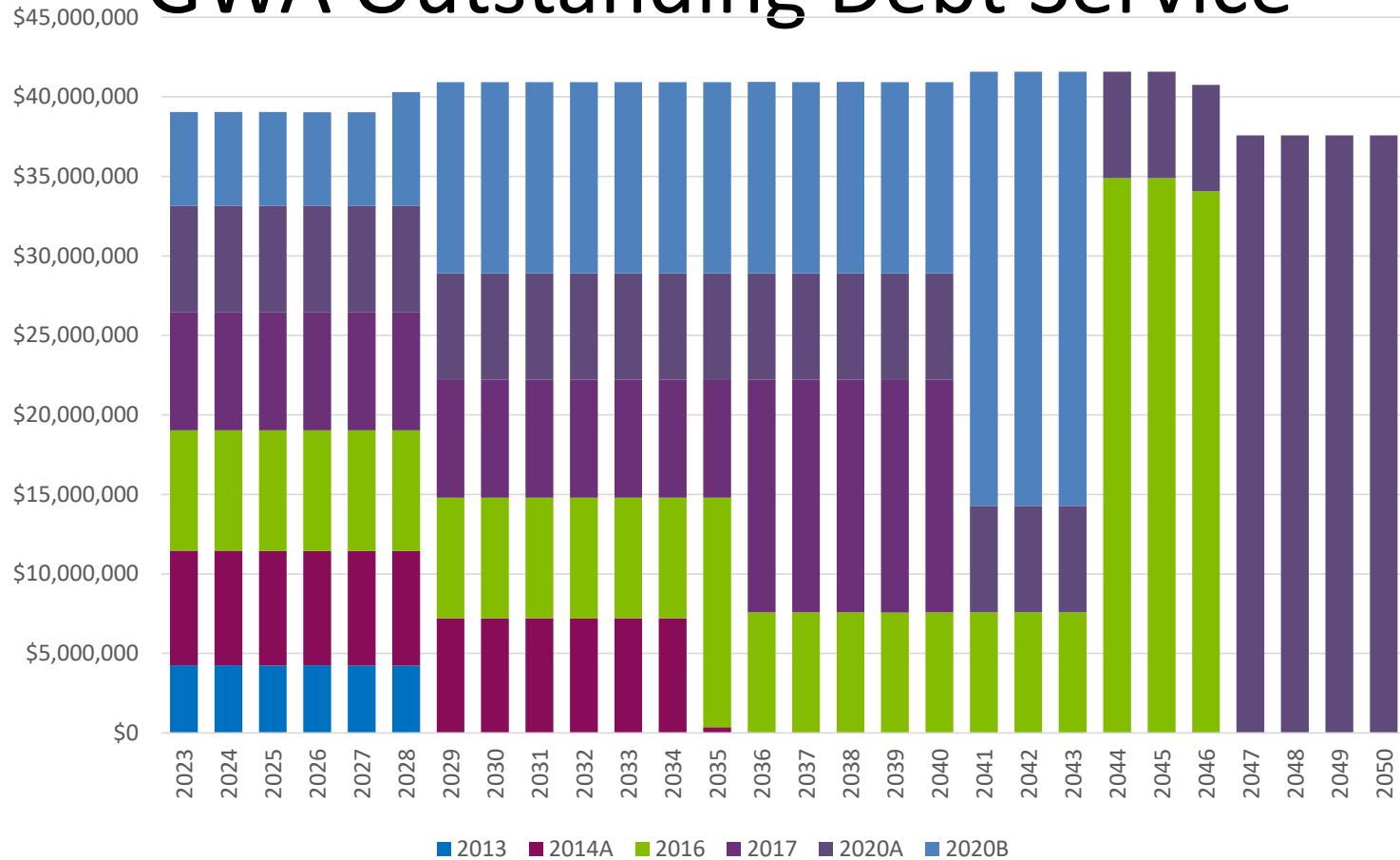
% of Aged AR Balance to Total AR Balance



% of Aged AR Balance to Total AR Balance (without Inactive Accounts)



GWA Outstanding Debt Service



Source: Guam Waterworks Authority.
Aggregated by Fiscal Year Ending September 30.

**GWA Utility Services Division
Monthly Status Report
Month ending JAN 2024**

FY2024 UTILITY SERVICES DIVISION ACTIVITIES	WEEK	WEEK	WEEK	WEEK	WEEK	JAN 2024 MONTHLY TOTAL	WEEKLY AVERAGE JAN 2024	PREVIOUS MONTH	
	ENDING:	ENDING:	ENDING:	ENDING:	ENDING:			WEEKLY AVERAGE DEC 2023	DEC 2023 MONTHLY TOTAL
	01/06/24	01/13/24	01/20/24	01/27/24	02/03/24			DEC 2023	TOTAL
Collections Activities:									
I. Number of accounts cut for nonpayment:	67	97	66	87	73	390	81	59	235
II. Number of accounts restored for nonpayment:	43	62	52	55	57	269	57	44	176
III. Number of No water reports responded to:	0	1	0	2	2	5	1	1	5
IV. Number of Secure/Unsecure valve reports responded to:	6	3	6	6	5	26	5	4	15
V. Number of Verify reads responded to:	2	6	3	6	4	21	5	6	23
VI. Number of new pay plans negotiated for active accounts:	107	138	97	122	91	555	112	96	385
VII. Number of active pay plans negotiated and ongoing:	355	404	401	414	364		396	361	
VIII. Number of inactive accounts with a payment arrangement:	16	16	16	16	16		16	16	
IX. Number of broken payment plans:	85	96	106	119	104	510	106	44	177

Customer Service Activities (lobby visits):									
A. GBN Public Service Building – Fadian									
i. Total Customers Assisted:	143	177	154	175	206	855	178	163	650
ii. Total Abandoned Requests:	5	4	4	5	6	24	5	4	15
iii. Average Wait Time:	4 minutes	3 minutes	5 minutes	7 minutes	4 minutes		4.6 minutes	4.25 minutes	
iv. Average Service Time:	8 minutes	10 minutes	10 minutes	9 minutes	10 minutes		9.4 minutes	10.25 minutes	
v. Purpose of lobby visit:									
1. Apply for water:	45	50	53	66	70	284	60	55	220
2. Restore water cut for non payment:	8	15	10	3	4	40	8	8	33
3. Terminate Water:	6	15	13	9	18	61	14	12	48
4. Copy of Bill:	26	37	44	22	31	160	34	34	134
5. Billing Dispute:	26	34	29	41	61	191	41	36	142
6. Billing Dispute follow up:	0	0	0	1	0	1	0	1	2
7. General Questions & Other:	28	30	25	40	39	162	34	30	121
8. Report a water leak:	1	4	0	5	0	10	2	2	7
9. Report water theft:	0	0	0	0	0	0	0	0	0
10. Payment Arrangement:	23	26	14	12	16	91	17	14	56
B. Julale Satellite Office – Hagatna									
i. Total Customers Assisted:	140	221	161	192	206	920	195	160	638
ii. Total Abandoned Requests:	2	5	7	8	4	26	6	4	16
iii. Average Wait Time:	2 minutes	3 minutes	3 minutes	4 minutes	4 minutes		3.2 minutes	3 minutes	
iv. Average Service Time:	9 minutes	9 minutes	10 minutes	10 minutes	11 minutes		9.8 minutes	10 minutes	
v. Purpose of lobby visit:									
1. Apply for water:	25	42	37	51	63	218	48	35	140
2. Restore water cut for non payment:	4	9	8	12	16	49	11	9	35
3. Terminate Water:	9	12	13	13	19	66	14	9	34
4. Copy of Bill:	53	74	53	58	50	288	59	41	165
5. Billing Dispute:	31	74	50	61	56	272	60	46	182
6. Billing Dispute follow up:	2	1	3	3	3	12	3	2	9
7. General Questions & Other:	30	31	18	30	26	135	26	27	108
8. Report a water leak:	0	2	1	1	1	5	1	0	1
9. Report water theft:	0	0	0	0	0	0	0	0	0
10. Payment Arrangement:	12	21	11	21	17	82	18	18	70
C. Upper Tumon Satellite Office – Upper Tumon									
i. Total Customers Assisted:	260	252	256	240	258	1266	252	217	867
ii. Total Abandoned Requests:	12	2	6	9	7	36	6	2	7
iii. Average Wait Time:	8 minutes	4 minutes	5 minutes	6 minutes	3 minutes		5.2 minutes	4 minutes	
iv. Average Service Time:	11 minutes	11 minutes	12 minutes	12 minutes	12 minutes		11.6 minutes	12.75 minutes	
v. Purpose of lobby visit:									
1. Apply for water:	50	47	65	58	74	294	61	63	252
2. Restore water cut for non payment:	41	26	11	27	23	128	22	14	56
3. Terminate Water:	30	19	22	24	24	119	22	23	91
4. Copy of Bill:	33	41	41	75	50	240	52	44	177
5. Billing Dispute:	63	74	74	81	61	353	73	65	258
6. Billing Dispute follow up:	0	4	0	1	1	6	2	2	9
7. General Questions & Other:	61	40	40	33	54	228	42	39	154
8. Report a water leak:	4	2	1	2	0	9	1	3	10
9. Report water theft:	1	0	0	0	0	1	0	0	0
10. Payment Arrangement:	34	22	19	21	21	117	21	13	51

**GWA Utility Services Division
Monthly Status Report
Month ending JAN 2024**

FY2024 UTILITY SERVICES DIVISION ACTIVITIES	WEEK	WEEK	WEEK	WEEK	WEEK	JAN 2024 MONTHLY TOTAL	WEEKLY AVERAGE JAN 2024	PREVIOUS MONTH	
	ENDING:	ENDING:	ENDING:	ENDING:	ENDING:			WEEKLY AVERAGE DEC 2023	DEC 2023 MONTHLY TOTAL
	01/06/24	01/13/24	01/20/24	01/27/24	02/03/24				

Customer Service Activities (Electronic):									
i. Emails Received:									
1. customers@guamwaterworks.org:	133	90	89	109	100	521	97	120	479
Request type (email):									
a. Apply for water:	9	9	10	10	6	44	9	12	48
b. Terminate Water:	3	0	0	6	15	24	5	5	19
c. Copy of Bill:	1	1	1	2	0	5	1	3	13
d. Billing Dispute & follow up:	0	0	0	0	0	0	0	2	9
e. General Questions & Other:	112	77	73	86	78	426	79	89	356
f. Report a water leak:	3	2	0	0	0	5	1	4	14
g. Report water theft:	0	0	0	0	1	1	0	0	0
h. Online services inquiry:	5	1	5	5	0	16	3	5	19
2. gwaservesme@guamwaterworks.org (realtors/prop mgrs):	0	0	0	0	0	0	0	0	1
ii. Emails Replied (both):	153	101	84	102	111	551	100	159	635
iii. Online Portal:									
Request type (online portal):									
a. Start Service:	4	1	4	0	3	12	2	2	7
b. Stop Service:	0	0	2	1	13	16	4	1	5
c. Payment Plan:	7	15	2	5	5	34	7	9	34
d. Customer Information Updates:	1	1	0	0	1	3	1	1	2
e. Service Investigations:	2	1	1	1	1	6	1	0	1
f. Account Inquiries:	5	3	2	1	6	17	3	3	10
g. Technical Support:	0	0	0	0	1	1	0	1	2
h. Outages & Emergencies:	0	0	0	0	0	0	0	0	0

Call Center Activities:									
i. Calls Recieved:	1352	1742	1562	1687	1353	7696	1586	1708	6831
ii. Calls Immediately Answered:	262	497	343	378	361	1841	395	356	1424
iii. Calls Abandoned:	67	120	82	100	77	446	95	94	375
iv. Calls Handled by Voice mail:	1023	1069	1065	1176	896	5229	1052	1119	4475
v. Average duration of call:	3 minutes	2 minutes	3 minutes	2 minutes	2 minutes		2.4 minutes	2.5 minutes	
vi. Breakdown by request type:									
1. Apply/Terminate info:	8	13	21	15	27	84	19	12	49
2. Automated Telephone Call:	13	48	51	54	37	203	48	30	118
3. Balance Inquiry:	29	43	38	51	25	186	39	28	113
4. Call Back:	20	40	36	31	22	149	32	20	80
5. Dispatch:	5	18	10	12	14	59	14	11	45
6. Dispute:	0	0	0	0	0	0	0	0	0
7. Follow-up:	15	24	28	27	21	115	25	17	67
8. General Questions & Other:	30	81	71	67	63	312	71	49	197
9. Route Calls to GWA Staff:	19	32	14	27	49	141	31	29	117
10. No Water:	7	6	3	13	4	33	7	21	84
11. Online/Phone App Help:	12	7	6	9	11	45	8	16	62
12. Pay by Phone:	72	87	62	53	58	332	65	69	277
13. Pay Plan:	24	58	50	42	37	211	47	44	175
14. Restore Non-payment:	9	28	22	17	12	88	20	14	57
15. Secure/Unsecure Valve:	7	3	33	9	14	66	15	7	28
16. Voice Mail:	152	173	136	141	145	747	149	154	614
17. Water leak:	1	1	2	5	2	11	3	2	8
vi. Social media responses:									
GWA Facebook Messenger:	1	2	1	3	2	9	2	8	24
GWA Facebook Responsive Rate:	100%	50%	100%	100%	0%		70%	95%	
Total number of Facebook visits:	814	1362	1091	1802	1954	7023	1267	4904	17461
Total number of Instagram profile visits:	23	92	62	57	68	302	59	192	695

Bill Dispute & Resolution Activities:									
i. Dispute Resolution:									
1. Number of disputed accounts resolved:	6	9	13	11	14	53	13	13	43
2. Number of disputed accounts under review:	935	937	940	943	940		941	959	

Data Entry of Completed Field work in CIS:									
i. Document Control:									
1. Number of field activities posted:	2	0	1	15	7	25	6	28	112
2. Number of field activities pending:	0	0	0	0	0	0	0	0	0

**GWA Utility Services Division
Monthly Status Report
Month ending JAN 2024**

FY2024 UTILITY SERVICES DIVISION ACTIVITIES	WEEK	WEEK	WEEK	WEEK	WEEK	JAN 2024 MONTHLY TOTAL	WEEKLY AVERAGE JAN 2024	PREVIOUS MONTH	
	ENDING:	ENDING:	ENDING:	ENDING:	ENDING:			WEEKLY AVERAGE DEC 2023	DEC 2023 MONTHLY TOTAL
	01/06/24	01/13/24	01/20/24	01/27/24	02/03/24			79	18
Field Response Activities:									
I. Number of field activities assigned:	231	220	186	204	312	1153	231	244	974
II. Number of field activities completed:	212	229	191	242	287	1161	237	235	940
III. Number of field activities pending field action:	6	44	7	15	7	79	18	9	34

Meter Reading Activities:									
I. Number of meters read:									
A. Electronically Read Meters:	7745	14348	10743	8912	4431	46179	9609	9802	39206
B. Manually Read Meters:	387	586	271	336	248	1828	360	315	1260
i. Unread meters (Meters scheduled but not read):	4	8	1	1	0	14	3	1	5
ii. Number of data logs received:	31	37	23	40	30	161	33	36	145
iii. Number of data logs retrieved:	14	28	50	36	38	166	38	35	141
iv. Number of data logs pending field action:	0	0	0	0	0	0	0	0	1
v. Communication Errors/Reprogramming requests:	2	1	0	3	3	9	2	3	10
vi. Number of estimated readings (for the week):	2	3	3	2	3	13	3	3	10
vii. Reasons for Estimations:									
1. Cant locate meter:	0	0	0	0	0	0	0	0	0
2. Temporary Obstruction:	1	1	1	0	0	3	1	0	0
3. Vicious Dog:	0	0	0	0	0	0	0	0	0
4. Flooded meter:	0	0	0	0	0	0	0	0	0
5. Corrective action to database requested:	1	2	2	2	3	10	2	3	10
6. Possible changed out meter:	0	0	0	0	0	0	0	0	0
7. Communication/Programming error (code 92's):	0	0	0	0	0	0	0	0	0
8. Other:	0	0	0	0	0	0	0	0	0
a. Leaks detected on customer's private line:	917	1934	1508	1078	564	6001	1271	1282	5127
b. Reverse Flow Detected:	437	514	88	167	135	1341	226	343	1373
c. No Usage Detected:	318	540	360	501	201	1920	401	424	1696
d. Tamper Code:	10	24	10	12	5	61	13	14	56
C. Electronic Read Percentage:	95.24%	96.08%	97.54%	96.37%	94.70%		96.17%	96.75%	

Illegal Connection & Unauthorized Use of Water Activities:									
I. Number of Inactive Still Consuming Reports rec'd & investigated:	1	0	0	0	1	2	0	0	1
II. Number of Illegal Connection reports rec'd & investigated:	0	0	2	1	1	4	1	1	3

Process for notifying customers with leak alert or high consumption:
 -->If a customer registers 24 hours of continuous water usage within 7 days or their meter read then a leak alert is generated.
 -->If a customer has a 50% increase in water usage compared to the previous months total volume of water consumed then a high consumption alert is generated.

If an alert is generated for a customer then an SMS, E-mail and automated phone call it sent to customers with valid mobile, land line number and E-mail address.
 If the customer does not have a valid mobile, land line number or E-mail address then a letter is generated and sent to the billing address.

Customer Leaks and High Usage Alert Notifications:									
High Use Alert Only Total:	429	923	965	1105	259	3681	736	637	2546
SMS	93	216	225	251	57	842	168	145	581
EMAIL	100	199	206	239	52	796	159	137	549
DIALER	118	254	266	307	75	1020	204	177	707
LETTER	118	254	268	308	75	1023	205	177	709
Leak Alerts Only Total:	1154	2833	4314	2630	913	11844	2673	3074	12294
SMS	353	896	1383	826	278	3736	747	972	3888
EMAIL	343	832	1210	770	269	3424	685	889	3554
DIALER	454	1101	1709	1026	366	4656	931	1207	4826
LETTER	4	4	12	8	0	28	6	7	26
Leak & High Use Alerts Only Total:	247	514	589	653	114	2117	468	436	1744
SMS	56	118	133	148	23	478	96	98	393
EMAIL	54	108	114	148	23	447	89	90	360
DIALER	68	144	170	178	34	594	119	123	493
LETTER	69	144	172	179	34	598	120	125	498



**Engineering Monthly Report
February 2024**

Prepared by:

Jeanet Babauta Owens, P.E.
Assistant General Manager of Engineering

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This Engineering Report summarizes activities for the month of January 2024.

A. Capital Improvement Projects (CIP)

TOTAL NO. OF CIP PROJECTS: 54

ALL CIP SECTIONS

No. of Projects (All CIP Sections): **2**

There are a total of 2 CIP projects that applies to all CIP projects.

EXHIBIT NO.	PROJECT TITLE	STATUS
B-1	ID/IQ – Professional Civil and Structural Design Services	Active
B-2	ID/IQ – Professional Project-Construction Management Services	Active

WATER / WASTEWATER

No. of Projects (Water/Wastewater): **2**

Currently, there are two water and wastewater CIP projects with one in planning and the other in 60% design phase.

EXHIBIT NO.	PROJECT TITLE	STATUS
B-3	Gill Breeze Subdivision Water and Sewer Design RFP	Procurement
B-4	Adacao Water and Sewer Infrastructure Design Services	Design, In Progress

WATER

No. of Projects: 18 projects

There are six (6) water CIP currently in construction and the remaining projects in planning, design or procurement phases. The six (6) water CIP projects consists of multiple reservoir construction and rehabilitation, waterline replacement, and pressure zone realignment. Under the Court Order projects, there are currently four (4) active steel tank major repairs in progress with another three (3) steel tank major repair and three (3) new concrete tank construction slated to start in the coming months.

EXHIBIT NO.	PROJECT TITLE	STATUS
B-5**	Well Abandonment	Planning**

B-6**	Well Rehab A-28, D-15, M-14, F-07	Planning**
B-7	Central Guam Reservoirs	Construction, In Progress
B-8	Design and CM Services for Waterline Replacement of Various Bridges	Procurement
B-9	Pressure Zone Realignment	Construction, In Progress
B-10	Fire Hydrant Replacement Phase 1	Construction, In Progress
B-11	Tai Rd./ S-13 and Canada-Toto Lp./Blas St. Waterline Replacement	Construction, In Progress
B-12	Asan Springs Rehabilitation	Land Acquisition
B-13	Groundwater Wells A-02, A-07, A-12, D-05, and F-03 Rehabilitation (Re-bid No. 3)	Design completed and IFB Construction issued [insert dates] but no bids received;
B-14	ID/IQ - Design and CM Asbestos Concrete Pipe for Waterline Replacement	Procurement
B-15	ID/IQ - Design and CM for Waterline Replacement and Upgrades	Procurement
B-16	ID/IQ - Design and CM Implementation of District Meter Areas	Procurement
B-17	ID/IQ - Design and CM Undersized Waterline Replacement	Procurement
B-18	Santa Rita Springs Rehabilitation	Design procurement pending available funding
B-19	Brigade II Booster Pump Station	Design completed Seeking grants for additional funding
B-20	New Well Construction (AG-10, AG-12, Y-08)	Design, In Progress CM, In Progress
B-21	Northern and Southern Guam Reservoirs	Design/CM/Construction In Progress
B-22	Tank Repair/Bypass	Design/CM/Construction In Progress

** No project worksheets.

WASTEWATERNo. of Projects: **16**

There are fourteen (14) active wastewater CIPs, one (1) drainage/roadway improvement project in construction procurement and one (1) study or the Hagatna Wastewater Treatment Plant Interim Disinfection Project. Five (5) wastewater CIPs are substantially complete and in operation. Four (4) projects out of 16 wastewater CIPs will meet consent decree conditions for gravity main, force main, and sewer pump station rehabilitation/replacement.

EXHIBIT NO.	PROJECT TITLE	STATUS
B-23	Asan-Adelup-Hagatna Route 1 Sewer Rehabilitation and Replacement Phase II	Construction Completed
		Close-Out In Progress
B-24	Southern SSES Sewer Rehabilitation Phase II (Baza Gardens-Santa Rita-Talofofo)	CM/Construction Completed
		Close-Out In Progress
B-25	Talofofo Sewer Improvement	Construction Completed
		Project is closed-out
B-26	Tamuning Hot Spots Sewer Line Rehabilitation and Replacement	Construction Completed
		Close-Out In Progress
B-27	Bayside Sewer Pump Station Rehabilitation	Construction Completed
		Design Close-out in progress
B-28	Yigo Sewer Pump Station Flood Mitigation & Facility Rehabilitation	Construction, In Progress
B-29**	Southern Drainage Sewer Line Survey will be incorporated in Route 2 Gravity Sewer Rehab	Planning
B-30**	Fats, Oil, Grease Receiving Station	Procurement**
B-31**	Tumon Hot Spots	Design**
B-32	Dungca Beach Sewer Line Relocation	Design, In Progress**
B-33	Fujita Sewage Pump Station Redundant Force Main	Design, In Progress

B-34	Hagatna Main Sewage Pump Station Redundant Force Main	Design, In Progress
B-35	Hagatna Wastewater Treatment Plant Causeway and Facility Structural Analysis	Design, In Progress
B-36	Hagatna Wastewater Treatment Plant Interim Disinfection	Design, Close-Out In Progress
B-37	Aplacho Drainage and Roadway Improvements Construction	Procurement
B-38	Indefinite Delivery-Indefinite Quantity Islandwide Sewer Collection/Transmission System Repair, Rehabilitation, and Replacement Design	Procurement

** No project worksheets.

ELECTRICAL & CAPITAL IMPROVEMENTS

No. of Projects: 15

Two (2) water projects have completed construction: Casimiru Waterline Replacement and Reifsnider Street Waterline. One (1) IDIQ task order assessment and design being processed for approval. One (1) water project, two (2) electrical projects and three (3) SCADA projects in planning. The remaining five (5) projects are either in construction or construction procurement phase.

EXHIBIT NO.	PROJECT TITLE	STATUS
B-1	IDIQ Task Order No. 2 – Structural Assessment and Rehabilitation Design at Commercial Port and Chaot Sewer Pump Stations	Design (HDR), Process TO approval
B-39	Casimiru Waterline Replacement	Construction Completed
B-40	Reifsnider Street Waterline	Construction Completed
B-41	Temporary Booster Pump Station Consolacion Street, Asan	Construction, In Progress
B-42	Groundwater Production Meter Replacement	Construction, In Progress
B-43	Ugum Water Treatment Plant Rehabilitation	PM/CM, In Progress Construction, Procurement
B-44	Design-Build of Pago Bay 12-inch Waterline Replacement	Planning
B-45	Current Balancing Unit for Deep Well A-09	Planning
B-46	Deep Well Power Line Conditioner Pilot Project	Planning

B-47	GWA Upper Tumon Warehouse Renovation Phase 1	Planning
B-48**	GWA Upper Tumon Warehouse Renovation Phase 2	Planning
B-49	Rojas Harmon Stormwater Drainage Improvement Design	Procurement
B-50**	SCADA Control Center Phases 1 and 2	** Planning
B-51**	SCADA Water Phase 3	** Planning
B-52**	SCADA Wastewater Phase 4	** Planning

** No project worksheets.

CIP SUPPORT (ALL ENGINEERING SECTIONS)

No. of Projects Supported: **1**

Engineering Division provides support as needed for CIPs owned by other Divisions in the planning, procurement, design or construction phase.

AGM – Compliance and Safety	Compliance Laboratory Dedicated Outside Air Unit (DOAU) Replacements	Engineering Support	Planning
	Support Activity Summary: Assist in the procurement phase. 10/16/2023 Held on-site meeting and walk-through with AGME, FMES and Laboratory Supervisors. Discussed scope, laboratory operations, and DOAU's service and maintenance plan. 10/20/2023 Work identified to be performed by Engineering.		

B. Permits

The Completed Permits table below lists the number of work orders completed by Permits inspectors/engineers for customer requests related to certain permits or utility services. It also summarizes the total work orders completed 'year to date' up to December. The table is updated in this Monthly Engineering Report for January 2024.

COMPLETED PERMITS													Year to date total
	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	7/1/20234	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	
Building Permit	30												30
Occupancy Permit	6												6
New Installation	27												27
Sewer Application	2												2
Sewer Inspection	2												2
Private Utility Acceptance	0												0
Relocation of Water Meter	3												3
Tapping-Water	5												5
Tapping-Sewer	2												2
Clearance-Water	14												14
Clearance-Sewer	13												13
Highway Encroachment	12												12
Verification of Utilities	11												11
Fire Flow Test	16												16
Schedule Water Outage	2												2
GPA Utility Clearances	12												12
GTA Utility Clearances	12												12

AVERAGE PROCESSING TIME FOR COMPLETIONS (DAYS) FOR THE CALENDAR MONTH OF JANUARY

The Average Processing Time for Completions (Days) for the Calendar Month table below summarizes the average time of days it took to complete each type of work order for certain permits or utility services. For example, the average processing time for Building Permits in January 2024 was 29 days. To calculate the average processing time for Building Permits in January 2024, we refer to the Completed Permits table for January 2024, where we find that there were 30 Building permits completed. Each of the 30 building permits ranged from 1 to 102 days to complete. We calculate the average by adding up the total number of days it took to complete each building permit (877 days in total) and then dividing the total by 30, resulting in an average processing time of 29 days. If the average processing time for the month greatly deviates from the previous monthly averages, an explanation is provided.

Description	2024											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Building Permit	29											
Occupancy Permit	0											
New Installation	163											
Sewer Application	0											
Sewer Inspection	0											
Private Utility Acceptance	0											
Relocation of Water Meter	30											
Tapping-Water	0											
Tapping-Sewer	0											
Clearance-Water	0											
Clearance-Sewer	0											
Highway Encroachment	0											
Verification of Utilities	25											
Fire Flow Test	0											
Schedule Water Outage	0											

C. Geographic Information System (GIS)

During the month of January 2024, the GIS Section concentrated its efforts on Sewer and Water System updates, map request, GIS assistance for Consent Decrees, updating the GIS, GIS Help Desk assistance, field work to assist operations along with the calculations the go with it, updating SCC, Asset Management, and Dispatch GIS systems.

Sewer System Updates

Due to technical difficulties, no data is available.

Water System Updates

Due to technical difficulties, no data is available.

Map Requests

The GIS Section receives request for maps in various forms. The Engineering sections request maps for field work and for customers. The GM's office requested PFO's and PFOA maps during this period.

GIS Assistance for Consent Decrees

The two Consent Decree projects needing GIS help was the Sewer Force Main rating and Inspection, and the proper updating of the Sewer Gravity Mains.

- The GIS Section had to create a whole new GIS Shape File with the columns needed to fulfill the data for the Consent Decree.
- The Sewer Gravity Mains were updated with the field information from the CCTV Crew.

Updating the GIS

In January some updates were done to the Sewer and Water geodatabases. This is usually done on a monthly basis. This information is passed to the rest of the GIS Section, and the Water and Wastewater modeler.

GIS Help Desk Assistance

The GIS Section is constantly sought after to answer simple and challenging questions about the usage of the GIS. We are more than will to assist.

Field Work to assist Operations and Planning

Field work was conducted in the following areas:

- a. Santa Rosa, Yigo – A pipe broke underneath a survey monument and we went out to preserve the monument’s original location.
- b. Chaple Road, Barrigada – A right-of-way centerline needed to be calculated to show Operations where the right-of-way was located. Operations is marshalling up an excavator and more personnel to go back out and clear the right-of-way. The GIS Section will be out there with them to assist.
- c. Smoke Testing by Planning – The GIS Section assisted Planning in smoke testing a barracks in Barrigada.

Updating SCC, Asset Management, and Dispatch GIS systems

The office housing SCC, Asset Management, and Dispatch on the third floor were in need of updated GIS information. We also upgraded them with our latest 2022 Imagery recently acquired from GPA.

D. Land Management

GWA Facility	Location	Gov. or Private Property	Land Acquisition Status
Tanks	Astumbo-L10164	Gov't. - CLTC	Petition of Land Registration package forwarded to Attorney General by DLM 11/04/19. AG pending court filing 06/30/2021 – Follow up status sent to DLM 10/06/2021; 11/03/2021; 01/27/2022; 03/04/2022; 05/12/2022; 07/07/2022;09/12/2022; 12/27/2022; DLM response 07/11/2023 have not been able to meet with Assignment AG for LR proceedings. Land Agent has followed up and emailed multiple times with Margarita at DLM on meeting with DLM attorney on status of Land Registration proceedings 10/02/2023. This process is crucial for GWA to acquire property for GWA reservoir. 02/01/2024: Follow up sent to Margarita at DLM
	Piti-L259	Private/Federal	Received final comments from DoAg. Waiting on the archaeological report before we can submit 299 forms. Waiting for permission from NPS to access the lot and perform the Archeological survey.
	Ugum River Intake/Booster Pump Station	Private	When the UGUM Water treatment plant was built in 1990, no land reservations for the area by the booster pump station, the Ugum river intake and access road. Land Agent currently researching the area under Lot 292, owned by the Aguon Family. GWA would need to secure a Grant of Easement for the access road and booster pump facility along the river intake. 12/19/2023: GWA coordinating with DCA for survey services to perform a boundary retracement survey of the subject lot to establish the limits of the survey; as-built existing facilities, structures, and road, to obtain + 2,376 square meters for the parcel and create the easement for GWA reservation
Deep Wells	AG-12-L10154-4	Dept. of Agriculture/Manhita Farms	Right of Entry Agreement sent to Manhita Farms for signature 05/24/18. 2 nd follow up sent on 04/10/19; 08/03/2021. ROE Agreement information sent to GWA legal counsel for further review and processing 01/28/2022; 08/11/2023 –GM signed and submitted to DCA

			for final review and processing at DLM; 09/26/2023-Submitted to DCA for final map processing. 01/02/2024: sent update status email to DCA.
Booster Pump Station	Agfayan-T3734 B19 L28	Private	TGE working on structural design for pump station area for L28, B19, T3734, Inarajan 11/07/19. Letter of Decision received by CLTC 06/09/2021. CLTC has responded for in-kind service letter 10/08/2021. 1 st appraisal report submitted to GWA 05/11/2022. 2 nd appraisal submittal to GWA 09/20/2022. Appraisal report sent to GM/legal counsel for review, approval and response 09/22/2022. Request for updated Appraisal report sent to TG Engineers for cost estimate 09/28/2023. Garrett stated updated appraisal report cost is \$2500 each. Funding needs to be requested. 10/02/2023
Asan Springs	Asan-L501	Federal	<ul style="list-style-type: none"> • Revised Environmental Assessment report with NPS for review. 1/25/24 • 09/18/2023: The Office of Congressman Moylan has offered assistance to work with the NPS in completing the EA and Finding of No Significant Impact (FONSI) along with the Right of Way agreement to GWA, the EA is a prerequisite of the ROE agreement.

E. Planning & Support Services

Planning Activities January 2024

1. FEMA Preliminary Damage Assessments – Planning is responsible for the coordination, preparation and submission of Preliminary Damage Assessments for Typhoon Mawar
 - a. Documentation and FEMA claims – Planning is Project Manager for putting gathering documentation to support FEMA claims and ensuring reimbursements
2. Engineering Project Management –Due to the number of CIPs and to further support the Engineering CIP. Planning is also serving as the Project Manager or Deputy Project Manager for the following design/construction projects:
 - a. Rojas Harmon Stormwater Drainage Improvements Design RFP
 - b. Aplacho Roadway and Drainage Improvements Construction – IFB
 - c. GAC Filter Construction Project
 - d. Gill Breeze Water and Wastewater Design Project
3. Department of Interior Grant Training – Planning is also assisting GWA Operations and GWA HR Training in order to execute the following grant funded training related projects
 - a. Department of Interior Maintenance Assistance Program (MAP) 2020 – lead and coordinate the training and equipment purchases for operation comprising of the following: Sewer audit and training, mobile sewer inspection equipment, GPS equipment and reference materials
 - b. Department of Interior Maintenance Assistance Program (MAP) 2022 – responsible for reporting to Grantor the execution of procuring training for Operations which consists of welding, pump and motor, electrician, and SCADA
 - c. Department of Interior Technical Assistance Program (TAP) 2023 – responsible for reporting to the grantor status of the execution of the purchase of drone and sewer equipment for Engineering and Operations
4. Administrative – Planning also provides administrative support by leading the following tasks:
 - a. Monthly Engineering Report – gathers information and prepares report for review
 - b. Engineering Project Tracking – tracks project status and updates
 - c. Engineering Project Procurement and Payments – facilitates procurement process and prepares payments to vendors
 - d. NEPA and Section 106 Consultation Letters, Maps and Pictures – prepares letters and maps to various agencies
 - e. USEPA Grant Funding Tracking and meetings – tracks USEPA grant funds and hosts meetings
 - f. Application Review Committee response letters and meetings – researches and prepares response letters for development
5. Special Projects are assigned to the Planning Section to verify the following:
 - a. Ordot Leachate Dye Testing -three day field testing to verify connection; pending

- b. Pipe Locating and Ground Penetrating Radar – conducts various pipe locating missions in order to verify utility locations
- c. BME smoke testing and field verification – smoke tested and field verified customers connection to sewer to assist permits section

F. CIP Exhibits (COVER PAGE)

B-1 ID/IQ – Professional Civil and Structural Design Services M19-001-BND

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 02/08/2024	Asst. GM of Engineering	See Activities	Water/WW/Support
Indefinite Delivery/Indefinite Quantity for professional civil and structural design services for various type of water and wastewater utility projects.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-02-ENG-2019	6/17/2019	6/17/2024	AECOM Technical Services, Inc.
Design	RFP-02-ENG-2019	7/17/2019	7/17/2024	HDR, Inc.

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design (AECOM)	PW 05-06, MP-PW-Pipe-07	\$1,000,000.00	
Design (HDR)	PW 09-03	\$750,000.00	

ACTIVITIES

<p>AECOM</p> <ul style="list-style-type: none"> • Task Order No. 1 Mataguac Booster Pump Station Rehabilitation Design: 60% design phase. <ul style="list-style-type: none"> a. Project Engineer: Garrett K.A. Yeoh, William F. Esteves b. TO cost: \$250,000.00 • Task Order No. 2 Miscellaneous Booster Pump Station Improvements: Upgrade design for Adawag, Chalan Palauan, Pale Kieran, Ulloa/Untalan, Camacho, Manuel Tenorio, Santa Ana, Geus, Ija, Pigua, Umatac No. 1, and Umatac No. 2 booster pump stations. Pending AGME’s approval of Task Order. <ul style="list-style-type: none"> a. Project Engineer: William F. Esteves, Garrett K.A. Yeoh b. TO cost: \$750,000.00
<p>HDR</p> <ul style="list-style-type: none"> • Task Order No. 1 Tai Road/S-13 and Toto Canada Road/Blas Street Waterline Replacement Design: 100% design completed. Under construction. See Tai Road/S-13 and Toto Canada Road/Blas Street Waterline Replacement construction project update sheet for details. <ul style="list-style-type: none"> a. Project Engineer: Jessey A. Mendiola b. TO cost: \$164,310.00 • Task Order No. 2 – Structural Assessment and Rehabilitation Design at Commercial Port and Chaot Sewer Pump Stations. This involves the structural assessment of structural system failures at Commercial Port and Chaot SPSs, and design of structural modifications to entry/exit for removal/reinstallation of pumps at Chaot SPS. On 7/25/23 Task order no. 2 draft was submitted. On 08/01/23 AGME approved to proceed on processing approval. 10/05/23 Attorney approved and returned TO no. 2 with her initials. <ul style="list-style-type: none"> a. Project Engineer: Ernie Villarin b. TO cost: \$61,547 c. Proposed funding source: MP-WW-Pump-01 Lift Station Rehabilitation/Replacement Program

B-2 ID/IQ – Professional Project-Construction Management Services M19-003-BND

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 02/08/2024	Asst. GM of Engineering	See Activities	Water/WW/Support
Indefinite delivery/Indefinite quantity for professional project and construction management services for various types of water and wastewater utility projects.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
PM-CM	RFP-04-ENG-2019	06/19/2019	06/19/2024	Brown and Caldwell
PM-CM	RFP-04-ENG-2019	06/17/2019	06/14/2024	Duenas, Camacho & Associates, Inc.

ACTIVITIES

<p>Brown and Caldwell Task Orders:</p> <ol style="list-style-type: none"> 1. Bond Report 2. Route 4 Sewer CIP (completed) 3. Asan-Adelup-Hagatna Sewer Rehabilitation CIP (completed) 4. Southern SSES CIP (completed) 5. Cost of Services Study 6. Water Meter Technical Assistance 7. Wastewater Hydraulic Model 8. Master Plan Update 9. Modeling <p>Duenas, Camacho, and Associates Task Orders:</p> <ol style="list-style-type: none"> 1. Tank Repair Bypass CIP 2. Tai-Toto-Canada Water CIP 3. Ugum Water Treatment Plant Rehabilitation CIP 4. Yigo Sewer Pump Station CIP 5. Tank Inspection and Repairs CIP 6. District Metered Areas and Pressure Zone Realignment CIP 7. Wells A-23, A-25 remediation (see B-8 Central Guam Reservoirs project) 8. Groundwater Wells Treatment Design CIP for Dieldrin 9. Waterline Replacement CIP

B-3 Gill Breeze Subdivision Water and Sewer RFP-09-ENG-2022

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 2/1/2024	Mauryn Q. McDonald, P.E.	Rylma Carino	Wastewater CIP
Design and construct a water system, conduct a study to determine the most appropriate wastewater disposal system (private onsite systems or public sewer system), and design and construct the wastewater disposal system.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-09-ENG-2022	In Procurement		TBD
Construction Management				
Construction				

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	USEPA grants		
Construction Management			
Construction			

- ACTIVITIES**
1. USEPA confirmed that grant funds can be used for construction on private lots (for private laterals).
 1. The Notification of procurement was signed and submitted to Attorney's General Office on 1/22/2024 and the response is expected the week of 2/1/2024.
 2. The request for proposals for design was published on 1/23/2024.
 3. The last day for proposal submission is 3/19/2024.

B-4	Adacao Water and Sewer Infrastructure Design Services	S22-004-ARP
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UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 2/6/2024	Mauryn Q. McDonald, P.E.	George J. Watson	Wastewater CIP
Evaluate and design water and sewer infrastructure to upgrade water and bring property owners off of septic and onto sewer for the Adacao area in Mangilao, where GWA is observing high Nitrates at 5 production deep wells.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-09-ENG-2022	3/1/2023	12/31/2026	Duenas, Camacho & Associates
Construction Management				
Construction				

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	American Rescue Plan Act (ARPA) Grant	\$1,164,322.48	40%
Construction Management			
Construction			

ACTIVITIES
<ul style="list-style-type: none"> MOA between GWA and CLTC is signed (5/18/23) Designer (DCA) submitted Final Basis of Design and 60% plans and specs (11/21/23) Met with BME owners to discuss potential SPS on a portion of their property (9/15/23); Confirmed interest, and signed Right of Entry agreement with BME to survey lot. GM signed ROE (9/25/23) Met again w/ BME (1/26/24) to confirm interests and move forward with appraisal. Designer sent survey of BME site for property appraisal; appraisal conducted on 1/30/24; will likely take 2-3 weeks to complete appraisal report. Will schedule another meeting in late February with Mangilao Mayor Allan to update and plan for town hall meeting for Adacao residents in March/April; need to consider the impact of Dieldrin in wells and upcoming EPA enforcement on Dieldrin. Potential for centralized GAC treatment for well in Adacao; considering location and wells in the area that need it. Working on time extension request letter for funding. <p>Total ARPA funding from Governor's Office: \$8.7M</p>

B-7 Central Guam Reservoirs W14-006-BND

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
01/04/2024	Brett E. Railey, P.E.	Garrett K. A. Yeoh	Water
The work to be performed consist of designing and constructing new reservoirs, pipes, vaults, instrumentation, electrical, SCADA system, booster pump stations, pressure reducing valves, and general system upgrades. Sites include Tumon No. 1, Chaot No. 2, Barrigada Hgts (Hyundai), Tamuning (Airport), and Manenggon (Pulantat) Reservoirs, and Barrigada Res BPS, Barrigada Heights BPS, St. John's PRV, St. Vitores Road PRV, A-23 DW, and A-25 DW.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-09-ENG-2014	5/23/2015	12/2024	GHD, Inc.
Construction Management (Tumon, Chaot, Barrigada)	RFP-02-ENG-2017	12/13/2017	Complete	TG Engineers, PC
Construction Management (Tamuning, Manenggon)	RFP-01-ENG-2023	07/07/2023	06/2025	Duenas, Camacho & Associates, Inc.
Construction (Tumon, Chaot, Barrigada)	IFB-09-ENG-2017	02/02/2018	05/2023	AIC International
Construction (Tamuning, Manenggon)	IFB-01-ENG-2023	1/22/2024	06/2025	Core Tech Intl.

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	PW 09-11, PW 12-04, PW 12-06	\$3,644,279.00	95%
Construction Management (Tumon, Chaot, Barrigada)	PW 09-11, PW 12-04, PW12-06	\$3,171,745.23	100%
Construction Management (Tamuning, Manenggon)	PW 09-11	\$1,840,912.95	
Construction (Tumon, Chaot, Barrigada)	PW 09-03, PW 09-04, PW 09-11, PW 12-04, PW 12-06, SDC	\$22,860,219.00	96%
Construction (Tamuning, Manenggon)	PW 09-11, PW 12-04, PW 12-06	\$34,429,555.00	

ACTIVITIES

Design:

- Tumon, Chaot, Barrigada, Tamuning, Manenggong 100% design 08/2022.
- A23/A25 GAC system bid documents under preparation. USDOJ and USEPA funded. Engineering working on updating plans to include damage repairs to A-25, which include modifications for A-23.

Construction Management:

- RFP-01-ENG-2023 Tamuning and Manenggong Reservoirs: Contract signed 07/07/23. Partial NTP issued 09/19/23 to begin project file management set up. Full NTP will be issued 02/12/2024.

Construction:

- Tumon, Chaot, Barrigada: All tanks completed and in service. Contractor troubleshooting RTUs at PRV and tank sites. Installation of new valve near Holiday Towers and capping of distribution line at A29/A30 is pending GWA operations schedule.
 - IFB-01-ENG-2023 Tamuning and Manenggong Reservoirs: Contractor signed. Full NTP will be issued 02/12/2024.
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B-8	Design and CM Services for Waterline Replacement of Various Bridges	W22-08-BND
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UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
02/02/2024	Brett E. Railey, P.E.	Ernesto L. Villarín	Water
Work will involve design, construction management, and construction/repair of water and sewer lines crossing various bridges.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design/Construction Management	RFP-03-ENG-2023			GHD Inc.
Construction				

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design/Construction Management	MP-PW-Pipe 12	\$1,356,199.90	
Construction			

ACTIVITIES
01/31/24 - Design and CM Services contract under processing.

B-9 Pressure Zone Realignment W18-001-BND

UPDATE	SUPERVISOR	PROJECT ENGINEERS	SECTION
01/04/2024	Brett E. Railey, P.E.	Garrett K. A. Yeoh, Jessey A. Mendiola, Jacob Miller	Water
The work to be performed involves designing, construction managing, and constructing pressure zones, which consists of pressure reducing valves, flow meters, vaults, pipeline, electrical, instrumentation, and SCADA. Design and construction shall be in 5 phases.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design CM (Phase 1)	RFP-03-ENG-2018	08/16/2018	12/2024	GHD, Inc.
CM (Phase 2)	RFP-05-ENG-2022	06/21/2023		AmOrient Engineering
Construction (Phase 1)	IFB-07-ENG-2019	04/21/2020	3/2023	Sumitomo Mitsui Construction
Construction (Phase 2)	IFB-02-ENG-2024			

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design CM (Phase 1)	PW 09-04, PW 09-10, PW 09-11, PW 12-01	\$3,366,996.00	75%
CM (Phase 2)	USEPA-SRF Grant	\$1,688,925.00	0%
Construction (Phase 1)	USEPA-SRF Grant, PW 05-16, PW 12-01	\$6,046,179.63	95%
Construction (Phase 2)	USEPA-SRF Grant		0%

ACTIVITIES

Design: Phase 3 design at 65%
Construction: <ul style="list-style-type: none"> Phase 1: Punch list items and in discussions with property owners to finalize property acquisition and/or easements. Phase 2: 100% design completed 03/23. IFB advertisement date: 02/14/24.

B-10 **Fire Hydrant Replacement Phase 1** **W-19-002-BND**

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 8/30/2023	Brian W. Hess, P.E.	Sylvia Y. Mercado	Water
Replacement of 72 each existing old dry barrel fire hydrant with new wet barrel type hydrant at locations in several villages around the island.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	GWA In-House	N/A	N/A	N/A
Construction Management	GWA In-House	N/A	N/A	N/A
Construction	IFB-03-ENG-2019	9/30/2019	02/17/2024 (Tentative)	Mega United, Inc.

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	N/A	N/A	100%
Construction Management	N/A	N/A	
Construction	Bond 2016 PW 14-01	\$1,300,645.92	85%

ACTIVITIES

Scope of Work:
 The Fire Hydrant Replacement Phase 1 was bid under an Owner Furnished Contractor Installed (OFICI) contract. GWA will supply the hydrant body, gasket, bolts and nuts to contractor.

Change Order:
 Mega United Change Order No. 05 in the amount of \$78,277.92 was processed and approved on 12/19/23.

Project Status:
 Out of the 72 Unit Fire Hydrant, 71 Units are completely installed. The remaining 1 fire hydrant in Dededo needs to replace broken 6" gate valve. Mega United is waiting for operation schedule of water outage. GWA Operation can't find the right existing line valve to control water coming from the subject fire hydrant. The fire flow test was completed on 71 Units fire hydrant.

The project completion date is on February 17, 2024, a walk through on each fire hydrant is going to be scheduled for punch list items and corrections followed by project substantial completion and project closure.

B-11 Tai Rd./ S-13 and Canada-Toto Lp./Blas St. M19-001BND
Waterline Replacement

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
01/04/2024	Brett E. Railey, PE	Jessey A. Mendiola	Water
Replacement of old waterlines and reconnection of all customer service laterals along Tai Rd., S-13 (a short street off of Tai Rd.) Toto Canada Loop, and Blas Street. Replacement/ reconnection of WL on Taison Rd, off of Toto Canada Loop, has also been added into the project as of CO no. 2.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	Civil/ Structural IDIQ- TO No. 1	1/20/2020	10/2021	HDR Engineering, Inc.
Construction Management	PM/CM Services IDIQ- TO No. 2	5/6/2021	5/2023	Duenas, Camacho & Associates, Inc.
Construction	IFB-02-ENG-2021	5/12/2021	5/22/2023	Giant Construction Corporation

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	Bond 2013 PW 09-03	\$164,310.00	100%
Construction Management	Bond 2020 PW 09-03	\$189,729.00	65%
Construction	Bond 2020 PW 09-03, Bond 2020 MP-PW-Pipe-12, Grant, IFCIP	\$2,966,350.21	86%

ACTIVITIES

Tai Rd.: CO No. 5 approved on 1/13/24 for additional lateral connections. Connections installed, and disinfection testing conducted on 1/25/24- pending results.

Toto Canada Loop: Reconnection of the 2" waterline on the unnamed road to the new 12" line on Toto-Canada Road ongoing.

Taison Rd.: Complete.

Change Order No. 6 pending- Additional street (Okso Ashley Rd.) needs to be connected to the new 12" on Toto-Canada Lp. Awaiting cost estimates from contractor.

B-12 **Asan Springs Rehabilitation** **W11-003-BND**

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
01/04/2024	Brett E. Railey, P.E.	Jessey Mendiola, Ryan Diaz	Water
The work involves designing and modifying the existing spring impoundment, constructing a new chlorination building, installing a new generator and new pumps, and other site improvements.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-11-ENG-2015	8/23/2016	12/2026	HDR

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	USDOI Grant, PW 05-15	\$712,263.00	85.8%

ACTIVITIES

Design:
 The office of Congressman Moylan will assist GWA by sending letter to NPS seeking assistance to resolve property issues.

Revised environmental assessment report completed and sent to NPS on 11/15/23. EA re-sent to NPS for review on 1/24/24.

Discussion of design scope modification to include treatment for PFAS ongoing.

B-13 Groundwater Wells A-02, A-07, A-12, D-05, and F-03 Rehabilitation (Re-bid No. 3) W16-001-EPA

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
01/04/2024	Brett Railey, P.E.	Ryan Diaz, Garrett Yeoh	Water
The work involves rehabilitating two existing production wells; A-12 and F-03. Existing Wells, A-02 and D-05, are currently not in production, and are included in the work as an additive bid. Other major work involves installing a new standby generator, a new chlorination building, new well equipment, and other site improvements.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-02-ENG-2016	5/26/2016	6/18/2024	AECOM
Construction Management	RFP-06-ENG-2019	12/01/2020	6/18/2024	DCA
Construction	IFB-02-ENG-2023			

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	USEPA – SRF	\$1,758,247.00	91%
Construction Management	USEPA – SRF	\$640,248.00	
Construction	USEPA - SRF		

Design: 100% design completed (revision 3) 07/2022.

Construction: IFB-02-ENG-2023 Groundwater Wells A-02, A-07, A-12, D-05, and F-03 Rehabilitation (Re-bid No. 3)

- 11/17/23: IFB issued.
- 02/15/23: No bids received.
- 02/23/23: Post bid surveys sent out to registered bidders. Three firms responded.

Under discussion to re-package bid to include additional wells and well abandonment.

Project on hold until further decision by AGME.

B-14 ID/IQ - Design and CM Asbestos Concrete Pipe for Waterline Replacement W22-05-BND

UPDATE	SUPERVISOR	PROJECT ENGINEERS	SECTION
02/02/2024	Brett E. Railey, P.E.	Garrett Yeoh, Jacob Miller	Water
The work to be performed consists of design and construction management of asbestos concrete pipe (ACP) waterline replacement island-wide. Work will include development of ACP waterline replacement priority list and water line designs for selected sites. Site prioritization shall be guided by the Water Resource Master Plan, operation and engineering input and data.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-04-ENG-2022			GHD, Inc.

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	USEPA-SRF Grant	\$1,500,000.00	0%

ACTIVITIES

CCU Resolution No. 17-FY2023 approved contract for \$5,427,000.00.
ID/IQ 505 Contract under final revisions. A/E working on Task Order 01.

B-15	ID/IQ - Design and CM for Waterline Replacement and Upgrades	W22-04-BND
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UPDATE	SUPERVISOR	PROJECT ENGINEERS	SECTION
02/02/2024	Brett E. Railey, P.E.	Garrett Yeoh, Jacob Miller	Water
<p>The work to be performed consist of design and construction management of miscellaneous waterline island-wide. Work will include development of waterline replacement priority list and water line designs for selected sites. Site prioritization shall be guided by the Water Resource Master Plan, operation and engineering input and data.</p>			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design/Construction Management	RFP-03-ENG-2022			Duenas, Camacho & Associates, Inc.

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	USEPA-SRF Grant	\$1,500,000.00	0%

ACTIVITIES
CCU Resolution No. 19-FY2023 approved contract for \$5,973,682.00.
ID/IQ 505 Contract under final revisions. A/E working on Task Order 01.

B-16 ID/IQ - Design and CM Implementation of District Meter Areas **W22-06-BND**

UPDATE	SUPERVISOR	PROJECT ENGINEERS	SECTION
02/02/2024	Brett E. Railey, P.E.	Garrett Yeoh, William F. Esteves, Jacob Miller	Water
The work to be performed consists of design and construction management of District Meter Areas (DMA). Work will include development of DMA priority list and designs for selected sites. Site prioritization shall be guided by the DMA Implementation plan, operation and engineering input and data.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-07-ENG-2022			Duenas, Camacho & Associates, Inc.

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	USEPA-SRF Grant	\$1,500,000.00	0%

ACTIVITIES

CCU Resolution No. 20-FY2023 approved contract for \$3,119,377.00.
ID/IQ 505 Contract under final revisions. A/E working on Task Order 01.

B-17 ID/IQ - Design and CM Undersized Waterline Replacement W22-03-BND

UPDATE	SUPERVISOR	PROJECT ENGINEERS	SECTION
02/02/2024	Brett E. Railey, P.E.	Garrett Yeoh, Jacob Miller	Water
The work to be performed consist of design and construction management of undersized waterline replacement island-wide. Work will include development of ACP waterline replacement priority list and water line designs for selected sites. Site prioritization shall be guided by the Water Resource Master Plan, operation and engineering input and data.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-01-ENG-2022			Brown and Caldwell

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	USEPA-SRF Grant		0%

ACTIVITIES

CCU resolution approved.

ID/IQ 505 Contract under final revisions. A/E working on Task Order 01.

B-18 Santa Rita Springs Rehabilitation

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
02/02/2024	Brett E. Railey, P.E.	Garrett Yeoh	Water

The work to be performed consist of design of the Santa Rita Springs Rehabilitation. Work will include increasing the impoundment, new impoundment roof, chlorination system, pump system and all other site upgrades.

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design				
Construction Management				
Construction				

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design			
Construction Management			
Construction			

ACTIVITIES
 Design scope of work under revision to expand scope.

B-19	Brigade II Booster Pump Station	W11-004-BND
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UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
01/04/2024	Brett E. Railey, P.E.	Jessey A. Mendiola	Water
Design/ construction of a new booster pump station, to include a new building structure, pump system, electrical system piping instrumentations, SCADA, general site upgrades, and off-site improvements such as new PRV's, valves, and vaults.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-02-ENG-2011	4/5/2012	8/2022	E.M. Chen & Associates
Construction Management	RFP-02-ENG-2022			Duenas, Camacho & Associates, Inc.
Construction				

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	PW 05-12	\$245,863.20	98%
Construction Management			
Construction			

ACTIVITIES
<p>Design: 100% design completed 8/2022.</p> <p>Construction: Pending funding availability. Funding was reallocated to CO projects.</p> <p>CM: Pending funding availability. Funding was reallocated to CO projects.</p>

B-20 New Well Construction (AG-10, AG-12, Y-08)

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
01/04/2024	Brett E. Railey, P.E.	Jessey A. Mendiola	Water
Design and construction of three new production wells (AG-10, AG-12, Y-08).			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-01-ENG-2010	5/5/2011		GHD, Inc. (Formerly Winzler Kelly)
Construction Management	PM/CM Services ID/IQ			Duenas, Camacho & Associates, Inc.
Construction				

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	PW 05-13, PW 05-14, Bond 2016 PW 09-02	\$1,203,308.00	86%
Construction Management			
Construction			

ACTIVITIES

Design: Design in progress to be consistent with Groundwater Wells A-02, A-07, A-12, D-05, and F-05 Rehabilitation (Project B-12). Pending decision on Rehab Well project on next steps for well projects due to no construction bidders.

Pending further decision by the AGME.

B-21 Northern and Southern Guam Reservoirs W14-007-BND

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
01/04/2024	Brett Railey, P.E.	Garrett Yeoh	Water
The work to be performed consist of designing and constructing new reservoirs, pipes, vaults, instrumentation, electrical, SCADA system, booster pump stations, pressure reducing valves, and general system upgrades. Sites include Santa Rosa No. 2 (SR), Santa Rita (SRI), Sinifa No. 2 (SIN), Inarajan, and Ugum No. 2 Reservoirs, and Santa Rosa, Agfayan, and Inarajan BPS's, and miscellaneous pressure zones pipeline work.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-09-ENG-2014	05/23/2015	06/2024	TG Engineers, P.C.
CM (SR, SRI, SIN)	RFP-06-ENG-2017	04/02/2018	04/2023	GHD, Inc.
CM (Ugum No. 2)	RFP-04-ENG-2023	12/01/2023		GHD, Inc.
Construction (SR, SRI, SIN)	IFB-01-ENG-2019	09/30/2019	12/2023	AIC, International
Construction (Ugum No. 2)	IFB-06-ENG-2023	02/03/2024		AIC, International

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	PW 09-11	\$3,992,595.20	79%
CM (SR, SRI, SIN)	PW 09-11	\$6,387,678.96	94%
CM (Ugum No. 2)	PW 09-11		
Construction (SR, SRI, SIN)	PW 09-03, PW 09-04, PW 09-11	\$27,356,044.61	61%
Construction (Ugum No. 2)	PW 09-11, PW 11-02	\$22,834,768.00	

ACTIVITIES

<p>Design:</p> <ul style="list-style-type: none"> • Santa Rosa, Santa Rita, Sinifa, and Ugum No. 2 100% design completed. Inarajan and Agfayan BPS design ongoing (pending property acquisition for Agfayan). <p>Construction:</p> <ul style="list-style-type: none"> • Santa Rosa, Sinifa, Santa Rita: Santa Rosa No. 2 and Sinifa No. 2 reservoirs completed and in service. Santa Rita tank work halted due to uncertainty of the slope failure and high cost for slope stabilization and waterline, electrical, earthwork, roadway realignment. Santa Rita storage will move to Sinifa site. Hydraulic report prepared by B&C validated storage requirements. Santa Rosa BPS and miscellaneous site work ongoing. Sinifa electrical, control building, and miscellaneous site work ongoing. • Santa Rosa No. 1 and Sinifa No. 1 steel tanks inspected. Santa Rosa No. 1 and Sinifa No. 1 repair scope of work and fee are under negotiations with the Contractor. Cost received is \$3M per reservoir. Contractor has submitted a reduced price for the Santa Rosa No. 1 repair. Cost is under review. • IFB-06-ENG-2023 Ugum No. 2 Reservoir: Construction and Construction Management contracts under execution. Contractor and Construction Management NTP to be issued 02/12/2024.
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B-22 Tank Repair/Bypass W19-003-BND

UPDATE	SUPERVISOR	PROJECT ENGINEERS	SECTION
01/04/2024	Brett E. Railey, P.E.	Calvin Yam, Garrett Yeoh	Water
The work to be performed consists of installing bypass piping, valves, etc. ahead of tank inspection. The operation of the bypass will allow the API inspectors and structural engineer to determine appropriate repairs after which the contractor will proceed to repair the tanks.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-03-ENG-2008	8/1/2008	12/2023	Duenas, Camacho & Associates, Inc.
Construction Management	RFP-04-ENG-2019	6/17/2019	10/2023	Duenas, Camacho & Associates, Inc.
Construction	IFB-06-ENG-2019	4/21/2020	10/2023	AIC International

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	Bond 2005, Bond 2010	\$1,291,799.91	100%
Construction Management	PW 09-11, MP-PW-Tank-22, MP-PW-Tank-23	\$897,077.00	40%
Construction	PW 09-09, PW 09-11, PW 12-05, SDC	\$14,022,773.57	53.3%

ACTIVITIES

Agat Umatac: 07/18/22 in service.
 Yigo No. 3: 08/08/22 in service.
 Windward Hills: 05/17/23 in service.
 Astumbo No. 1: Interior coating.
 Malojloj: Bypass completed. Tank will be taken offline for inspection/repair after Pigua repair.
 Umatac Subdivision: Contractor has submitted repair fee. Cost is \$1.5M. AIC to resubmit cost.
 Santa Ana: 11/21/2023 in service.
 Upper and Lower Nimitz: Demolition of Lower Nimitz completed. New Lower Nimitz tank arrived. Pending Change Order for repair of Upper Nimitz. Contractor has submitted revised cost for Upper Nimitz repair. Under review.
 Pigua: Interior coating.
 Kaiser: Installation of bottom floor plate and roof repair outer ring sections.

<u>B-23</u>	Asan-Adelup-Hagatna Route 1 Sewer Rehabilitation and Replacement Phase II	S15-002-EPA
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UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 2/1/2024	Mauryn Q. McDonald, P.E.	Brown and Caldwell	Wastewater CIP
<p>The gravity sewer main between Asan and Hagatna had deteriorated and required rehabilitation and replacement. The project involves the rehabilitation, repair, or replacement of approximately 1,700 linear feet of gravity sewer along Route 1 by Adelup and over 6,900 linear feet of gravity sewer in Hagatna. Wherever possible, cured-in-place-pipe was used to avoid trenching, which minimizes impacts to motorists and reduces construction timeframes.</p>			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-02-ENG-2015	12/10/2015	12/2023	HDR Inc.
Construction Management	RFP-04-ENG-2017	7/31/2018	12/2023	Duenas, Camacho & Associates, Inc.
Project Management	PM/CM Services ID/IQ - TO No. 3	1/17/2020	12/2023	Brown and Caldwell
Construction	IFB-06-ENG-2020	1/22/2021	12/2022	Core Tech – Hawaiian Dredging, LLC

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	SRF Grant	\$1,999,246.38	100%
Construction Management	SRF Grant, M 96902617-3 & M 96902619	\$1,557,671.45	100%
Project Management	SRF Grant, M 96902619 & M 96902621	\$617,485.00	100%
Construction	SRF Grant, M 96902619	\$8,631,013.16	100%

ACTIVITIES
Construction completed. Project manager to submit final records.

B-24 Southern SSES Sewer Rehabilitation Phase II S15-001-EPA
 (Baza Gardens – Santa Rita – Talofofo)

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 2/1/2024	Maurn Q. McDonald, P.E.	Brown and Caldwell	Wastewater CIP
Rehab and/or replacement of old sewer lines to resolve I/I issues in the Southern wastewater collections system, in particular in Baza Gardens, Talofofo, and Santa Rita.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Construction Management	PM/CM Services ID/IQ- TO No. 4	1/17/2020	12/2023	Brown and Caldwell
Construction	IFB-04-ENG-2016	7/29/2016	12/2023	ProPacific

PHASE	FUNDING SOURCES	COST	% COMPLETE
Construction Management	SRF Grant, M 96902619	\$546,618.00	100%
Construction	SRF Grant, M 96902617-3	\$1,189,815.00	100%

ACTIVITIES

Construction completed. Project manager to submit final records.
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B-25 Talofof Sewer Improvement S16-004-EPA

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 2/1/2024	Mauryn Q. McDonald, P.E.	Gerald N. Gattoc	Wastewater
Design and Construction of 4 Sewer Lift Stations in the Talofof village where sewer lines are installed but never completed.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-07-ENG-2016	8/12/2016	5/2020	EMPSCO Engineering Consultants
Construction Management	In-house	n/a	5/2020	GWA
Construction	IFB-07-ENG-2018	12/26/2018	5/2020	Giant Construction Corporation

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	SRF Grant	\$501,092.86	100%
Construction Management	n/a	n/a	100%
Construction	SRF Grant, M 96902617-2	\$2,384,251.28	100%

ACTIVITIES

Construction is complete and the project is closed.

<u>B-26</u>	Tamuning Hot Spots Sewer Line Rehabilitation and Replacement (Base Contract)	S16-003-EPA
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UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 2/1/2024	Mauryn Q. McDonald, P.E.	Gerald N. Gattoc	Wastewater
Sewer rehabilitation for lines at Winner Apartments, Segundo Leon Guerrero, and New Plaza Market behind GPO.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-06-ENG-2016	9/8/2016	10/2017	TG Engineers
Construction Management	RFP-04-ENG-2018	2/8/2019	12/2020	AmOrient Engineering
Construction	IFB-06-ENG-2018	1/10/2020	12/2020	Ian Corporation

PHASE	UNDING SOURCES	COST	% COMPLETE
Design	SRF Grant, M 96902611-5	\$663,629.00	90%
Construction Management	SRF Grant, M 96902617-2	\$386,521.80	100%
Construction	SRF Grant, M 96902617-2	\$1,183,786.08	100%

ACTIVITIES

All construction for the base contract has been completed and final invoices have been processed. A design contract change order will be drafted to identify an active funding source (USEPA grant) to cover construction support for the construction additives that were not included in construction contract. A CM change order will be drafted to close the CM contract.

B-27 Bayside Sewer Pump Station Rehabilitation S15-007-BND

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 2/1/2024	Mauryn Q. McDonald, P.E.	Rylma Nida A. Carino (CM)	Wastewater
The Bayside Sewer Pump station was operating with a single pump in a manhole, no backup power, and no dial-out or SCADA for real-time reporting of pump or power issues. Rehabilitation includes refurbishment of the wet well, two new pumps with soft starters, a new generator, dial-out capability, and fence repairs.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-10-ENG-2016	7/28/2016	12/2023	EMPSCO Engineering Consultants
Construction Management	Internal CM			
Construction	IFB-03-ENG-2020	6/11/2020	12/2023	Sumitomo-Mitsui Construction Co., Ltd.

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	WW 09-01	\$241,125.41	92.55%
Construction Management	N/A		
Construction	WW 09-01	\$931,516.74	100.00%

ACTIVITIES

<p>For Construction</p> <ul style="list-style-type: none"> The project completion on 04/06/2022 was extended to 05/19/2023 due to additional work order (CO#3). The commissioning of generator was on 01/04/2022. Testing and commissioning of the piping system was on 08/17/2022. Substantial Completion certificate issued on 10/25/2022. Punchlist completed on 6/2023. DPW approved the occupancy permit on 10/4/23. Final Change Order executed 12/5/2023 and final invoice paid 12/21/2023 Acceptability of work accepted and was signed. <p>For Design Services</p> <ul style="list-style-type: none"> On 10/31/2023, GWA submitted a notification letter to SHPO that the project will be closed within 30 days. A final Change Order (time extension) was executed on 12/26/2023 GWA will send a final letter to SHPO to inform them the final response to their comments on the Archaeological report was submitted on 11/16/2023 and this project is closed. The final invoice is processing.

B-28 Yigo Sewer Pump Station Flood Mitigation and Facility Rehabilitation **S18-001-BND**

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 2/6/2024	Mauryn Q. McDonald, P.E.	George J. Watson	Wastewater
Evaluate and design flood mitigation and rehab needs for Yigo SPS, and install/construct design per plans and specs.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-01-ENG-2018	07/31/2018	03/2024	AECOM
Construction Management	RFP-04-ENG-2019	07/20/2021	03/2024	Duenas, Camacho & Associates, Inc.
Construction	IFB-01-ENG-2021	04/26/2021	03/2024	IAN Corporation

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	Bond 2016 WW 09-01	\$247,252.63	97%
Construction Management	Bond 2016 WW 09-01	\$96,754.00	70%
Construction	Bond 2020 MP-WW-Pump-01	\$1,128,129.50	85%

ACTIVITIES

CO#1 negotiated time extension (479 days) w/ Contractor's special damages (\$8,360.00) due to delays (110 days). CO#2 for time extension approved (6/20/23).

CO#3 for work and time from Typhoon Mawar (\$14,753.48 and 30 days) signed by Legal (9/7/23) and pending Finance approval. CO#4 to include materials to repair High Level Alarm Panel, which is required for the SCADA. Awaiting the cost of replacing High Level Alarm Panel. SCADA programming will be scheduled when high level alarm panel parts are received (the subcontractor is based in Hawaii). CCU approved the contract cost increase for CO#3 and 4 (11/28/2023). CO#3 signed by GM and forwarded to Contractor (1/17/24).

Still working on costs for CO#4 and time frame/extension dependent on what CO#4 includes. Initial cost for CO#4 came in at \$272K (1/16/24) and discussed with CM (1/17/24) numbers and reasons for cost. Asked contractor to provide a detailed cost breakdown. Considering moving forward without completing additional work and moving work to a future contract.

Contractor remaining work: Punch list items, High Level Alarm Panel, float controls, and SCADA. Note, punch list electrical items will require contractor to replace fixtures that do not meet requirements. The High Level Alarm Panel parts or punch list item replacements could possibly delay final closeout if materials are not available.

B-32 **Dungca Beach Sewer Line Relocation** **S20-001-EPA**

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 2/1/2024	Mauryn Q. McDonald, P.E.	Rylma Nida A. Carino (PM)	Wastewater
<p>The existing 8-inch diameter Asbestos Cement Pipe (ACP) Sewer along Dungca Beach is among the oldest in GWA's wastewater collection system. GWA Operations conducted CCTV investigations on a limited number of existing sewer lines in the Dungca Beach area. CCTV records showed substantial deterioration in the ACP sewer line which may have reached the end of its service life. A new sewer line along the right of way will be installed and customers will be connected to the new line.</p>			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-01-ENG-2020	4/26/2021	2/2024	GHD
Construction Management (CM)				AECOM (ID/IQ)
Construction			2/2025	

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	USEPA Grant	\$633,625.75	90%
Construction Management			
Construction			

ACTIVITIES

The design services (including engineering support) original completion date of 6/27/2023 was extended to 2/16/2024 under Change Order #1, which also separates the project into Phase 1 & Phase II.

Phase I- Trankilo Street

- a) 90% submittal on hold, pending CM contract and task order approval to finalize the constructability review (final EJCDC 505 agreement template is under internal review).
- b) Signature of budget transfer of Task Order 1 on hold, waiting for the approved agreement and Task Order.
- c) GWA modeler continues to model the capacity of the existing Bayside SPS with flows from Agana Bay Condo.
- c) A meeting was held with the designer on 1/18/2024. An upcoming change order is anticipated for:
 - 1) Erosion control along the easement and 2) Time extension due to the delays.

Phase II Lagoon Drive

- a) 60% accomplished.
- b) GWA is pursuing purchase of an easement along Lagoon Drive, which is pending discussions with lot owners.
- c) GWA is pursuing a lot acquisitions for a new lift station. A Letter of Interest was sent to the Lot Owner and a response was not received. GWA Engineering prepared a letter to follow up with the lot owner this month.

B-33	Fujita Sewage Pump Station Redundant Force Main	S20-003-EPA
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UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 2/6/2024	Mauryn Q. McDonald, P.E.	George J. Watson	Wastewater CIP
Designer to identify redundant force main options for the Fujita SPS and provide design for selected option.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-03-ENG-2020	10/5/2022	12/2024	AECOM
Construction Management				
Construction				

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	USEPA Grant Nos. M 96902619 & M96902621	\$1,601,599.29	10%
Construction Management			
Construction			

ACTIVITIES

Designer’s force main (FM) assessment expert conducted corrosion assessment on exposed locations of FM (4/25/23) as part of the first step in assessing the existing FM; Draft assessment report submitted to GWA for review (9/15/23).

Designer working with Geotech to plan and complete 13 borings along FM route in preparation of new FM design. Archeological monitoring required for boring locations. Archeological Monitoring and Recovery Plan to be submitted to the State Historical Preservation Office by week of 2/12/24. Boring to be conducted once monitoring plan approved. Tentatively March 2024.

Expanded SOW to include Fujita SPS rehab work to Designer for review (3/27/23). Designer submitted cost proposal for expanded scope (11/9/23). The final scope and fee approved by CCU (11/28/23). CO#1 (expanded SOW) submitted by Designer (12/12/23) and executed on 1/2/2024. SPS assessment team to be on island for SPS assessment on 2/19 – 2/22/24.

B-34	Hagatna Main Sewage Pump Station Redundant Force Main	S20-002-EPA
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UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 2/6/2024	Mauryn Q. McDonald, P.E.	George J. Watson	Wastewater CIP
Designer to identify redundant force main options for the Hagatna Main SPS and provide design for selected option and pump station rehabilitation.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-02-ENG-2020	4/7/2021	12/2024	GHD
Construction Management				
Construction				

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	USEPA Grant No. M 96902619, M96902623-1	\$1,359,089.79	35%
Construction Management			
Construction			

ACTIVITIES

Initial design intention: single redundant force main (FM) design using directional drilling and subsequent assessment/rehabilitation of existing FM. 30% engineer of record (EOR) level 2 cost estimate was \$32M to \$35M, more than \$20M from previous estimates. The General Manager (GM) directed to pivot design to rehabilitate the existing FM, potentially using pipe bursting or lining to reduce costs. 60% design cost estimates for a single FM ranged from \$17.7 to 20.6M.

60% design received (6/19/23) and met with GM to discuss cost and potential alternatives (7/6/23). Met with Designer to discuss and direct pivot to look at rehabilitation methods of current FM (7/7/23) and met again (9/1/23) to further refine expectations. Met with Designer (10/3/23) to discuss revised pivot scope and fee, in addition to SPS scope and fee. Final revised scope and fee received (11/8/23).

GWA Engineering drafting letter to request utility easements through Government properties. GM signed letter to Port Authority (6/30/23).

Submitted expanded scope of work of Hagatna Main SPS rehabilitation work to Designer for cost proposal on 3/27/23 and negotiated costs. Final scope and fee for the FM design pivot and SPS assessment received (11/8/23); CCU approved scope and fee (11/28/23).

CO#1 (revised scope and fee) submitted by Designer (12/12/23), signed by Legal (12/27/23), approved by GM and forwarded to Designer (1/8/24). SPS assessment team on island on week of 2/5/24.

B-35	Hagatna Wastewater Treatment Plant Causeway and Facility Structural Analysis	S20-004-BND
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UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 2/6/2024	Mauryn Q. McDonald, P.E.	George J. Watson	Wastewater CIP
Analysis and evaluation of Hagatna WWTP causeway bridge and facility structural integrity.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-08-ENG-2021	4/2/2021	12/2024	Duenas, Camacho & Associates, Inc.
Construction Management				
Construction				

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	Bond 2020 MP-Gen-Misc-05	\$114,820.00	30%
Construction Management			
Construction			

ACTIVITIES
<ul style="list-style-type: none"> • DCA submitted subcontractor cost proposal for \$86K for structural analysis for mechanical, electrical, and architectural assessment (01/06/23); Change Order (CO) 1 signed by DCA and GWA Engineering, and routed for GM signature (3/14/23). • GM directed to exclude mechanical assessments; DCA resubmitted proposal w/out mechanical (4/26/23) for total cost of \$65.7K. • Updated CO1 sent to DCA for signature (4/27/23), and received revised CO back from DCA for processing (5/15/23); received comments from Legal (7/24/23), and signed by Legal (7/28/23); in processing with Finance as of 9/5/23. • Met with DCA on to discuss project path forward on causeway, CO work, and additional scope for to include potential assessment on clarifiers, and bypass mounting on causeway for Hagatna Main SPS. New scope and fee proposal received (2/5/24) at \$150K (not including the abovementioned 65.7K) and will review. • Meeting with DCA (Designer) and GHD (Hagatna force main designer) to discuss causeway and bypass force main design (2/7/24). <p>Considering options for causeway rehabilitation.</p>

B-36	Hagatna Wastewater Treatment Plant Interim Disinfection	S19-001-BND
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UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 2/1/2024	Mauryn Q. McDonald, P.E.		Wastewater CIP
<p>The project is a feasibility and pilot study for the use of an interim disinfection process including development of a proposed feasibility and pilot study work plan, wastewater characterization analysis and effluent quality analysis, dosing and concentration analysis, bench and pilot scale testing, chemical sourcing, transport and storage analysis, and development of detailed technical report documenting the findings and recommendations on the implementation of peracetic acid (PAA) interim disinfection.</p>			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-01-ENG-2019	7/25/2019	2/15/2021	Duenas, Camacho & Associates, Inc.

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	IFCIP	\$736,265.92	75%

ACTIVITIES

Chemical enhanced primary treatment (CEPT) optimization and PAA disinfection bench scale study was completed in 2019 and documented through a 7/12/2019 technical memo (TM). The TM identified repairs necessary to implement a full-scale PAA pilot project.

Contract amendment #1 was to include a life cycle analysis on PAA and UV disinfection options covering a 20-year life cycle cost, repair of flocculation tank mixers, coagulant manifold, influent flow meter, effluent isolation gate, digester, and clarifier. The repairs are needed for full-scale plant bench testing for a 1-week period.

Contract amendment #2 was to include parts for clarifier repairs, as proper clarifier operations were needed for the pilot project.

The full-scale plant bench testing was completed in 2021 and a meeting with GWA and DCA was held on 3/9/2022. GWA was to determine long-term plans for the HWWTP, which includes considerations for climate change impacts. A Water and Environmental Research Institute's 4/30/2022 "Impact of Climate Change on Guam Waterworks Authority Infrastructure" advisory paper projected a 1-foot sea level rise by the year 2050. The long-term plans for the HWWTP will be addressed under a study.

The technical memo for the interim disinfection project will be finalized and the project 1st quarter of 2024.

B-37 **Aplacho Drainage and Roadway Improvements**

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 2/1/2024	Maurn McDonald, P.E.	Rylma Carino	Wastewater
The Aplacho Drainage and Roadway Improvements project will provide subterranean drainage along the crossroad extend the drain to daylight and harden with concrete headwall. The roadway will be rehabilitated due to the seepage of water during the rainy season.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Conceptual Design	N/A	03/2022	08/2022	DPW
Construction Management	N/A			GWA/Internal CM
Construction	IFB -07-ENG-2023	TBD	TBD	GWA

PHASE	FUNDING SOURCES	COST	% COMPLETE
Conceptual Design			N/A
Construction Management			N/A
Construction	WW 11-03 2016 Bond and MP-WW-Pump-01	\$1,053,819.91	0%

ACTIVITIES

The project is a joint project between GWA and DPW. DPW will provide design services and GWA will be responsible for the construction and construction management of this project. Upon completion of the project, the drainage system will be turned over to DPW.

1. An invitation for Bid advertised on 9/13/23. Pre-bid meeting and site visit done on 9/26/2023.
2. RFI#1 received. The draft response was forwarded to DPW for their input on the provision of digital traffic control. DPW provided a response. Additional RFIs were received. Draft response to be sent to DPW for review.
3. Scope of work to include additional asphalt restoration
4. RFI submittal deadline extended to 11/3/2023.
5. Bid opening done on 11/20/2023. Two bidders submitted their bids.
6. The GWA Project Manager and Procurement performed a bid evaluation and recommended issuing a Notice of Intent to Award to the lowest and responsive bidder.
7. The Notice of Intent to Award was issued to A & R Pacific on January 2, 2024.
8. Received the performance and payment bonds, and reviewed insurance.
9. The procurement including the contract was forwarded to the AG's office for review and comments based on the legality and form. Waiting for response.
10. The CCU resolution was approved.
11. DPW/GWA MOA drafted and routed to DPW for approval on 1/19/2024. GWA Engineering to follow up with DPW.

B-38 Indefinite Delivery-Indefinite Quantity S22-002-BND
 Islandwide Sewer Collection/Transmission
 System Repair, Rehabilitation, and
 Replacement

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 2/7/2024	Mauryn Q. McDonald, P.E.	George J. Watson	Wastewater CIP
IDIQ to provide GWA with ability to design, manage, and address wastewater repairs, rehabilitation, and replacements within our sewer collection/transmission system.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Construction Management	RFP-06-ENG-2022	In Procurement	n/a	
Design/Build Construction				

PHASE	FUNDING SOURCES	COST	% COMPLETE
Construction Management	GWA Bonds, USEPA SRF Grants, SDC	In Procurement	
Design/Build Construction			

ACTIVITIES

- Completed selection of two A/E firms for PM/CM (AECOM and BC) on 11/10/22; completed negotiation with AECOM and BC on respective TO No. 1.
- Submitted AECOM signed contract agreement to Finance (Legal signed on 3/14/23) for approval, along with TO No. 1 (Legal signed 5/10/23) for approved; both currently processing in Finance.
- Submitted BC signed contract agreement to Legal (6/26/23) for approval, with TO No. 1 in review before sending to BC for signature.
- Both IDIQ Contract Agreements were pending approval of E-505 template to replace the current agreement (E-500). Draft E-505 templates were sent to A/E firms, comments were received and addressed, the latest draft is being reviewed by GWA.
- Working with A/E firms to update TO No. 1 proposal costs with 2024 fees. BC submitted updated fees (1/2/24); pending AECOM. Likely need CCU approval.

GWA Engineering producing ID/IQ RFP for Design-Build (DB) Contractor(s); looking to advertise for ID/IQ DB RFP before end of year, pending execution of ID/IQ PM/CM agreements and supporting task orders.

B-39	Casimiru Waterline Replacement	W20-003-BND
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REPORT	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 9/08/2023	Barbara Ann C. Cruz, P.E.	Ernesto L. Villarin	Engineering Support
<p>The work to be performed consists of replacing 2,560 linear feet of existing 6-inch asbestos cement pipe along Casimiru Street and Duenas Street with 6-inch PVC pipes. The scope includes installation of fire hydrants, reconnection of existing serve laterals from the old to new waterline, pressure testing and disinfection of new waterline, reconnection of existing PRV from old to new waterline, and asphalt pavement restoration.</p>			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design-Build (Construction)	IFB-07-ENG-2020	2/13/2021	5/30/2022	Giant Construction Inc./ WB Flores Engineers
Construction Management			6/30/2023	GWA

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design-Build (Construction)	Bond 2013 PW 09-03 Bond 2020 PW 09-03	\$644,480.00	100%
Construction Management	In-house		100%

ACTIVITIES	
06/15/2023	Received from Giant as-built drawings both cad file and pdf.
06/28/2023	Received from Giant Invoice No. 5 (Final) for \$35,074.00. Prepared final COP no. 5 and Memo to Acting AGME with information to support approval of final payment. Late submission of acceptable as-built drawings was considered to have little to no impact to the project and commissioning of the waterline replacements.
06/30/2023	Acting AGME signed and submitted the final COP no. 5 to Finance to process payment and project close-out. Construction Project Completed

B-40 Reifsnider Street Waterline

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 9/08/2023	Barbara Ann C. Cruz, P.E.	Ernesto L. Villarin	Engineering Support
The work to be performed includes installation of 760 feet of 2-inch PVC waterline along Reifsnider Street and 160 feet of 6-inch PVC waterline crossing Murray Street and connecting to existing 6-inch waterline along Saltan Street.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design-Build (Construction)			4/2023	GWA
Construction Management			4/2023	GWA

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design-Build (Construction)	Internally Funded CIP	\$45,799.56	100%
Construction Management			100%

ACTIVITIES

02/28/2023	Installation of 6-inch waterline crossing Murray Street was completed, including tie-in to existing 6-inch waterline at Saltan street. Remaining work are 2-inch waterline connection to new 6-inch waterline, pressure testing and disinfection of new waterline, installation of water meter for the complaining resident(s), and asphalt pavement restoration.
03/30/2023	The 2-inch waterline connection to 6-inch waterline and the remaining 2-inch waterline crossing the pavement to location of new water meter were completed. Pressure testing and disinfection of new waterline expected to be completed 4/15/2023.
04/03/2023	Permit section needs to notify Mr. Cruz to apply for water meter connection.
04/15/2023	Disinfection and testing of new waterlines completed.
05/10/2023	Restoration of road a.c. pavement at Reifsnider Street was completed. Restoration road a.c. pavement at Murray Street is still pending.
08/12/2023	Restoration of road a.c. pavement at Murray Street completed. In-house construction completed.

B-41 Temporary Booster Pump Station Consolacion Street, Asan WOP-01-2022

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 02/02/2024	Barbara Ann C. Cruz, P.E.	Ernesto L. Villarin	Engineering Support
This project intends to provide, in the interim, a temporary booster station that will supply adequate water pressure to customers located in the upper elevations of Consolacion Street, Asan. The ongoing CIP projects that will address this water pressure problem will take a couple of years to complete.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design-Build (Construction)			03/29/2024	GWA
Construction (Electrical)			9/30/2023	R&E Builders, LLC
Construction Management			12/31/2023	GWA

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design-Build (Construction)	Internally Funded CIP	\$38,771.89	85%
		24,950.00	5%
Construction (Electrical)		\$49,999.00	100%
Construction Management			

ACTIVITIES	
08/31/2023	Awaiting GPA to connect power and meter, and GEPA's approval of the test results to startup, test and commission the Asan booster pump station.
09/01/2023	DPW Inspector conducted a site inspection.
09/05/2023	DPW Building Official approved the electrical installation.
09/12/2023	GPA installed a meter and completed power connection to the booster pump station.
09/13/2023	GEPA approved the water quality test result as meeting the bacteriological standards.
09/15/2023	GWA startup and activated the booster pump station. GWA installed two pressure loggers to collect pressure data at the lowest and highest elevations on Consolacion Street.
09/20/2023	Pressure loggers removed. Based on data collected, customers at lower elevation were receiving high pressure (90 to 110 psi). Installation of pressure relief valves for these customers was recommended. Customers at the upper elevation of Consolacion Street were receiving pressure ranging from 42 to 65 psi. Low pressure is no longer an issue.
10/31/2023	The temporary booster pump has been in operation since its installation on 09/15/2023. The designed package-booster pump system is expected to arrive between last week of December 2023 and first week of January 2024. After arrival the temporary booster pump will be replaced with the designed package-booster pump system.
01/02/2024	Supplier inform GWA that the duplex booster pump system is ready to be shipped from

	the factory. However, he noticed the influent/effluent piping did not appear correct. Supplier will contact the manufacturer.
01/03/2024	Manufacturer made corrections to address the flow orientation issue. GWA Engineer reminded the Supplier to include a 26-gallon tank in the shipment. Supplier acknowledged and will contact the manufacturer to include the tank and dome light accessories. ETA is 4 to 6 weeks or not later than the week of February 19, 2024. Replacement of the temporary booster pump with the new packaged duplex pump system will be performed by GWA. The revised expected completion date is March 29, 2024.
01/12/2024	Supplier sent revised schedule, package booster pump will arrive at Supplier's warehouse on Febraury 3, 2024.

B-42	Groundwater Production Meter Replacement	W19-001-BND
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UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 02/02/2024	Barbara Ann C. Cruz, P.E.	Ernesto L. Villarin	Engineering Support
The project will replace the above-ground discharge piping and meters at 30 existing deep wells located in different parts of the island. An additional 15 deep wells will be added through an executed change order.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	PMO Facility Plan 2016	9/22/2017	10/2018	Brown and Caldwell
Construction Management			3/2023	GWA
Construction	IFB-05-ENG-2019	4/29/2020	3/2023	Giant Construction Inc.

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design			100%
Construction Management			100%
Construction	Bond 2013 PW 05-07	\$ 142,053.65	100%
	Bond 2016 PW 05-07	\$1,250,000.00	100%
	Bond 2020 MP-PW-MISC-02	\$ 641,896.46	100%
	SDC	\$ 151,207.27	100%

ACTIVITIES	
06/30/2023	Activities leading up to June 30, 2023 are briefly described in prior monthly reports.
07/04/2023	Contractor submitted an invoice to pay the remaining balance of the contract amount less retainage of 5%. Contractor agreed for GWA to retain 5% to recover any cost incurred in event the Contractor failed to correct issue(s). No less than 1 meter and 7 meter electronic boards failed. Contractor had replaced 1 meter and 3 meter electronic boards. Remaining 4 electronic board replacements are pending.
08/31/2023	Contractor/Supplier inform GWA that the remaining 4 electronic transmitters are scheduled to leave USA factory on 9/13/23, shipping is estimated between two to three weeks. Project remains open to address issues found on the meters installed.
09/21/2023	Electronic transmitter shipment arrived. Installer is not available until 10/05/23. Tentative installation schedule is 10/09/23.
10/12/2023	The led screen and electronic transmitter in well F-06 were replaced and issues fixed. The led screens for wells A-08 and A-15 were replaced and issues fixed. Meters in wells M-05 and M-17A are indicating low battery level.
10/19/2023	Giant ordered replacement batteries and waiting feedback from Endress Hauser on estimate delivery date.
12/30/2023	Ordered batteries has not arrived as scheduled. Contractor following-up.

01/31/2024 Contractor advised that ordered batteries arriving 02/03/2024.

B-43 Ugum Water Treatment Plant Rehabilitation W22-10-BND

UPDATE	SUPERVISOR	PROJECT ENGINEERS	SECTION
As of 01/05/2024	Barbara Ann C. Cruz, P.E.	Ernesto L. Villarín	Engineering Support
The project involves the rehabilitation or upgrades to the raw water pumps at the river intake, settling basins, membranes, pipe gallery, generator room, backwash, neutralization tank, sludge tank, thickening system, operations and chemical building, and administration building to improve plant capacity, treatment performance, and provide reliable operation of the water treatment plant.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Assessment of WTP	Task Order No. 3 IDIQ PM/CM	7/6/2021	4/2022	Duenas, Camacho and Associates, Inc.
Construction Management	Task Order No. 3 IDIQ PM/CM			Duenas, Camacho and Associates, Inc.
Construction	IFB-05-ENG-2023			

PHASE	FUNDING SOURCES	COST	% COMPLETE
Assessment of WTP	MP-PW-SWTP-03	\$173,490.00	100%
Construction Management	MP-PW-SWTP-03	\$ 89,114.00	0%
Construction	2010/2013/2020 PW 09-01 2016 WW 11-03 2020 MP-PW-SWTP-02 2020 MP-PW-SWTP-03 EPA Grant M96902621	766,129.23 1,798,477.47 1,174,000.00 887,396.00 3,847,050.00	0%

ACTIVITIES

09/26/2023	Activities leading up to Sept 26, 2023 are briefly described in prior monthly reports.
09/27/2023	GWA responded to Sumitomo’s submittals stating that the performance and payment bonds are acceptable but the insurance submittal was not acceptable. Some Insurance coverages did not meet GWA insurance requirements. Upon receipt, Sumitomo requested a meeting to discuss the insurance issues.
09/08/2023	PUC approved GWA petition to award the contract.
09/29/2023	Meeting was scheduled on 10/05/2023 at 1:00 p.m. at GWA Engineering Division.
10/12/2023	Conducted site visit of Ugum River Intake with DCA and discussed additional work including river dredging/intake cleaning and access road paving.
10/30/2023	Meeting with DCA and discussed additional work. DCA was advised to submit their recommendations including fee proposal for GWA evaluation.
10/31/2023	Awaiting on Sumitomo (lowest bidder) to resubmit insurance documents to meet GWA insurance requirements.

11/28/2023	Sumitomo has complied with insurance requirements.
11/30/2023	Request to award memo was sent to GM for signature.
12/05/2023	GM signed the request to award memo.
12/12/2023	Sumitomo Construction signed the contract.
12/20/2023	DCA submitted fee proposal re-paving of access to river shoulder. Fee proposal under review.
12/30/2023	Contract and supporting documents are being prepared for transmittal to Legal for review.
01/31/2024	Contract was fully executed. Notification of award to be posted to GWA website before issuance of NTP.

B-44	Design-Build of Pago Bay 12-inch Waterline Replacement	12303
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UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 01/05/2024	Barbara Ann C. Cruz, P.E.	Ernesto L. Villarin	Engineering Support
<p>The project will complete the conceptual design prepared by GWA Engineering, structural integrity assessment of the bridge wall that will support the replacement waterline, installation of 12-inch ductile iron waterline including pipe supports, pressure testing and disinfection of new waterline, reconnection to existing waterlines, asphalt pavement restoration, disposal of existing damaged 12-inch waterline, and condition assessment of existing 16-inch waterline hanging under the Bridge.</p>			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design-Build (Construction)				
Construction Management				

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design-Build (Construction)	Bond 2010 PW 11-01	\$25,114.00	
	Bond 2010 PW 09-06	\$62,498.00	
	Bond 2020 MP-PW-Pipe-10	\$200,000.00	
	Bond 2020 MP-PW-Pipe-11	\$200,000.00	
	Bond 2020 MP-PW-Pipe-12	\$12,388.00	
Construction Management			

ACTIVITIES	
02/28/2023	Engineering sent a follow-up email to Finance inquiring the status of budget transfer request.
03/15/2023	Received message from Finance that budget certification is under review.
04/06/2023	Funding certification was approved and signed by GM.
04/17/2023	Updated Front End Documents was transmitted to Josephine for transmittal to Legal.
6/30/2023	Updating Front End Documents based on feedback from Legal Office.
08/02/2023	Review and edits of the technical specifications, conceptual plans and front end documents are work in progress.
08/28/2023	Routed the project Front End Documents to Engineering/Planning Section for review.
09/29/2023	Engineering and Legal discussed the front-end documents for a Design-Build solicitation. The documents are with Legal for review.
10/29/2023	Review and apply the EJCDC D-520 Owner-Design Builder Agreement for this design-build project is in progress.
12/30/2023	Review of EJCDC D-520 Owner-Design Builder Agreement still pending.

B-45 Current Balancing Unit for Deep Well A-09

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 01/05/2024	Barbara Ann C. Cruz, P.E.	William F. Esteves	Engineering Support
<p>The project is a pilot project to install and evaluate the effectiveness of a Current Balancing Unit (CBU) for a GWA deep well. Current imbalances on the power supply to a 3-phase electric motor can cause the motor to overheat and shorten its life expectancy. The wells are operated by 3-phase electric motors. In its product literature, the CBU will monitor and automatically adjust the 3-phase currents to minimize the current imbalance to 3% or less. The CBU is also expected to accommodate wide fluctuations of voltages, so that even if the voltages from the utility are shifting up or down, the current stays balanced. There are other factors that can cause motor overheating but current imbalance is a condition that can happen frequently.</p>			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Conceptual Design				GWA
Construction Management				GWA
Design-Build (Construction)				

PHASE	FUNDING SOURCES	COST	% COMPLETE
Conceptual Design			75%
Construction Management			0%
Design-Build (Construction)		\$200,000.00 (estimate)	0%

ACTIVITIES

08/02/2023	This project is on hold.
08/02/2023	Water Production Manager submitted a Memo to request for funds to purchase and install a Current Balancer Unit (CBU) at Well Y-15 in the amount of \$154,048.21. Estimated cost includes electrical and concrete materials, crane rental and CBU installation/commissioning services. Y-15 has an estimated expenditure cost of \$394,677.55 from 2008 to 2023. The purchase and installation of current balancer unit will be expected to reduce motor failures and well pull outs.
08/10/2023	GM requested AGME to prepare and submit a technical memo to document the power issues and reference manufacturer information on power imbalances to be used to discuss with GPA on proposed resolution and possible reimbursement of pump/motor replacement costs.
11/03/2023	AGME submitted the technical memo that covered a comprehensive analysis of the power issues at Y-15.
11/22/2023	AGME signed and forwarded the Memo from Water Production Manager to CFO and GM recommending approval to use bond funds. CFO acknowledged to route the Memo to budget and then to the GM.
01/05/2024	GWA Operations will install and Engineering will perform the study. The revised project

site is Well Y-15. Engineering will meet and coordinate with Operations.

B-46 Deep Well Power Line Conditioner Pilot Project

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 11/09/2023	Barbara Ann C. Cruz, P.E.	William F. Esteves	Engineering Support
The project is a pilot project to install and evaluate the effectiveness of a power line conditioner for providing “clean” incoming power for a GWA deep well. Evaluation includes transient and surge protection and suppression, under/over voltage correction and protection, phase imbalance correction and protection, and capital and operation costs/savings.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Conceptual Design				GWA
Construction Management				GWA
Design-Build (Construction)				

PHASE	FUNDING SOURCES	COST	% COMPLETE
Conceptual Design			75%
Construction Management			0%
Design-Build (Construction)	EE -9-02, EE 09-05, MP-PW-WELL-06	\$200,000.00 (estimated)	0%

ACTIVITIES

08/02/2023	This project is on hold. Changing direction to perform a Sustainable Green Energy pilot project for deep wells.
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B-47 GWA Upper Tumon Warehouse Renovation 42102

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 01/05/2024	Barbara Ann C. Cruz, P.E.	Ernesto L. Villarin	Engineering Support
The basic bid scope of work involves the design and construction of the replacement of existing warehouse roofing, sidings, exterior metal stairs, metal door, roll-up doors, and installation of ventilation system. The additive bid scope of work involves the demolition and replacement of existing office walls, ceilings, doors and windows, floor paving, painting, and electrical works.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Construction	IFB-03-ENG-2023			
Construction Management				GWA

PHASE	FUNDING SOURCES	COST	% COMPLETE
Construction	Internally Funded CIP		
Construction Management			

ACTIVITIES	
06/30/2023	Activities leading up to June 2023 are briefly described in prior monthly reports.
07/11/2023	Project is broken down into 2 phases: Phases I and II. Phase I is the scope of work in the Emergency Procurement. Scope of work, plans, cost estimate and technical specifications for Phase I were completed. Phase II is intended to complete the remaining renovation work. Phase II scope of work is the original scope plus mitigation work to correct damages due to Typhoon Mawar less Phase I.
08/01/2023	Phase I Emergency Procurement was issued by Procurement Division. Deadline to receive proposals was August 1, 2023. Procurement received two proposals from contractors, one was \$793,237.46 and the other was \$1,282,490.47. The bid proposals were evaluated.
08/30/2023	Supply Management Administrator advised that Phase I Emergency Procurement may not be able to move forward. In a statute of the procurement law, emergency procurement and construction must be completed within 90-days after the Governor signs an EO. Engineering sent a request to Legal Counsel for clarification.
09/08/2023	Per AGME this project and the Customer Services Center and Information Technology Renovations Upper Tumon project (CSC & IT Reno Upper Tumon) will be combined as one project. Larger projects will likely get more competitive price bids.
10/20/2023	GWA submitted a Notice of Interest (NOI) to apply for grant funding in the amount of \$5,850,000 under the Hazard Mitigation Grant Program (HMGP). The grant project scope is to harden and replace the existing steel framed warehouse to a pre-cast concrete warehouse. If FEMA determines that the project qualifies for grant, GWA will submit a completed full grant application needs by December 15, 2023.
11/28/2023	Draft Project Narrative for Hazard Mitigation Grant Program was sent to Grant Section.
12/12/2023	Representatives from Guam OHS and FEMA met with GWA Grants and Engineers and discussed the HMGP process. GWA was informed that if we applied and received fund

from Public Assistance Program Mitigation for the repair of typhoon damage, GWA will not be entitled for HMGP.

01/19/2024 Meeting with GM, AGME, AGMO, Taling, Barbara, and Ernie to discuss Design-Build of GWA Upper Tumon Campus Improvements. Design-Build of GWA Upper Tumon Campus Improvements will be comprised of Phase I and Phase II. Phase I includes Upper Tumon Warehouse Rehabilitation and Meter Testing Facility Repair while Phase II will involve Customer Service Center Renovation and Laboratory Equipment Repair.

B-49 Rojas Harmon Stormwater Drainage 42306

UPDATE	SUPERVISOR	PROJECT ENGINEER	SECTION
As of 02/08/2023	Prudencio F. Aguon	Vincent Edward T. Laguana	Planning
For design of stormwater infrastructure in Harmon Rojas Street to alleviate flooding issues. Mutually beneficial project for GWA and DPW.			

PHASE	PROCUREMENT NO.	CONTRACT DATE	EXPECTED COMPLETION	FIRM
Design	RFP-07-ENG-2023	pending	n/a	n/a

PHASE	FUNDING SOURCES	COST	% COMPLETE
Design	SO-98T45501-01	\$1,000,000.00	0%

ACTIVITIES

Advertised 09/22/2023. Due date is 10/22/2023.
 Bid opening was on 10/31/2023. Proposals were evaluated and scored.
 GHD was selected proposer and GWA is currently negotiating price.
 MOU was signed by DPW director and coordination with DPW is forth coming.
 On-going negotiation of scope of work and fee pending.



Financial Statement Overview January 2024

Key Financial Indicators

Indicator	Target	November 2023	December 2023	January 2024
DSC YTD				
• Per Section 6.12 of Indenture	1.25	1.54	1.57	1.59
• Per PUC / CCU	1.30	1.54	1.57	1.59
Days – Cash on Hand	120 days	267 days	271 days	278 days
Collection Ratio**				
• Month to Date	99%	75%	88%	98%
• Year to Date	99%	81%	83%	87%
Days Billed	30 days	31 days	29 days	30 days
Account Receivable Days	30 days	37 days	39 days	39 days
Account Payable Days	45 days	40 days	40 days	38 days
Employee Count	400 FTE	359 FTE	359 FTE	357 FTE
Water Demand				
• Month to Date***	451,933	425,213	431,731	424,459
• Year to Date***	1,807,733	831,499	1,263,230	1,687,688
Wastewater Flow				
• Month to Date	317,500	303,650	316,817	309,902
• Year to Date	1,270,000	609,437	926,255	1,236,157
Operations & Maintenance Expense*	\$6,567,186	\$5,701,402	\$5,653,023	\$5,552,981
Water Customers	43,978	43,565	43,539	43,525
Wastewater Customers	30,781	30,946	31,083	30,879

*Excludes Depreciation

** Includes SDC Revenue and Collection

***Includes Nov MTD & YTD revised amounts

Water and Wastewater Consumption

Water consumption is 8% less and wastewater flows are 1% less for the month of January compared to last year. Increases in Hotel, Agricultural, and Federal Government demand was not sufficient to offset decreases in other customer classes. Wastewater flows Increases in the Federal Government and Hotels largely offset decreases in other customer classes. Note that billing days in January were 2 days less than last year, 30 days compared to 32 days.

Year-to-date water consumption as of January 2024 was 3% below prior year and wastewater flows were 2% above prior year. Decreases in water consumption for the Government of Guam and Residential customer classes were the main reasons for the decrease in water consumption. Increases in wastewater flows from the Federal Government and Hotels were the reasons for the increase in overall wastewater flows. Note that many of the public schools remained closed during the initial part of the school year as they worked with Public Health on required inspections; GWA is also looking into reductions of GPA water use.



Year-to-date average daily water consumption (ADC) as of January 2024 of 14,064 kgals is 3% less than the prior year's 14,431 kgals. Decreases in the Government of Guam and residential customer classes largely drove the reduction in ADC. Year-to-date billing days at 120 days were the same as the prior year.

Balance Sheet (Schedule A)

- Total Assets & Deferred Outflows of Resources of \$1.220B in September 2023 increased by \$771.2K or less than 1% to \$1.219B in January 2024. Current Assets increased by \$6.2M primarily due to increases in internally restricted cash and accounts receivable. Property, Plant and Equipment decreased by \$3.9M due to increases in depreciation. Other Noncurrent Assets decreased by \$2.4M.
- Liabilities & Deferred Inflow of Resources of \$886.3M in September 2023 decreased by \$8.1M or 1% to \$878.1M in January 2024 primarily due to decreases in contractors payable and interest payable. Bond interest is paid in January and July of every year.
- Accounts Receivable days in January 2024 and December 2023 were 39 days. Accounts Payable days were 2 days less at 38 days in January 2024 compared to 40 days in December 2023. Schedule I presents Accounts Receivable Aging by Customer Class and Schedule H contains a breakdown of Government Receivables. Schedule J reports Accounts Payable Aging.

Statement of Operations and Retained Earnings (Schedules B-E)

- Total Operating Revenues for January 2024 of \$10.5M is \$290.0K or 3% less than the budget of \$10.8M. January 2024 Total Operating Revenues are 13% or \$1.3M more than January 2023's \$9.3M. Note there was a rate increase of 16.7% effective October 2023.
- Year-to-date Operating Revenues as of January 2024 of \$42.9M were \$390.5K less than budget and \$6.6M or 18% more than Year-to-date Operating Revenues as of January 2023 of \$36.3M.
- Below are the percentages of operating revenues (water and wastewater) contributed by GWA's customer classes for FY2024 and FY2023 as well as the revenue totals:

Customer Class	FY2024		FY2023	
o Residential	\$17,989,937	42.82%	\$15,748,680	44.23%
o Commercial	8,934,602	21.27%	8,110,187	22.78%
o Hotel	7,261,873	17.28%	5,502,633	15.45%
o Government of Guam	4,788,211	11.40%	4,656,459	13.08%
o Federal Government	2,858,486	6.80%	1,444,934	4.06%
o Agriculture, Golf Course, Irrigation	180,183	0.43%	144,282	0.41%
TOTALS	\$42,013,292	100%	\$35,607,174	100.00%

- Total Operating Expenses for January 2024 of \$7.95M were \$935.0K or 11% less than budget of \$8.9M. January 2024 Total Operating Expenses were 11% or \$1.0M less than January 2023's \$8.98M.
- Year-to-date Operating Expenses as of January 2024 of \$32.1M were 10% or \$3.5M less than the budget of \$35.6M and 8% or \$2.8M less than January 2023's \$34.9M. The decrease year over year was mainly due to the decrease in utilities.



- Earnings from Operations for January 2024 of \$2.6M were 33% or \$645.0K more than the budget of \$1.9M and \$2.3M more than January 2023's \$310.5K. Change in Net Assets for January 2024 of \$2.8M was 51% or \$931.8K more than the \$1.8M budget and \$2.4M more than January 2023's \$356.3K. The increase in the Change in Net Assets year over year was mostly due to the increase in Earnings from Operations, Interest Income, and Federal Grants.
- Year-to-date Earnings from Operations as of January 2024 of \$10.8M is 40% or \$3.1M more than the budget of \$7.8M and \$9.4M more than prior year's \$1.4M. Year-to-date Change in Net Assets as of January 2024 of \$7.35M is \$13.9K or less than 1% less than budget of \$7.36M and \$1.6M or 29% more than prior year's \$5.7M
- No Rate Stabilization Funds were used in January 2024. There is a balance of \$950K in the RSF at the end of January 2023 due to a transfer of settlement monies.

Cash Flow (Schedule F)

- FY2024 cash flows from operating activities were \$14.3M, cash used in capital and financing activities was \$19.96M, and cash from investing activities was \$2.5M resulting in a decrease in cash of \$3.2M. Days Cash on Hand for January 2024 was calculated at 278 days compared to December 2023's 271 days. Schedule G contains a schedule of restricted and unrestricted cash and investments.

Customer Payments

While only 7% of payments are made in cash, more than a third of payments continue to be made in person. The Upper Tumon drive through continues to remain open.

On April 28, 2020, CCU Resolution 24-FY2020 granted the lifting of credit card limits on payments for non-residential accounts. In FY2024, approximately 53% of payments were made with credit cards. Below is a summary of non-residential credit card payments and related fees.

Month	Customer Count	Amount Paid	Fees	% Of Fees to Payments
May – September 2020	140	\$241,335	\$4,952	2.05%
October 2020–September 2021	526	\$1,119,286	\$22,505	2.01%
October 2021– September 2022	738	\$3,076,971	\$61,588	2.00%
October 2022 -September 2023	783	\$3,420,468	\$66,158	1.93%
October – December 2023	192	\$1,035,322	\$20,816	2.01%
January 2024	80	\$323,378	\$6,502	2.01%

The recent merchant services bids are currently undergoing evaluation.

The Upper Tumon office is open for payments on Saturdays. For the four Saturdays in January, 526 payments totaling \$127,367 were made towards GWA billings and 720 payments totaling \$173,352 were made for GPA.

For the month of January, Finance posted \$82,915 in utility payments from the Department of Administration (DOA) for eligible renters as part of the Guam Emergency Rental Assistance Program (GERAP). There were



\$4,515 in payments received for eligible homeowners as part of the Guam Homeowners Assistance Fund (GHAFF).

Guam Solid Waste (GSW) Customer Payments

GPWA began to accept GSW payments on June 6, 2022. For the month of January 2024, GWA accepted \$69,607 GSW payments at the Upper Tumon Office. GWA will bill \$1,194 to GSW for processing fees.

CIP Update

Below is a table providing a summary of the various sources of funding available for GWA CIPs. The expenditures are life to date. Note that Department of Interior Grants also include funding for training and the USEPA balances include a grant that expired in September 2023..

Funding Source	Balance net of CIF Transfer	Expenditures as of 1/31/2024	Outstanding Encumbrances	Funding Request	Total Expenditures, Encumbrances, & Funding Requests	Unobligated Project Costs 1/31/2024	% Unobligated
B2016	\$ 142,364,134	\$ 117,987,338	\$ 19,300,167	\$ 929,212	\$ 138,216,717	\$ 4,147,417	2.91%
B2017	\$ 87,854,347	\$ 84,181,686	\$ 561,736	\$ 177,272	\$ 84,920,694	\$ 2,933,654	3.34%
B2020A	\$ 130,389,175	\$ 18,521,760	\$ 69,106,319	\$ 4,225,132	\$ 91,853,210	\$ 38,535,964	29.55%
B2020B	\$ 140,435,788	\$ 137,223,946	\$ 1,471,969	\$ 1,468,808	\$ 140,164,724	\$ 271,065	0.19%
Construction Fund	\$ 4,789,102	\$ -	\$ 1,798,477	\$ -	\$ 1,798,477	\$ 2,990,625	62.45%
SDC	\$ 17,564,105	\$ 12,185,510	\$ 260,303	\$ 1,094,000	\$ 13,539,814	\$ 4,024,292	22.91%
DOI	\$ 2,133,783	\$ 102,921	\$ 25,000		\$ 127,921	\$ 2,005,863	94.00%
USEPA	\$ 120,828,094	\$ 33,102,377	\$ 10,351,714		\$ 43,454,090	\$ 77,374,004	64.04%
ARPA	\$ 8,637,400	\$ 478,035	\$ 686,287		\$ 1,164,322	\$ 7,473,078	86.52%
IFCIP	\$ 22,089,895	\$ 13,497,777	\$ 1,471,382	\$ 7,046,978	\$ 22,016,138	\$ 73,757	0.33%
Totals	\$ 677,085,825	\$ 417,281,349	\$ 105,033,355	\$ 14,941,403	\$ 537,256,107	\$ 139,829,718	20.65%

FY2025-FY2029 Financial Plan

The Rate Payers Bill of Rights (RPBR) requires a 3-month and 1-month notice prior to the filing of the plan with the PUC. The update of the master plan will help to build the 5-year CIP which will be an integral part of the financial plan. The PUC in December agreed to GWA’s proposed timeline to ensure compliance with the RPBR while facilitating a timely review and approval of the financial plan.

The FY2025-FY2029 Financial and Rate Plan is being presented at this month’s meeting for approval before it is circulated for public comment. A copy of the CCU approved plan will be provided to the PUC but will not be formally filed until the public notice period per the RPBR has been met. GWA had a discussion with the PUC consultants this month to go over the proposed plan and hope to continue discussions to facilitate a timely review and rate order.

Refinancing Update

In the PUC December meeting, the PUC approved the GWA Bond Refunding and Tender presented for their consideration. The tender invitation was published on February 14, 2024, and pricing for the refunding is scheduled for February 29th. A copy of the Preliminary Official Statement was circulated to the CCU. After action is taken by the CCU at the February 27, 2024 meeting, the POS will be updated with a summary of the FY2025-FY2029 Financial Plan and the FY2025-FY2029 CIP plan. As the 2024 Partial Consent Decree (CD) was filed in District Court at the end of January, a summary of the CD was included in the POS,

GUAM WATERWORKS AUTHORITY
January 31, 2024
FINANCIAL AND RELATED REPORTS
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GUAM WATERWORKS AUTHORITY
Balance Sheet
January 31, 2024

SCHEDULE A

ASSETS AND DEFERRED OUTFLOWS of RESOURCES	Unaudited January 31, 2024	Unaudited September 30, 2023	Increase (Decrease)
Current Assets			
Cash			
Unrestricted (Schedule G)	47,129,263	50,324,888	(3,195,624)
Restricted Funds (Schedule G)	37,701,990	32,707,733	4,994,257
Accounts Receivable Trade, Net of Allowance for Doubtful Receivables of \$9,582,684 at Dec 31, 2023 and \$9,365,376 at Sep 30, 2023	15,012,056	11,484,716	3,527,340
Federal Receivable	1,326,772	2,191,346	(864,574)
Other Receivable	6,044,537	4,831,548	1,212,990
Prepaid Expenses	1,807,575	1,206,948	600,627
Materials & Supplies Inventory, Net of Allowance for Obsolescence of \$122,856 at Dec 31, 2023 and \$122,856 at Sep 30, 2023	4,973,091	5,096,658	(123,566)
Total Current Assets	113,995,285	107,843,836	6,151,449
Property, Plant and Equipment			
Utility plant in service			
Water system	445,396,874	444,848,078	548,796
Wastewater system	680,614,327	679,249,470	1,364,857
Non-utility property	34,167,148	33,683,228	483,920
Total property	1,160,178,349	1,157,780,776	2,397,573
Less: Accumulated Depreciation	(434,850,920)	(425,426,791)	(9,424,129)
Land	5,287,305	5,287,305	-
Construction Work in Progress	77,305,917	74,149,217	3,156,699
Property, Plant and Equipment, net	807,920,650	811,790,507	(3,869,858)
Lease and subscription IT assets	1,112,482	1,112,482	-
Noncurrent assets			
Restricted cash (Schedule G)	148,192,823	150,366,788	(2,173,964)
Investments (Schedule G)	70,035,974	70,239,665	(203,691)
Total other noncurrent assets and deferred charges	218,228,797	220,606,453	(2,377,656)
Total Assets	1,141,257,214	1,141,353,278	(96,064)
Deferred outflows of resources			
Regulatory assets	2,858,947	2,858,947	-
Debt defeasance due to bond refunding	26,509,282	27,184,464	(675,182)
Deferred outflows from pension	7,405,025	7,405,025	-
Deferred outflows from OPEB	41,247,962	41,247,962	-
Total Assets and Deferred Outflows of Resources	1,219,278,430	1,220,049,676	(771,246)
LIABILITIES, DEFERRED INFLOWS of RESOURCES AND NET ASSETS			
Current Liabilities			
Current maturities of long-term debt			
Series 2013 Revenue Bond	3,315,000	3,315,000	-
Series 2014 Refunding Bond	4,205,000	4,205,000	-
Series 2016 Revenue Bond	875,000	875,000	-
Series 2017 Refunding Bond	2,365,000	2,365,000	-
Lease and subscription IT liabilities	375,103	375,103	-
Accounts Payable -Trade	3,605,059	4,329,683	(724,624)
Accrued and Other Liabilities	15,032,503	14,216,960	815,542
Interest Payable	2,356,839	7,070,516	(4,713,678)
Accrued Payroll and Employee Benefits	1,199,481	1,334,022	(134,541)
Current portion of employee annual leave	729,390	729,390	-
Contractors' Payable	5,804,144	8,565,009	(2,760,866)
Customer and Other Deposits	2,294,599	2,268,968	25,632
Total Current Liabilities	42,157,118	49,649,651	(7,492,534)
Long Term Debt, less current maturities			
Series 2013 Revenue Bond	15,050,000	15,050,000	-
Series 2014 Refunding Bond	55,845,000	55,845,000	-
Series 2016 Revenue Bond	133,265,000	133,265,000	-
Series 2017 Refunding Bond	98,565,000	98,565,000	-
Series 2020A Revenue Bond	134,000,000	134,000,000	-
Series 2020B Refunding Bond	166,075,000	166,075,000	-
Unamortized Bond Premium/Discount	36,662,014	37,287,410	(625,396)
Lease and subscription IT liabilities	192,245	192,245	-
Net pension liability	46,038,335	46,038,335	-
Net OPEB obligation	116,272,057	116,272,057	-
Employee Annual Leave, Less Current Portion	913,289	913,289	-
Employee Sick Leave	1,429,998	1,429,998	-
Total Liabilities	846,465,056	854,582,986	(8,117,930)
Deferred inflows of resources:			
Contribution in Aid of Construction	646,937	646,937	-
Deferred inflows from pension	5,176,746	5,176,746	-
Deferred inflows from OPEB	25,852,937	25,852,937	-
Total Liabilities and Deferred Inflows of Resources	878,141,676	886,259,606	(8,117,930)
Net Assets	341,136,754	333,790,070	7,346,684
Total Liabilities, Deferred Inflows of Resources and Net Assets	1,219,278,430	1,220,049,676	(771,246)

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings
Comparative Budget vs. Actual for the period ending January 31, 2024

SCHEDULE B

	Month to Date		Variance Favorable / (Unfavorable)
	Actual (Unaudited) January-24	Budget January-24	
OPERATING REVENUES			
Water Revenues	6,524,009	6,706,635	(182,626)
Wastewater Revenues	3,607,906	3,652,565	(44,659)
Legislative Surcharge	330,892	327,945	2,947
Other Revenues	42,325	39,525	2,800
System Development Charge	33,521	102,000	(68,479)
Total Operating Revenues	10,538,652	10,828,670	(290,017)
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	488,780	491,667	2,887
Power Purchases	1,733,412	1,935,131	201,719
Total Utility Costs	<u>2,222,192</u>	<u>2,426,797</u>	<u>204,606</u>
Salaries and Wages	1,647,590	1,825,560	177,971
Pension and Benefits	691,505	649,877	(41,628)
Total Salaries and Benefits	<u>2,339,095</u>	<u>2,475,437</u>	<u>136,342</u>
Capitalized Labor and Benefits	(419,381)	(346,595)	72,786
Net Salaries and Benefits	<u>1,919,714</u>	<u>2,128,842</u>	<u>209,128</u>
Administrative and General Expenses			
Sludge removal	91,280	27,993	(63,287)
Chemicals	178,815	159,944	(18,870)
Materials & Supplies	87,136	207,083	119,947
Transportation	43,892	64,580	20,688
Communications	9,172	13,268	4,096
Claims	-	14,917	14,917
Insurance	148,838	161,333	12,496
Training & Travel	2,644	16,763	14,119
Advertising	7,668	11,199	3,531
Miscellaneous	127,005	111,992	(15,013)
Regulatory Expense	17,354	18,250	896
Bad Debts Provision	(16,898)	188,520	205,418
Total Administrative and General Expense	<u>696,904</u>	<u>995,841</u>	<u>298,937</u>
Depreciation Expense	2,399,885	2,401,423	1,538
Contractual Expense			
Audit & Computer Maintenance	117,146	165,771	48,625
Building rental	49,985	50,264	279
Equipment rental	41,187	46,774	5,587
Legal	4,994	125,000	120,006
Laboratory	38,846	43,829	4,984
Other	78,013	190,403	112,390
Total Contractual Expense	<u>330,171</u>	<u>622,041</u>	<u>291,871</u>
Retiree Supp. Annuities and health care costs	325,543	252,159	(73,384)
Contribution to Government of Guam	58,458	60,809	2,350
Total Retiree Benefits	<u>384,002</u>	<u>312,968</u>	<u>(71,033)</u>
Total Operating Expenses	7,952,866	8,887,913	935,047
Earnings (Loss) from Operations	2,585,786	1,940,757	645,030
Interest Income - 2010/13/14/16/17/20 Series Bond	1,402,756	647,004	755,752
Interest Income - Other Funds	200,191	22,917	177,274
Interest Income - SDC	80	873	(793)
Interest Expense - 2010/13/14/16/17/20 Series Bond	(2,356,839)	(2,356,839)	-
Contributions from Local Government	-	-	-
Loss on Asset Disposal	-	(56,499)	56,499
Amortization of Discount, Premium and Issuance Costs	156,349	124,228	32,121
Defeasance due to bond refunding	(168,795)	(170,449)	1,654
Prior Year Adjustment	(7,852)	(7,229)	(623)
Total non-operating revenues (expenses)	<u>(774,111)</u>	<u>(1,795,994)</u>	<u>1,021,884</u>
Net Income (Loss) before capital contributions	1,811,675	144,762	1,666,913
Capital Contributions			
Grants from US Government	960,304	1,686,437	(726,133)
Grants from GovGuam & Others	-	8,937	(8,937)
Total Capital Contributions	<u>960,304</u>	<u>1,695,374</u>	<u>(735,070)</u>
Change in Net Assets	2,771,979	1,840,136	931,843
Debt Service Calculation			
Earnings From Operations	2,585,786	1,940,757	
System Development Charge	(33,521)	(102,000)	
Retiree COLA	58,458	60,809	
Interest/Investment Income	200,191	22,917	
Depreciation	2,399,885	2,401,423	
Plus withdrawals (deposits) to Rate Stabilization Fund	-	79,167	
ARPA Grant	-	-	
Balance Available for Debt Service per Section 6.12	5,210,799	4,403,072	
Debt Service			
Principal	896,667	896,667	
Interest	2,356,839	2,356,839	
Total	3,253,505	3,253,505	
Debt Service Coverage (1.25X) - per Section 6.12 (Indenture)	1.60	1.35	
Debt Service Coverage (1.30X) (PUC)	1.60	1.35	

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings
 Comparative for the period ending January 31, 2024 and 2023

SCHEDULE C

	Month to Date		Variance Increase / (Decrease)
	Actual (Unaudited) January-24	Actual (Unaudited) January-23	
OPERATING REVENUES			
Water Revenues	6,524,009	6,021,759	502,250
Wastewater Revenues	3,607,906	2,897,827	710,079
Legislative Surcharge	330,892	268,968	61,924
Other Revenues	42,325	41,672	653
System Development Charge	33,521	58,175	(24,654)
Total Operating Revenues	10,538,652	9,288,401	1,250,252
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	488,780	484,856	3,924
Power Purchases	1,733,412	2,330,907	(597,495)
Total Utility Costs	2,222,192	2,815,763	(593,572)
Salaries and Wages	1,647,590	1,597,808	49,782
Pension and Benefits	691,505	620,133	71,373
Total Salaries and Benefits	2,339,095	2,217,941	121,154
Capitalized Labor and Benefits	(419,381)	(155,097)	(264,284)
Net Salaries and Benefits	1,919,714	2,062,844	(143,130)
Administrative and General Expenses			
Sludge removal	91,280	37,906	53,374
Chemicals	178,815	188,144	(9,329)
Materials & Supplies	87,136	134,235	(47,099)
Transportation	43,892	45,176	(1,285)
Communications	9,172	16,785	(7,614)
Claims	-	12,429	(12,429)
Insurance	148,838	142,010	6,828
Training & Travel	2,644	7,912	(5,269)
Advertising	7,668	5,655	2,013
Miscellaneous	127,005	136,825	(9,820)
Regulatory Expense	17,354	11,242	6,113
Bad Debts Provision	(16,898)	183,771	(200,669)
Total Administrative and General Expense	696,904	922,090	(225,186)
Depreciation Expense	2,399,885	2,340,261	59,624
Contractual Expense			
Audit & Computer Maintenance	117,146	156,495	(39,349)
Building rental	49,985	47,515	2,469
Equipment rental	41,187	49,821	(8,634)
Legal	4,994	-	4,994
Laboratory	38,846	26,103	12,743
Other	78,013	268,716	(190,702)
Total Contractual Expense	330,171	548,649	(218,478)
Retiree Supp. Annuities and health care costs	325,543	232,191	93,353
Contribution to Government of Guam	58,458	56,100	2,358
Total Retiree Benefits	384,002	288,291	95,711
Total Operating Expenses	7,952,866	8,977,898	(1,025,032)
Earnings (Loss) from Operations			
Interest Income - 2010/13/14/16/17/20 Series Bond	1,402,756	854,912	547,844
Interest Income - Other Funds	200,191	130,800	69,391
Interest Income - SDC	80	9,124	(9,045)
Interest Expense - 2010/13/14/16/17/20 Series Bond	(2,356,839)	(2,400,140)	43,301
Contributions from Local Government	-	1,450,000	(1,450,000)
Loss on Asset Disposal	-	(27,400)	27,400
Amortization of Discount, Premium and Issuance Costs	156,349	124,228	32,121
Defeasance due to bond refunding	(168,795)	(170,449)	1,654
Prior Year Adjustment	(7,852)	(8,125)	273
Total non-operating revenues (expenses)	(774,111)	(37,049)	(737,061)
Net Income (Loss) before capital contributions	1,811,675	273,454	1,538,222
Capital Contributions			
Grants from US Government	960,304	82,895	877,409
Grants from GovGuam & Others	-	-	-
Total Capital Contributions	960,304	82,895	877,409
Change in Net Assets	2,771,979	356,348	2,415,631
Debt Service Calculation			
Earnings From Operations	2,585,786	310,503	
System Development Charge	(33,521)	(58,175)	
Retiree COLA	58,458	56,100	
Interest/Investment Income	200,191	130,800	
Depreciation	2,399,885	2,340,261	
Plus withdrawals (deposits) to Rate Stabilization Fund	-	-	
ARPA Grant	-	1,450,000	
Balance Available for Debt Service per Section 6.12	5,210,799	4,229,489	
Debt Service			
Principal	896,667	852,917	
Interest	2,356,839	2,400,140	
Total	3,253,505	3,253,056	
Debt Service Coverage (1.25X) - per Section 6.12 (Indenture)	1.60	1.30	
Debt Service Coverage (1.30X) (PUC)	1.60	1.30	

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings
Comparative Budget vs. Actual for the period ending January 31, 2024

SCHEDULE D

	Year to Date		Variance Favorable / (Unfavorable)
	Actual (Unaudited) January-24	Budget January-24	
OPERATING REVENUES			
Water Revenues	26,349,037	26,826,538	(477,501)
Wastewater Revenues	14,325,974	14,610,260	(284,286)
Legislative Surcharge	1,338,280	1,311,780	26,500
Other Revenues	138,352	158,100	(19,748)
System Development Charge	772,491	408,000	364,491
Total Operating Revenues	42,924,134	43,314,678	(390,544)
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	1,702,523	1,966,667	264,144
Power Purchases	6,891,666	7,740,523	848,857
Total Utility Costs	8,594,188	9,707,189	1,113,001
Salaries and Wages	6,505,265	7,302,242	796,977
Pension and Benefits	2,685,450	2,599,507	(85,943)
Total Salaries and Benefits	9,190,715	9,901,749	711,034
Capitalized Labor and Benefits	(917,787)	(1,386,380)	(468,593)
Net Salaries and Benefits	8,272,927	8,515,369	242,442
Administrative and General Expenses			
Sludge removal	373,053	111,972	(261,081)
Chemicals	450,529	639,777	189,248
Materials & Supplies	396,821	828,331	431,511
Transportation	176,793	258,320	81,527
Communications	35,288	53,070	17,783
Claims	-	59,667	59,667
Insurance	595,351	645,333	49,982
Training & Travel	59,728	67,051	7,323
Advertising	10,780	44,795	34,015
Miscellaneous	502,613	447,969	(54,645)
Regulatory Expense	50,348	73,000	22,652
Bad Debts Provision	184,109	754,079	569,970
Total Administrative and General Expense	2,835,414	3,983,364	1,147,951
Depreciation Expense	9,616,208	9,605,692	(10,516)
Contractual Expense			
Audit & Computer Maintenance	595,088	663,086	67,998
Building rental	194,281	201,055	6,774
Equipment rental	112,138	187,097	74,959
Legal	96,603	500,000	403,397
Laboratory	110,323	175,317	64,993
Other	329,912	761,611	431,698
Total Contractual Expense	1,438,344	2,488,165	1,049,820
Retiree Supp. Annuities and health care costs	1,088,774	1,008,637	(80,136)
Contribution to Government of Guam	233,833	243,235	9,402
Total Retiree Benefits	1,322,607	1,251,872	(70,735)
Total Operating Expenses	32,079,689	35,551,652	3,471,963
Earnings (Loss) from Operations	10,844,444	7,763,026	3,081,418
Interest Income - 2010/13/14/16/17/20 Series Bond	4,208,829	2,588,016	1,620,812
Interest Income - Other Funds	818,740	91,667	727,073
Interest Income - SDC	44,421	3,492	40,929
Interest Expense - 2010/13/14/16/17/20 Series Bond	(9,427,355)	(9,427,355)	-
Contributions from Local Government	-	-	-
Loss on Asset Disposal	(4,211)	(225,995)	221,785
Amortization of Discount, Premium and Issuance Costs	625,396	496,912	128,484
Defeasance due to bond refunding	(675,182)	(681,797)	6,615
Prior Year Adjustment	(48,702)	(28,916)	(19,785)
Total non-operating revenues (expenses)	(4,458,064)	(7,183,977)	2,725,913
Net Income (Loss) before capital contributions	6,386,380	579,049	5,807,331
Capital Contributions			
Grants from US Government	960,304	6,745,746	(5,785,443)
Grants from GovGuam & Others	-	35,749	(35,749)
Total Capital Contributions	960,304	6,781,495	(5,821,191)
Change in Net Assets	7,346,684	7,360,544	(13,860)
Debt Service Calculation			
Earnings From Operations	10,844,444	7,763,026	
System Development Charge	(772,491)	(408,000)	
Retiree COLA	233,833	243,235	
Interest/Investment Income	818,740	91,667	
Depreciation	9,616,208	9,605,692	
Plus withdrawals (deposits) to Rate Stabilization Fund	-	316,667	
ARPA Grant	-	-	
Balance Available for Debt Service per Section 6.12	20,740,735	17,612,287	
Debt Service			
Principal	3,586,667	3,586,667	
Interest	9,427,355	9,427,355	
Total	13,014,022	13,014,022	
Debt Service Coverage (1.25X) - per Section 6.12 (Indenture)	1.59	1.35	
Debt Service Coverage (1.30X) (PUC)	1.59	1.35	

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings
Comparative for the period ending January 31, 2024 and 2023

SCHEDULE E

	Year to Date		Variance Increase / (Decrease)
	Actual (Unaudited) January-24	Actual (Unaudited) January-23	
OPERATING REVENUES			
Water Revenues	26,349,037	22,814,134	3,534,903
Wastewater Revenues	14,325,974	11,757,918	2,568,056
Legislative Surcharge	1,338,280	1,035,122	303,158
Other Revenues	138,352	156,980	(18,629)
System Development Charge	772,491	562,289	210,202
Total Operating Revenues	42,924,134	36,326,444	6,597,690
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	1,702,523	1,945,580	(243,057)
Power Purchases	6,891,666	9,290,370	(2,398,704)
Total Utility Costs	8,594,188	11,235,949	(2,641,761)
Salaries and Wages	6,505,265	6,389,214	116,051
Pension and Benefits	2,685,450	2,498,074	187,376
Total Salaries and Benefits	9,190,715	8,887,288	303,427
Capitalized Labor and Benefits	(917,787)	(857,500)	(60,287)
Net Salaries and Benefits	8,272,927	8,029,788	243,140
Administrative and General Expenses			
Sludge removal	373,053	150,824	222,229
Chemicals	450,529	444,801	5,728
Materials & Supplies	396,821	422,408	(25,587)
Transportation	176,793	157,756	19,037
Communications	35,288	38,676	(3,389)
Claims	-	17,326	(17,326)
Insurance	595,351	591,707	3,644
Training & Travel	59,728	39,483	20,245
Advertising	10,780	11,922	(1,142)
Miscellaneous	502,613	417,752	84,861
Regulatory Expense	50,348	47,323	3,025
Bad Debts Provision	184,109	712,143	(528,035)
Total Administrative and General Expense	2,835,414	3,052,124	(216,710)
Depreciation Expense	9,616,208	9,579,020	37,188
Contractual Expense			
Audit & Computer Maintenance	595,088	629,939	(34,852)
Building rental	194,281	189,761	4,519
Equipment rental	112,138	173,628	(61,491)
Legal	96,603	143,769	(47,166)
Laboratory	110,323	103,320	7,004
Other	329,912	611,192	(281,280)
Total Contractual Expense	1,438,344	1,851,609	(413,265)
Retiree Supp. Annuities and health care costs	1,088,774	930,345	158,428
Contribution to Government of Guam	233,833	224,400	9,433
Total Retiree Benefits	1,322,607	1,154,745	167,861
Total Operating Expenses	32,079,689	34,903,235	(2,823,546)
Earnings (Loss) from Operations			
Interest Income - 2010/13/14/16/17/20 Series Bond	4,208,829	2,588,016	1,620,812
Interest Income - Other Funds	818,740	357,308	461,432
Interest Income - SDC	44,421	3,492	40,929
Interest Expense - 2010/13/14/16/17/20 Series Bond	(9,427,355)	(9,600,559)	173,204
Contributions from Local Government	-	4,600,000	(4,600,000)
Loss on Asset Disposal	(4,211)	(225,995)	221,785
Amortization of Discount, Premium and Issuance Costs	625,396	496,912	128,484
Defeasance due to bond refunding	(675,182)	(681,797)	6,615
Prior Year Adjustment	(48,702)	(28,916)	(19,785)
Total non-operating revenues (expenses)	(4,458,064)	(2,491,540)	(1,966,524)
Net Income (Loss) before capital contributions	6,386,380	(1,068,332)	7,454,712
Capital Contributions			
Grants from US Government	960,304	6,745,746	(5,785,443)
Grants from GovGuam & Others	-	35,749	(35,749)
Total Capital Contributions	960,304	6,781,495	(5,821,191)
Change in Net Assets	7,346,684	5,713,163	1,633,521
Debt Service Calculation			
Earnings From Operations	10,844,444	1,423,208	
System Development Charge	(772,491)	(562,289)	
Retiree COLA	233,833	224,400	
Interest/Investment Income	818,740	357,308	
Depreciation	9,616,208	9,579,020	
Plus withdrawals (deposits) to Rate Stabilization Fund	-	1,300,000	
ARPA Grant	-	4,600,000	
Balance Available for Debt Service per Section 6.12	20,740,735	16,921,647	
Debt Service			
Principal	3,586,667	3,411,667	
Interest	9,427,355	9,600,559	
Total	13,014,022	13,012,226	
Debt Service Coverage (1.25X) - per Section 6.12 (Indenture)	1.59	1.30	
Debt Service Coverage (1.30X) (PUC)	1.59	1.30	

SCHEDULE F

Guam Waterworks Authority Statement of Cash Flows (Unaudited) FY2024	YTD Jan-24
Cash flows from operating activities:	
Cash received from trade and others	38,025,327
Cash payments to suppliers/contractors for goods and services	(13,069,980)
Cash payments to employees for services	(10,647,863)
Net cash provided by operating activities	<u>14,307,484</u>
Cash flows from noncapital financing activities:	
Receipts from the Local Government operating grant	-
Proceeds from legal settlement	-
	<u>-</u>
Cash flows from capital and related financing activities:	
Contributed capital received (grants)	1,824,877
Acquisition of utility plant	(7,593,639)
Repayment of Long Term Debt	49,786
Interest expense	(14,239,520)
Net cash provided by (used in) capital and related financing activities	<u>(19,958,496)</u>
Cash flows from investing activities:	
Transfers from (to) restricted fund	(2,616,602)
Interest income received	5,071,989
Net cash provided by investing activities	<u>2,455,387</u>
Net increase (decrease) in cash	(3,195,624)
Unrestricted cash at beginning of the period	50,324,888
Unrestricted cash at end of period	<u>47,129,263</u>
Reconciliation of operating loss to net cash provided by operating activities:	
Operating Income (loss)	10,844,444
Adjustments to reconcile to net cash provided by operating activities:	
Depreciation expense	9,616,208
Bad debts (recovery)	184,109
Capitalized labor and benefits	(917,787)
Recovery of provision for inventory obsolescence	-
Non-cash pension costs	-
(Increase) decrease in assets:	
Accounts receivable	(4,924,439)
Materials and supplies inventory	123,566
Prepaid expenses	(600,627)
Regulatory Assets	-
Increase (decrease) in liabilities:	
Accounts payable	(724,624)
Accrued payroll and employee benefits	(134,541)
Customer deposits	25,632
Other liabilities	815,542
Net cash provided by operating activities	<u>14,307,484</u>

GUAM WATERWORKS AUTHORITY
Restricted and Unrestricted Cash Summary
FY2024

SCHEDULE G

Description	Unaudited January 31, 2024	Unaudited September 30, 2023	Increase (Decrease)
UNRESTRICTED			
Change Fund	2,000	2,000	-
Petty Cash	3,930	3,930	-
BOG Deposit Accounts	22,861,048	26,112,801	(3,251,753)
BOG O & M Reserve	14,720,167	14,477,230	242,937
BOG CapEx Fund	8,592,118	8,778,927	(186,809)
BOG Rate Stabilization Fund	950,000	950,000	-
Sub-total Unrestricted	47,129,263	50,324,888	(3,195,624)
RESTRICTED			
Bank Pacific	12,815	6,345	6,469
Bank of Hawaii	232,213	167,390	64,823
Community First FCU	1,577	2,538	(961)
First Hawaiian Bank	63,788	82,921	(19,134)
Bank Pacific Surcharge	945,809	6,863	938,945
Bank Pacific Escrow Deposit	958,743	958,711	32
BOG Customer Refunds	2,202,282	2,157,517	44,765
BOG Sewer Hookup Revolving Fund	2,137,651	2,079,769	57,882
BOG Operation and Maintenance Fund	3,083,482	3,083,482	-
BOG Revenue Trust	1,197,979	(137,922)	1,335,901
BOG Revenue Trust Fund	8,798,598	10,471,820	(1,673,222)
BOG Capital Improvement Revenue Fund	11,912,094	8,452,503	3,459,591
	31,547,030	27,331,937	4,215,092
BOG - SDC Deposit	3,154,961	1,125,796	2,029,165
BOG - SDC CDs	3,000,000	4,250,000	(1,250,000)
Total SDC	6,154,961	5,375,796	779,165
Total Restricted	37,701,990	32,707,733	4,994,257
Reserve Funds			
BOG Series 2013 Construction Fund	3,486,848	3,459,448	27,400
BOG Series 2016 Construction Fund	24,376,797	27,091,177	(2,714,381)
BOG Series 2017 Refunding Construction Fund	3,672,661	3,648,718	23,944
BOG Series 2020A Construction Fund	111,867,415	111,457,380	410,035
BOG CIF-Construction Fund Transfers	4,789,102	4,710,065	79,038
Total Restricted - Held by Trustee	148,192,823	150,366,788	(2,173,964)
BOG OMRRRF Fund	17,423,213	17,423,213	-
USB Series 2013 Debt Service Fund	2,475,484	1,494,615	980,868
USB Series 2013 Debt Service Reserve Fund	12,031,688	12,031,688	-
USB Series 2014 Refunding Debt Service Reserve Fund	11,725,431	10,100,975	1,624,456
USB Series 2016 Debt Service Fund	1,282,473	2,061,782	(779,310)
USB Series 2016 Debt Service Reserve Fund	7,591,999	7,591,999	-
USB Series 2017 Refunding Debt Service Reserve Fund	7,566,460	7,566,460	-
USB Series 2017 Debt Service Fund	2,008,240	2,015,191	(6,950)
USB Series 2020A Debt Service Fund	677,178	1,753,543	(1,076,366)
USB Series 2020A Debt Service Reserve Fund	6,659,700	6,659,700	-
USB Series 2020B Debt Service Reserve Fund	594,109	1,540,498	(946,389)
Total Investments	70,035,974	70,239,665	(203,691)
Total Restricted and Unrestricted Cash	303,060,051	303,639,073	(579,023)

Guam Waterworks Authority
Accounts Receivable - Government (Active)
January 31, 2024

SCHEDULE H

Customer Name	A G I N G						Total
	No. of Accounts	Current	31 - 60 days	61 - 90 days	91 - 120 days	Over 120 days	
Autonomous Agencies (Active)							
Guam Int'l Airport Authority	8	123	97	117	115	262,179	262,631
Guam Power Authority	25	32,994	30,945	-	-	-	63,939
Guam Housing & Urban Renewal Authority	10	7,277	-	-	-	-	7,277
Port Authority of Guam	5	1,753	-	-	-	-	1,753
Guam Solid Waste Authority	4	630	57	68	35	-	790
Guam Housing Corporation	1	42	-	-	-	-	42
Total Autonomous Agencies	53	42,819	31,099	185	151	262,179	336,433
Semi-Autonomous Agencies (Active)							
Guam Memorial Hospital Authority	3	49,333	44,355	50,317	32	13,824	157,861
University of Guam	48	108,070	221	-	-	-	108,291
Guam Environmental Protection Agency	2	230	-	-	-	-	230
Total Semi-Autonomous Agencies	53	157,633	44,576	50,317	32	13,824	266,382
Line Agencies (Active)							
Department of Education	52	388,120	488,937	461,632	103,564	1,878,078	3,320,331
Department of Corrections	9	107,487	113,919	48,214	1,263	-	270,884
Department of Parks & Recreation	13	57,128	33,443	20,011	2,482	-	113,063
Department of Public Works	10	18,263	8,656	97	74	4,495	31,585
Department of Agriculture	7	4,931	4,876	4,929	2,246	54	17,036
Guam Fire Department	11	9,080	5,044	1,073	-	-	15,197
Department of Public Health & Social Services	9	4,998	1,537	1,719	1,532	1,875	11,661
Department of Chamorro Affairs	7	6,733	321	-	-	-	7,054
Department of Military Affairs/GUARNG	1	2,796	-	-	-	-	2,796
Guam Police Department	7	1,983	263	-	-	-	2,246
Guam Visitors Bureau	2	2,122	-	-	-	-	2,122
Guam Homeland Security/Civil Defense	1	1,297	771	-	-	-	2,068
Guam Veterans Affairs Office	2	787	802	268	-	-	1,857
Department of Administration	3	148	154	158	133	-	593
Department of Mental Health and Substance	2	572	-	-	-	-	572
Guam Association of Retired Persons	1	342	-	-	-	-	342
Guam Public Library	6	250	-	-	-	-	250
Guam Energy Office	1	240	-	-	-	-	240
							-
							-
Total Line Agencies	144	607,275	658,725	538,100	111,295	1,884,502	3,799,897
Other Government of Guam Entities (Active)							
Mayors Council of Guam	63	19,291	19,181	22,405	22,382	42,630	125,889
The Office of the Dededo Mayor	1	806	375	585	847	682	3,294
Merizo Mayor	1	127	-	-	-	-	127
							-
Total Other Government of Guam Entities	65	20,224	19,556	22,990	23,229	43,311	129,310
Total as of January 31, 2024 (Active)	315	827,952	753,956	611,592	134,706	2,203,816	4,532,022

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GUAM WATERWORKS AUTHORITY
Accounts Receivable Aging Summary by Rate Class
As of January 31, 2024

SCHEDULE I

ACTIVE AND INACTIVE

Rate Class	A G I N G							Total	
	No. of Accounts	Current	31 - 60 days	61 - 90 days	91 - 120 days	Over 120 days			
Government	442	\$ 1,742,947	\$ 824,632	\$ 646,094	\$ 135,984	\$ 2,415,570	\$ 5,765,227	23%	
Agriculture	418	30,728	8,268	4,403	2,155	27,656	73,210	0%	
Commercial I	2,690	1,534,286	246,484	94,899	143,454	468,485	2,487,609	10%	
Commercial II	38	254,716	31,272	4,049	185	80,916	371,138	2%	
Commercial III	289	637,984	133,834	54,910	40,843	316,108	1,183,679	5%	
Golf Course	16	15,119	675	650	1,331	18,317	36,093	0%	
Hotel	55	2,241,445	116,219	85,334	2,702	695,888	3,141,587	13%	
Irrigation	32	2,741	501	446	80	1,295	5,063	0%	
Residential	47,527	4,292,814	864,264	522,366	346,624	5,505,064	11,531,133	47%	
	51,507	10,752,779	2,226,160	1,413,153	673,360	9,529,299	24,594,740	100%	
		44%	9%	6%	3%	39%			
Less Allowance for Doubtful Accounts: (9,582,684)									
Net Accounts Receivable: 15,012,056									
Days Receivables Outstanding: 39									

As of December 31, 2023

Rate Class	A G I N G							Total	
	No. of Accounts	Current	31 - 60 days	61 - 90 days	91 - 120 days	Over 120 days			
Government	441	\$ 1,899,938	\$ 907,493	\$ 637,884	\$ 93,592	\$ 2,429,068	\$ 5,967,974	24%	
Agriculture	416	35,160	8,056	2,481	1,901	27,413	75,011	0%	
Commercial I	2,686	1,626,934	228,611	175,314	55,439	464,946	2,551,245	10%	
Commercial II	38	202,720	21,370	6,884	2,492	80,943	314,409	1%	
Commercial III	289	680,037	83,086	46,609	65,394	308,699	1,183,825	5%	
Golf Course	16	15,128	655	1,331	13,425	5,160	35,699	0%	
Hotel	55	2,082,068	162,913	38,998	42,372	686,549	3,012,900	12%	
Irrigation	32	3,280	521	583	-	1,295	5,679	0%	
Residential	47,400	4,260,187	962,702	532,297	320,031	5,462,712	11,537,929	47%	
	51,373	10,805,451	2,375,408	1,442,382	594,646	9,466,784	24,684,671	100%	
		44%	10%	6%	2%	38%			
Less Allowance for Doubtful Accounts: (9,582,684)									
Net Accounts Receivable: 15,101,987									
Days Receivables Outstanding: 39									

ACTIVE ONLY

Rate Class	A G I N G							Total	
	No. of Accounts	Current	31 - 60 days	61 - 90 days	91 - 120 days	Over 120 days			
Government	441	\$ 1,742,947	\$ 824,632	\$ 646,094	\$ 135,984	\$ 2,415,570	\$ 5,763,337	30%	
Agriculture	398	30,728	8,268	4,403	1,725	4,115	49,240	0%	
Commercial I	2,549	1,530,252	245,253	91,324	138,428	220,228	2,225,484	11%	
Commercial II	38	254,716	31,272	4,049	185	80,916	371,138	2%	
Commercial III	276	637,931	133,803	54,879	40,809	278,379	1,145,800	6%	
Golf Course	16	15,119	675	650	1,331	18,317	36,093	0%	
Hotel	53	2,241,445	116,219	85,334	2,702	55,365	2,501,065	13%	
Irrigation	31	2,741	501	446	80	-	3,768	0%	
Residential	40,209	4,224,884	817,056	466,680	277,436	1,618,967	7,405,021	38%	
	44,011	10,680,762	2,177,678	1,353,859	598,682	4,689,967	19,500,947	100%	
		55%	11%	7%	3%	24%			
Less Allowance for Doubtful Accounts: (9,582,684)									
Net Accounts Receivable: 9,918,263									

Rate Class	A G I N G							Total	
	No. of Accounts	Current	31 - 60 days	61 - 90 days	91 - 120 days	Over 120 days			
Government	440	\$ 1,899,938	\$ 907,493	\$ 637,884	\$ 93,592	\$ 2,427,178	\$ 5,966,084	30%	
Agriculture	396	35,160	7,983	2,125	1,771	3,953	50,991	0%	
Commercial I	2,555	1,625,138	225,104	170,555	31,100	241,831	2,293,729	12%	
Commercial II	38	202,720	21,370	6,884	2,492	80,943	314,409	2%	
Commercial III	277	680,037	83,086	46,609	65,191	271,336	1,146,260	6%	
Golf Course	16	15,128	655	1,331	13,425	5,160	35,699	0%	
Hotel	53	2,082,068	162,913	38,998	42,372	46,027	2,372,377	12%	
Irrigation	31	3,280	521	583	-	-	4,384	0%	
Residential	40,220	4,222,557	921,425	479,544	259,569	1,710,469	7,593,563	38%	
	44,026	10,766,025	2,330,550	1,384,514	509,512	4,786,896	19,777,497	100%	
		54%	12%	7%	3%	24%			
Less Allowance for Doubtful Accounts: (9,582,684)									
Net Accounts Receivable: 10,194,813									

GUAM WATERWORKS AUTHORITY
Accounts Payable Aging

SCHEDULE J

As of	AGING						Total	Days Payable Outstanding
	Current	31 - 60 Days	61 - 90 Days	91 - 120 Days	> 120 Days			
January 31, 2024	\$ 2,674,753 74%	\$ 174,117 5%	\$ 142,961 4%	\$ 104,700 3%	\$ 508,528 14%	\$ 3,605,059 100%	38	
December 31, 2023	\$ 2,681,118 64%	\$ 334,474 8%	\$ 336,958 8%	\$ 374,018 9%	\$ 491,783 12%	\$ 4,218,351 100%	40	
November 30, 2023	\$ 3,319,708 77%	\$ 475,285 11%	\$ 219,440 5%	\$ 20,148 0%	\$ 280,449 6%	\$ 4,315,030 100%	40	

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GUAM WATERWORKS AUTHORITY
WATER DEMAND BY RATE CLASS
FY2015 - FY2024

SCHEDULE K

CLASS	AUDITED								UNAUDITED	Annualized Based on 4 months	% Inc / (Dec.)
	FY2015 TOTAL CONSUMPTION (kGal)	FY2016 TOTAL CONSUMPTION (kGal)	FY2017 TOTAL CONSUMPTION (kGal)	FY2018 TOTAL CONSUMPTION (kGal)	FY2019 TOTAL CONSUMPTION (kGal)	FY2020 TOTAL CONSUMPTION (kGal)	FY2021 TOTAL CONSUMPTION (kGal)	FY2022 TOTAL CONSUMPTION (kGal)*	FY2023 TOTAL CONSUMPTION (kGal)	FY2024 TOTAL CONSUMPTION (kGal)	
R Residential	3,415,662	3,429,689	3,206,811	3,313,613	3,359,905	3,712,723	3,622,617	3,450,574	3,185,230	3,095,265	11%
C Commercial	1,020,089	1,022,890	964,639	910,905	906,192	822,029	786,054	818,460	816,393	857,974	-9%
F Federal	1,168	1,180	2,508	1,813	1,602	1,338	2,069	1,389	1,099	1,367	-16%
G Government	515,974	475,366	448,430	450,165	405,980	408,502	404,026	470,581	445,116	447,016	1%
H Hotel	999,116	1,008,087	1,004,525	989,723	1,079,919	714,161	448,034	462,757	554,767	602,531	-34%
G Golf	6,850	6,770	5,252	2,741	2,793	5,835	2,855	3,796	6,415	952	109%
A Agriculture	67,376	78,628	69,482	81,127	90,803	84,492	68,805	65,719	49,748	54,831	-7%
I Irrigation	<u>10,385</u>	<u>11,351</u>	<u>10,143</u>	<u>8,504</u>	<u>7,896</u>	<u>8,654</u>	<u>5,404</u>	<u>4,888</u>	<u>3,242</u>	<u>3,127</u>	10%
GRAND TOTAL	<u>6,036,620</u>	<u>6,033,960</u>	<u>5,711,790</u>	<u>5,758,590</u>	<u>5,855,091</u>	<u>5,757,733</u>	<u>5,339,864</u>	<u>5,278,164</u>	<u>5,062,012</u>	<u>5,063,063</u>	-2%

**Guam Waterworks Authority
System Development Charges Project Status
As of January 31, 2024**

SCHEDULE L

Funding Summary

Total available project funds	\$ 17,564,105
Total project expenditures and encumbrances	12,445,814
Total unobligated project funds	\$ 5,118,292

Projects Funded

Project Description	Expenditures	Outstanding Encumbrances	Expenditures and Encumbrances
Agat-Santa Rita Wastewater Treatment Plant Replacement	1,202,006	-	1,202,006
Baza Gardens Wastewater Cross Island Pumping & Conveyance	1,151,116	2,854	1,153,971
Central Guam Reservoirs	276,008	4,032	280,040
Line Replacement Phase IV	256,937	-	256,937
Northern District WWTP	7,552,513	-	7,552,513
Northern District WWTP (Land Purchase)	1,000,000	-	1,000,000
Route 4 Relief Sewerline Rehab & Replacement	519,227	-	519,227
South Paulino Heights Waterline Upgrade	84,056	4,714	88,770
Talofofo Sewer Improvement	-	241,142	241,142
Groundwater Well Production Meter Rep.	143,647	7,560	151,207
	\$ 12,185,510	\$ 260,303	\$ 12,445,814

Future planned projects

FY 2024-2025

Water Distribution System Pipe Replacement & Upgrades	500,000
Capacity Enhancement - Well Development and Construction Progr	394,000
Well Repair Program	200,000
	\$ 1,094,000

Guam Waterworks Authority	Date:	1/31/2024	 GUAM WATERWORKS AUTHORITY WATER DISTRIBUTION FACILITIES REPORT
	Time:		
REVIEWS			
TOTAL PUMPS INSTALLED	67	OVERALL AVERAGE	94%
TOTAL PUMPS OPERATIONAL	64	% OF OPERATING PUMPS	96%
TOTAL BOOSTER PUMP STATIONS	29		

Northern District													
NO.	FACILITY	PUMP HORSEPOWER	NO OF INSTALLED PUMPS	NO OF OPERATIONAL PUMPS	PUMP AVAILABILITY %	GENERATOR OPERATIONAL FAULT	ATS MANUAL/AUTO	PUMP UNIT REMARKS	WORK ORDER NO.	VALVES, ELECTRICAL, STRUCTURAL REMARKS	WORK ORDER NO.	ESTIMATED REPAIR DATE	PUMP AND MOTOR INVENTORY
1	Yigo	20	3	3	100%	OP	A	Installed new pump assembly 1-17-24					
2	Gavinerro	20	2	2	100%	OP	A						
3	Mataguac	25	2	2	100%	OP	A						
4	Santa Rosa	15	2	2	100%	OP	A	Temporay BPS online. Main BPS under construction					
5	Barrigada 2M	40	2	2	100%	OP	A						
6	Barrigada Hieghts	30	6	6	100%	OP	A						
7	Chln, Palauan	5	2	2	100%	N/A							
8	Access	60	2	2	100%	OP	A						
9	Agana Hieghts	30	3	3	100%	OP	A						
10	Nimitz Hill	7.5	2	2	100%	N/A							
11	Adawag	1.5	2	2	100%	N/A							
12	Pale Kiren	1	1	1	100%	N/A							
13	Ulloa/Untalan	1	2	2	100%	OP	A						
14	Latte Heights	15	2	2	100%	OP	A						
	TOTAL = 14		33	33	100%								
pump availability =no of operational pumps/no of pumps*100%													

Central District													
NO.	FACILITY	PUMP HORSEPOWER	NO OF INSTALLED PUMPS	NO OF OPERATIONAL PUMPS	PUMP AVAILABILITY %	GENERATOR OPERATIONAL FAULT	ATS MANUAL/AUTO	PUMP UNIT REMARKS	WORK ORDER NO.	VALVES, ELECTRICAL, STRUCTURAL REMARKS	WORK ORDER NO.	ESTIMATED REPAIR DATE	UPDATES
1	Pago	150 / 100	3	3	100%	OP	A						
2	Brigade	60	3	3	100%	OP	A						
3	Windward Hills	200 / 75	3	2	67%	OP	A	Inspection pending on pump 3 due to not discharge pressure not building. Pending availability of crane.	1392067				
4	Santa Rita Spring	40	2	2	100%	OP	A						
5	Santa Ana (Lower)	25	2	1	50%	N/A		Pump # 2 damaged impeller. Pending quotation.	1392069				
6	Camacho	1	1	1	100%	N/A							
7	Tenorio	1.5	1	1	100%	N/A							
	Total=7		15	13	87%								
pump availability =no of operational pumps/no of pumps*100%													

Southern District													
NO.	FACILITY	PUMP HORSEPOWER	NO OF INSTALLED PUMPS	NO OF OPERATIONAL PUMPS	PUMP AVAILABILITY %	GENERATOR OPERATIONAL FAULT	ATS MANUAL/AUTO	PUMP UNIT REMARKS	WORK ORDER NO.	VALVES, ELECTRICAL, STRUCTURAL REMARKS	WORK ORDER NO.	ESTIMATED REPAIR DATE	UPDATES
1	Malojloj Line	125 / 50	3	2	67%	OP	A	1-29-24 Pump 3 removed for replacement of seals and shaft sleeve.					
2	Geus	7.5	3	3	100%	OP	A						
3	Pigua	7.5	2	2	100%	N/A							
4	Toquan	10	2	2	100%	OP	A						
5	WBP-2	25	2	2	100%	OP	A						
6	WBP-1	5	2	2	100%	OP	A						
7	Malojloj Elevated	15	3	3	100%	OP	A						
8	Ija	7.5	2	2	100%	N/A	N/A						
	Total=8		19	18	95%								
pump availability =no of operational pumps/no of pumps*100%													



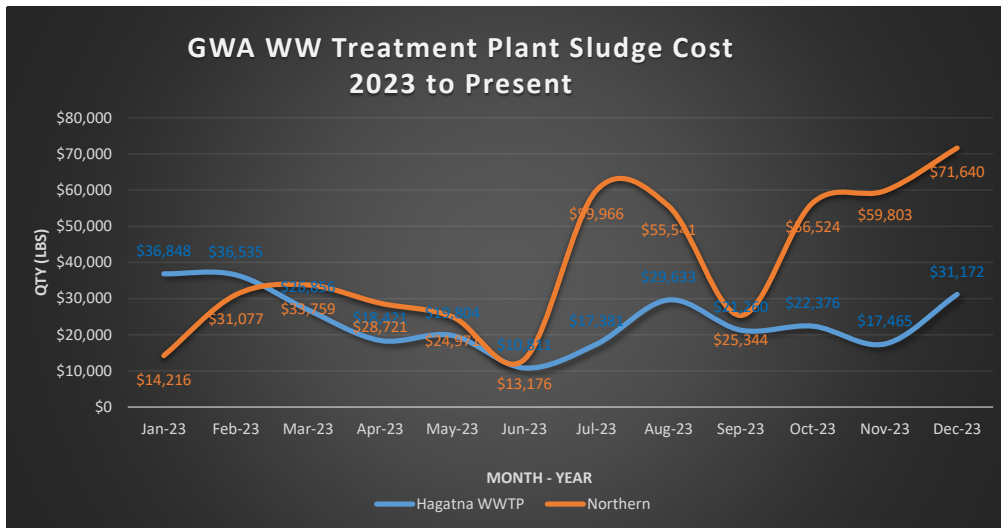
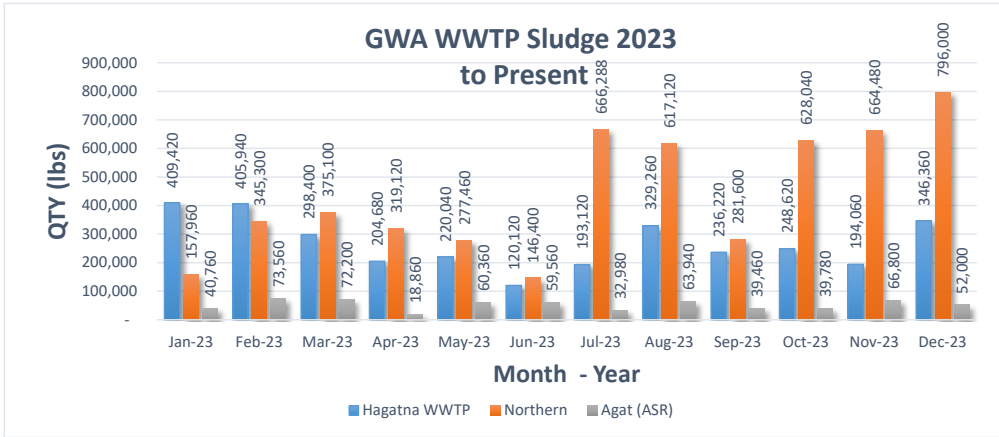
Guam Waterworks Authority
VEHICLE FLEET STATUS
2/6/2024

EQUIPMENT STATUS					SUMMARY						
Description	Number of Equipment	Number of Equipment Available	Number of Equipment Not Available	Percentage	Operational	Operational w/Rprs Pending	Not in Operation-Accident (Docs Pending)	Not in Operation-Assessment Pending	Not in Operation-Repairs Pending	Not in Operation-Vendor Repairs	Recommend Survey
Backhoe (Leased)	3	2	1	67%	2	0	0	0	0	1	0
Dump Truck (Leased)	3	3	0	100%	3	0	0	0	0	0	0
Trailer (Leased)	3	3	0	100%	3	0	0	0	0	0	0
Backhoe	2	2	0	100%	2	0	0	0	0	0	0
Boom Truck	0	0	0	#DIV/0!	0	0	0	0	0	0	0
Crane	1	1	0	100%	1	0	0	0	0	0	0
Dump Truck	1	0	1	0%	0	0	0	0	1	0	0
Forklift	6	6	0	100%	6	0	0	0	0	0	0
Fuel Tanker	1	0	1	0%	0	0	0	0	0	0	1
Heavy Duty	13	11	2	85%	10	1	0	0	0	1	1
Hoist Rig	1	1	0	100%	1	0	0	0	0	0	0
Jetter	1	0	1	0%	0	0	0	0	0	1	0
Light	132	112	20	85%	105	7	2	12	3	2	1
Mini Backhoe	2	0	2	0%	0	0	0	0	2	0	0
Pumper Truck	1	0	1	0%	0	0	0	0	0	1	0
Skidster	1	1	0	100%	1	0	0	0	0	0	0
Sludge Truck	3	2	1	67%	2	0	0	0	1	0	0
Tractor	2	2	0	100%	2	0	0	0	0	0	0
Tractor Mower	1	1	0	100%	1	0	0	0	0	0	0
Trailer	17	10	7	59%	10	0	1	2	3	1	0
Trencher	1	0	1	0%	0	0	0	0	1	0	0
Vacuum Truck	6	3	3	50%	2	1	0	2	0	1	0
Water Buffalo	2	0	2	0%	0	0	0	2	0	0	0
Water Tanker	5	2	3	40%	2	0	0	3	0	0	0
Compressor	1	1	0	100%	1	0	0	0	0	0	0
Total	209	163	46		154	9	3	21	11	8	3

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2023	Hagatna WWTP		Northern		Agat (ASR)		Hagatna + Northern + Agat	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
Month- Yr	lbs	\$	lbs	\$	lbs	\$	lbs	\$
Jan-23	409,420	\$36,848	157,960	\$14,216	40,760	\$3,668	608,140	\$54,733
Feb-23	405,940	\$36,535	345,300	\$31,077	73,560	\$6,620	824,800	\$74,232
Mar-23	298,400	\$26,856	375,100	\$33,759	72,200	\$6,498	745,700	\$67,113
Apr-23	204,680	\$18,421	319,120	\$28,721	18,860	\$1,697	542,660	\$48,839
May-23	220,040	\$19,804	277,460	\$24,971	60,360	\$5,432	557,860	\$50,207
Jun-23	120,120	\$10,811	146,400	\$13,176	59,560	\$5,360	326,080	\$29,347
Jul-23	193,120	\$17,381	666,288	\$59,966	32,980	\$2,968	892,388	\$80,315
Aug-23	329,260	\$29,633	617,120	\$55,541	63,940	\$5,755	1,010,320	\$90,929
Sep-23	236,220	\$21,260	281,600	\$25,344	39,460	\$3,551	557,280	\$50,155
Oct-23	248,620	\$22,376	628,040	\$56,524	39,780	\$3,580	916,440	\$82,480
Nov-23	194,060	\$17,465	664,480	\$59,803	66,800	\$6,012	925,340	\$83,281
Dec-23	346,360	\$31,172	796,000	\$71,640	52,000	\$4,680	1,194,360	\$107,492
Grand Total	3,206,240	\$288,562	5,274,868	\$474,738	620,260	\$55,823	9,101,368	\$819,123

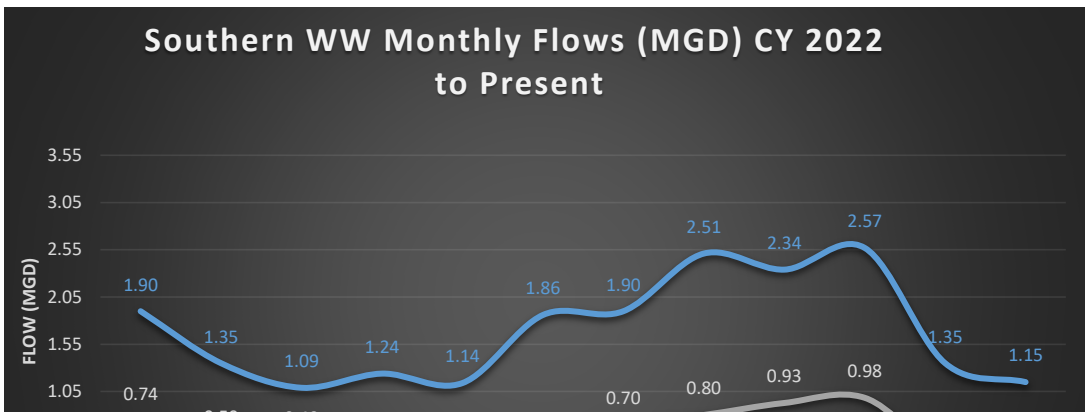
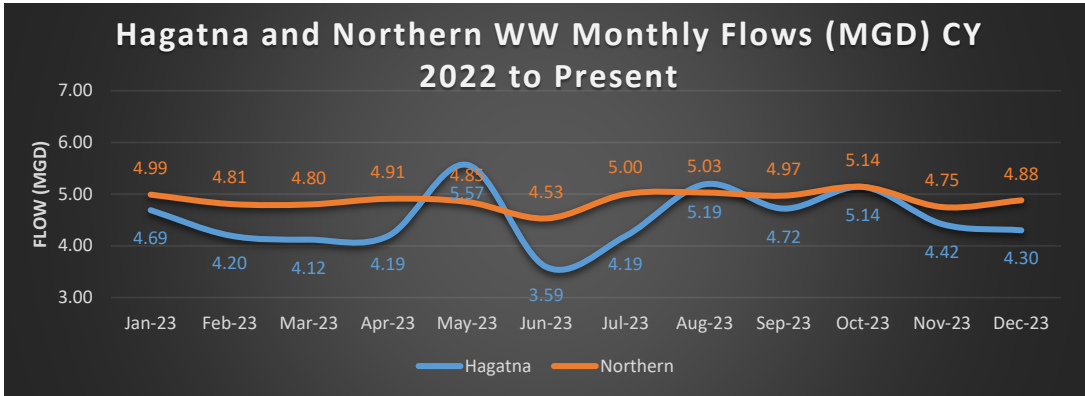
2024	Hagatna WWTP		Northern		Agat (ASR)		Hagatna + Northern + Agat	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
Month- Yr	lbs	\$	lbs	\$	lbs	\$	lbs	\$
Jan-24	294,880	\$26,539	708,340	\$63,751	49,540	\$4,459	1,052,760	\$94,748
Feb-24		\$0		\$0		\$0	-	\$0
Mar-24		\$0		\$0		\$0	-	\$0
Apr-24		\$0		\$0		\$0	-	\$0
May-24		\$0		\$0		\$0	-	\$0
Jun-24		\$0		\$0		\$0	-	\$0
Jul-24		\$0		\$0		\$0	-	\$0
Aug-24		\$0		\$0		\$0	-	\$0
Sep-24		\$0		\$0		\$0	-	\$0
Oct-24		\$0		\$0		\$0	-	\$0
Nov-24		\$0		\$0		\$0	-	\$0
Dec-24		\$0		\$0		\$0	-	\$0
Grand Total	294,880	\$26,539	708,340	\$63,751	49,540	\$4,459	1,052,760	\$94,748



Wastewater Treatment Plant Average Monthly Flows Million Gallons Per Day

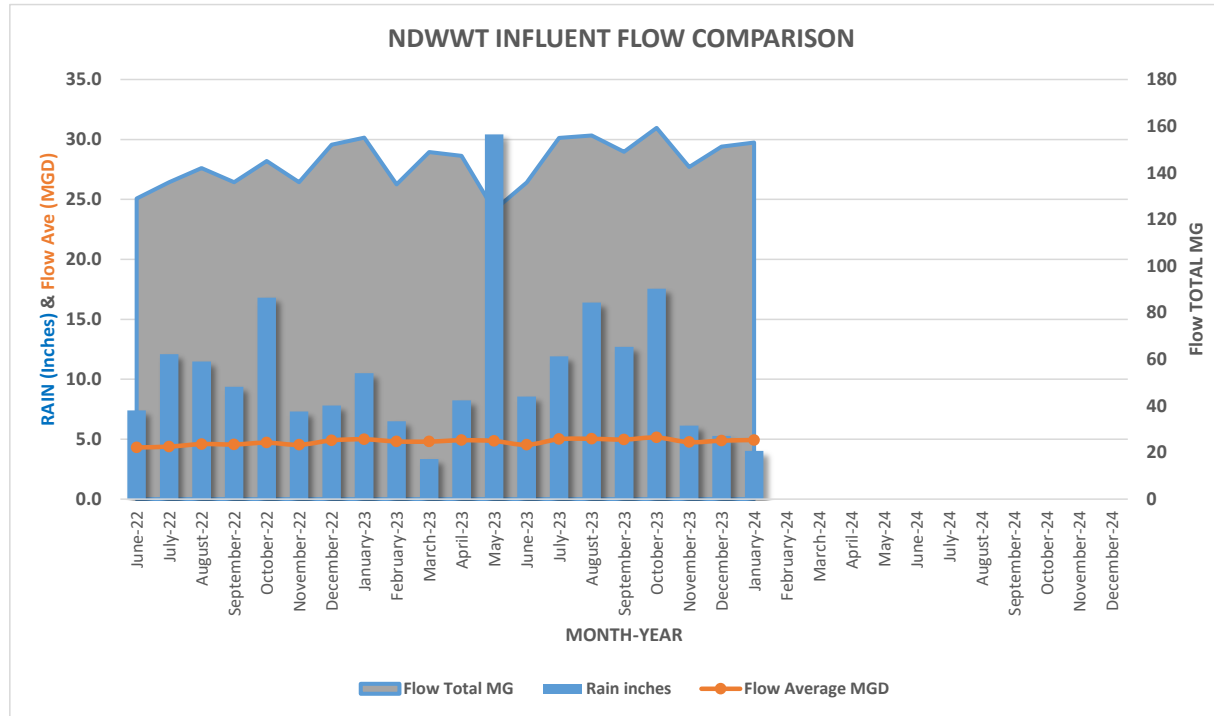
2023	Hagatna	Northern	ASR	Umatac	Inarajan
Jan-23	4.69	4.99	1.90	0.74	0.21
Feb-23	4.20	4.81	1.35	0.50	0.11
Mar-23	4.12	4.80	1.09	0.49	0.09
Apr-23	4.19	4.91	1.24	0.47	0.10
May-23	5.57	4.85	1.14	0.29	0.18
Jun-23	3.59	4.53	1.86	0.26	0.18
Jul-23	4.19	5.00	1.90	0.70	0.17
Aug-23	5.19	5.03	2.51	0.80	0.23
Sep-23	4.72	4.97	2.34	0.93	0.29
Oct-23	5.14	5.14	2.57	0.98	0.26
Nov-23	4.42	4.75	1.35	0.38	0.13
Dec-23	4.30	4.88	1.15	0.34	0.12
2023 Average MGD	4.53	4.89	1.70	0.57	0.11
2023 Total MGY	1,654	1,785	622	210	63

2024	Hagatna	Northern	ASR	Umatac	Inarajan
Jan-24	4.14	4.93	0.91	0.30	0.11
Feb-24					
Mar-24					
Apr-24					
May-24					
Jun-24					
Jul-24					
Aug-24					



NDWWT INFLUENT FLOW vs RAIN COMPARISON

Date	Rain inches	Flow Average MGD	Flow Total MG
June-22	7.4	4.31	129
July-22	12.1	4.38	136
August-22	11.5	4.59	142
September-22	9.4	4.56	136
October-22	16.8	4.71	145
November-22	7.3	4.53	136
December-22	7.8	4.90	152
January-23	10.5	4.99	155
February-23	6.5	4.81	135
March-23	3.4	4.80	149
April-23	8.2	4.91	147
May-23	30.4	4.85	124
June-23	8.6	4.53	136
July-23	11.9	5.00	155
August-23	16.4	5.03	156
September-23	12.7	4.97	149
October-23	17.6	5.14	159
November-23	6.1	4.75	143
December-23	5.3	4.88	151
January-24	4.0	4.93	153
February-24			
March-24			
April-24			
May-24			
June-24			
July-24			
August-24			
September-24			
October-24			
November-24			
December-24			



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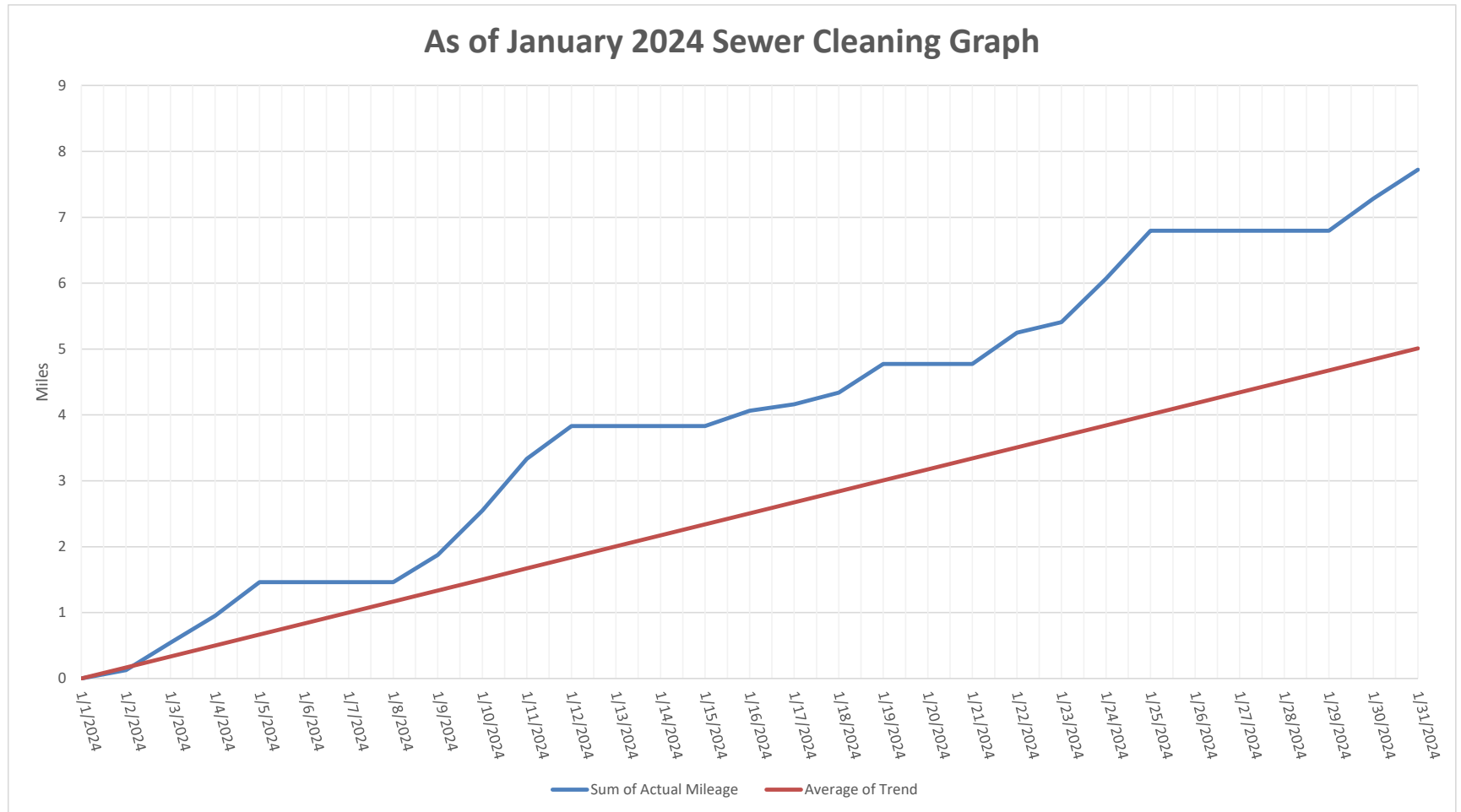
Guam Waterworks Authority		Date: 1/8/2024		 WASTEWATER FACILITIES REPORT									
REVIEWS				OVERALL AVERAGE									
TOTAL PUMPS INSTALLED	186			83%									
TOTAL PUMPS OPERATIONAL	155			83%									
TOTAL PUMP STATIONS	84												
Northern District													
NO:	FACILITY	PRIORITY LISTED	NO OF INSTALLED PUMPS	NO OF OPERATIONAL PUMPS	PUMP AVAILABILITY %	GENERATOR OPERATIONAL FAULT	ATS MANUAL/AUTO	PUMP UNIT REMARKS	WORK ORDER NO:	VALVES, ELECTRICAL, STRUCTURAL REMARKS	WORK ORDER NO:	ESTIMATED REPAIR DATE	UPDATES
1	SOUTHERN LINK	1	4	4	100%	GPA	A	Pump #4 is on standby and will be used for emergencies as per plan					
2	FUJITA	1	4	2	50%	GPA	A	Pump #2 was removed 11/3/22 due to seal failure. Using impeller from #2 on #4. 6/12/23, Pump #3 was connected to VFD #4 due to Pump #4 has a bearing issue, pump delivered to vendor 9/12 for repairs.	P#2 WO 1323701 P#4 WO 1376739	VFD #2 and #3 are inoperable and in need of replacement. (PIT are working on new replacement)			P#2 OR 54967 (pending PO) Impeller PO 502226 (ETA Jan 2024) P#4 PO 502730
3	YPAO	1	2	2	100%	GPA	A						
4	PASEO DE ORO	1	2	1	50%	GPA	A	Pump #1 was removed due to seal failure.					OR 55164 (pending PO)
5	HARMON	2	2	2	100%	GPA	A						
	ROUTE 16	1	4	1	25%	GPA	M	2/3/24, P#1 was secured due to seal failure. P#3 secured 9/15/22 due to damaged volute and defective check valve. #4 was secured, using VFD at Agana Main PS.	P#3 WO #1332734	VFD #3 needs to be relaced. (PIT are working on new replacement)			P#1 OR 55297 (pending PO) Volute OR 54968 (pending PO)
7	LATTE DOUBLE TROUBLE	1	2	2	100%	GPA	A	12-2-21, pump #1 was removed and brought to maintenance due to broken impeller and bearing issue. Pump was delivered to vendor for repairs.	WO #1249603				PO 501910 repairs have been on hold due to prioritizing other stations.
8	LATTE SUN RISE	2	2	1	50%	GPA	A	7/31/23, Pump #1 was removed due to seal failure.	WO #1384262				OR 54657 (pending PO)
9	LATTE SUBMARINE	2	2	2	100%	GPA	A						
10	LATTE PLANTATION	2	2	2	100%	GPA	A						
11	PGD	2	2	2	100%	GPA	A						
12	MACHECHE	2	2	2	100%	GPA	A						
13	HABA ADAI	2	2	1	50%	GPA	A	Pump #2 was removed due to motor was grounded.					OR 55163 (pending PO)
14	YPAOPA	1	3	2	67%	GPA	N/A	7/5/23 Pump #1 shorted as per electricians.	WO #1376323				P#1 OR54701 (pending PO)
15	PACIFIC LATTE	2	2	2	100%	GPA	A						
16	YIGO	1	3	2	67%	GPA	A	Pump #2 was removed on 4/28 due to motor was grounded as per electricians. Transferred pump #1 to line #2 due to issues with #1 soft starter, pending electricians.	WO #1360516				PO 502434 Pump delivered to vendor 7/11/23
17	ZERO DOWN	2	2	2	100%	GPA	A						
18	SANTA ANA	2	2	2	100%	GPA	A						
19	MACHANAONAO	1	2	2	100%	GPA	A						
20	FEMA 96	2	2	2	100%	GPA	A						
21	ASTUMBO 1	2	2	1	50%	GPA	A	7/7/23, electricians tested #2 and found motor was grounded. Delivered to vendor 9/12. 7/30/23, Electrician found pump #1 open windings.	P#1 WO #1383026 P#2 WO #1376890				P#1 OR 54658 (pending PO) P#2 PO 502733
22	ASTUMBO 2	2	2	1	50%	GPA	A	7/31/23, pump 1 was removed and installed at Astumbo #1 due to pump failure.					
Total	22		52	40	77%								

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Central District													
NO:	FACILITY	PRIORITY LISTED	NO OF INSTALLED PUMPS	NO OF OPERATIONAL PUMPS	PUMP AVAILABILITY %	GENERATOR OPERATIONAL FAULT	ATS MANUAL/ AUTO	PUMP UNIT REMARKS	WORK ORDER NO:	VALVES, ELECTRICAL, STRUCTURAL REMARKS	WORK ORDER NO:	ESTIMATED REPAIR DATE	UPDATES
1	CABRAS ISLAND	1	2	2	100%	Portable	M						
2	COMMERCIAL PORT	1	3	3	100%	OP	A						
3	PITI	1	2	2	100%	GPA	A	New pump was installed. Still pending OR for repair on pump.					OR 54856 (pending PO)
4	ASAN	1	2	2	100%	GPA	A						
5	SINAJANA	2	2	2	100%	GPA	A						
6	NEW CHAOT	1	3	2	67%	OP	A	Pump #2 was removed and brought to maintenance 2/18/22 due to broken pump shaft. Maintenance team is in the process of repiping lines for a new installation.	WO #1266707				Working with Engineering for station upgrades (CIP write up with procurement for review.)
7	ORDOT	2	2	2	100%	OP	A						
8	DERO	1	2	2	100%	OP	A						
9	CHALAN PAGO #5	2	2	1	50%	OP	A	6/3/23, Pump #1 was removed due to grounded motor. Pump was delivered to vendor for repairs 8/31	WO #1370938				PO 502639
10	CHALAN PAGO #3	2	2	2	100%	OP	A						
11	FLORA GARDENS	2	2	2	100%	INOP	A						
12	DOUBLE SHAFT	1	3	3	100%	OP	A						
13	NAMU	2	1	1	100%	OP	A						
14	TAI MANGILAO	1	3	2	67%	GPA	A	Pump #1 was removed and brought to maintenance 5/12/22 due to mechanical seal issue. Pump was delivered to vendor. Pending parts.	WO #1285248				PO 501491 repairs have been on hold due to prioritizing other stations.
15	MANGILAO	1	2	2	100%	GPA	A			Breaker for sump pump is defective			
16	FIDIAN	2	2	2	100%	GPA	A						
17	LEYANG	2	2	2	100%	OP	A						
18	SAGAN BONITA 1	2	2	2	100%	OP	A						
19	SAGAN BONITA 2	2	2	1	50%	OP	A	Electricians tested Pump #1 and found pump to be grounded.					OR 54742 (pending PO)
20	DAIRY	1	2	2	100%	INOP	A						
21	BARRIGADA	1	2	2	100%	GPA	A						
22	TOTO GARDENS	2	2	2	100%	INOP	A						
23	MONGMONG	2	2	2	100%	OP	A						
24	CASIMERU	2	2	1	50%	Portable	A	Pump #1 was removed 11/30/22 and brought to maintenance due to grounded motor as per electricians. Pump was delivered to vendor for repairs.	WO #1330100				PO 502059 repairs have been on hold due to prioritizing other stations.
25	MAITE	2	2	2	100%	GPA	A						
26	BAYSIDE	2	2	2	100%	INOP	A						
27	ALUPANG	1	2	2	100%	OP	A						
28	MAMAJANAO	1	3	2	67%	OP	A	Pump #2 was removed 12/11/22 due to seized impeller. Need to replace bearing. Pump was delivered to vendor. Pump is being worked on.	WO 1332262				PO 502000 repairs have been on hold due to prioritizing other stations.
29	AGANA MAIN	1	4	2	50%	OP	A	P4 is on Line # 2 / awaiting line 4 riser to be cleaned. Pump #1 was secured due to burnt VFD.	WO #1384376	5/27/23, VFD #1 burnt. 5/29/23, VFD #3 burnt. (PTT are working on new replacement)			
30	LOWER SUNSET	2	2	1	50%	N/A	N/A	Pump #1 in operation. Pump #2 needs to be replaced.					
Total	30		66	57	86%								

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Southern District														
NO:	FACILITY	PRIORITY LISTED	NO OF INSTALLED PUMPS	NO OF OPERATIONAL PUMPS	PUMP AVAILABILITY %	GENERATOR OPERATIONAL FAULT	ATS MANUAL/AUTO	PUMP UNIT REMARKS	WORK ORDER NO:	VALVES, ELECTRICAL, STRUCTURAL REMARKS	WORK ORDER NO:	ESTIMATED REPAIR DATE	UPDATES	
1	GAAN #1	1	4	3	75%	OP	MAN	Pump #1 is available, pending VFD		#2/#5 VFDs are defective due to burnt IGBT and power cards. Currently using VFD from Southern Link for #5			VFDs replacement Bid is in process	
2	PUMP STATION #11	2	2	2	100%	INOP	AUTO							
3	PUMP STATION #12	1	2	2	100%	OP	AUTO							
4	PUMP STATION #14	2	2	2	100%	OP	AUTO							
5	PUMP STATION #15	1	2	2	100%	INOP	AUTO							
6	PUMP STATION #16	2	2	2	100%	OP	AUTO							
7	PUMP STATION #17	2	2	2	100%	OP	AUTO							
8	PUMP STATION #18	2	2	2	100%	OP	AUTO							
9	INARAJAN MAIN	1	2	2	100%	OP	AUTO							
10	INARAJAN LIFT	1	2	2	100%	OP	AUTO							
11	TALAFORO	1	2	2	100%	OP	AUTO							
12	PAGACHAO	2	2	1	50%	NONE	NA	Pump 1 was removed and brought to maintenance due to pump is grounded.					pending OR	
13	CHALIGAN	2	2	2	100%	OP	MAN							
14	EJECTOR #2	2	2	1	50%	PORTABLE /INOP	NA	Motor #2 was deemed grounded. Pending maintenance team for removal.					OR 55165 (pending PO)	
15	EJECTOR #3	2	2	1	50%	PORTABLE /INOP	NA	Compressor #2 secured due to compressor not building air.	WO #1377595				OR 55165 (pending PO)	
16	EJECTOR #4	2	2	1	50%	PORTABLE /INOP	NA	#1 compressor was removed 3/9/23 due to not holding air	WO #1382545				OR 55165 (pending PO)	
17	EJECTOR #5	2	2	1	50%	PORTABLE/INOP	NA	#2 compressor was removed and brought to ejector 7.					OR 55165 (pending PO)	
18	EJECTOR #6	2	2	2	100%	PORTABLE/INOP	NA	#2 on standby due to main breaker needs to be upgraded.						
19	EJECTOR #7	2	2	2	100%	PORTABLE/INOP	NA	#1 on standby due to main breaker needs to be upgraded.						
20	NORTH REYES	2	2	2	100%	PORTABLE/INOP	NA							
21	LEYON #3 (DanDan)	2	2	2	100%	OP	MAN							
22	LEYON #4	2	2	2	100%	OP	AUTO							
23	MTL PUMP STATION	2	1	1	100%	PORTABLE/INOP	NA							
24	Baza P/S	1	3	2	67%	OP	AUTO	66066 installed on line #1. 66068 was installed on unit #3. 66067 is currently installed at Windward Hills PS (needs to be removed due to moisture sensor activated). 66069 was removed on 1/8/24 due to seal failure.						
25	Windward Hills	1	3	2	67%	OP	AUTO	8/1/23, 61079 was removed and brought to maintenance due to bearing issues. Repairs were made on rebuild but during installation on 9/1, found that motor needs rewinding. 61105 was removed and brought to vendor for repairs 9/2. 61106 is currently installed on unit #2. 61107 was removed 9/29 and brought to maintenance shop due to low megger and seal failure.	61079 - WO #1335584 61105 - WO #1380258 61107 - WO #1398233	PO 501369 for valves (pending approval)		61079 OR 54520 (pending PO) 61105 PO 502688 61107 OR 54740 (pending OR)		
26	Aplacho	1	3	2	67%	OP	AUTO	7028 was removed due to grounded motor and delivered to vendor for repairs 8/31. 7030 was removed due to grounded motor and delivered to vendor for repairs 8/31. New pump was installed due to motors in need of repairs.	7028 - WO #1374946 7030 - WO #1374300			7027 - PO 502612 7028 - PO 502613 7030 - PO 502615		
27	Ladera #1	2	2	2	100%	PORTABLE	MAN							
28	Ladera #2	2	2	2	100%	PORTABLE	MAN							
29	Ayuyu	2	2	1	50%	PORTABLE	MAN	Pump #1 was removed and is currently installed at Leyang PS. Needs rewind due to motor grounded. Pump is at maintenance.					OR 54764 (pending PO)	
30	Tenorio	2	2	2	100%	PORTABLE	MAN							
31	Taitague	2	2	2	100%	PORTABLE	MAN							
32	Hyundai	2	2	2	100%	OP	AUTO							
32			68	58	85%									



Row Labels	Total Mileage of Sewer Lines Cleaned	Required Mileage of Sewer Lines to be Cleaned	Percent Completion
2024-01	7.67	5.21	147.2%
Grand Total	7.67	5.21	147.2%

→6,207 ft / 5 days = 1,241.4 ft required to be completed daily