



**CONSOLIDATED COMMISSION ON UTILITIES**

Guam Power Authority | Guam Waterworks Authority  
P.O. Box 2977 Hagatna, Guam 96932 | (671) 648-3002 | [guamccu.org](http://guamccu.org)

**GUAM WATERWORKS AUTHORITY WORK SESSION**

*CCU Conference Room*

*4:30 p.m., Tuesday, September 21, 2021*

**AGENDA**

1. **CALL TO ORDER**
2. **ISSUES FOR DECISION**
  - 2.1 **Approval of Legislation Authorization to Set-Up Tax Exempt Commercial Paper Program / Resolution No. 28-FY2021**
  - 2.2 **Approval of Amendment for the Indefinite Delivery/Indefinite Quantity Professional Project/Construction Management Services Contract / Resolution No. 29-FY2021**
3. **GM REPORT**
  - 3.1 **GM Summary**
4. **ISSUES FOR DISCUSSION**
5. **OTHER DISCUSSION**
  - 5.1 **CCU Rules Update**
6. **DIVISION REPORTS**
  - 6.1 **Communications**
  - 6.2 **Compliance & Safety**
  - 6.3 **Customer Service**
  - 6.4 **Engineering**
  - 6.5 **Finance**
  - 6.6 **Operations**
7. **ANNOUNCEMENTS**
  - 7.1 **Next CCU Meetings: GPA Work Session: Sept. 23; CCU Regular Monthly Mtg.: Sept. 28**
8. **ADJOURNMENT**



Gloria B. Nelson Public Service Building | 688 Route 15 | Mangilao, Guam 96913  
Tel: (671) 300-6846

## **Issues for Decision**

### **Resolution No. 28-FY2021**

Relative to Additional Borrowing Authority and Establishment of GWA Commercial Paper Program

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

The Authority has all but exhausted its current borrowing authority and must plan for the next set of CIPs in its Master Plan, in particular, the projects that are likely to be included in the upcoming USEPA consent decree. Given the increasing cost of construction, GWA management is seeking additional borrowing authority for up to \$300 million.

Including a Commercial Paper (CP) Program in GWA's integrated financing strategy, as discussed in the PUC FY20 Rate Order and the GWA Capital Financing Alternatives Study, has the potential to reduce debt service requirements.

#### **Where is the location?**

The financing will support CIP projects throughout the island.

#### **How much will it cost?**

The borrowing costs of the bonds will be dependent on market conditions at the time of issuance. The cost of the Series 2020 resulted in coupon rates of 4% and an all in TIC (True Interest Cost) of 4.587%.

The interest rates on CP are based Federal Reserve Board publications which use data for certain trades to estimate a relation between interest rates on the traded securities and their maturities, with the final pricing on CP based on the specific short-term credit rating of the issuer. Normally, the cost of CP is calculated using the CP index, plus a spread for credit support in the form of a letter of credit (L/C) and a remarketing fee. The dealer fee, for rate setting and dealer services, is based on market conditions and is in the range of 5 to 15 basis points. There are additional fees for obtaining a credit rating, as CP is generally rated.

#### **When will it be completed?**

We hope to have legislation in place by the end of January 2022.

#### **What is the funding source?**

GWA Operating Revenues are the pledged funding source to pay debt service, interest and related fees.

#### **The RFP/BID responses (if applicable):**

Not applicable



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**GWA RESOLUTION NO. 28-FY2021**

**RELATIVE TO ADDITIONAL BORROWING AUTHORITY AND ESTABLISHMENT  
OF COMMERCIAL PAPER 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**, GWA has all but exhausted its current borrowing authority and will need to plan for the next tranche of CIP projects in the Master Plan and, in particular, plan for those projects that are likely to be part of the upcoming Consent Decree with the US Environmental Protection Agency (USEPA); and

**WHEREAS**, GWA will seek authorization for additional financing of up to \$300 Million to fund these critical projects to comply with the Federal Clean Water Act and the Safe Drinking Water Act as well as to improve service to our ratepayers and efficiency in our Agency; and

**WHEREAS**, in GWA Docket 19-08 FY20 Rate Decision, the Guam Public Utility Commission (PUC) ordered GWA to undertake various analytical studies, including Financing & Alternatives to Bond Issuance, to support an FY2022 Comprehensive Review and Update to GWA’s Five-Year Financial Plan; and

**WHEREAS**, the Capital Financing Alternative Study was submitted as required to the PUC on March 31, 2021; and

1       **WHEREAS**, the Capital Financing Alternatives Study and the FY20 Rate Decision  
2 recognize as part of an integrated financing strategy, given favorable markets conditions, a Tax-  
3 Exempt Commercial Paper (TECP) Program could be used for the short-term financing of  
4 project construction and other qualified project costs; and

5  
6       **WHEREAS**, short-term construction period financing could allow GWA to borrow at  
7 lower, short term interest rates closer to the time of cash disbursement and issue permanent long-  
8 term bonds closer to the end of project construction; and

9  
10       **WHEREAS**, short term borrowing will generally lower near-term debt service  
11 requirements; and

12  
13       **WHEREAS**, while issuance of TECP is allowed under Guam law, legislative  
14 authorization in addition to approvals from the Consolidated Commission on Utilities, Guam  
15 Economic Authority and Public Utilities Commission are required; and

16  
17       **WHEREAS**, Bond Counsel has provided draft legislation to establish a GWA  
18 Commercial Paper Program;

19  
20       **NOW BE IT THEREFORE RESOLVED**, the Consolidated Commission on Utilities  
21 does hereby approve the following:

- 22       1. The recitals set forth above hereby constitute the findings of the CCU.  
23       2. The CCU finds that funding should be identified for the next set of projects in  
24       the Master Plan and in particular those projects likely to be included in the  
25       upcoming USEPA Consent Decree.  
26       3. The CCU finds that a TECP Program, given appropriate market conditions,  
27       could be advantageous by reducing debt service requirements.  
28       4. The CCU hereby authorizes GWA management to seek all legislative  
29       authorization needed for the establishment of a TECP Program.  
30       5. The CCU hereby authorizes GWA management to seek legislative  
31       authorization for short term TECP financing and corresponding long term

Bond financing of up to \$300 million for GWA's approved capital improvement program.

6. The CCU hereby further authorizes the management of GWA to seek the necessary approvals from the Guam Economic Development Authority and the Public Utilities Commission for additional authorization to finance up to \$300 million as well as the establishment of a Commercial Paper Program.

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

**DULY AND REGULARLY ADOPTED**, this 28<sup>th</sup> day of September 2021.

Certified by:

Attested by:

\_\_\_\_\_  
**JOSEPH T. DUENAS**

Chairperson

\_\_\_\_\_  
**MICHAEL T. LIMTIACO**

Secretary

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**SECRETARY'S CERTIFICATE**

I, Michael T. Limtiaco, 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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## Issues for Decision

### Resolution No. 29-FY2021

Relative to approval of Amendment No. 2 of Task Order No. 3 (Route 1 Sewer Rehabilitation) and Amendment No. 4 of Task Order No. 4 (SSES Phase II Sewer Rehabilitation) for the Indefinite Delivery/Indefinite Quantity (IDIQ) Professional Project/Construction Management Services Contract, and approval of Amendment to Owner-Engineer Agreement No. 4 and change order of the IDIQ Professional Project/Construction Management Services Contract.

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

GWA currently has an IDIQ contract with Brown and Caldwell (BC). Amendment No. 2 to Task Order No. 3 extends the contract time to align with the project's forecasted completion date of December 2022 and includes adding project management and contract management services for the Rt.1 Phase 2 construction (on-going). The amount of increase is \$141,435.00.

Amendment No. 4 to Task Order No. 4 extends the contract time to align with the project's current construction schedule. Due to permitting delays, the original construction completion date has passed and construction is now scheduled to be completed on December 17, 2021. This amendment to Task Order No. 4 extends BC's services to December 31, 2021 and increases the Task Order budget by \$95,964.00 (excluding tax) on a Time and Materials basis to cover project and contract management effort throughout this extension. Additionally, this amendment to Task order No. 4 includes additional survey work needed to complete the transfer of easements for the sewer forcemain in the amount of \$8,800.00 (excluding tax).

### Where is the location?

Task Order No. 3 construction is located along Route 1 from Asan-Adelup to the Hagatna Sewer Pump Station. Task Order No. 4 construction is located at Lemai Drive, Santa Rita in the Hyundai Subdivision.

### How much will it cost?

The cost for Amendment No. 2 to Task Order No. 3 is \$141,435.00 and the cost for Amendment No. 4 to Task Order No. 4 is \$110,002.00 (including tax). Therefore, the total cost of Amendment to Owner-Engineer Agreement No. 4 and change order to the IDIQ Contract is \$251,437.00.

The current authorized IDIQ contract amount is \$2,296,795.00. In total, an additional \$251,437.00 will be added to the IDIQ Contract to cover the proposed amendments for Task Order Nos. 3 and 4 that will increase the IDIQ contract amount to \$2,548,232.00.

Task Orders, and their amendments, issued to date include:

- Task Order No.1 – Consulting Engineer's Report
  - Amendment No.1 – Clarification relative to the Municipal Advisor Disclosure
  - Amendment No.2 – Increase in scope for additional draft reports, updating financial projections, and evaluation of COVID-19 impacts on the financial projections.

- Amendment No.3 – Increase in scope to address continuing development of changes required to the financial plan to adequately address the COVID-19 impacts, additional financial analysis and report modifications.
  - Amendment No.4 – Increase in scope to add task for assistance with and attendance at the individual investor meetings.
- Task Order No.2 – Project/Contract Management for Rt.4 Sewer Rehabilitation
  - Amendment No.1 – Extension of performance time and associated increase in total fee due to construction period extensions.
- Task Order No.3 – Project/Contract Management for Rt.1 Sewer Rehabilitation
  - Amendment No.1 – Extension of performance time and associated increase in total fee due to construction period extensions; plus increasing the scope to provide PM/CM for construction of the Adelup to Hagatna section.
  - Proposed Amendment No. 2 – Extends the contract time to align with the project's current construction schedule which increases the Task Order budget by \$141,435 to cover project and contract management effort.
- Task Order No.4 – Project/Construction Management for SSES phase 2 Hyundai Subdivision Lift Station
  - Amendment No.1 - Extension of performance time and associated increase in total fee due to construction delays; plus adding archaeological services to the scope of work.
  - Amendment No.2 – Extension of performance time (no-cost change order).
  - Amendment No.3 – Extension of performance time (no-cost change order).
  - Proposed Amendment No. 4 – Extends the contract time to align with the project's current construction schedule which increases the Task Order budget by \$95,964 to cover project and contract management effort. Additional survey work needed to complete the transfer of easements for the sewer forcemain in the amount of \$8,800.
- Task Order No.5 - Cost of Service Study (PUC Stipulation)
- Task Order No.6 – Water Meter Technical Assistance
- Task Order No.7 – Consent Decree and Hydraulic Modeling Assistance
- Task Order No.8 – Water Resources Master Plan Interim Update

**When will it be completed?**

Task Order No. 3 is anticipated to be completed by December 31, 2022.

Task Order No. 4 is anticipated to be completed by December 31, 2021.

**What is the funding source?**

The funding source will be from the USEPA Grant Funds.

**The RFP/BID responses (if applicable):**

RFP-04-ENG-2019, Management Services





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**GWA RESOLUTION NO. 29-FY2021**

**RELATIVE TO APPROVAL OF AMENDMENTS FOR THE INDEFINITE  
DELIVERY/INDEFINITE QUANTITY PROFESSIONAL PROJECT/CONSTRUCTION  
MANAGEMENT SERVICES CONTRACT**

**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 awarded an Indefinite Delivery – Indefinite Quantity (ID-IQ) contract to Brown and Caldwell for Project Management /Construction Management services in the maximum amount of Seven Hundred Fifty Thousand Dollars (\$750,000.00); and

**WHEREAS**, GWA amended the Brown and Caldwell IDIQ for Project Management/Construction Management services under Resolutions 21-FY2020, 28-FY2020, 36-FY2020, and 22-FY2021 to increase the maximum amount to Two Million Two Hundred Ninety-Six Thousand Seven Hundred Ninety-Five Dollars (\$2,296,795.00) to execute eight (8) Task Orders; and

**WHEREAS**, United States Environmental Protection Agency (USEPA) grant funds cover the cost of Task Orders 3 and 4 and their subsequent amendments issued to Brown and Caldwell under this IDIQ to manage and complete two USEPA grant-funded construction projects, and they are the Route 1 Sewer Line Rehabilitation and Replacement project and the Southern SSES Rehabilitation Phase 2 project respectively; and

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1       **WHEREAS**, due to delays in construction and increase in scope of work of Route 1  
2 Sewer Line Rehabilitation and Replacement and the Southern SSES Rehabilitation Phase 2  
3 projects, Amendment 2 to Task Order 3 (See Exhibit A) and Amendment 4 to Task Order 4 (See  
4 Exhibit B) to the IDIQ contract are needed to increase contract time and funding to continue  
5 managing and providing services to complete the construction projects; and

6  
7       **WHEREAS**, GWA has received approval from USEPA to use USEPA grant funds to  
8 cover the costs of Task Order 3 Amendment 2 (See Exhibit D) and Task Order 4 Amendment 4  
9 (See Exhibit E); and

10  
11       **WHEREAS**, management seeks CCU approval of Amendment to Owner-Engineer  
12 Agreement No. 4 (See Exhibit C) to the IDIQ contract to execute the proposed amendments; and

13  
14       **WHEREAS**, the total amount of the Task Order 3 Amendment 2 is One Hundred Forty-  
15 One Thousand Four Hundred Thirty-Five Dollars (\$141,435.00) and the total amount of Task  
16 Order 4 Amendment 4 is One Hundred Ten Thousand Two Dollars (\$110,002.00) for a total of  
17 Two Hundred Fifty-One Thousand Four Hundred Thirty-Seven Dollars (\$251,437.00); and

18  
19       **WHEREAS**, Amendment to Owner-Engineer Agreement No. 4 will increase the current  
20 authorized IDIQ contract amount of Two Million Two Hundred Ninety-Six Thousand Seven  
21 Hundred Ninety-Five Dollars (\$2,296,795.00) by an additional Two Hundred Fifty-One  
22 Thousand Four Hundred Thirty-Seven Dollars (\$251,437.00), for a new total contract amount of  
23 Two Million Five Hundred Forty-Eight Thousand Two Hundred Thirty-Two Dollars  
24 (\$2,548,232.00); and

25  
26       **WHEREAS**, funding for the amendment will be USEPA grant funds applicable to the  
27 project.

28 //

29  
30 //

**NOW BE IT THEREFORE RESOLVED**, that the Consolidated Commission on Utilities does hereby approve the following:

1. The recitals set forth above hereby constitute the findings of the CCU.
2. The CCU hereby approves the funding increase for additional project and contract support services for the current Route 1 Sewer Line Rehabilitation and Replacement, and the Southern SSES Rehabilitation Phase 2 Projects in the amount of Two Hundred Fifty-One Thousand Four Hundred Thirty-Seven Dollars (\$251,437.00) (Exhibits A and B).
3. The CCU hereby further approves the total funding authorization for the IDIQ contract with Brown and Caldwell to an amount of Two Million Five Hundred Forty-Eight Thousand Two Hundred Thirty-Two Dollars (\$2,548,232.00).
4. The CCU hereby further approves management to pursue notification to the PUC for a contract exceeding One Million Dollars (\$1,000,000.00) that will be increased by a change order funded entirely by USEPA grant funds, with no portion of the change order amount funded by bonds or other GWA funds.

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

**DULY AND REGULARLY ADOPTED**, this 28<sup>th</sup> day of September, 2021.

Certified by:

Attested by:

\_\_\_\_\_  
**JOSEPH T. DUENAS**  
Chairperson

\_\_\_\_\_  
**MICHAEL T. LIMTIACO**  
Secretary

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**SECRETARY'S CERTIFICATE**

I, Michael T. Limtiaco, 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

This is **EXHIBIT K**, consisting of 4 pages, referred to in and part of the **Agreement between Owner and Engineer for Professional Services – Task Order Edition** dated June 27, 2019.

## **Amendment No. 2 To Task Order No. 3**

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### **1. Background Data:**

- a. Effective Date of Task Order: January 22, 2020
- b. Owner: Guam Waterworks Authority
- c. Engineer: Brown and Caldwell
- d. Specific Project: Project/Contract Management for Asan-Adelup-Hagatna, Route 1 Sewer Line Rehabilitation and Replacement (SRF Grant Project)

### **2. Description of Modifications**

a. The original Task Order included Engineering Services to progress the Adelup to Hagatna section of sewer rehabilitation (phase 2) through the re-design and bidding stages to award a construction contract. Amendment No. 1 expanded the scope of work under Task Order No. 3 and extended the Engineering Services for Adelup to Hagatna - to include Project Management services throughout the construction phase of the Adelup to Hagatna section of sewer rehabilitation under a new Task #4 and include extending services under Task 1 – Task Management. Amendment No.1 to Task Order No.3 also extended the duration of work under Task 2 – Project/Contract Management-Asan to Adelup – to align with the current construction completion schedule. Construction of the Asan to Adelup section of sewer rehabilitation (phase 1) had numerous challenges resulting in delays and time extensions for the construction period that pushed completion past the schedule provided for in Amendment No.1 to Task Order No.3. Hence, project management costs increased for phase 1.

Furthermore, Amendment No. 1 anticipated construction of phase 2 would be completed by December 31, 2021, however, the construction contract awarded for phase 2 included a greater scope (through funding of all additive bid items not previously expected) and provides for a contract completion date of April 21, 2023. In order to continue project management services through phase 2 construction, and to account for the delays to complete phase 1 construction, Task Order No. 3 is hereby amended through Amendment No. 2. The revised Task Order completion date is December 31, 2022 and coincides with the contractor's current construction schedule.

- b. The Engineer shall perform the following additional services:
  - 1. Extend the duration of Task 1: Management Services to provide additional time and effort to complete the project. The extended project duration is through December 31, 2022.
  - 2. Extend the duration of Task 2: Project Management to provide additional time and effort to continue the active construction work on the Asan to Adelup sewer rehabilitation contract with InfraTech International, Inc. (phase 1) through the construction completion date of

June 2021 and allow contract close-out effort. In addition, extend the duration of Task 2 to provide additional time and effort to manage the Adelup to Hagatna sewer rehabilitation project (phase 2) construction through its anticipated completion date of December 31, 2022.

3. Extend the duration of Task 4: Contract Management Services for the Adelup to Hagatna segment of sewer rehabilitation (phase 2) to be constructed under GWA's contract with Core-Tech/Hawaiian Dredging LLC. It is anticipated that the duration of Task 4 will continue through December 31, 2022 (excluding close-out activities). Task 4 Services will include:
  - A. The Engineer will manage the project and its contracts for the Phase 2 Adelup-Hagatna segment of the Asan-Adelup-Hagatna, Route 1 Sewer Line Rehabilitation and Replacement construction project through closeout. The Engineer will provide project management oversight and technical subject matter expertise for the subject project including GWA's Phase 2 construction management consultant, the construction contractor, and GWA's contract with HDR for engineering support services during construction. The Engineer will handle consultant and contractor payment requests and substantiate documentation for pay requests. The Engineer will perform contract management, monitor contractor work plans, review cost breakdowns and schedules of values, attend meetings with USEPA and contractor, verify as-built drawings are being prepared by others, and submit final copies of work products to GWA and USEPA. The Engineer will perform Change Order management and provide advance notification of change conditions and budget category transfer request to USEPA and seek USEPA approvals. The Engineer will assist GWA in issuing a letter at the close of the project certifying that the project meets or does not meet project performance standards. Corrective action reports and cost estimates for corrective action will be prepared, along with a schedule for corrective action. The Engineer will assist GWA in meeting Federal cost-cutting requirements and conformance compliance with Federal regulations. The Engineer will help GWA obtain correct Davis Bacon prevailing wages determinations and assist in monitoring for Davis Bacon compliance, as requested by GWA.
  - B. Work to be performed:
    - Control cost and manage the construction budget, and the CM budget
    - Facilitate project team cooperation and input
    - Maintain project files
    - Review invoices and recommend payment, verify quantities
    - Manage contractor contracts
    - Manage construction manager contract
    - Monitor Progress schedules
    - Perform random periodic site visits on an as-needed basis
    - Track RFI's, RFP's, FO's, change orders, shop drawings and other submittals
    - Conduct claims analysis and claims resolution
    - Determine substantial completion and prepare list of incomplete or unsatisfactory items and a schedule for their completion
    - Ensure appropriate level of communication and public outreach
    - Deliver all project files to GWA digitally archived and one hard copy of relevant documents
    - Deliver as-built record drawings to GWA

- c. The Schedule for Rendering services under this Task Order is modified as follows:

<u>Party</u>	<u>Action</u>	<u>Scheduled Completion Date per Amendment No. 1</u>	<u>Revised Completion Date this Amendment</u>
Engineer	Task 1 – Task Management	December 30, 2021	December 31, 2022
Engineer	Task 2 – Project Management – Asan to Hagatna	October 1, 2020	June 30, 2021
Engineer	Task 3 – Contracting Assistance – Adelup to Hagatna	Completed	No changes
Engineer	Task 4 – Contract Management (Phase 2) – Adelup to Hagatna	December 30, 2021	December 31, 2022

- d. For the Additional Services set forth above, Owner shall pay Engineer the following additional compensation:

Description of Service	Additional Amount	Basis of Compensation
1. Basic Services		
a. Task 1 – Task Management	\$616	Lump Sum
b. Task 2 – Contract Management – Asan to Adelup (phase 1)	\$52,686	Lump Sum
c. Task 2 –Project Management – Adelup to Hagatna (phase 2)	\$3,144	Lump Sum
d. Task 3 – Contracting Assistance – Adelup to Hagatna	\$0	Remaining funds to be applied to Task 4
e. Task 4 – Contract Management – Adelup to Hagatna (phase 2)	\$75,810	Lump Sum
f. Expenses	\$863	Lump Sum
g. GRT	\$7,017	Lump Sum
<b>TOTAL ADDITIONAL COMPENSATION (lines 1.a-g)</b>	<b>\$141,435</b>	

### 3. Task Order Summary (Reference only)

- |    |                                  |           |
|----|----------------------------------|-----------|
| a. | Original Task Order amount:      | \$209,780 |
| b. | Net change for prior amendments: | \$266,270 |
| c. | This amendment amount:           | \$141,435 |
| d. | Adjusted Task Order amount:      | \$617,485 |

The foregoing Task Order Summary is for reference only and does not alter the terms of the Task Order, including those set forth in Exhibit C.

Owner and Engineer hereby agree to modify the above-referenced Task Order as set forth in this Amendment. All provisions of the Agreement and Task Order not modified by this or previous Amendments remain in effect. The Effective Date of this Amendment is June 30, 2020.

OWNER:

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date \_\_\_\_\_

Signed: \_\_\_\_\_

ENGINEER:

By:  \_\_\_\_\_

Title: Sr. Vice President \_\_\_\_\_

Date August 23, 2021 \_\_\_\_\_

Signed: \_\_\_\_\_



# EXHIBIT B

This is **EXHIBIT K**, consisting of 2 pages, referred to in and part of the **Agreement between Owner and Engineer for Professional Services – Task Order Edition** dated June 27, 2019.

## **Amendment No. 4 To Task Order No. 4**

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### **1. Background Data:**

- a. Effective Date of Task Order: January 22, 2020
- b. Owner: Guam Waterworks Authority (GWA)
- c. Engineer: Brown and Caldwell (BC)
- d. Specific Project: Project/Contract Management for Southern SSES Rehabilitation – Phase 2 (Baza Gardens-Santa Rita-Talofofo) (SRF Grant Project)

### **2. Description of Modifications**

a. The original Task Order and its Amendments Nos. 1, 2, and 3 included Engineering Services to manage the project and construction of the Hyundai Subdivision lift station and archaeological services for the on-going Southern SSES Rehabilitation – Phase 2 (Baza Gardens-Santa Rita-Talofofo) construction project through close-out. Construction has fallen behind schedule in part from COVID-19 restrictions, contractor's tardiness in completing design, and from the length of time taken to secure permits, right-of-way, and environmental and archaeological clearances and approvals. These lengthy elements have put the project further behind schedule and has caused a delay in the progress of the project. Construction Notice to Proceed was issued to the contractor on April 26, 2021 with a contract duration of 235 calendar days, which results in construction completion no later than December 17, 2021. The current Task Order completion date is September 30, 2021. BC's current lump sum budget to continue the project beyond the current completion date is projected to be exhausted on September 30, 2021. To cover the remaining work between October 1 and December 31, 2021, BC proposes that the remaining PM and CM services be paid on a time and material basis not to exceed \$95,964.00 after the current lump sum fee is consumed.

Additionally, GWA requested that BC arrange for a deletion of easement mapping services for the easement transfer in Lot 238-2A-R4. The cost for this additional surveying scope of work is \$8,800.

For these reasons, this Amendment No. 4 to Task Order No. 4 extends the completion date and increases the budget of the Task Order to continue project and construction management to complete the active construction contract on a time and materials basis not exceed \$95,964.00, plus GRT. This amendment also increases the scope of work to include surveying services in the amount of \$8,800, plus GRT. This Amendment No. 4 extends the Engineering Services to align with the current construction schedule. All Tasks described in the original Task Order and as Amended remain in effect and are extended under this Amendment No. 4 to Task Order No. 4 through December 31, 2021.

- b. The Schedule for Rendering services under this Task Order is modified as follows:

<u>Party</u>	<u>Action</u>	<u>Previously Amended Completion Date</u>	<u>Revised Completion Date</u>
Engineer	Task 1 – Task Management	September 30, 2021	December 31, 2021
Engineer	Task 2 – Project/Contract Management/Archaeological Monitoring/Surveying Services	September 30, 2021	December 31, 2021

- c. For the Additional Services set forth above, Owner shall pay Engineer the following Additional compensation:

Description of Service	Additional Amount	Basis of Compensation
1. Basic Services		
a. Task 1 – Task Management	\$3,804	T&M
b. Task 2 – Project Management	\$19,320	T&M
c. Task 2 – Contract Management	\$72,840	T&M
<b>Total Additional Labor Cost</b>	<b>\$95,964</b>	
d. Task 2 - Archaeological Monitoring	\$0	Lump Sum
e. Task 2 – Survey	\$8,800	Lump Sum
e. Expenses	\$0	Lump Sum
<b>Total Additional Subcontracts and Expenses</b>	<b>\$8,800</b>	
f. GRT	\$5,238	Lump Sum
<b>TOTAL ADDITIONAL COMPENSATION (lines 1.a-f)</b>	<b>\$110,002</b>	

### 3. Task Order Summary (Reference only)

- |    |                                  |            |
|----|----------------------------------|------------|
| a. | Original Task Order amount:      | \$ 181,924 |
| b. | Net change for prior amendments: | \$ 87,304  |
| c. | This amendment amount:           | \$ 110,002 |
| d. | Adjusted Task Order amount:      | \$ 379,230 |

The foregoing Task Order Summary is for reference only and does not alter the terms of the Task Order, including those set forth in Exhibit C.

Owner and Engineer hereby agree to modify the above-referenced Task Order as set forth in this Amendment. All provisions of the Agreement and Task Order not modified by this or previous Amendments remain in effect. The Effective Date of this Amendment is September 30, 2021.

OWNER:

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date

Signed: \_\_\_\_\_

ENGINEER:

By:  \_\_\_\_\_

Title: Senior Vice President \_\_\_\_\_

Date

Signed: August 10, 2021 \_\_\_\_\_

# GWA Work Session - September 21, 2021 - ISSUES FOR DECISION

## Guam Waterworks Authority PM/CM IDIQ

### Hyundai Subdivision Lift Station Project Management and Contract Management

Assumptions:  
Extended duration to December 31, 2021

#### 1. Task Management

Description		Labor Hours					Labor Hours	Labor Cost	ODCs		Subtotal
		Riegel	Claveria	Tamai	Patricio	Heramil			Travel	Subs/Misc	
General task management		2	9	6	6	6	29	\$4,200	\$0		\$4,200
Weekly meeting with GWA		1					1	\$276			\$276
Totals		3	9	6	6	6	30	\$4,476	\$0	\$0	\$4,476
		\$ 828	\$ 1,440	\$ 1,056	\$ 672	\$ 480				Tax	\$ 224
		18.5%	32.2%	23.6%	15.0%	10.7%				Grand Total	\$ 4,700

Avg labor \$149 /hr

#### 2. Project Management

Description		Labor Hours					Labor Hours	Labor Cost	ODCs		Subtotal
		Riegel	Claveria	Tamai	Patricio	Heramil			Travel	Subs/Misc	
Coordination with GWA/EPA		10	10	3			23	\$4,888	\$0		\$4,888
Schedule Management and Documentation		10	25			3	38	\$7,000			\$7,000
QA/QC Review of deliverables		10	25					\$6,760			\$6,760
Totals		30	60	3	0	3	61	\$18,648	\$0	\$0	\$18,648
		\$ 8,280	\$ 9,600	\$ 528	\$ -	\$ 240				Tax	\$ 932
		44.4%	51.5%	2.8%	0.0%	1.3%				Grand Total	\$ 19,580

Avg labor \$306 /hr

#### 3. Contract and Construction Management

Description		Labor Hours					Labor Hours	Labor Cost	ODCs		Subtotal
		Riegel	Claveria	Tamai	Patricio	Heramil			Travel	Subs/Misc	
Coordination with Contractor		30	55				85	\$17,080	\$0		\$17,080
Management of Contract matters (change orders, payments, etc)		30	45				75	\$15,480			\$15,480
Field Inspection		30	200					\$40,280			\$40,280
Archaeological Monitoring										\$8,000	\$8,000
Surveying Services											
Totals		90	300	0	0	0	160	\$32,560	\$0	\$8,000	\$81,640
		\$ 24,840	\$ 48,000	\$ -	\$ -	\$ -				Tax	\$ 4,082
		34.1%	65.9%	0.0%	0.0%	0.0%				Grand Total	\$ 85,722

Avg labor \$204 /hr

#### 4. Expenses

Expense Description	Units	Unit Amount	Quantity	Extension
Airfare - Mainland	roundtrip	\$3,000		\$0
Rental car	day	\$75		\$0
Per diem	person-day	\$250		\$0
Mileage	mile	\$0.550		\$0
Total expenses				\$0

GWA Work Session - September 21, 2021 - ISSUES FOR DECISION

**Total Task Order**

Description		Labor Hours					Labor Hours	Labor Cost	ODCs		Subtotal
		Riegel	Claveria	Tamai	Patricio	Heraamil			Travel	Subs/Misc	
1. Task Management		3	9	6	6	6	30	\$4,476	\$0		\$4,476
2. Project Management		30	60	3	0	3	96	\$18,648			\$18,648
3. Contract and Construction Management		90	300	0	0	0	390	\$72,840		\$8,800	\$81,640
4. Expenses											
Totals		123	369	9	6	9	516	\$95,964	\$0	\$8,800	\$104,764
		\$ 33,948	\$ 59,040	\$ 1,584	\$ 672	\$ 720				Tax	\$ 5,238
		46.6%	81.1%	2.2%	0.9%	1.0%				Grand Total	\$ 110,002

Avg labor \$186 /hr



Website: [www.dcaguam.com](http://www.dcaguam.com)  
Email: [dca@dcaguam.com](mailto:dca@dcaguam.com)

April 19, 2021

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

Attention: Bobbie C. Cruz  
Land Agent III

Subject: Fee Proposal  
Survey & Mapping Services  
Severance of a 20-Foot Wide Sewer Line Easement  
Within Lot 238-2A-R4, Santa Rita, Guam

Hafa Adai,

Below is the effort and cost estimate for the severance survey and mapping of the sewer easement mentioned above.

Scope of Work:

1. Perform a field survey to sever the 20-foot wide sewer easement within Lot 238-2A-R4 particularly situated east of Lot 238-2A-4.
2. Set rebars/iron pins on the sewer line easement corners.
3. Prepare a parceling/severance survey map to be approved by Land Management.
4. Record the approved survey map.

Fee: \$8,000.00

The field survey and related office work including the preparation of the survey map will take about 12 days to finish. Approval of the map by Land Management may take 45 to 60 days.

Please contact me or Frank Songsong, Jr. at 477-7991 or via email if you have any questions.

Respectfully,

*Nestorio C. Ignacio*  
NESTORIO C. IGNACIO, PLS  
Duenas, Camacho & Associates, Inc.

# EXHIBIT C

This is **EXHIBIT K**, consisting of 3 pages, referred to in and part of the **Agreement between Owner and Engineer for Professional Services – Task Order Edition** dated June 27, 2019.

## **Amendment to Owner-Engineer Agreement No. 4**

---

### **1. Background Data:**

- a. Effective Date of Task Order: June 17, 2019
- b. Owner: Guam Waterworks Authority
- c. Engineer: Brown and Caldwell
- d. Specific Project: Indefinite Delivery/Indefinite Quantity (IDIQ) for Professional Project/Construction Management Services GWA Project No. M19-003-BND

### **2. Nature of Amendment**

During the contract, GWA identified needs for services under this contract that have totaled \$2,296,795 through eight Task Orders (nos.1-8) and subsequent respective amendments. By Resolution 22-FY2021 the CCU authorized increasing the Owner-Engineer Agreement to \$2,296,795 as covered in Amendment No.3 to the Owner-Engineer Agreement

This Amendment No.4 to the IDIQ Owner-Engineer Agreement contract will increase contract funding in the amount of \$251,437 to extend the contract time and provide additional funding to complete the Route 1 (Task Order No. 3) and SSES Phase II (Task Order No. 4) Construction Projects. The total contract amount is, therefore, \$2,548,232 through this Amendment No.3 to the IDIQ.

### **3. Task Order Summary (Reference only)**

During the execution of this IDIQ contract, GWA issued the following Task Orders (and Amendments to the Task Orders as noted) for the work described below.

- 1. Task Order No.1 – Consulting Engineer’s Report
  - a. Amendment No.1 – Clarification relative to the Municipal Advisor Disclosure
  - b. Amendment No.2 – Increase in scope for additional draft reports, updating financial projections, and evaluation of COVID-19 impacts on the financial projections.
  - c. Amendment No.3 – Increase in scope to address continuing development of changes required to the financial plan to adequately address the COVID-19 impacts, additional financial analysis and report modifications.
  - d. Amendment No.4 – Increase in scope to add task for assistance with and attendance at the individual investor meetings.
- 2. Task Order No.2 – Project/Contract Management for Rt.4 Sewer Rehabilitation

- a. Amendment No.1 – Extension of performance time and associated increase in total fee due to construction period extensions.
- 3. Task Order No.3 – Project/Contract Management for Rt.1 Sewer Rehabilitation
  - a. Amendment No.1 – Extension of performance time and associated increase in total fee due to construction period extensions; plus increasing the scope to provide PM/CM for construction of the Adelup to Hagatna section.
- 4. Task Order No.4 – Project/Construction Management for SSES phase 2 Hyundai Subdivision Lift Station
  - a. Amendment No.1 - Extension of performance time and associated increase in total fee due to construction delays; plus adding archaeological services to the scope of work.
  - b. Amendment No. 2 – Extension of performance time (no-cost amendment).
  - c. Amendment No. 3 – Extension of performance time (no-cost amendment).
- 5. Task Order No.5 - Cost of Service Study (PUC Stipulation)
- 6. Task Order No.6 – Water Meter Technical Assistance
- 7. Task Order No.7 – Consent Decree and Hydraulic Modeling Assistance
- 8. Task Order No. 8 – Water Resources Master Plan Interim Update

Summary of Costs

Task Order No.1	\$188,490
Amendment No.1	\$0
Amendment No.2	\$86,065
Amendment No.3	\$13,084
Amendment No.4	\$3,836
Subtotal	\$291,475
Task Order No.2	\$148,348
Amendment No.1	\$48,959
Subtotal	\$197,307
Task Order No.3	\$209,780
Amendment No.1	\$266,270
Subtotal	\$476,050
Task Order No.4	\$181,924
Amendment No.1	\$87,304
Amendment No. 2	\$0
Amendment No. 3	\$0
Subtotal	\$269,228
Task Order No.5	\$318,343
Task Order No.6	\$24,226
Task Order No.7	\$358,325
Task Order No. 8	<u>\$361,841</u>
Total	\$2,296,795

---

Exhibit K – Amendment to Task Order

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 and American Society of Civil Engineers. All rights reserved.



**4. Agreement Summary**IDIQ Contract Amount

a.	Original Agreement amount:	\$ 750,000
b.	Net change for Amendment No.1:	\$ 992,860
b.	Net change for Amendment No.2:	\$ 192,094
c.	Net change for Amendment No.3:	\$ 361,841
d.	Net Change for Amendment No.4:	<u>\$ 251,437</u>
d.	Total Amount for Original Contract plus Amendments No.1-4:	\$2,548,232

---

The foregoing Task Order Summary is for reference only and does not alter the terms of the Task Order, including those set forth in Exhibit C.

Owner and Engineer hereby agree to modify the above-referenced Task Order as set forth in this Amendment. All provisions of the Agreement and Task Order not modified by this or previous Amendments remain in effect. The Effective Date of this Amendment is September 28, 2021.

OWNER:

ENGINEER:

By: Miguel C. Bordallo, P.E.

By: \_\_\_\_\_

Title: General ManagerTitle: Senior Vice PresidentDate  
Signed: \_\_\_\_\_Date September 09, 2021  
Signed: \_\_\_\_\_

Certified Funds:

---

Taling M. Taitano, CPA, CGFM, CGMA  
Chief Financial Officer

## EXHIBIT D

**From:** [Konner, Thomas](#)  
**To:** [judecalvo@guamwaterworks.org](mailto:judecalvo@guamwaterworks.org)  
**Cc:** [Bobbie](#); [maurynm@guamwaterworks.org](mailto:maurynm@guamwaterworks.org); [nicole@guamwaterworks.org](mailto:nicole@guamwaterworks.org); "John Riegel"  
**Subject:** RE: Change Order #2 to Task Order #3 - Rt.1 Sewer project  
**Date:** Monday, September 13, 2021 1:23:26 PM

---

Hafa Adai Jude,

EPA has reviewed and approves the use of EPA Grant M96902621 funds to cover the costs of the cited change order #2 for the Rt. 1 Sewer Project, subject to GWA review and approval.

Thanks,

Tom

Tom Konner  
Environmental Engineer  
U.S. EPA WTR-3-3  
75 Hawthorne St.  
San Francisco, CA 94105  
415-972-3408

---

**From:** Jude Calvo <[judecalvo@guamwaterworks.org](mailto:judecalvo@guamwaterworks.org)>  
**Sent:** Thursday, September 9, 2021 5:34 PM  
**To:** Konner, Thomas <[Konner.Thomas@epa.gov](mailto:Konner.Thomas@epa.gov)>  
**Cc:** [Bobbie](mailto:bccruz@guamwaterworks.org) <[bccruz@guamwaterworks.org](mailto:bccruz@guamwaterworks.org)>; [maurynm@guamwaterworks.org](mailto:maurynm@guamwaterworks.org); [nicole@guamwaterworks.org](mailto:nicole@guamwaterworks.org); 'John Riegel' <[JRiegel@BrwnCald.com](mailto:JRiegel@BrwnCald.com)>  
**Subject:** FW: Change Order #2 to Task Order #3 - Rt.1 Sewer project

Hafa Adai Tom,

GWA is seeking your approval to fund Task Order#2 Change Order#2 Brown & Caldwell project management of GWA's Route 1 Sewer PHII project, see attachment. The cost is \$141,435.00. If you approve, the change order will be funded by grant number M9692621. Please let us know if you have any questions.

Thank you,

Jude

---

**From:** John Riegel <[JRiegel@BrwnCald.com](mailto:JRiegel@BrwnCald.com)>  
**Sent:** Wednesday, August 25, 2021 7:45 AM  
**To:** [bccruz@guamwaterworks.org](mailto:bccruz@guamwaterworks.org); Jude Calvo <[judecalvo@guamwaterworks.org](mailto:judecalvo@guamwaterworks.org)>; Nicole Ballesta <[nicole@guamwaterworks.org](mailto:nicole@guamwaterworks.org)>  
**Cc:** [maurynm@guamwaterworks.org](mailto:maurynm@guamwaterworks.org)

**Subject:** Change Order #2 to Task Order #3 - Rt.1 Sewer project

Please see attached for GWA signature and execution. Will a CCU resolution be required for this? If so, please let me know and I will prepare for you.

John Riegel  
Program Management, Sr. Manager  
Brown and Caldwell  
[JRiegel@brwnncald.com](mailto:JRiegel@brwnncald.com)  
Direct: 671.300.4230



## EXHIBIT E

**From:** Jude Calvo <judecalvo@guamwaterworks.org>  
**Sent:** Friday, August 13, 2021 9:10 AM  
**To:** Yvonne Cruz <ymcruz@guamwaterworks.org>; 'Janessa Blas' <janessab@guamwaterworks.org>; nicole@guamwaterworks.org  
**Cc:** Bobbie <bccruz@guamwaterworks.org>  
**Subject:** FW: B&C Proposed Amendment no. 4 of TO#4

Good Morning Everyone,

Tom Konner approved the funding for Task Order#4 Amendment 4. Please include this email with the amendment.

Thank you,

Jude

**From:** Konner, Thomas <[Konner.Thomas@epa.gov](mailto:Konner.Thomas@epa.gov)>  
**Sent:** Friday, August 13, 2021 8:31 AM  
**To:** [judecalvo@guamwaterworks.org](mailto:judecalvo@guamwaterworks.org)  
**Cc:** Bobbie <[bccruz@guamwaterworks.org](mailto:bccruz@guamwaterworks.org)>; [nicole@guamwaterworks.org](mailto:nicole@guamwaterworks.org)  
**Subject:** RE: B&C Proposed Amendment no. 4 of TO#4

Jude,

EPA has reviewed the proposed amendment no. 4 of T)#4 for the Southern SSES project and approves the amendment. You may proceed with funding this amendment.

Tom

Tom Konner  
Environmental Engineer  
U.S. EPA WTR-3-3  
75 Hawthorne St.  
San Francisco, CA 94105  
415-972-3408

**From:** Jude Calvo <[judecalvo@guamwaterworks.org](mailto:judecalvo@guamwaterworks.org)>  
**Sent:** Wednesday, August 11, 2021 10:22 PM  
**To:** Konner, Thomas <[Konner.Thomas@epa.gov](mailto:Konner.Thomas@epa.gov)>  
**Cc:** Bobbie <[bccruz@guamwaterworks.org](mailto:bccruz@guamwaterworks.org)>; [nicole@guamwaterworks.org](mailto:nicole@guamwaterworks.org)  
**Subject:** FW: B&C Proposed Amendment no. 4 of TO#4

Hafa Adai Tom,

GWA is seeking your approval to fund Task Order 4 amendment 4 SSES Sewer Pump Station Project Management services. The amendment is for the time extension and survey work needed for the project, see the attachment for details. The proposed cost is \$110,002.00. If you approve, amendment 4 would be funded under grant number M96902619-1.

Best Regards,

Jude



# Management Report

## GWA CCU Work Session, September 21, 2021



**GWA Workforce availability  
as of September 17, 2021**

Healthy	348	94.1%
Sick, not COVID-19 related	4	1.1%
COVID-19 Quarantined	9	2.4%
Employee with COVID-19, active case	1	0.3%
Military Leave	7	1.9%
LTD	1	0.3%
<b>Total</b>	<b>370</b>	<b>100%</b>

Total		
Healthy/Reporting for duty at worksite	340	91.9%
Healthy/Reporting for duty - Teleworking	8	2.2%
Employee with COVID-19, active case	1	0.3%
Employee sick - symptoms unrelated to COVID-19	4	1.1%
Military Leave	7	1.9%
Employee (to be) tested for COVID-19 with results pending	3	0.8%
Employee's direct exposure to a household member with symptoms related to COVID-19	1	0.3%
Employee sick - symptoms related to COVID-19	3	0.8%
Employee's direct exposure to a household member - COVID-19	2	0.5%
LTD/Workers Comp	1	0.3%
<b>Total</b>	<b>370</b>	<b>100%</b>

**GWA Workforce Vaccine Status  
as of September 17, 2021**

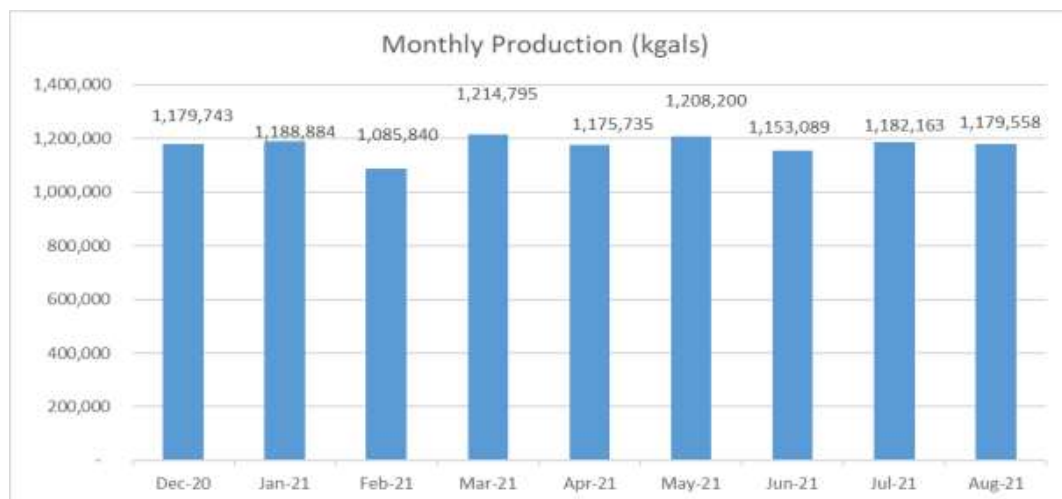
One Shot Remaining	24	6.49%
Fully Vaccinated	300	81.08%
Did Not Receive Shot	46	12.43%
<b>Total</b>	<b>370</b>	<b>100%</b>

## Operations Update

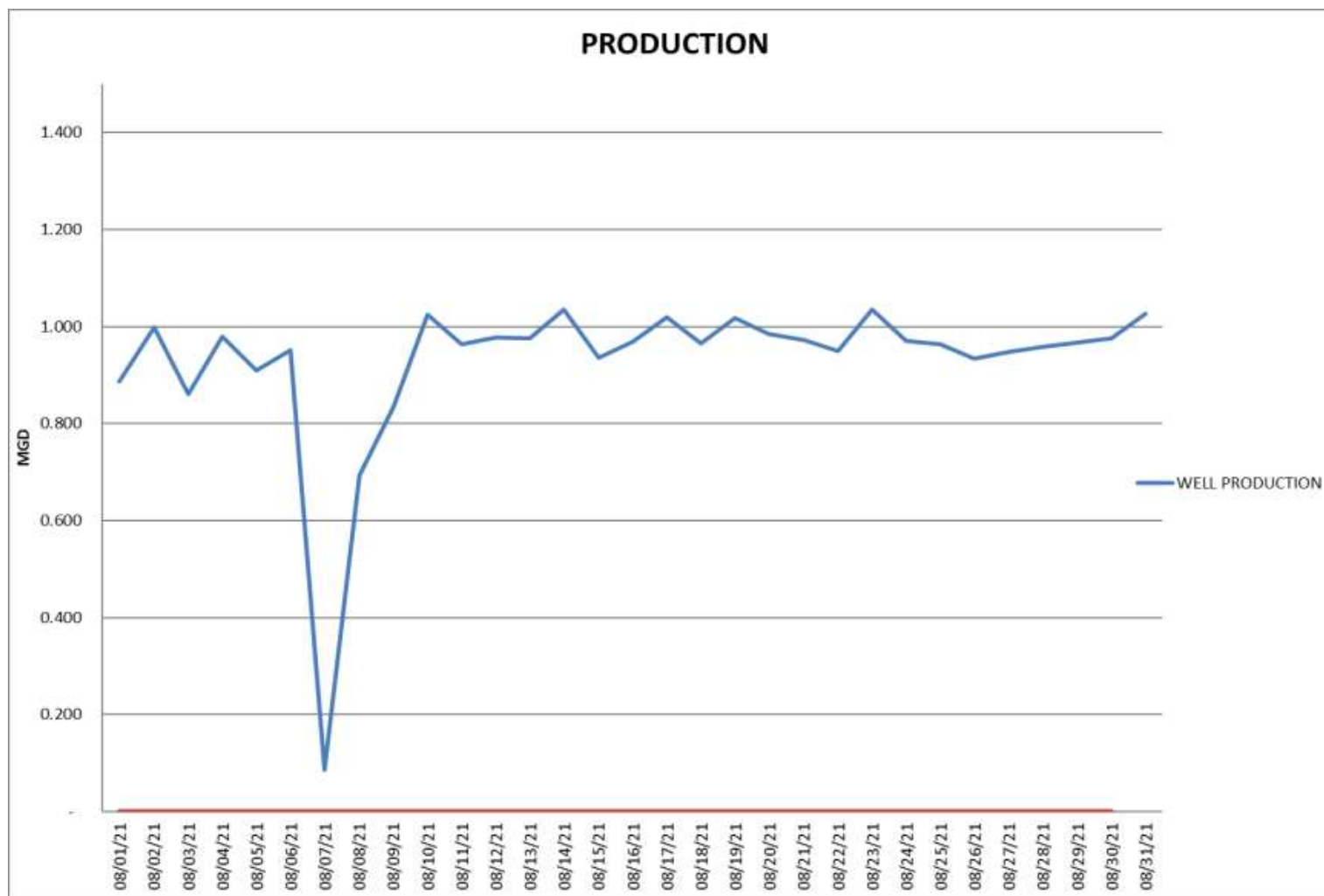
## Production (August 2021)

Monthly Production Summary - August 2021				
Deep Wells		34.9 MGD		
Active wells =	91 of 120			
Avg days in operation =	31 days			
Total Production =	1,081,128 Kgals			
Springs		0.22 MGD		
Avg days in operation =	31 days			
Total Production =	6,911 Kgals			
Ugum Surface Water Plant		2.0 MGD		
Avg days in operation =	31 days			
Total Production =	62,754 Kgals			
Tumon Maui Well		0.93 MGD		
Avg days in operation =	31 days			
Total Production =	28,765 Kgals			
		1,179,558 Kgals	38.1 MGD	

DW Status as of 8/31/2021		
Active	91	
Grounded motor or Pump Failure	12	A26-D01-D03-D10-D18B-F06-F13-Y16-Y20-F04-F15-Y21
Out of commission	8	A02-A07-A28-D05-D13-M14-MJ01-MJ05
Temporarily Secured - PFO	2	A23-A25
Standby	6	A29-D24-F05-M09-Y01-Y02
Temporarily Secured - Unbalance Power	1	F07
<b>TOTAL</b>	<b>120</b>	



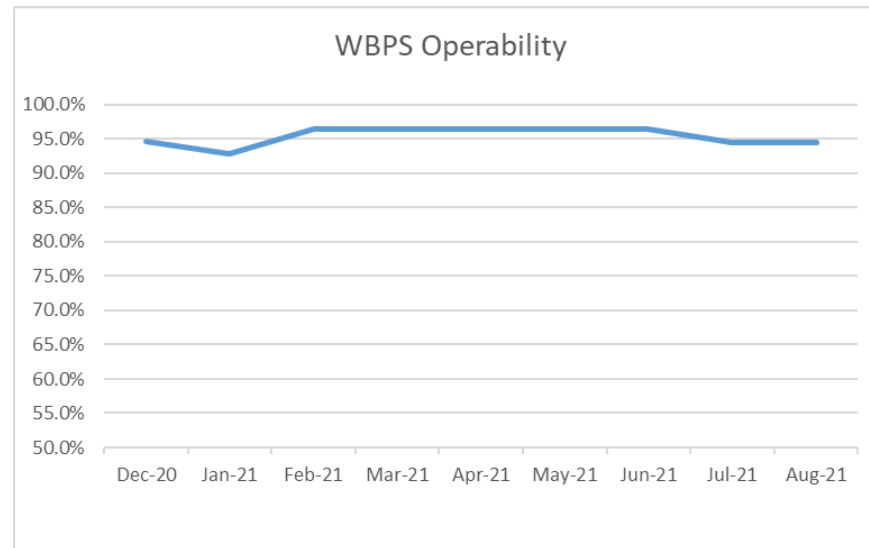
Tumon Maui Well Production (August 2021)



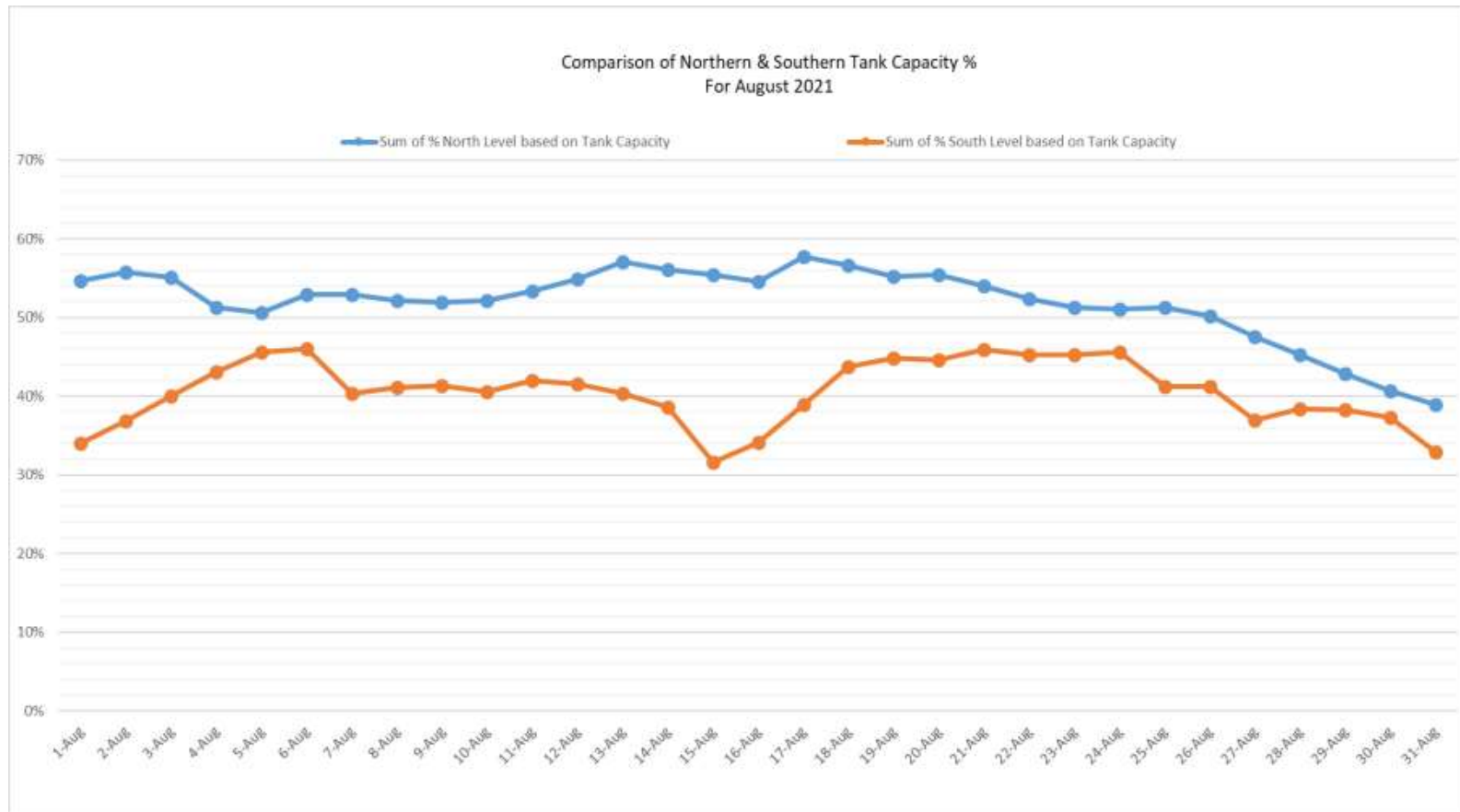


## Distribution (August 2021)

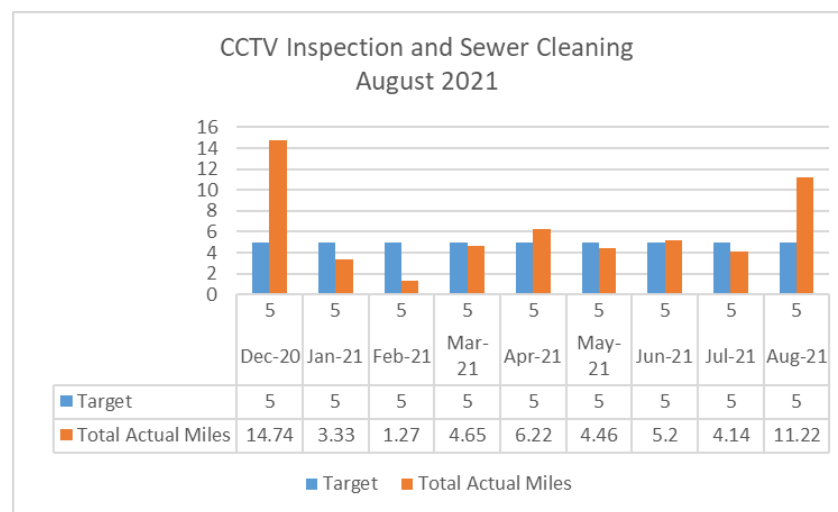
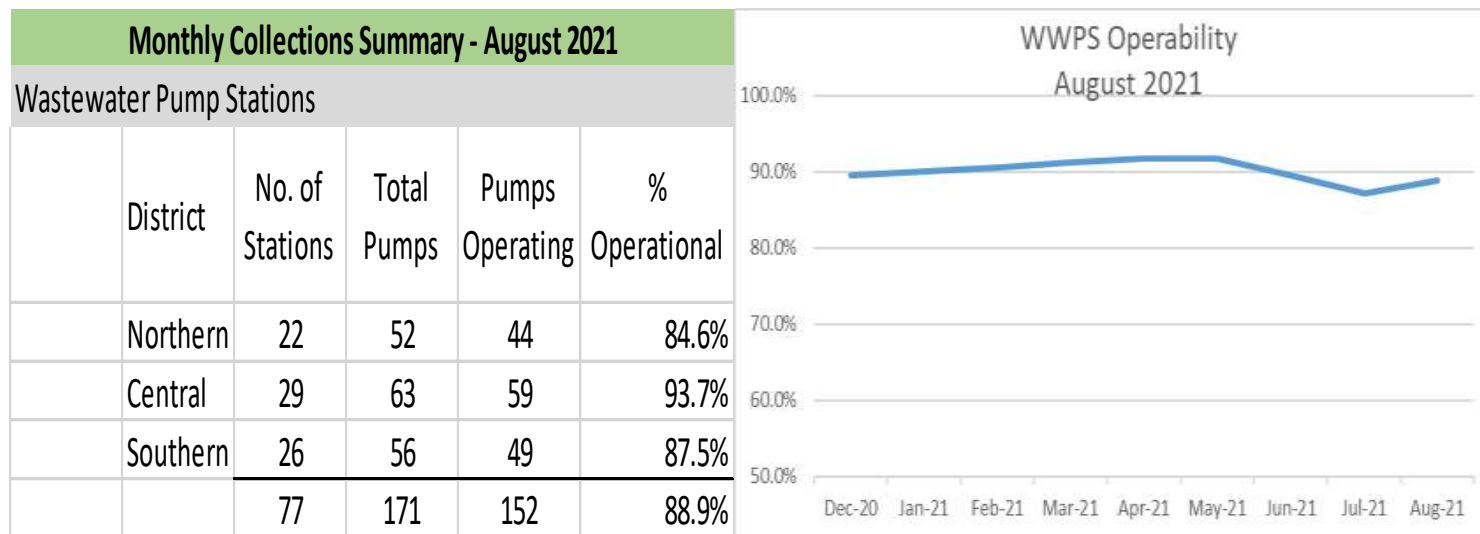
Monthly Distribution Summary - August 2021					
Water Booster Pump Stations					
	District	No. of Stations	Total Pumps	Pumps Operating	% Operational
	Northern	13	26	25	96.2%
	Central	7	14	12	85.7%
	Southern	7	15	15	100.0%
		27	55	52	94.5%



Distribution – Tank Levels (August 2021)

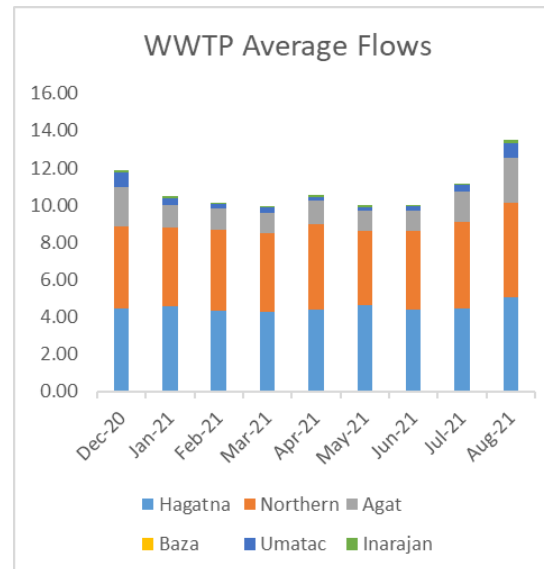


## Wastewater Collections (August 2021)



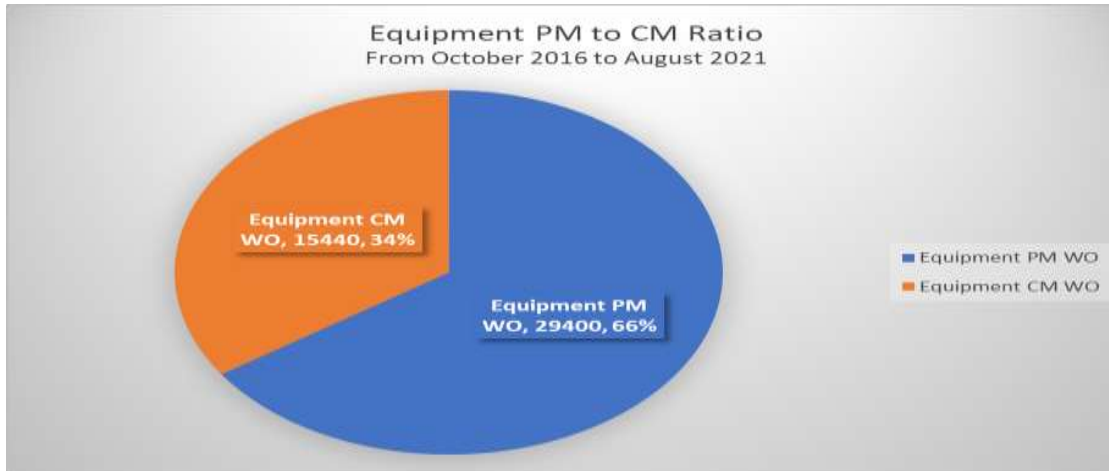
## Wastewater Treatment (August 2021)

Monthly Wastewater Treatment Summary - August 2021				
WW Treatment Plants - Flows				
	Facility	Avg. Daily Flows	Sludge (lbs)	Sludge Disp. (\$)
	Hagatna	5.06	89,720	\$ 8,075
	Northern	5.10	606,920	\$ 54,623
	Agat	2.39	78,700	\$ 7,083
	Baza	0		
	Umatac	0.78		
	Inarajan	0.16		
		13.49	775,340	\$ 69,781

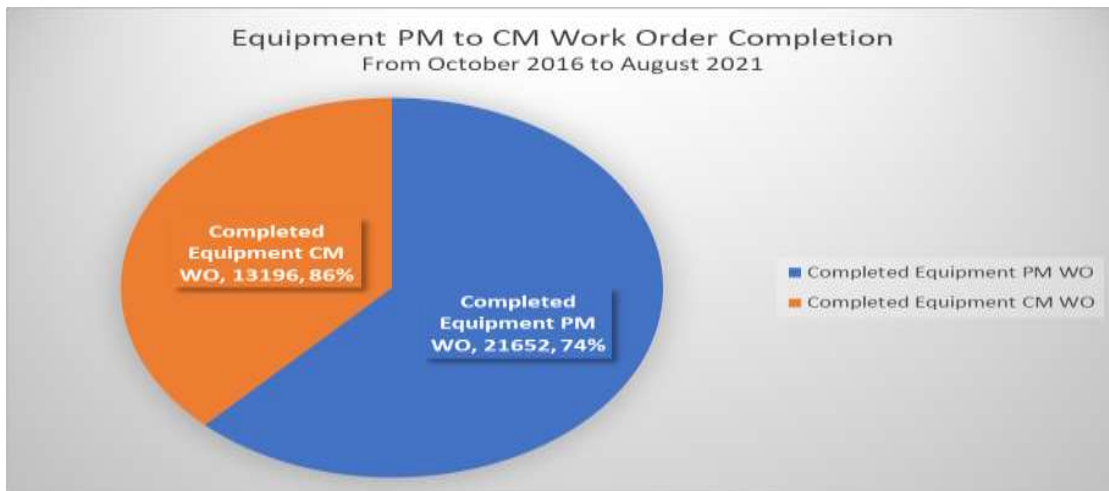


Asset Management (through August 2021)

I. Equipment Preventive Maintenance to Corrective Maintenance *Ratio*

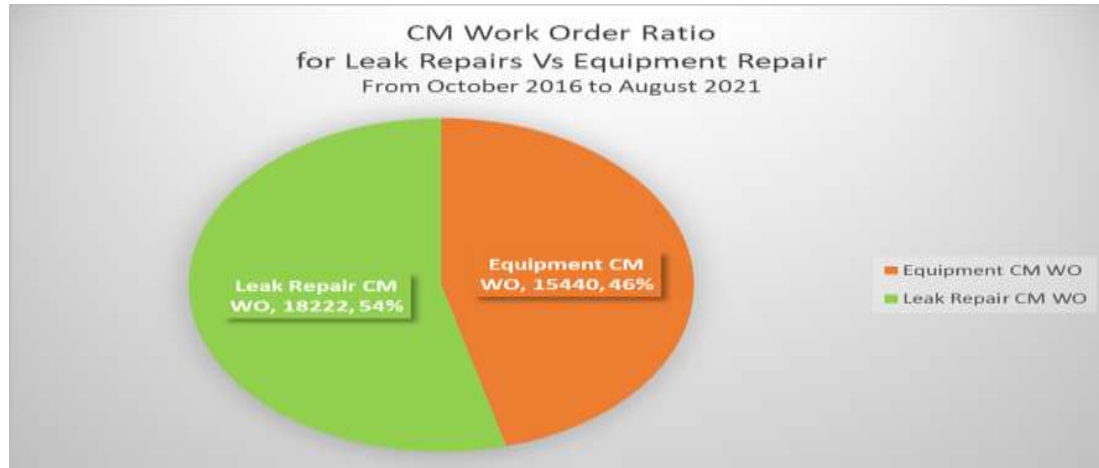


II. Equipment Preventive Maintenance to Corrective Maintenance *Work Order Completion*

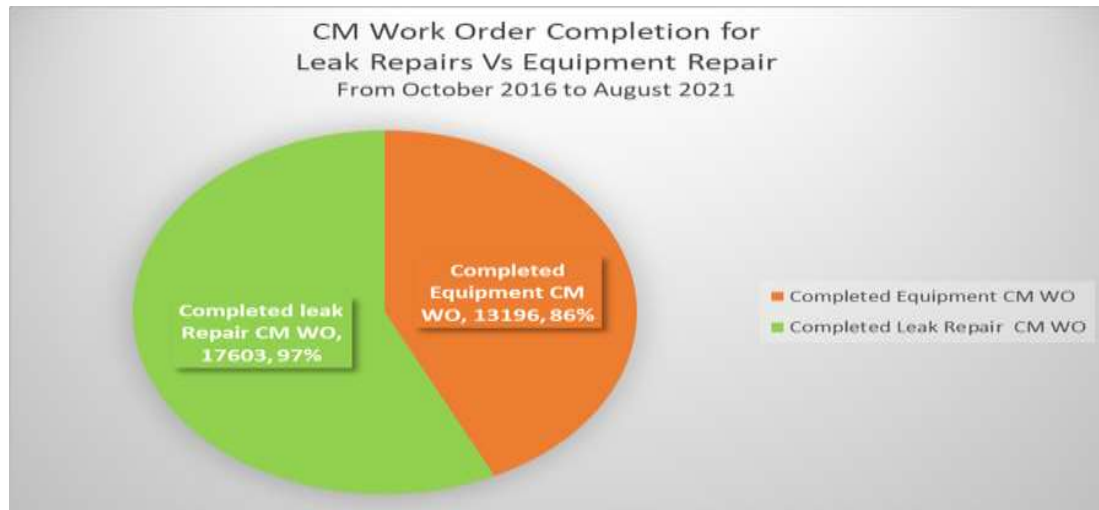


Asset Management (through August 2021)

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 (through August 2021)

### **Tumon Maui Well**

- Still waiting on AAFB approval to increase the pumping rates to be consistent with the GEPA well permit.
- The license for TMW will be for 1 more year. Then next term will be for a 5-year lease. The valuation of the property will determine the amount of the fee for the lease.
- Next inspection will be October 20, 2021

### **OEA Projects**

- Observation Wells/NGLA
  - DoD is working to resolve ownership issue w/ adjacent landowner. DOD met with the Department of Land Management to resolve the issue with the property. GWA still needs to access BPM-1 site in Mangilao for rehabilitation project.

### **Strategy/Framework Discussion**

- Santa Rosa Intertie – Still pending approval by Andersen leadership (as with TMW/AG-1).
- Route 16 Intertie – Project will not start until 2023.

### **Property Transfers**

- Transfer of Navy Laterals at Murray Road and to Schoeffel Heights to GWA - Right of Entry is being reviewed by DOD
- Transfer of ACEORP Tunnel – No new update; waiting for GovGuam to sign.
- Easement on Marbo property for Sewer Line - GWA request for easement/relocation was delivered to DOD. GWA still waiting on response.
- Amendment to the Cetti Bay easement is approved; documents will be transmitted to GWA.

### **Other**

- GWA is preparing a Standard Operating Procedures (SOP) for Wastewater Batch Discharge from DOD to GWA.
- DOD is considering discharge of pool water from Camp Blaz to GWA. GWA will issue a Pretreatment Permit for the discharge into GWA wastewater system. DOD will coordinate with GWA on the discharge.
- The AWWA-HIWPS annual conference will be virtual and will be free.

## Court Order Summary (August 2021 – no changes)



	Court Order Items	%	Performance (on-time or completed)
Completed/Continuous - on time	78	84%	
Completed - late	14	15%	
In Progress - on time	0	0%	
In Progress - late	1	1%	98.9%
Totals	93	100%	

## Court Order – Status Information (August 2021)

- No CO delays due to approval of CO extension.
  - Final Date to complete CO 29(b) is June 30, 2023.
- Overflow or Bypass events reported to USEPA (for August up to September 1, 2021):
  - SSO #453, Aug. 22, 2021-Aga St., Santa Rita – Heavy Rain
  - SSO #454, Aug. 20, 2021-Chalan Pago/Ordot - Sewer overflow, Station Pump Airlocked
  - SSO #457, Aug. 23, 2021-Vicente Salomon, Agaña Heights – FOG
  - SSO #459, Aug. 26, 2021-Chalan Canton Tasi, Merizo – PS Controller issues
  - SSO #461, Sept. 1, 2021-Chagamin Lago, Inalahan – Heavy Rain



## Land Acquisition Summary (for August 2021)

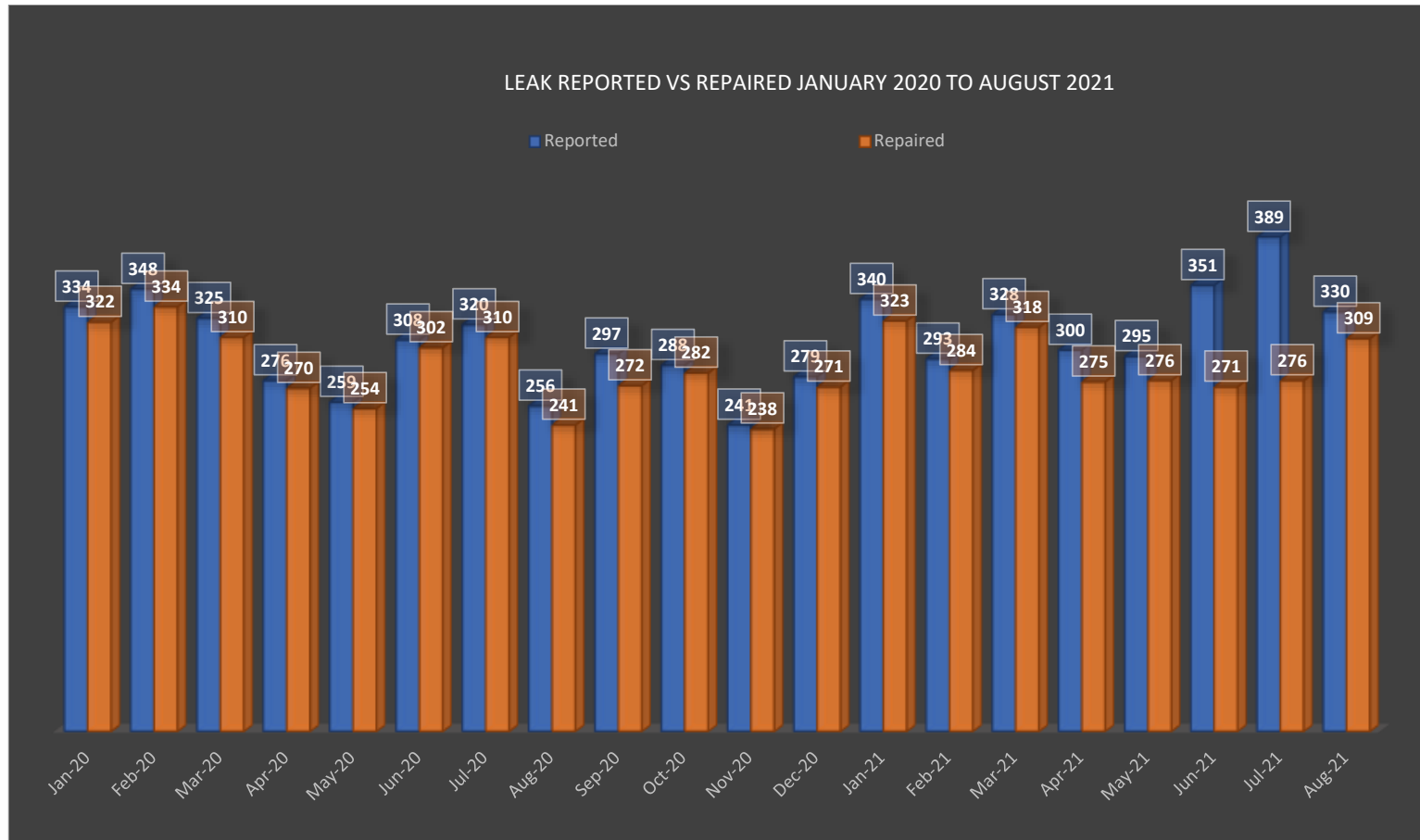
GWA Facility	Location	Gov. or Private Property	Land Acquisition Status
Tanks	Astumbo	Gov't. - CLTC	Petition of Land Registration package forwarded to Attorney General by DLM 11/04/19. AG pending court filing 06/30/2021. <b>Follow up status sent to DLM 09/02/2021.</b>
	Piti	Private	Received final comments from DoAg. Waiting on the archaeological report before we can submit 299 form. Waiting for permission from NPS to access the lot and perform the Archeological survey.
	Airport	Private	<b>Escrow/Title Service for land acquisition purchase opened 08/27/2021.</b>
Deep Wells	AG-12	Dept. of Agriculture / Manhita Farms	Right of Entry Agreement sent to Dept of AG for signature 05/24/18. 2 <sup>nd</sup> follow up sent on 09/12/18. 3 <sup>rd</sup> follow up sent on 04/10/19. Retracement Survey Property Map filed and recorded at DLM 7/10/19. <b>DCA submitted parceling map to DLM for review and comments on August 18, 2021, waiting for their review comments.</b>
Booster Pump Station	Agfayan	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.

*(Continued on next page)*

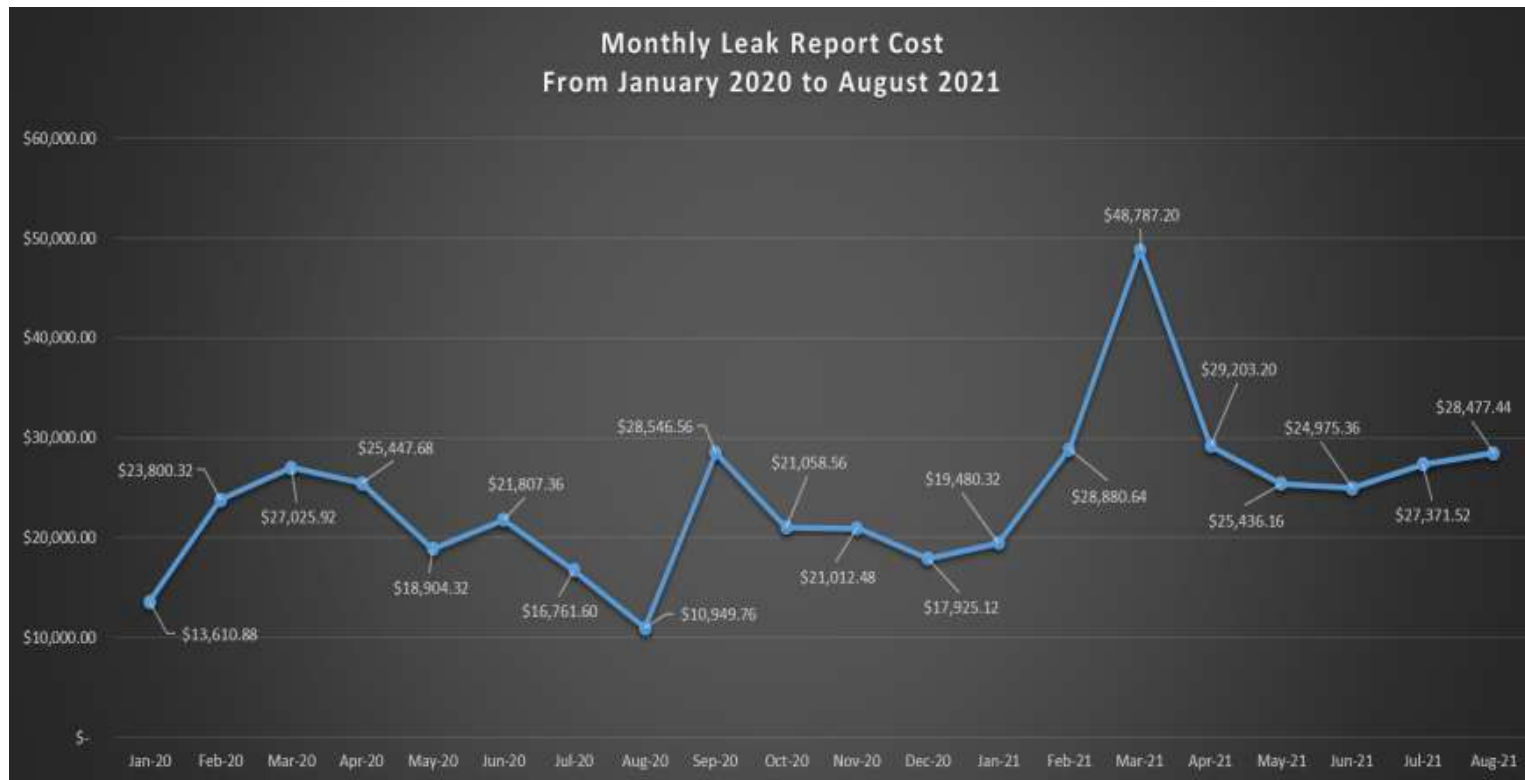
## Land Acquisition Summary (for August 2021 – continuation)

GWA Facility	Location	Gov. or Private Property	Land Acquisition Status
Asan Springs	Asan	Federal	<p>In order for NPS to issue a land ROW agreement with GWA, NPS has to complete NEPA first. GWA has HDR under contract to perform this work and an Environmental Assessment (EA) will be developed. The permit for the biological survey was submitted on 6/12/2020 and was signed by NPS on 1/22/2021. Further coordination between NPS and SHPO is pending to determine necessary approach for an archaeological survey. New Chief of Resources for War in the Pacific National Historical Park, Timothy Clark, hired. Replacing Tahzay Jones, who was previously working with us. HDR following up with Tim Clark to get him up to speed on things.</p> <p><u>Biological Survey:</u></p> <ul style="list-style-type: none"> <li>Fieldwork completed, 2/10/2021. Based on a preliminary finding by HDR's biologist they have found snails close to the site, and within NPS proposed ROW, and outside the proposed ROW. Draft report submitted to NPS, 4/1/2021.</li> <li>Comments received from NPS, 6/4/2021.</li> <li>Final Report submitted to NPS, 6/12/2021.</li> </ul> <p><u>DOAG Environmental Consultation Letter:</u></p> <ul style="list-style-type: none"> <li>HDR sent Request letter sent to DOAG (Dep of Ag) on 3/15/2021.</li> <li>GWA followed up with DOAG on 6/25/2021.</li> <li>DOAG responded on 7/1/2021, but did not reach GWA Eng. until 8/4/2021; HDR review response letter and will respond soon.</li> </ul> <p>Pending archaeological survey requirements from SHPO. SHPO Letter sent to NPS for review, 5/29/2021. Received first comments on letter on 7/1/2021; submitted revised letter on 7/12/2021.</p>

Comparison of Leaks Reported vs. Leaks Repaired (through August 2021)



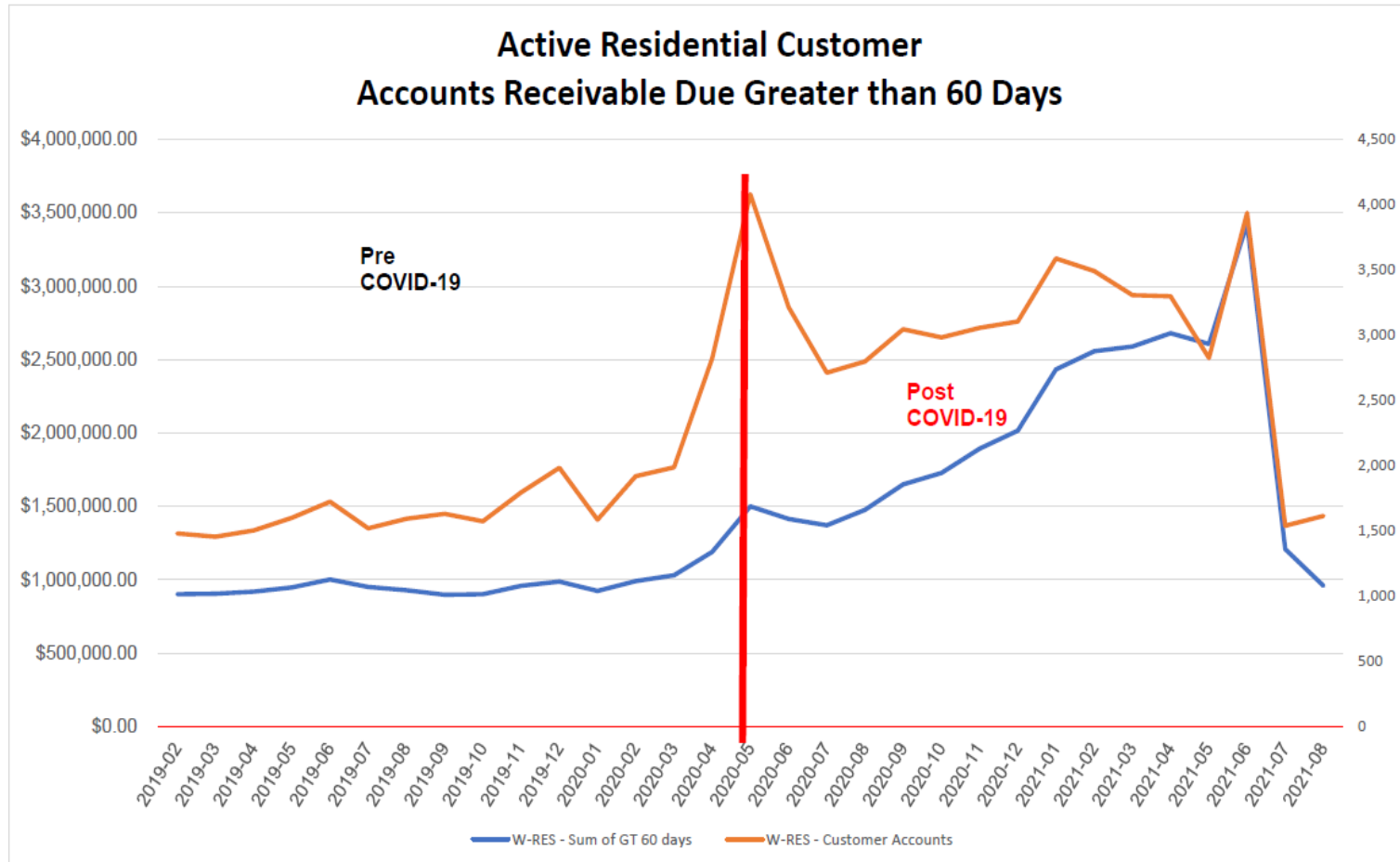
Monthly Leak Report Cost (through August 2021)



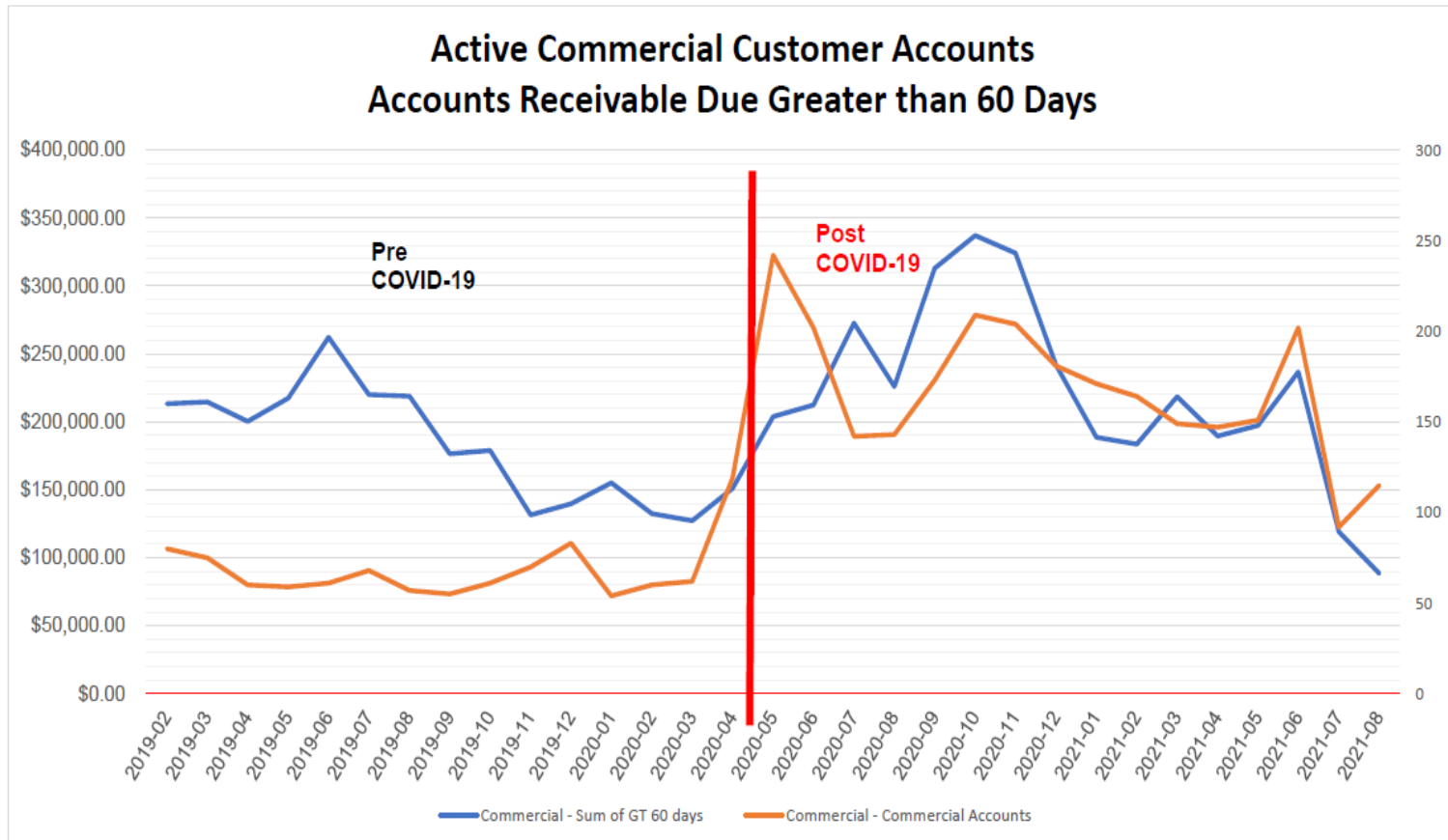
Assumptions:

1. Leak rate = 4 gpm
2. Cost per kgal = \$4.00

Accounts Receivables Due Greater than 60 Days (through August 2021)



Accounts Receivables Due Greater than 60 Days (through August 2021)





# GWA Financial Overview

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AUGUST 2021





## Key Financial Indicators

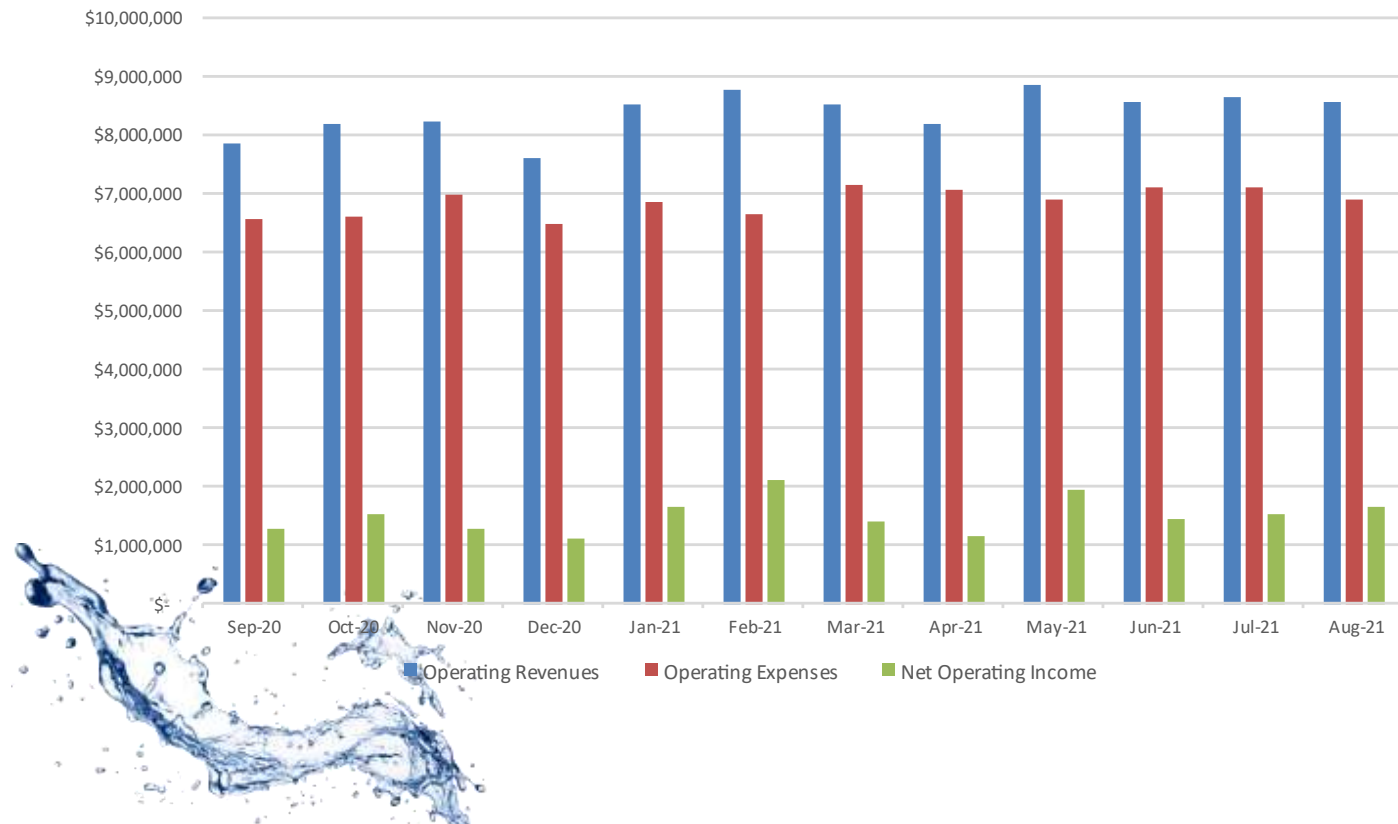
Indicator	Target	Jul-21	Aug-21
DSC YTD			
• Per Section 6.12 of Indenture	1.25	1.35	1.35
• Per PUC / CCU	1.4	1.35	1.35
Days - Cash on Hand	120 days	297 days	309 days
Collection Ratio			
• Month to Date	99%	107%	94%
• Year to Date	99%	98%	99%
Days Billed	30 days	30 days	30 days
Account Receivable Days	30 days	45 days	45 days
Account Payable Days	45 days	39 days	38 days
Employee Count	400 FTE	363 FTE	372 FTE
Water Demand			
• Month to Date	478,754	437,864	443,188
• Year to Date	5,268,296	4,444,009	4,887,197
Wastewater Flow			
• Month to Date	356,472	311,764	332,271
• Year to Date	3,921,196	3,141,131	3,473,402
Water Customers	42,839	43,258	43,184
Wastewater Customers	29,805	29,885	29,798





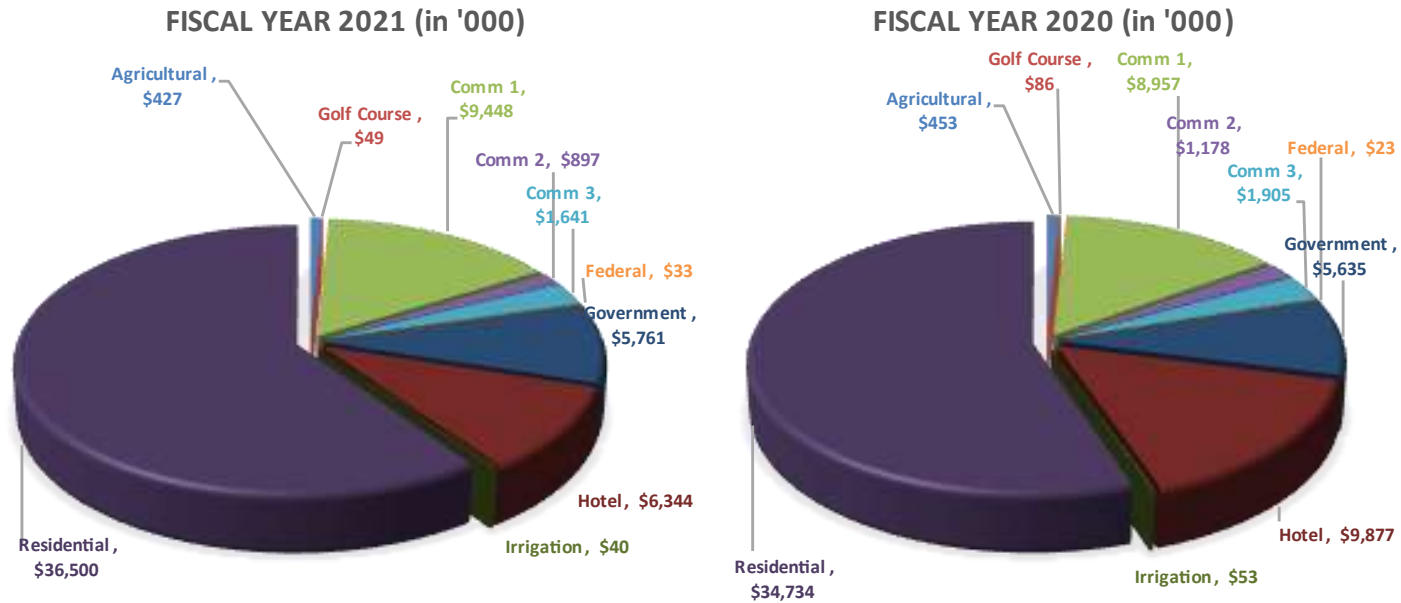


## Income Statement



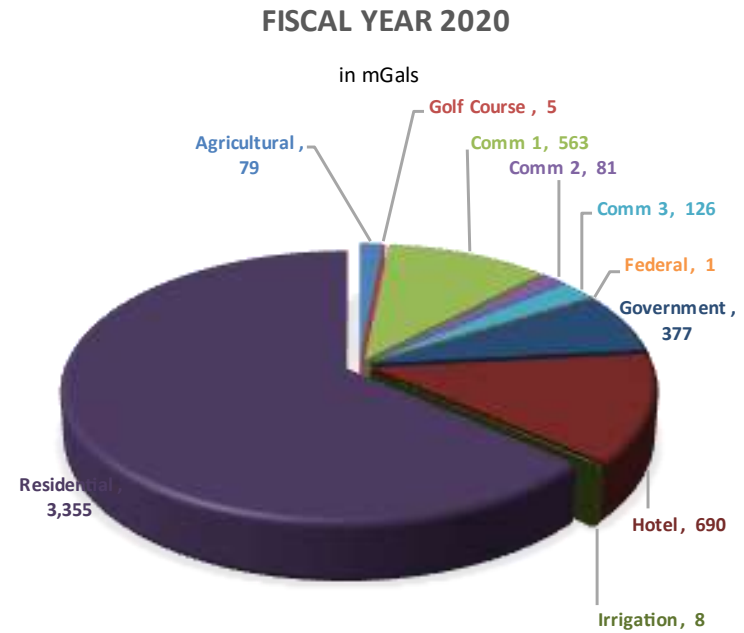
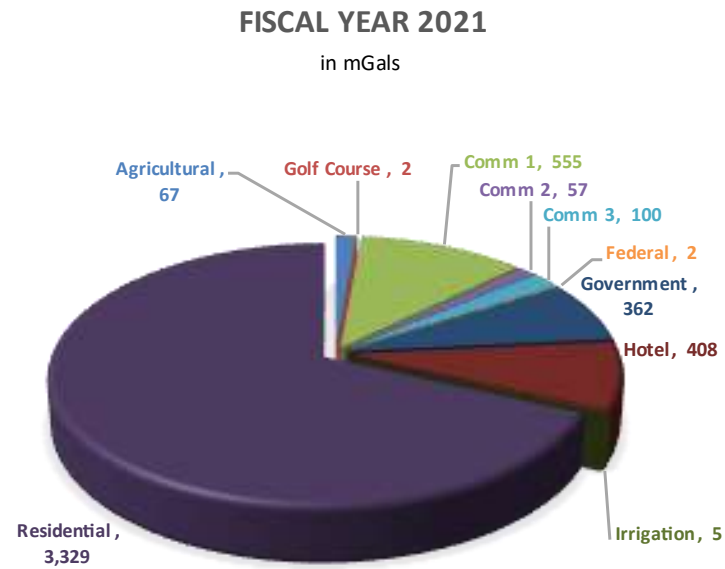


## AUGUST 2021 YTD Water Revenue by Rate Class



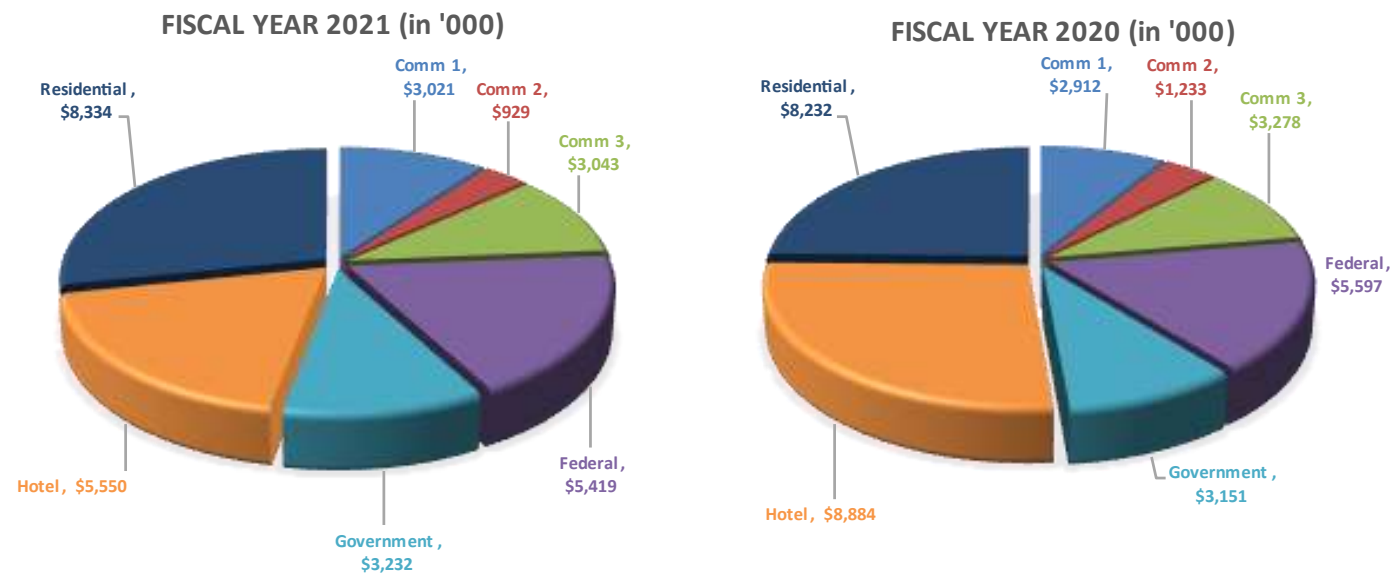


## AUGUST 2021 YTD Demand





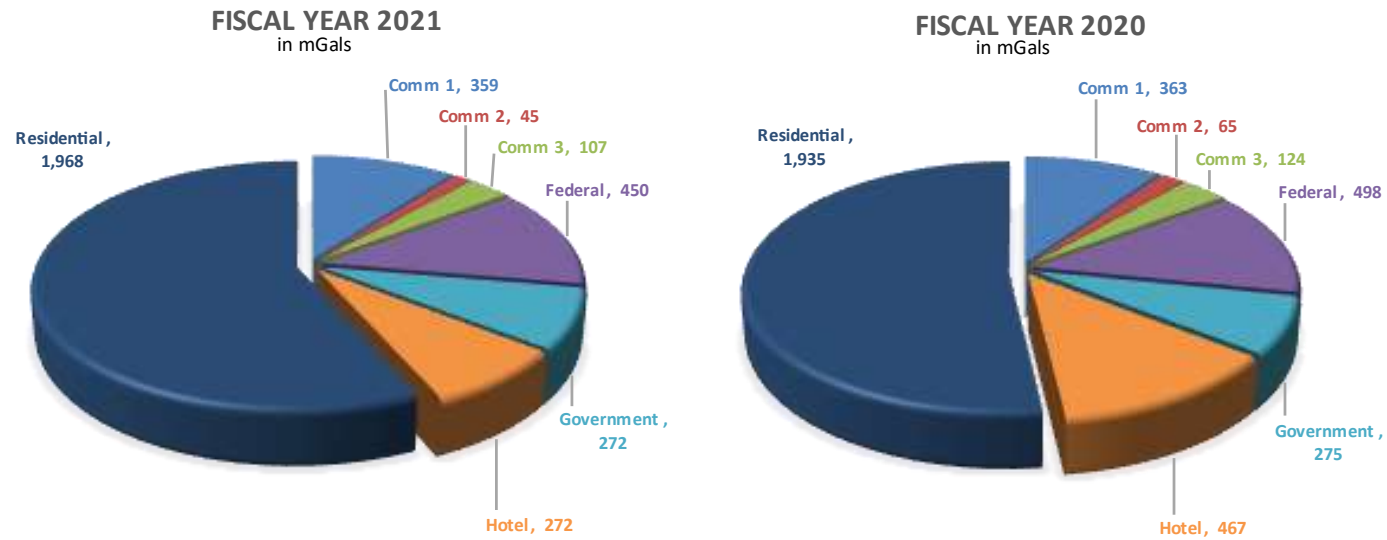
## AUGUST 2021 YTD Waste Water Revenue by Rate Class





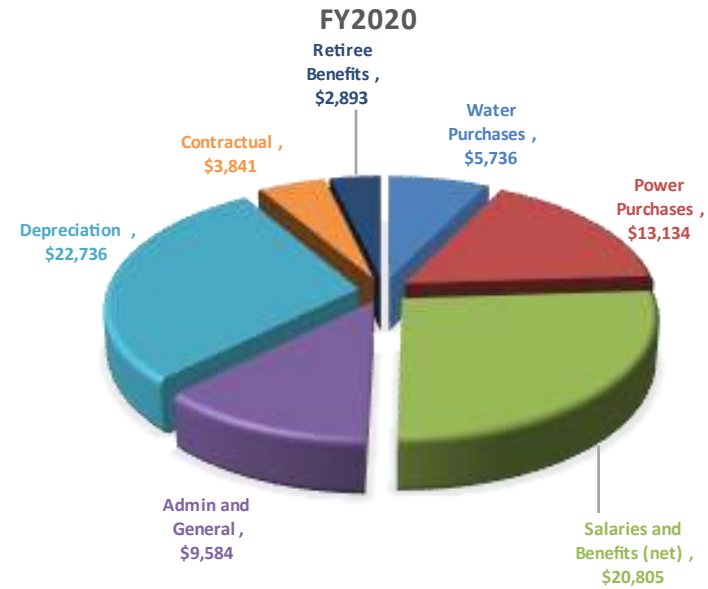
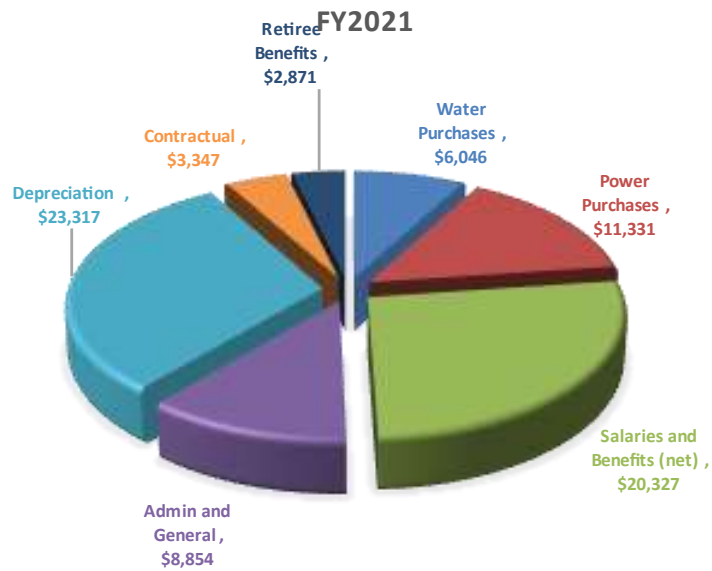
## AUGUST 2021 YTD Flow

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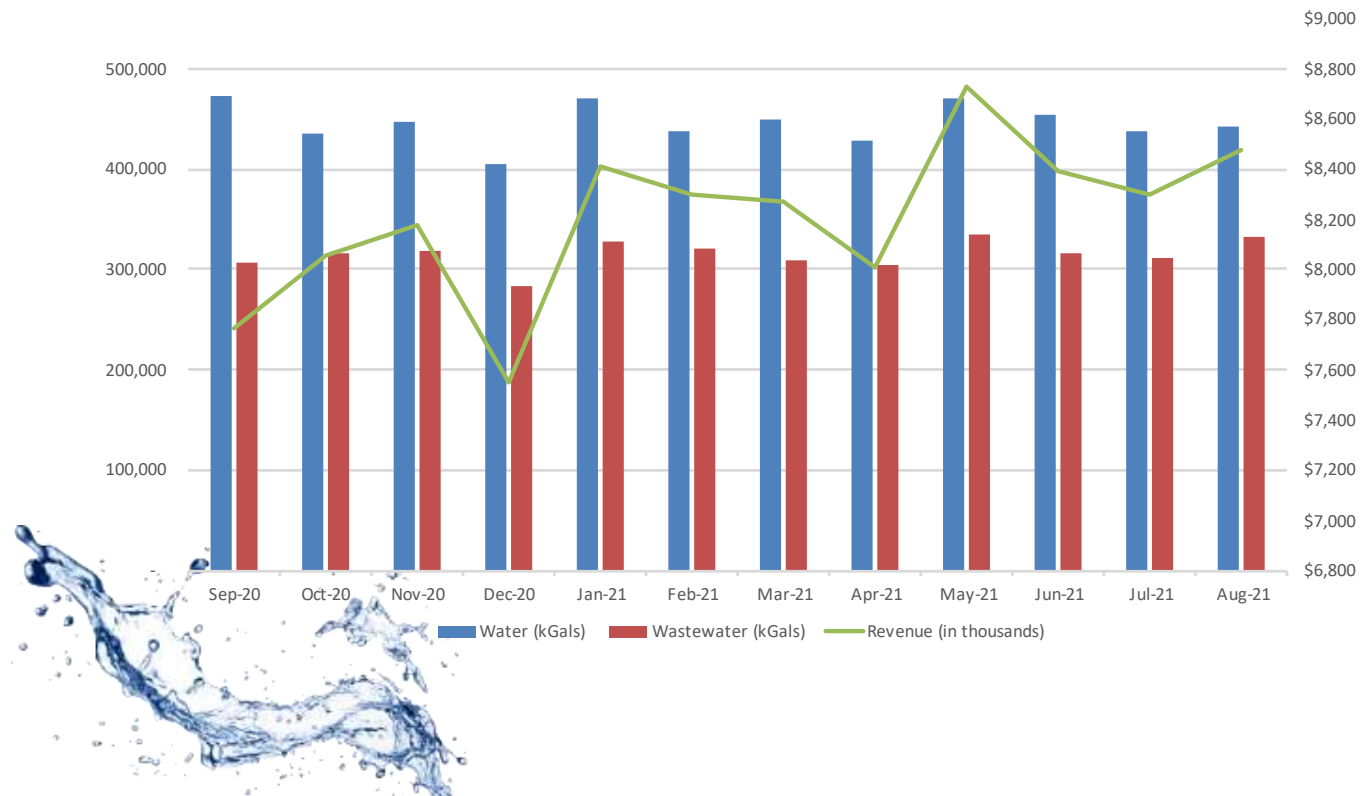


## AUGUST 2021 YTD Expenses by Categories





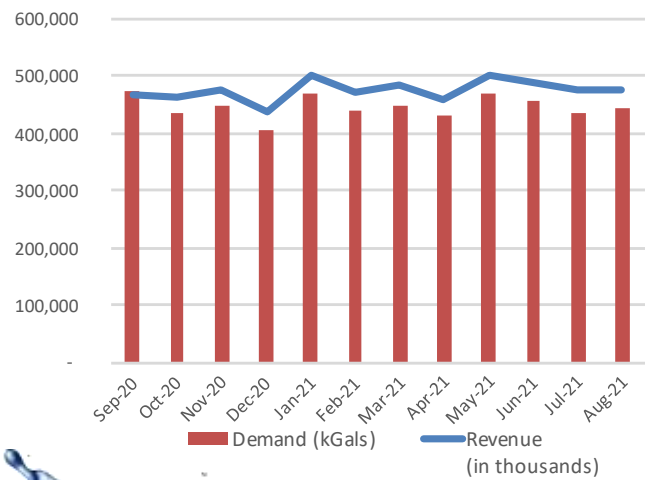
## Overall Revenues and Demand



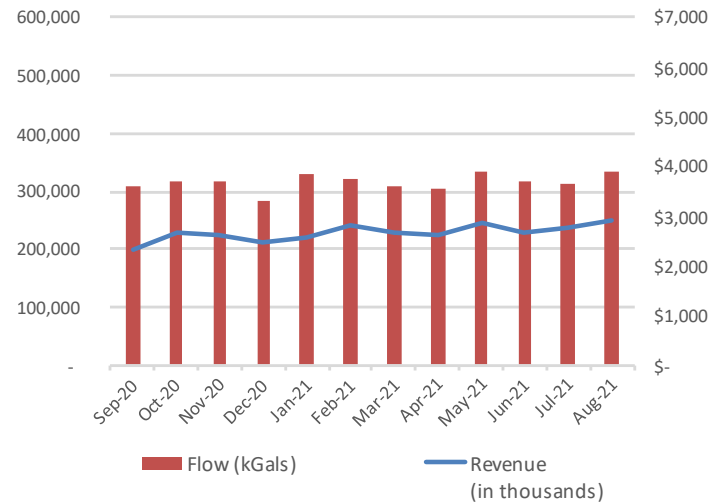


## Revenues and Demand

Water Revenue and Demand



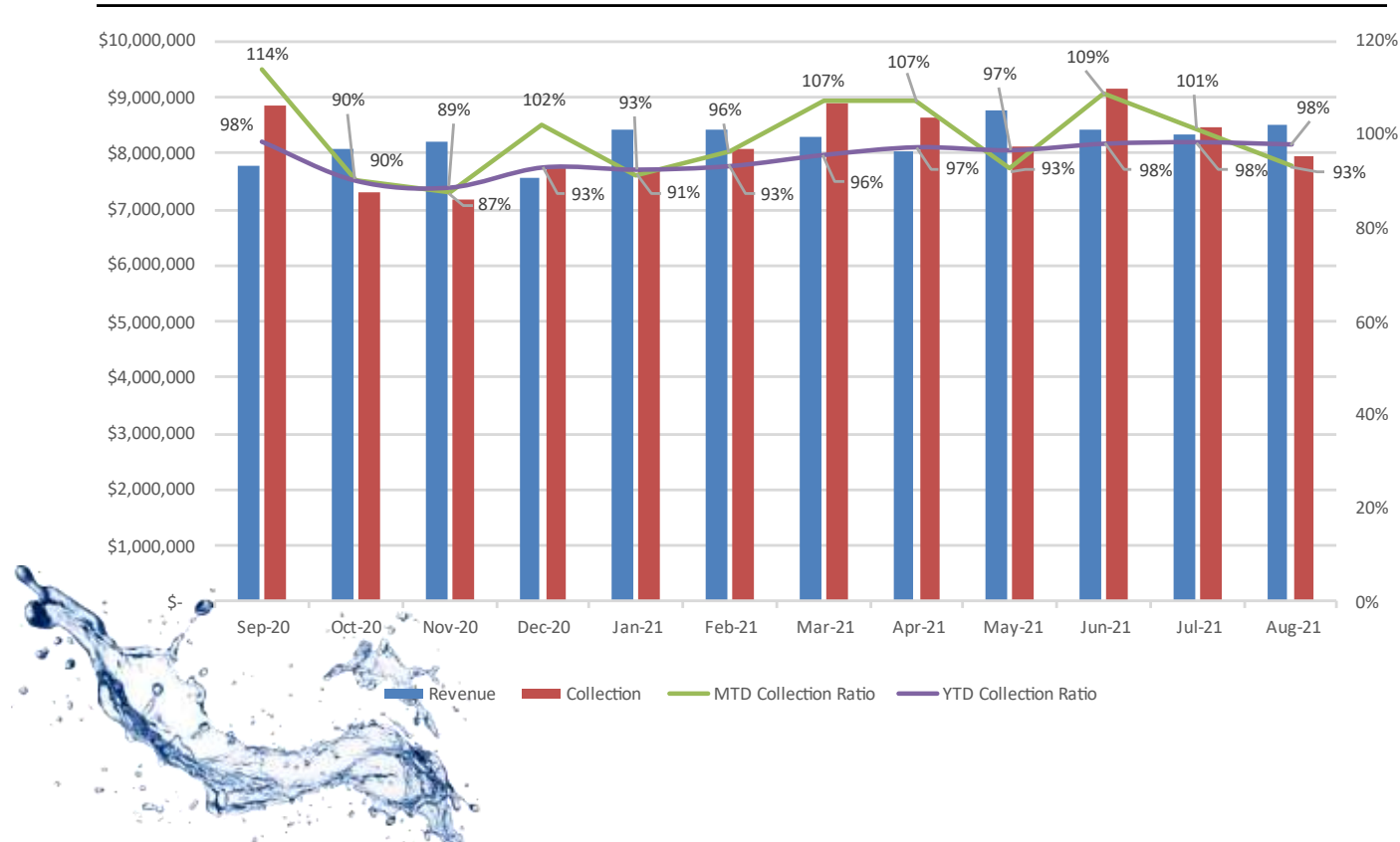
Wastewater Revenue and Flow





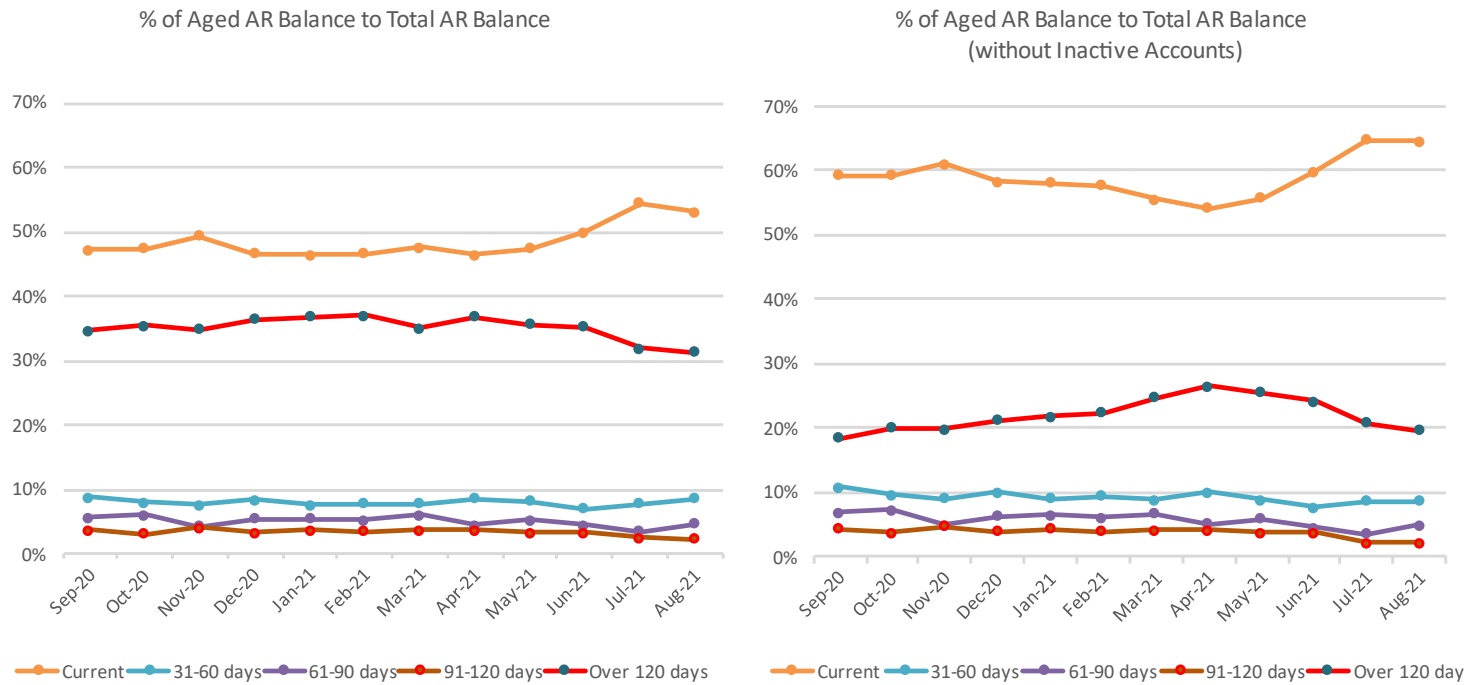


## Overall Revenues and Collections





## Overall – AR Aging



GWA Work Session - September 21, 2021 - DIVISION REPORTS

GWA Utility Services Division  
Monthly Status Report  
Month ending AUG 2021

FY2021 UTILITY SERVICES DIVISION ACTIVITIES	WEEK ENDING:	WEEK ENDING:	WEEK ENDING:	WEEK ENDING:	WEEK ENDING:	AUG 2021 MONTHLY TOTAL	WEEKLY AVERAGE AUG 2021	PREVIOUS MONTH	
	08/07/21	08/14/21	08/21/21	08/28/21	09/04/21			WEEKLY AVERAGE JUL 2021	JUL 2021 MONTHLY TOTAL
<b>Collections Activities:</b>									
I. Number of accounts cut for nonpayment:	32	115	86	116	137	486	97	113	452
II. Number of accounts restored for nonpayment:	38	77	70	82	89	356	71	68	270
III. Number of No water reports responded to:	3	0	3	1	3	10	2	0	0
IV. Number of Secure/Unsecure valve reports responded to:	6	0	3	1	3	13	3	0	0
V. Number of Verify reads responded to:	6	2	4	1	6	19	4	0	0
VI. Number of new pay plans negotiated for active accounts:	65	91	96	98	99	449	90	87	347
VII. Number of active pay plans negotiated and ongoing:	726	766	764	779	733		754	757	
VIII. Number of inactive accounts with a payment arrangement:	9	9	9	9	9		9	9	
IX. Number of broken payment plans:	106	28	47	35	111	327	65	60	238
<b>Customer Service Activities (lobby visits):</b>									
<b>A. GBN Public Service Building – Fadian</b>									
i. Total Customers Assisted:	223	204	189	203	234	1053	211	189	754
ii. Total Abandoned Requests:	9	9	4	3	10	35	7	7	28
iii. Average Wait Time:	7 minutes	7 minutes	7 minutes	5 minutes	9 minutes		7 minutes	8.25 minutes	
iv. Average Service Time:	12 minutes	11 minutes	10 minutes	12 minutes	12 minutes		11.4 minutes	10.5 minutes	
v. Purpose of lobby visit:									
1. Apply for water:	57	59	45	46	72	279	56	47	188
2. Restore water cut for non payment:	2	12	7	4	9	34	7	9	35
3. Terminate Water:	14	10	7	9	16	56	11	10	40
4. Copy of Bill:	18	24	26	25	23	116	23	13	50
5. Billing Dispute:	36	32	33	37	51	189	38	58	232
6. Billing Dispute follow up:	0	0	0	0	0	0	0	0	0
7. General Questions & Other:	90	61	64	70	60	345	69	44	175
8. Report a water leak:	0	0	0	0	0	0	0	0	0
9. Report water theft:	0	0	0	0	0	0	0	0	0
10. Payment Arrangement:	9	9	9	12	6	45	9	7	29
<b>B. Julate Satellite Office – Hagatna</b>									
i. Total Customers Assisted:	161	162	136	182	173	814	163	160	639
ii. Total Abandoned Requests:	10	6	3	8	3	30	6	9	35
iii. Average Wait Time:	6 minutes	4 minutes	3 minutes	7 minutes	5 minutes		5 minutes	5.75 minutes	
iv. Average Service Time:	11 minutes	10 minutes	11 minutes	11 minutes	11 minutes		10.8 minutes	10 minutes	
v. Purpose of lobby visit:									
1. Apply for water:	58	53	37	53	55	256	51	43	172
2. Restore water cut for non payment:	12	11	9	15	12	59	12	14	56
3. Terminate Water:	13	10	15	15	14	67	13	14	55
4. Copy of Bill:	17	29	24	25	29	124	25	28	113
5. Billing Dispute:	35	30	30	46	33	174	35	31	124
6. Billing Dispute follow up:	0	0	0	0	0	0	0	1	2
7. General Questions & Other:	24	25	16	22	22	109	22	26	105
8. Report a water leak:	0	0	0	0	0	0	0	0	0
9. Report water theft:	0	0	0	0	0	0	0	0	0
10. Payment Arrangement:	2	9	8	8	11	38	8	7	28
<b>C. Upper Tumon Satellite Office – Upper Tumon</b>									
i. Total Customers Assisted:	206	172	155	210	211	954	191	186	745
ii. Total Abandoned Requests:	11	4	3	4	7	29	6	5	20
iii. Average Wait Time:	5 minutes	2 minutes	1 minutes	3 minutes	5 minutes		3.2 minutes	3.5 minutes	
iv. Average Service Time:	12 minutes	14 minutes	11 minutes	14 minutes	13 minutes		12.8 minutes	14.5 minutes	
v. Purpose of lobby visit:									
1. Apply for water:	72	68	43	73	59	315	63	58	233
2. Restore water cut for non payment:	12	10	7	17	27	73	15	18	70
3. Terminate Water:	28	15	14	25	21	103	21	19	74
4. Copy of Bill:	16	17	17	9	12	71	14	14	56
5. Billing Dispute:	41	42	51	56	64	254	51	50	201
6. Billing Dispute follow up:	1	1	0	0	0	2	0	0	0
7. General Questions & Other:	33	15	17	28	24	117	23	25	98
8. Report a water leak:	0	0	0	0	0	0	0	1	2
9. Report water theft:	0	1	0	0	0	1	0	0	0
10. Payment Arrangement:	9	6	11	7	7	40	8	6	22

GWA Work Session - September 21, 2021 - DIVISION REPORTS

GWA Utility Services Division  
Monthly Status Report  
Month ending AUG 2021

FY2021 UTILITY SERVICES DIVISION ACTIVITIES	WEEK	WEEK	WEEK	WEEK		AUG 2021	WEEKLY	PREVIOUS MONTH	
	ENDING:	ENDING:	ENDING:	ENDING:	WEEK ENDING:	MONTHLY	AVERAGE	WEEKLY	JUL 2021
	08/07/21	08/14/21	08/21/21	08/28/21	09/04/21	TOTAL	AUG 2021	AVERAGE JUL 2021	MONTHLY TOTAL
<b>Customer Service Activities (Electronic):</b>									
i. Emails Received:									
1. customers@guamwaterworks.org:	129	126	133	156	167	711	142	166	665
Request type (email):									
a. Apply for water:	24	27	22	28	31	132	26	38	152
b. Terminate Water:	15	11	16	17	19	78	16	18	71
c. Copy of Bill:	3	4	1	5	6	19	4	5	21
d. Billing Dispute & follow up:	7	5	6	10	8	36	7	10	41
e. General Questions & Other:	42	44	47	51	73	257	51	60	238
f. Report a water leak:	16	9	13	16	12	66	13	9	37
g. Report water theft:	0	0	0	0	0	0	0	0	0
h. Online services inquiry:	22	26	28	29	18	123	25	26	104
2. gwaservesme@guamwaterworks.org (realtors/prop	0	0	0	0	0	0	0	0	1
ii. Emails Replied (both):	124	128	108	95	158	613	123	126	505
iii. Online Portal:									
Request type (online portal):									
a. Start Service:	0	1	2	0	3	6	1	2	6
b. Stop Service:	3	1	1	1	2	8	2	1	5
c. Payment Plan:	0	1	1	1	0	3	1	1	3
d. Customer Information Updates:	0	0	0	0	0	0	0	0	1
e. Service Investigations:	2	2	0	0	0	4	1	0	1
f. Account Inquiries:	2	2	3	3	1	11	2	1	3
g. Technical Support:	1	0	0	0	0	1	0	0	1
h. Outages & Emergencies:	1	0	0	0	1	2	0	0	1
<b>Call Center Activities:</b>									
i. Calls Received:	1032	1335	1165	1093	1840	6465	1293	1283	5131
ii. Calls Immediately Answered:	676	773	676	657	849	3631	726	610	2439
iii. Calls Abandoned:	48	55	56	55	84	298	60	62	247
iv. Calls Handled by Voice mail:	308	505	432	380	871	2496	499	611	2442
v. Average duration of call:	3 minutes	4 minutes	4 minutes	5 minutes	6 minutes		4.4 minutes	4.25 minutes	
vi. Breakdown by request type:									
1. Apply/Terminate info:	30	28	31	26	22	137	27	28	113
2. Automated Telephone Call:	0	0	2	1	4	7	1	1	5
3. Balance Inquiry:	99	90	74	55	65	383	77	71	282
4. Call Back:	12	19	15	16	30	92	18	9	37
5. Dispatch:	20	28	11	10	8	77	15	28	113
6. Dispute:	1	0	2	1	0	4	1	0	1
7. Follow-up:	41	39	38	40	56	214	43	33	131
8. General Questions & Other:	208	244	207	206	280	1145	229	192	768
9. Route Calls to GWA Staff:	131	139	108	114	128	620	124	97	387
10. No Water:	11	25	19	20	67	142	28	31	123
11. Online/Phone App Help:	34	33	30	25	35	157	31	31	125
12. Pay by Phone:	116	95	79	78	117	485	97	81	322
13. Pay Plan:	49	37	41	41	63	231	46	33	131
14. Restore Non-payment:	3	20	25	20	12	80	16	24	96
15. Secure/Unsecure Valve:	10	15	15	6	11	57	11	8	33
16. Voice Mail:	39	50	63	58	122	332	66	63	252
17. Water leak:	4	15	5	11	12	47	9	8	32
<b>Bill Dispute &amp; Resolution Activities:</b>									
i. Dispute Resolution:									
1. Number of disputed accounts resolved:	75	35	31	50	19	210	42	10	41
2. Number of disputed accounts under review:	1734	1708	1684	1749	1693		1714	1714	
<b>Data Entry of Completed Field work in CIS:</b>									
i. Document Control:									
1. Number of field activities posted:	220	465	297	213	270	1465	293	263	1050
2. Number of field activities pending:	392	293	259	167	336	1447	289	316	1263
<b>Field Response Activities:</b>									
I. Number of field activities assigned:	318	258	221	207	316	1320	264	225	901
II. Number of field activities completed:	344	293	263	186	331	1417	283	247	986
III. Number of field activities pending field action:	3	2	0	2	1	8	2	3	13

GWA Work Session - September 21, 2021 - DIVISION REPORTS

GWA Utility Services Division  
 Monthly Status Report  
 Month ending AUG 2021

FY2021 UTILITY SERVICES DIVISION ACTIVITIES	WEEK	WEEK	WEEK	WEEK		AUG 2021	WEEKLY	PREVIOUS MONTH	
	ENDING:	ENDING:	ENDING:	ENDING:	WEEK ENDING:	MONTHLY	AVERAGE AUG	WEEKLY	JUL 2021
	08/07/21	08/14/21	08/21/21	08/28/21	09/04/21	TOTAL	2021	AVERAGE JUL	MONTHLY
<b>Meter Reading Activities:</b>									
I. Number of meters read:									
A. Electronically Read Meters:	9745	13906	13252	5705	30	42638	8528	9012	36048
B. Manually Read Meters:	41	36	28	26	1	132	26	26	102
i. Unread meters (Meters scheduled but not read):	8	25	6	16	5	60	12	10	38
ii. Number of data logs received:	33	22	22	23	2	102	20	27	106
iii. Number of data logs retrieved:	37	25	6	39	4	111	22	25	100
iv. Number of data logs pending field action:	0	0	0	0	0	0	0	0	1
v. Communication Errors/Reprogramming requests:	0	0	0	0	0	0	0	1	4
vi. Number of estimated readings (for the week):	217	219	173	177	9	795	159	209	836
vii. Reasons for Estimations:									
1. Cant locate meter:	6	0	0	4	0	10	2	1	3
2. Temporary Obstruction:	1	4	0	0	1	6	1	0	0
3. Vicious Dog:	0	0	0	0	0	0	0	0	0
4. Flooded meter:	1	0	1	0	0	2	0	1	3
5. Corrective action to database requested:	1	2	5	3	0	11	2	5	19
6. Possible changed out meter:	6	8	0	4	2	20	4	8	33
7. Communication/Programming error (code 92's):	3	1	0	2	0	6	1	1	2
8. Other:									
a. Leaks detected on customer's private line:	1389	2428	2189	732	3	6741	1348	1418	5673
b. Reverse Flow Detected:	190	172	159	140	0	661	132	177	708
c. No Usage Detected:	342	357	385	260	6	1350	270	279	1115
d. Tamper Code:	0	0	0	2	0	2	0	5	19
C. Electronic Read Percentage:	99.58%	99.74%	99.79%	99.55%	96.77%		99.1%	99.7%	
<b>Illegal Connection &amp; Unauthorized Use of Water Activities:</b>									
I. Number of Inactive Still Consuming Reports rec'd & investigated:	0	2	1	0	0	3	1	1	4
II. Number of Illegal Connection reports rec'd & investigated:	0	1	0	0	0	1	0	2	7



## **Engineering Monthly Report September 2021**

**Prepared By:**

**Barbara C. Cruz, P.E.  
Acting Chief Engineer**

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**A. Summary Table of 2010, 2013, 2016 and 2020 Bonds****Potable Water**

CIP #	CIP Description	2016 Bond Allotment	% Encumbered	% Available	2020 Bond Allotment	% Encumbered	% Available
PW 05-01	Ground Water Disinfection	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 05-03	Santa Rita Springs Booster Pump Rehab Phase II	\$ -	N/A	N/A	\$ -	N/A	N/A
PW-05-05	"A Series Well Transmission Line	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 05-06	Water Booster Pump Station	\$ -	N/A	N/A	\$ 700,000.00	0.00%	100.00%
PW 05-07	Meter Replacement Program	\$ 1,400,000.00	100.00%	0.00%	\$ -	N/A	N/A
PW 05-08	Barriqada Tank Repair/Replacement	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 05-09	Leak Detection	\$ 100,000.00	0.00%	100.00%	\$ 400,000.00	0.00%	100.00%
PW 05-10	Potable Water System Planning	\$ 876,294.00	99.99%	0.01%	\$ 400,000.00	0.00%	100.00%
PW 05-11	Implement Ground Water Rule	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 05-12	Brigade II (Ugum Lift) BPS Upgrade	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 05-13	Deep Well Rehabilitation	\$ 250,000.00	44.01%	55.99%	\$ 350,000.00	0.00%	100.00%
PW 05-14	New Deep Wells at Down Hard	\$ 1,190,000.00	0.00%	100.00%	\$ 500,000.00	0.00%	100.00%
PW 05-15	Rehabilitation of Asan Springs	\$ -	N/A	N/A	\$ 550,000.00	0.00%	100.00%
PW 05-16	Master Meters	\$ 2,151,539.00	90.70%	9.30%	\$ -	N/A	N/A
PW 09-01	Ugum Water Treatment Plant Intake	\$ -	N/A	N/A	\$ 600,000.00	0.00%	100.00%
PW 09-02	Water Wells	\$ 2,500,000.00	6.80%	93.20%	\$ 500,000.00	0.00%	100.00%
PW 09-03	Water Distribution System	\$ -	N/A	N/A	\$ 2,250,000.00	100.00%	0.00%
PW 09-04	Pressure Zone Realignment	\$ 1,141,000.00	100.00%	0.00%	\$ -	N/A	N/A
PW 09-06	Central Water Distribution System 2005	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 09-08	Mechanical/Electrical Equipment	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 09-09	Water Reservoir Internal/External	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 09-10	Water Reservoir Internal/External	\$ 800,000.00	100.00%	0.00%	\$ -	N/A	N/A
PW 09-11	Water System Reservoirs 2005 Improvements	\$ 58,830,170.00	97.65%	2.35%	\$ 25,900,000.00	0.00%	100.00%
PW 11-01	Distribution System Upgrades	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 11-02	Ugum Water Treatment Plant Reservoir	\$ -	N/A	N/A	\$ 7,500,000.00	0.00%	100.00%
PW 12-01	Water Audit Program & Water Loss Control Plan	\$ 550,000.00	90.75%	9.25%	\$ -	N/A	N/A
PW 12-02	Production Plan / Reduce Navy Purchases	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 12-03	Hydraulic Assessment of Tanks	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 12-04	Agana Heights & Chaot Tanks	\$ 1,220,000.00	100.00%	0.00%	\$ -	N/A	N/A
PW 12-05	Tank Major Repair Yigo #1, Mangilao #2, Astumbo#1	\$ 1,822,133.00	100.00%	0.00%	\$ -	N/A	N/A
PW 12-06	Tank Replacement Piti & Hyundai	\$ 7,300,000.00	100.00%	0.00%	\$ 6,500,000.00	0.00%	100.00%
PW 12-07	Assessment of Malojloj Elevated & Yigo Elevated	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 12-08	Public Water System Asset Inventory/ Condition Assessment	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 12-09	Public Water System GIS & Mapping	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 14-01	Fire Hydrant Replacement Program	\$ 1,200,000.00	99.70%	0.30%	\$ -	N/A	N/A
MP-PW-Pipe-01	Astumbo Zone Piping				\$ -	N/A	N/A
MP-PW-Pipe-02	Route 1 Astumbo Zone Piping				\$ -	N/A	N/A
MP-PW-Pipe-03	Harmon Cliffline Piping to Route 1				\$ -	N/A	N/A
MP-PW-Pipe-04	Hyundai Well Piping				\$ 500,000.00	0.00%	100.00%
MP-PW-Pipe-05	Kaiser Zone Looping				\$ 300,000.00	0.00%	100.00%
MP-PW-Pipe-06	Mangilao Pressure Zone Realignment				\$ 300,000.00	0.00%	100.00%
MP-PW-Pipe-07	Mataquac BPS Suction Piping				\$ 500,000.00	0.00%	100.00%
MP-PW-Pipe-08	Nimitz Lower BPS Piping				\$ -	N/A	N/A
MP-PW-Pipe-09	Yigo, Santa Rosa Zone Realignment				\$ -	N/A	N/A
MP-PW-Pipe-10	Miscellaneous Piping Projects				\$ 200,000.00	0.00%	100.00%
MP-PW-Pipe-11	Miscellaneous Piping Connections				\$ 200,000.00	0.00%	100.00%
MP-PW-Pipe-12	Rehabilitation and Replacement Program				\$ 2,000,000.00	11.98%	88.02%
MP-PW-Pipe-13	2-Inch Pipe Replacement Program				\$ 3,330,000.00	0.00%	100.00%
MP-PW-Pipe-14	Asbestos Cement Pipe Replacement Program				\$ -	N/A	N/A
MP-PW-Pipe-15	PRV Rehab and Replacement				\$ 2,050,000.00	0.00%	100.00%
MP-PW-Pipe-16	Valve Exercise, Repair, and Replacement Program				\$ 250,000.00	0.00%	100.00%
MP-PW-Pipe-17	Cross Island Highway Piping				\$ 100,000.00	0.00%	100.00%
MP-PW-Tank-22	Existing Tank Inspections				\$ 150,000.00	0.00%	100.00%
MP-PW-Tank-23	Recurring Tank Inspections				\$ 400,000.00	0.00%	100.00%
MP-PW-BPS-01	Rehabilitate and Replace BPSs				\$ 409,000.00	0.00%	100.00%
MP-PW-BPS-02	Nimitz Hill Upper BPS				\$ 48,000.00	0.00%	100.00%
MP-PW-BPS-03	Route 15 BPS				\$ -	N/A	N/A
MP-PW-SWTP-01	Ugum SWTP River Intake Cleaning Project				\$ 380,000.00	0.00%	100.00%
MP-PW-SWTP-02	Ugum SWTP Intake Modifications				\$ 1,174,000.00	0.00%	100.00%
MP-PW-SWTP-03	Ugum SWTP Reliability Improvements				\$ 1,150,000.00	22.84%	77.16%
MP-PW-SWTP-04	Ugum SWTP 7-Year Improvement Project				\$ -	N/A	N/A
MP-PW-Well-01	Well Rehabilitation Program				\$ 3,600,000.00	0.00%	100.00%
MP-PW-Well-02	Well Equipment Overhaul Program				\$ -	N/A	N/A
MP-PW-Well-03	Capacity Enhancement – Well Exploration Program				\$ 500,000.00	0.00%	100.00%
MP-PW-Well-04	Capacity Enhancement – Well Development and Construction				\$ -	N/A	N/A
MP-PW-Well-05	Wellhead Protection Program				\$ 300,000.00	0.00%	100.00%
MP-PW-Well-06	Well Repair Program				\$ 1,200,000.00	0.00%	100.00%
MP-PW-Misc-01	South Guam Water Supply Study				\$ 100,000.00	0.00%	100.00%
MP-PW-Misc-02	Master Meter Implementation and Ongoing Meter Replacement				\$ 750,000.00	0.00%	100.00%
MP-PW-Misc-03	Hydrant Condition Assessment and Maintenance				\$ -	N/A	N/A
MP-PW-Misc-04	OneGuam Program				\$ 100,000.00	0.00%	100.00%
MP-PW-Misc-05	Leak Detection Assistance				\$ 150,000.00	0.00%	100.00%
DoD-3	Rehabilitation and New NGLA Monitoring Wells				\$ -	N/A	N/A
		\$ 81,331,136.00			\$ 66,291,000.00		



## Wastewater

CIP #	CIP Description	2016 Bond Allotment	% Encumbered	% Available	2020 Bond Allotment	% Encumbered	% Available
WW 05-04	Wastewater System Planning	\$ 312,983.00	100.00%	0.00%	\$ 150,000.00	56.32%	43.68%
WW 05-05	Wastewater Vehicles	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 05-07	NDWWTP - Chlorine Tanks	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 09-01	Lift station upgrades	\$ 1,714,755.00	74.52%	25.48%	\$ 1,050,000.00	0.00%	100.00%
WW 09-06	Wastewater Collection System Repl/ Rehabilitation	\$ 1,055,478.00	60.53%	39.47%	\$ 1,400,000.00	6.91%	93.09%
WW 09-08	Facilities Plan/Design for Baza Gardens WWTP	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 09-10	Facilities Plan/Design for Agat-Santa Rita WWTP	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 11-03	Baza Gardens STP Replacement	\$ 25,048,522.50	90.16%	9.84%	\$ -	N/A	N/A
WW 11-04	Facilities Plan/Design for Umatac-Merizo WWTP	\$ 252,105.00	100.00%	0.00%	\$ -	N/A	N/A
WW 11-08	Agat/Santa Rita STP Replacement	\$ 2,226,659.06	89.93%	10.07%	\$ -	N/A	N/A
WW 12-01	Northern District WWTP Primary Treatment Upgrade	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 12-02	Biosolids Management Plan	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 12-03	Agana WWTP Interim Measures	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 12-04	I&I SSES Southern	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 12-05	I&I SSES Central	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 12-06	I&I SSES Northern	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 12 -07	Umatac Merizo Replacement	\$ 20,952,871.63	99.89%	0.11%	\$ -	N/A	N/A
WW 12-08	Wastewater System GIS & Mapping	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 12-09	Wastewater Facility Back Up Power	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 12-10	Wastewater System Asset Inventory	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 17-01	Wastewater Sewer System Expansion	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 17-02	Northern District WWTP Secondary Treatment Upgrade	\$ -	N/A	N/A	\$ -	N/A	N/A
MP-WW-Pipe-01	Gravity Pipe Rehabilitation/Replacement Program				\$ 1,970,000.00	0.00%	100.00%
MP-WW-Pipe-02	Barrigada Pump Station Pipe Rehabilitation/Replacement				\$ -	N/A	N/A
MP-WW-Pipe-03	Route 1 Pitti Pipe Rehabilitation/Replacement				\$ 940,000.00	0.00%	100.00%
MP-WW-Pipe-04	Southern Link Pump Station Pipe Rehabilitation/Replacement				\$ 657,000.00	0.00%	100.00%
MP-WW-Pipe-05	Agana Heights Pipe Replacement				\$ -	N/A	N/A
MP-WW-Pipe-06	Northern District Route 1 Capacity Replacement - Phase 1				\$ -	N/A	N/A
MP-WW-Pipe-07	Northern District Route 1 Capacity Replacement - Phase 2				\$ -	N/A	N/A
MP-WW-Pipe-08	Northern District Route 1 Capacity Replacement - Phase 3				\$ -	N/A	N/A
MP-WW-Pipe-09	North Deddo Capacity Replacement - Phase 1				\$ -	N/A	N/A
MP-WW-Pipe-10	North Deddo Capacity Replacement - Phase 2				\$ -	N/A	N/A
MP-WW-Pipe-11	Route 16 Capacity Replacement				\$ -	N/A	N/A
MP-WW-Pipe-12	Barrigada Capacity Replacement				\$ -	N/A	N/A
MP-WW-Pipe-13	Mangilao Capacity Replacement				\$ -	N/A	N/A
MP-WW-Pipe-14	Deddo Capacity Replacement				\$ -	N/A	N/A
MP-WW-Pipe-16	Yigo Capacity Replacement				\$ -	N/A	N/A
MP-WW-Pipe-17	Mamajanao Capacity Replacement				\$ 814,000.00	0.00%	100.00%
MP-WW-Pipe-18	Agat-Santa Rita Capacity Replacement - Phase 1				\$ -	N/A	N/A
MP-WW-Pipe-19	Agat-Santa Rita Capacity Replacement - Phase 2				\$ -	N/A	N/A
MP-WW-Pipe-20	Agat-Santa Rita Capacity Replacement - Phase 3				\$ -	N/A	N/A
MP-WW-Pipe-21	Baza Gardens Capacity Replacement - Phase 1				\$ -	N/A	N/A
MP-WW-Pipe-22	Baza Gardens Capacity Replacement - Phase 2				\$ -	N/A	N/A
MP-WW-Pipe-23	Baza Gardens Capacity Replacement - Phase 3				\$ -	N/A	N/A
MP-WW-Pipe-24	Umatac-Merizo Capacity Replacement				\$ -	N/A	N/A
MP-WW-Pipe-25	Piping Near Bayside Lift Station				\$ -	N/A	N/A
MP-WW-Pipe-26	Finile Drive Rehabilitation - Agat				\$ 813,000.00	0.00%	100.00%
MP-WW-Pipe-27	Septic/Cesspool System Reduction Program				\$ 350,000.00	0.00%	100.00%
MP-WW-MH-01	Manhole Rehabilitation Program				\$ 350,000.00	0.00%	100.00%
MP-WW-FM-01	Force Main Rehabilitation/Replacement Program				\$ 100,000.00	0.00%	100.00%
MP-WW-FM-02	Replace Yigo Lift Station Force Main				\$ 200,000.00	0.00%	100.00%
MP-WW-FM-03	Route 1 Asan Force Main Rehabilitation/Replacement				\$ 2,124,000.00	0.00%	100.00%
MP-WW-FM-04	Hagåtña WWTP Force Main Rehabilitation/Replacement				\$ 6,600,000.00	0.00%	100.00%
MP-WW-Pump-01	Lift Station Rehabilitation/Replacement Program				\$ 8,320,000.00	0.00%	100.00%
MP-WW-Pump-02	Tumon Basin - Fujita Lift Station Analysis				\$ 9,600,000.00	0.00%	100.00%
MP-WW-Pump-03	Replacement of Former Navy Pump Station (Donut Hole)				\$ 1,301,000.00	0.00%	100.00%
MP-WW-WWTP-01	Hagåtña WWTP Primary Treatment Repair/Rehabilitation Program				\$ -	N/A	N/A
MP-WW-WWTP-02	Hagåtña WWTP Secondary Treatment Upgrade				\$ -	N/A	N/A
MP-WW-WWTP-03	Inarajan WWTP Repair/Rehabilitation Program				\$ -	N/A	N/A
MP-WW-WWTP-04	Pago Socio WWTP Pump Station Conversion				\$ -	N/A	N/A
MP-WW-WWTP-05	Umatac-Merizo WWTP Repair/Rehabilitation Program				\$ -	N/A	N/A
MP-WW-WWTP-06	Agat-Santa Rita WWTP Repair/Rehabilitation Program				\$ -	N/A	N/A
MP-WW-WWTP-07	Baza Gardens Cross Island Pipeline - Preliminary Treatment Equipment Repair and Rehabilitation Program				\$ -	N/A	N/A
MP-WW-WWTP-08	Northern District WWTP Completion				\$ 7,500,000.00	0.00%	100.00%
MP-WW-WWTP-09	Ocean Outfall Inspection Program				\$ 100,000.00	0.00%	100.00%
MP-WW-Misc-01A	Update Wastewater Collection System Model (Major Update)				\$ -	N/A	N/A
MP-WW-Misc-01B	Update Wastewater Collection System Model (Continued)				\$ 50,000.00	0.00%	100.00%
MP-WW-Misc-02	I/I and SSES Assessments				\$ 50,000.00	0.00%	100.00%
MP-WW-Misc-03	Miscellaneous Wastewater Improvements				\$ 500,000.00	0.00%	100.00%
MP-WW-Misc-04	Fats, Oils, and Grease Study				\$ 50,000.00	0.00%	100.00%
DoD-01	NDWWTP Secondary Treatment Capacity 12MGD				\$ -	N/A	N/A
DoD-02	Northern Systems Wastewater System				\$ -	N/A	N/A
		\$ 51,563,374.19			\$ 44,989,000.00		

## Electrical Engineering Support

CIP #	CIP Description	2016 Bond Allotment	% Encumbered	% Available	2020 Bond Allotment	% Encumbered	% Available
EE 05-02	SCADA Pilot Project	\$ -	N/A	N/A	\$ -	N/A	N/A
EE 09-01	Wastewater Pumping Station Electrical Upgrade	\$ -	N/A	N/A	\$ -	N/A	N/A
EE 09-02	Electrical Upgrade - Water Wells	\$ -	N/A	N/A	\$ -	0.00%	0.00%
EE 09-03	Electrical Upgrade - Water Booster	\$ -	N/A	N/A	\$ -	N/A	N/A
EE 09-04	Electrical Upgrade - Water Booster	\$ -	N/A	N/A	\$ 150,000.00	0.00%	100.00%
EE 09-05	Electrical Upgrade - Other Water	\$ -	N/A	N/A	\$ 100,000.00	0.00%	100.00%
EE 09-06	SCADA Improvements - Phase 1	\$ -	N/A	N/A	\$ -	N/A	N/A
EE 09-07	SCADA Improvements - Phase 2	\$ -	N/A	N/A	\$ 45,000.00	0.00%	100.00%
EE 09-08	SCADA Improvements - Phase 3	\$ 1,077,497.00	74.43%	25.57%	\$ 25,000.00	0.00%	100.00%
EE 09-09	SCADA Improvements - Phase 4	\$ 4,378,118.00	79.29%	20.71%	\$ -	N/A	N/A
MP-Gen-EE-01	SCADA Implementation Phase A2 – Initial Project Completion				\$ 4,250,000.00	0.00%	100.00%
MP-Gen-EE-02	SCADA Implementation Phase B – Additional Sites				\$ -	N/A	N/A
MP-Gen-EE-03	SCADA Implementation Phase C – Additional Instruments				\$ -	N/A	N/A
MP-Gen-EE-04	SCADA System Improvement Program				\$ -	N/A	N/A
		\$ 5,455,615.00			\$ 4,570,000.00		

## Miscellaneous Engineering Support

CIP #	CIP Description	2016 Bond Allotment	% Encumbered	% Available	2020 Bond Allotment	% Encumbered	% Available
MC 05-01	Laboratory Modernization	\$ 1,127,000.00	100.00%	0.00%	\$ -	N/A	N/A
MC 05-02	Land Survey	\$ 1,260,524.00	99.35%	0.65%	\$ -	N/A	N/A
MC 09-01	General Plant Improvements	\$ 1,543,760.00	88.61%	11.39%	\$ -	N/A	N/A
MC 15-01	Information Technology Intergration Improvements	\$ 664,412.00	78.85%	21.15%	\$ -	N/A	N/A
MP-Gen-Misc-01	GWA Systems Planning				\$ 550,000.00	30.22%	69.78%
MP-Gen-Misc-02A	WRMP Update (Comprehensive Update)				\$ -	N/A	N/A
MP-Gen-Misc-02B	WRMP Update (Interim Update)				\$ 200,000.00	0.00%	100.00%
MP-Gen-Misc-03	Surveying and Property Delineation				\$ 250,000.00	0.00%	100.00%
MP-Gen-Misc-04	Information Technology Improvements				\$ 1,650,000.00	79.83%	20.17%
MP-Gen-Misc-05	GWA Infrastructure Improvements				\$ 2,500,000.00	4.59%	95.41%
MP-Gen-Misc-06	GPWA Fleet Maintenance Facility				\$ 500,000.00	0.00%	100.00%
MP-Gen-Misc-07	Mobile Equipment Replacement Program				\$ 800,000.00	0.00%	100.00%
MP-Gen-Misc-08	General Plant Improvements				\$ 1,000,000.00	0.00%	100.00%
MP-Gen-Misc-09	Security and Resilience Program				\$ 200,000.00	0.00%	100.00%
		\$ 4,595,696.00			\$ 7,650,000.00		

	2016 Bond Allotment	2020 Bond Allotment
CIP Water	\$ 81,331,136	\$ 66,291,000
CIP Wastewater	\$ 51,563,374	\$ 44,989,000
CIP Electrical	\$ 5,455,615	\$ 4,570,000
CIP Miscellaneous	\$ 4,595,696	\$ 7,650,000
	<b>\$ 142,945,821</b>	<b>\$ 123,500,000</b>

Bond Fund	Construction Fund Amount (\$M)	Estimated # of months fund available for use	Total Funds encumbered to date (\$M)**	% of fund used	Rate of Spending: (\$M) per year
2005	\$82.930	82*	\$82.930	100.00%	12.14
2010	\$87.656	127**	\$84.303	96.18%	7.97
2013	\$140.819	89**	\$136.891	97.21%	18.46
2016	\$142.946	59**	\$132.476	92.68%	26.94
2020	\$123.590	14**	\$4.532	3.67%	3.88

\* End date November 2013 via CCU Resolution 06-FY2014

\*\* Includes month of August 2021

\*\*\* Includes Expenses Only

**B. Projects Procurement**Percentage Key:

100%	Approved by GM
99%	Signature required from either Accounting/Legal/GM
98%	Processing engineering service or construction contract (with legal)
95%	Request for CCU approval (GM/engineering)
90%	A/E fee negotiation or contractor bid evaluation (engineering)
80%	Selected A/E or Conducted bid opening (engineering)
70%	Advertised RFP/IFB (engineering)
60%	RFP/IFB Package under legal review
50%	RFP/IFB Package completed (engineering)
Less than 50%	Project Scope of work development in progress

- Red text anywhere indicates a change from the last report.

**BOX KEY FOR PROCUREMENT:**

<b>(Type of Procurement)</b> (Relevant CIP NO. or Funding Source)	<b>(Project Title)</b>	
(Percentage complete for procurement)	<b>Activities/Notes:</b> (see percentage key above)	<b>Consultant</b> (listed when selected)
Project Description	Summary of project description	

<b><u>BID PACKAGE</u></b> PW 09-02	<b>New Well Construction (AG-10-Y-8 &amp; AG-12)</b>	
<50% Complete	<b>Activities/Notes:</b> GWA engineering continuing discussion with Dept. of Agriculture and lessee on options of acquisition of property for well site at AG-12. Internal GWA discussions underway for survey and appraisal services. GWA executed Change Order with GHD to update the design plans specific to the new well locations.	
Project Description:	The project is to construct three new production wells for GWA as well as installation of a water main to connect the new production wells to the Ysengsong Reservoirs.	

<b>RFP</b> PW 09-02	<b>New Well Construction (Construction Management)</b>	
<50% Complete	<b>Activities/Notes:</b> SOW being developed	
Project Description:	The work performed under this project procurement shall consist of Construction Management and Inspection Services for the construction of up to three (3) new production wells for GWA. GWA plans to increase source water production to improve system redundancy that allows for operating the water production wells more effectively. The overall goal of the Construction Manager (CM) is to manage the entire construction process so that the project can be delivered efficiently and professionally.	

<b>RFP</b> USEPA	<b>Design of Fujita Sewage Pump Station Redundant Force Main</b>	
<90% Complete	<b>Activities/Notes:</b> Negotiating fee proposal with the selected firm.	
Project Description:	The work to be performed under this project procurement shall consist of identifying redundant force main options and provide the design for the selected option. After the redundant force main is placed in operation, investigate the condition of the original 14-inch force main to determine if repair, relocation, or replacement is needed in order to ensure force main redundancy. Identify options and provide the design for the selected option, including potential use of CIPP and if necessary, pump station upgrades.	

<b>BID PACKAGE</b> USEPA-SRF	<b>Groundwater Wells A-02, A-07, A-12, D-05 and F-03 Rehabilitation (Re-Bid)</b>	
70% Complete	<b>Activities/Notes:</b> Project was advertised for construction on 08/04/2020. The bid proposal deadline has been extended and is due on 10/15/2020 per Addendum no.2. Designer submitted revisions to the plans and specification and will be included in an Addendum no.3 after GWA reviews.  As of 10/15/2020 - No bids were submitted. GWA is conducting feedback with registered bidders to determine cause for no bid submission.  Pending responses for no bid.  EPA funding for A-series project has been transferred to Rte. 1, Phase 2 Sewer: Construction, Deepwell Abandonment: Design, Santa Rita Springs Rehab: Design, and Water Hydraulic Model (Pressure Zone Realignment): Construction.	

Project Description:	Work to be performed under this project consist of rehabilitating four (4) existing production well sites including development, testing and permitting of a new production well.	
<b>BID PACKAGE</b> EE 09-02, EE 09-05 MP-PW-WELL-06	<b>Deep Well Power Line Conditioner Pilot Project</b>	
<50% Complete	<b>Activities/Notes:</b> Review and revisions of the design-build bid document still ongoing.  Lighting System specifications being updated to incorporate energy efficient lighting systems.  Preliminary design plans being updated to incorporate further details and some changes.  This bid will use the design-build bid templates under development for a different project to maintain uniformity and avoid duplication of work.	
Project Description:	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.	

## BOX KEY FOR PROJECT:

<b>(Type of Project)</b> (Relevant CIP NO.)	<b>(Project Title)</b> (Contractor or consultant)	<b>Start Date:</b> (month and year)
(Percentage complete for project)	<b>Activities/Notes:</b> (brief description of activity)	<b>Completion Date:</b> (month and year)
(Court Order Paragraph No.)	(Project type)	
Project Description	Project Description Narrative	

**C. CIP Water Section**

<b>INSPECTION</b> PW 05-02	<b>Inspection &amp; Maintenance Repairs to GWA Island-Wide Steel Water Tank Reservoirs Phase 2 (DCA)</b>	<b>Start Date:</b> April 2010
89% Complete	<b>Activities/Notes:</b> Remaining work is API inspection, API report, structural inspection, tank bypass planning, and partial construction for the repair work.  ID/IQ contract approved on 03/03/2021.  Ongoing CM inspection services for the Yigo no. 3 and Agat-Umatac steel tank repair and Santa Ana bypass work.  Windward Hills API final report received on 03/03/2021.  Continuing review of submittal, RFIs, and project payments.  Conducting meetings.  Astumbo no. 2 tank wall will be re-inspected due to active corrosion. <b>Tank was reinspected the week of 08/30. Inspection report will be submitted the week of the 09/06.</b>	<b>Completion Date:</b> To be determined (TBD)
CO 38C	Engineering inspection services	
Project Description:	The Court Order requires GWA to inspect all active and in some cases inactive water reservoirs. The inspection results will allow GWA to determine if a reservoir requires repair or replacement.	

<b>DESIGN</b> PW 05-12	<b>Brigade II BPS Upgrade (EM Chen)</b>	<b>Start Date:</b> April 2012
100% Complete (Basis of Design) 99% Complete (Design)	<b>Activities/Notes:</b> Design plans and specs <b>revision estimated to be delivered by the week of 09/06/2021.</b>  Last follow up sent to Alan Chen on <b>09/03.</b>	<b>Completion Date:</b> TBD
N/A	Engineering design services	

Project Description:	The design project is intended to assess system water supply feed from the north as well as Ugum WTP and the water demands downstream from the Brigade BPS so as to reconfigure the piping into the BPS and resize the pumps to me system head requirements.
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<b>DESIGN</b> PW 09-11	<b>Northern and Southern Guam Reservoir Design (TG Engineers)</b>	<b>Start Date:</b> May 2015
90% Complete	<p><b>Activities/Notes:</b></p> <p><u>Ugum Reservoir</u> Design is at 90%. Designer is working towards 100%.</p> <p>TGE submitted cost for new instrumentation building and continuation of meetings. Engineering to discuss and negotiate change order cost.</p> <p>Instrumentation building was requested by Ron Topasna. New building to house chlorine analyzers and TOCs equipment. Current location at bps is too small to properly house the equipment. CO no. 6 for Instrumentation building under review. <b>CO no. 7 has been submitted by the EOR to redesign CIDH to pre-cast piles. GWA does not believe that we should be paying for the redesign. The contractor is unable to secure the drilling subcontractor MDI (hollow stem auger) due to the delay in permit issuance. Furthermore, a revised plan to use a different drill rig (conventional flight auger) was submitted to EOR for review and approval. EOR approved the plan in 03/2021; however, the Geotech engineer under the EOR stated in 09/2021 that the conventional flight auger will not work. Ongoing discussions with the EOR, Contractor, CM, and GWA on potential options to move forward. MDI is not available until 02/2022. Contractor is currently in talks with another subcontractor (APDI) on their drill rig availability. From initial talks, their rig is available but they would have to order a larger auger bit. Contractor is in active discussions with APDI. We are also waiting on the EOR to answer design issues questions such a depth of CIDH piles and hole size.</b></p> <p>GWA and TGE are working on the SCADA modification plans and specifications to integrate new tank and processes.</p> <p>Designer is having issues scheduling the Archaeologist to prepare AMDP for submission to SHPO.</p>	<p><b>Completion Date:</b> Completion will be in line with construction completion.</p>

	<p><u>Inarajan and Agfayan Booster Pump Station</u> Biological Assessment and Archaeological report are pending.</p> <p>TGE proceeding with design at both sites. Letter of interest/purchase to DLM/CLTC for Lot 28 is in process. Waiting for CLTC to inform GWA on their choice of appraisal company.</p> <p><u>Santa Rosa, Santa Rita, and Sinifa Reservoir</u> Under construction. See Santa Rosa, Santa Rita, and Sinifa Construction for update.</p>	
CO 29 (b)(4)	Engineering design services	
Project Description:	<p>The design services will consist of preparation of plans, specifications, and estimates (PS&amp;E), which includes Basis of Design, design calculations, hydraulic modeling (EPANET), computational fluid dynamic modeling (CFD), construction schedule, topographical survey, property research, property mapping, geotechnical engineering, cultural resource inventory and evaluation of historic resources, hazardous materials survey, construction documents, design drawings in Auto CAD, relevant permit, construction bid support service, and response to request for interpretation/information during construction. The tank locations are Ugum, Santa Rita, Santa Rosa, Inarajan and Sinifa.</p>	



<b>DESIGN</b> PW 12-04	<b>Central Guam Reservoirs Design (GHD Inc.)</b>	<b>Start Date:</b> May 2015
93% Complete	<p><b>Activities/Notes:</b></p> <p><u>Tamuning No. 2 Reservoir and Tamuning Booster Pump Station</u> 90% design submitted. Plans are under review by GWA.</p> <p>Per Bobbie, property acquisition letter for Lot 1, Block 5, Tract 1427 has been signed by GM. Property purchase is underway.</p> <p>Archaeological survey is pending archaeologist schedule. Biological survey completed.</p> <p>Need approval from GIAA/GEPA for GWA to abandon monitoring well. (**Followed up with Chief Engineer. Awaiting response**)</p> <p><u>Manenggon Reservoir and Access Booster Pump Station</u> 100% design revision submitted. Plans is under review by GWA. Electrical/instrumentation review complete.</p> <p>Biological Assessment report completed. Archaeological report will need to be expanded. Pending archaeologist schedule for additional site visits. GHD/SEARCH is coordinating with SHPO on what will be required. Historical artifacts found at the adjacent lot. Response received from DPR/SHPO. Designer is attempting to contact archaeologist to finish work plan. Archaeologist has been unresponsive.</p> <p><u>Piti Reservoir</u> DCA and GHD are working to put the bid package together. DCA has already completed the major steel tank repair plan and specifications. GHD is working on site utility plan and specifications.</p> <p>GWA has not submitted the Right of Way application to National Parks Services yet. GWA has received the final Dept. of Agriculture consultation response letter. Biological Assessment report has been completed. Archaeological report needs to be completed before ROW application can be submitted.</p> <p>Waiting on National Park Service to allow Archaeologist to go onsite to perform survey. GWA did a follow up on this request. National Park Service sent the request to their national</p>	<p><b>Completion Date:</b> Completion will be in line with construction completion.</p>

	<p>office for review and approval. GWA is following up with NPS on request to enter site to conduct archaeological survey.</p> <p><u>A23-A25 Deepwell (PFAS Treatment)</u> A23 and A25 MOU signed by DPW and GWA.</p> <p>A23 and A25 100% reviewed by GWA. Designer is revising plans. <b>100% specifications submitted to GWA.</b></p> <p><u>Tumon No. 1, Hyundai, Chaot No. 2 Reservoir</u> Under construction. See Tumon no. 1, Hyundai, Chaot no. 2 Reservoir Construction for update.</p>	
CO 29 (b)(4)	Engineering design services	
Project Description:	<p>The design services will consist of preparation of plans, specifications, and estimates (PS&amp;E), which includes Basis of Design, design calculations, hydraulic modeling (EPANET), computational fluid dynamic modeling (CFD), construction schedule, topographical survey, property research, property mapping, geotechnical engineering, cultural resource inventory and evaluation of historic resources, hazardous materials survey, construction documents, design drawings in Auto CAD, relevant permit, construction bid support service, and response to request for interpretation/information during construction The tank locations are Hyundai, Pulantat, Chaot #2, Tumon #2, Piti &amp; Tumon #1.</p>	

<b>DESIGN</b> PW 05-15	<b>Asan Springs Rehabilitation Design (HDR)</b>	<b>Start Date:</b> August 24, 2016
82% Complete	<p><b>Activities/Notes:</b></p> <p><b>HDR</b> submitted a letter to NPS to coordinate the archaeological survey requirements with SHPO. <b>HDR</b> submitted SHPO Letter to NPS for review on 05/29/2021; received first comments 07/1/2021 <b>and submitted</b> revised SHPO letter to NPS for review on 07/12/2021. <b>HDR working with new Chief of Resources, Tim Clark, to finalize letter and sent to SHPO asap.</b></p> <p>Biological survey permit from NPS issued on 01/22/2021, and completed on 02/10/2021 at Asan Springs. Preliminary findings from HDR led to the discovery of snails around the project site. Draft of biological survey has been submitted to NPS for review as of 03/29/2021. NPS comments received on 06/4/2021. Final report to NPS sent on 06/12/2021. Last follow-up on <b>08/26/2021. Tim Clark is currently on island and will be working with HDR to finalize outstanding items.</b> Affects both Biological Survey and Section 106 Letter.</p> <p>Environmental Consultation request sent to DOAG and GEPA on 03/15/2021 by Designer. Sent GWA signed follow-up letter to DOAG and GEPA on 06/22/2021. DOAG responded on 07/01/2021, but letter did not reach GWA Engineering until 08/04/2021. <b>GEPA responded on 08/11/2021.</b> Designer reviewing now and will respond accordingly.</p>	<b>Completion Date:</b> June 2022
	Engineering design services	

Project Description:	<ul style="list-style-type: none"> <li>- Perform site visits and condition assessment for site conditions to determine demolition and rehabilitation requirement, process equipment condition, structural condition, and electrical system. Site condition assessment shall include all disciplines to execute the project.</li> <li>- Review and validate the current property boundary information to confirm the available space for the project development.</li> <li>- Perform an environmental impact study and prepare all required permits as needed.</li> <li>- Perform an archeological and historical resources study to identify potential impact to the project, prepare all required permits as needed.</li> <li>- Coordinate with Guam Historic Resources Division State Historic Preservation Office (SHPO) on historical resources study. Prepare all necessary reports and documents as required by SHPO.</li> <li>- Coordinate with Guam Department of Agriculture, Division of Aquatic and Wildlife Resources (DAWR) on vegetation clearance. Prepare all necessary reports and documents required by DAWR.</li> <li>- Identify the existing and projected service area, period of design.</li> <li>- Identify and recommend conceptual water treatment system.</li> <li>- Perform a Class 4 engineering cost estimate according to the American Association of Cost Engineers (AACE) International Cost Estimate Classification System for construction fee. Cost must include all disciplines, permit, construction and administration that are necessary to execute the project. All costs will be in current dollars and escalated to the estimated midpoint of construction.</li> </ul>
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<b>CONSTRUCTION</b> PW 09-11, PW 12-05	<b>Yigo/Astumbo Tank Construction (Pernix)</b>	<b>Start Date:</b> December 1, 2016
100% Complete	<b>Activities/Notes:</b> GWA and CM is working with Pernix to close out project. Final walkthrough completed.  Lien Release and Warranty documents received. Spare parts received. Final invoice processed. Final retention payment has been released 07/2021. Finance is requiring a deductive change order to reflect the retention amount not released.	<b>Completion Date:</b> October 31, 2018
	Construction Services	
Project Description:	This project will involve construction of two (2) 2MG concrete tanks and Booster Pump Station at the Yigo site and a one (1) 2MG concrete tank at the Astumbo site. Work will involve new pipe line, valves, electrical controls, pumps and motors, site drainage, paving, generator for the BPS, SCADA, etc.	

<b>CONSTRUCTION MANAGEMENT</b> PW 09-11, PW 12-05	<b>Yigo/Astumbo Tank Construction Management (GHD)</b>	<b>Start Date:</b> December 2016
100% complete	<b>Activities/Notes:</b> Working to complete project close out requirements. To date, GWA has not received close out documents from the CM. CM is working on putting close out package to submit to GWA. Once close out package has been submitted to GWA, the final payment will be processed.	<b>Completion Date:</b> August 2019
N/A	Construction Management services	
Project Description:	The work performed under this project procurement shall consist of Construction Management and Inspection Services for the demolition of existing steel elevate and ground tanks as well as the construction of the 2MG concrete tanks at the Yigo tank location and Astumbo tank location. The overall goal of the Construction Manager (CM) is to manage the entire construction process so that the project can be delivered efficiently and professionally.	

<b>CONSTRUCTION MANAGEMENT</b> PW 12-04, PW 12-06 AND PW 09-11	<b>Central Tank Phase I (Chaot #2, Tumon #2, Hyundai) Construction Management (TG Engineers, PC)</b>	<b>Start Date:</b> December 2017
95% complete	<b>Activities/Notes:</b> As of 01/01/2021, GWA Water CIP Engineering will take over CM duties for remaining work. CM will be onboard for limited services – Eadoc project software management and conducting meetings/meeting minutes.  GWA is waiting for TGE to submit CO no. 2 to close out CM services.	<b>Completion Date:</b> December 2021
N/A	Construction Management services	
Project Description:	The work performed under this project procurement shall consist of Construction Management and Inspection Services for the construction of three water reservoirs; 0.5MG Chaot #2, 1MG Tumon #2 (Nissan) and 1MG Hyundai. The overall goal of the Construction Manager (CM) is to manage the entire construction process so that the project can be delivered efficiently and professionally.	

<b>CONSTRUCTION</b> PW 12-04, PW 12-06 AND PW 09-11	<b>Central Tank Phase I (Chaot #2, Tumon #2, Hyundai) Construction (AIC)</b>	<b>Start Date:</b> February 8, 2018
91.2% Complete	<b>Activities/Notes:</b> <u>Tumon No. 1</u> Tumon no. 1 online – 08/20/2020.  Working on St. John's PRV. <b>Final outage completed on 09/02/2021. Work remaining is pavement restoration.</b>	<b>Completion Date:</b> TBD (Completion date has passed. Pending time extension for permit delays.)

	<p>Pale San Vitores HEP pending DPW approval. DPW will not issue permit until St. John's PRV work is completed.</p> <p><u>Barrigada Heights No. 1 (Hyundai)</u> Barrigada Heights no. 1 online – 10/09/2020. Booster pump skid arrived. Contractor is actively working on installing the pump skid and associated equipment.</p> <p>Temporary piping installed at the Hyundai tank. Pressure testing completed. Working with Contractor and GWA Operations to put portion of line into service.</p> <p>Working on design plan to permanently use the Steel Temp Tank. Additional funding will need to be identified for the work.</p> <p><u>Barrigada</u> Contractor working on electrical for booster and PRSV station.</p> <p><u>Chaot No. 2</u> Chaot No. 2 tank online – 09/02/2020.</p> <p>Contractor working on A-series well, Dero Rd connection to Leo Palace line, chlorination system improvements and miscellaneous improvements.</p> <p>Tank distribution and Leo Palace line has been completed.</p> <p>Two more outages are needed to complete line work on main roads. Awaiting GWA operations to inform Engineering on outage schedule. Two remaining outages are for Route no. 4 valve changeout and disconnection of wells at Spring Lane.</p> <p><u>Barrigada No. 2</u> DN Tanks completed internal repairs.</p> <p>Negotiating scope and cost with Contractor to repair internal pipe coating.</p>	
	Construction Services	
Project Description:	The work performed under this project procurement shall consist of Construction of three water reservoirs; 0.5MG Chaot #2, 1MG Tumon #2 (Nissan) and 1MG Hyundai. Some piping work off site from the reservoir is also required to ensure the reservoirs function optimally.	

<b>CONSTRUCTION MANAGEMENT</b> PW 09-11	<b>Northern and Southern Tank Phase I (Santa Rosa, Sinifa, Santa Rita) Construction Management (GHD)</b>	<b>Start Date:</b> April 2018
Completion:  Santa Rita - 42%  Santa Rosa - 45%  Sinifa - 21%	<b>Activities/Notes:</b> Change Order no. 1 issued.  Santa Rita NTP issued to CM on 12/14/2020.  Santa Rosa NTP issued to CM on 01/11/2021.  CM providing standard CM services.	<b>Completion Date:</b> Santa Rosa: 455 days from NTP  Santa Rita: 485 days from NTP  Sinifa: 425 days from NTP.
N/A	Construction Management services	
Project Description:	The work performed under this project procurement shall consist of Construction Management and Inspection Services for the construction of three water reservoirs: 1MG Santa Rosa, 1MG Sinifa and 1MG Santa Rita. The overall goal of the Construction Manager (CM) is to manage the entire construction process so that the project can be delivered efficiently and professionally.	

<b>CONSTRUCTION</b> PW 09-11	<b>Northern and Southern Tank Phase I (Santa Rosa, Sinifa, Santa Rita) Construction (AIC)</b>	<b>Start Date:</b> October 2019
10.8% Complete (based on Contractor's latest invoice as of May 2021)	<b>Activities/Notes:</b> Santa Rosa: New tank foundation, retaining wall, vault, site piping, detention basin, and site piping work are ongoing.  Santa Rita: New tank foundation preparation, pile rebar cage, detention basin, vault, and site piping are ongoing.  Contractor drilled the first pile hole. Hole experienced partial collapse at 20'. Full drill depth is 40'. Per the geotechnical engineer, the current auger machine will not work with these soil conditions. A hollow stem auger is needed. Marianas Drilling who owns a hollow stem auger is not available until January 2022. Contractor proposed to use pre-casted driven piles in lieu of CIDH (cast-in-place drilled holes). Currently, the EOR, CM, and Contractor are preparing different options for evaluation.  Sinifa: New tank foundation preparation and retaining wall work ongoing.	<b>Completion Date:</b> Santa Rosa Final Completion – February 13, 2022  Santa Rita Final Completion – March 15, 2022  Sinifa Final Completion – January 14, 2022
	Construction Services	

Project Description:	The work performed under this project procurement shall consist of Construction Services of three water reservoirs: 1MG Santa Rosa, 1MG Sinifa and 1MG Santa Rita. Some piping work off site from the reservoir is also required to ensure the reservoirs function optimally.	
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<b>CONSTRUCTION</b>	<b>Pressure Zone Realignment and Tank Repair-Replacement – Phase I (Sumitomo)</b>	<b>Start Date:</b> December 17, 2019 (Notification of Award)
31.2% Complete	<p><b>Activities/Notes:</b> Construction work active at Kaiser, Carnation, Ysengsong, and Okkodo PRV sites. Construction meetings are ongoing.</p> <p>CO no. 1 for additive bid items, Terao and Maimai cost escalation and time/permit delays due to COVID-19 has been <b>approved. Signed CO No. 1 received on 08/30/2021. Operations was able to test valves successfully for PRV 15 work this week.</b></p> <p>Outage for Carnation (PRV 15) and 12" waterline connection is scheduled for 09/09. Future outages tentatively scheduled:</p> <p>Carnation - 09/14 Clara - week of 09/27 Okkodo (PRV 30) - week of 10/04 Kaiser Inlet - week of 10/04 or 10/11</p> <p>DPW concerns about traffic control have been addressed by focusing work at Carnation and Clara sites in order to open the roads back up sooner. SMCC payment no. 6 request expected soon.</p>	<b>Completion Date:</b> <b>January 2022</b>
N/A	Construction Services	
Project Description:	The work performed under this project procurement shall consist of Construction Services for the installation of control valves (PRVs, PRSVs), piping, and related electrical upgrades to properly control and measure system flow between zones.	

<b>DESIGN</b> PW 05-12	<b>Pressure Zone Realignment and Tank Repair-Replacement (GHD)</b>	<b>Start Date:</b> August 2018
Design will be done in Phases.  Phase I - 100% (Design)	<p><b>Activities/Notes:</b> Designer submitted Phase II 60% plans on 08/04/2020 and reviewed by Water CIP Engineering team on 08/11/2020.</p>	<b>Completion Date:</b>



Phase II - 90% (Design)  Phase III - 30%	Engineering, Operations and designers performed several site visits and investigations for Phase II and III. Resolution for CO no. 3 on Design services for Nimitz Hill Waterline Replacement and Phase II CM services is in the works approved 02/29/2021. CO no. 3 signed by GHD on 03/25/2021 and is with Accounting for processing.	
N/A	Engineering design services	
Project Description:	The design project is intended to assess current and recommended pressure zones, and design and install control valves (PRVs, PRSVs) to properly control and measure system flow between zones. Scope also includes setting up pilot DMAs; and design for new or repaired water tanks needed to complete the court order tank requirements.	

<b><u>DESIGN, CONSTRUCTION, CONSTRUCTION MANAGEMENT</u></b> PW 09-11	<b>Tank Repair and Bypass (DCA, AIC, GWA)</b>	<b>Start Date:</b> May 1, 2020
31% Complete	<p><b>Activities/Notes:</b> Construction contract effective 04/21/2020. NTP issued 05/01/2020 with modified language for work starting onsite.</p> <p>Agat-Umatat interior metal repair completed. Anchor bolts installed. Interior sandblasting for recoating is underway. Lead paint abatement underway for portions of tank exterior.</p> <p>Contractor has completed coating of Yigo no. 3 tank exterior. Interior coating is underway. Roof purlin repair completed. Internal sandblasting and recoating are ongoing.</p> <p>Astumbo no. 1 delayed due to presence of lead paint. Change order approved for lead abatement at tank. Scheduling Island Certs to perform further API inspection on tank wall which has active corrosion. <b>Inspection completed. Report to be turned in 09/2021, week of 09/06.</b></p> <p>Metal plate may be used to repair Windward Hills tank, which is more crucial than Astumbo. Awaiting Windward permits to begin repair. <b>Permit approved 09/01.</b></p> <p>Santa Ana bypass work is ongoing. Check valve issue has been rectified. Contractor proceeding with electrical work at the Santa Ana bps. Bypass may be tested without contractor's</p>	<b>Completion Date:</b> TBD (Dependent on repairs required after inspection)

	<p>completion of the bypass. <b>Contractor's electrical work submittal needs to be resubmitted.</b></p> <p>Ladda PSRV installed.</p> <p>Malojloj bypass work ongoing. Valving will need to be adjusted due to shallow pipes encountered. <b>GWA is currently trying to find valves to be able to secure the lines for the outage. Valves are buried.</b></p> <p>Gues and Togan bypass work is underway with submittals. Geus building demolished. Booster pump skids arrived. Contractor to begin work.</p>	
Project Description:	<p>The work to be performed under this project consist of installing by-pass piping, valves, etc. ahead of certain tank inspection work. The operation of the by-pass will allow the tank inspector to determine appropriate repairs after which the contractor will proceed to repair the tank.</p>	

<b>DESIGN</b> PW 09-02	<b>New Well Site Development - Y-08, AG-10, AG-12 (GHD)</b>	<b>Start Date:</b> September 2018 (Extension)
99% Complete	<b>Activities/Notes:</b> 100% plans and specifications were submitted on 06/04/2020. CO no. 8 to complete final plan set and engineer estimate is under negotiation with GHD.	<b>Completion Date:</b> TBD
N/A	Engineering Design Services	
Project Description:	<p>The design project is intended to design 3 new wells to increase production capacity. The design services will consist of preparation of plans, specifications, and estimates (PS&amp;E), which includes Basis of Design, design calculations, construction schedule, construction documents, design drawings in Auto CAD, relevant permit, construction bid support service, and response to request for interpretation/information during construction.</p>	

<b>CONSTRUCTION</b> PW 14-01	<b>Fire Hydrant Replacement Phase I (Mega United Corporation, Ltd.)</b>	<b>Start Date:</b> October 19, 2019
<b>45%</b> Complete	<b>Activities/Notes:</b> <p>A total of <b>33</b> FH was installed out of 72. Contractor is continuously doing the FH replacement work in Dededo Area.</p> <p>Disinfection Report no. <b>3</b> submitted on <b>08/4/2021</b>: Bacteriological sampling tested negative for the <b>6</b> FH completed in <b>August 2021</b>.</p>	<b>Completion Date:</b> April 23, 2022

Project Description:	The work performed under this project consist of replacing the dry barrel fire hydrants with wet barrel type fire hydrants. The replacement will involve removal of defective fire hydrant laterals, gate valves, hydrant stem and barrel and other appurtenances necessary to complete the project.
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<b>CONSTRUCTION</b> PW 05-07 86.7% Complete	<b>Groundwater Well Production Meter Replacement Project (Giant Construction)</b> <b>Activities/Notes:</b> Contractor completed installation of above-ground discharge piping for deep wells: Y-23, Y-09, Y-17, Y-07, F-15, HGC-2, M-18, D-26, Y-20, F-18, Y-19, F-13, D-27, D-25, Y-12, Y-18, F-17, Y-14, Y-21A, Y-10, Y-22, A-13, EX-05, A-10, <b>Y-15, H-01, and D-01.</b> To date, <b>27</b> wells were completed and <b>3</b> more wells to go. The remaining wells have issues with water level in the tanks <b>or non-working isolation valve.</b> Work on these wells will be allowed when water level in the tanks improve <b>or isolation valve replaced.</b> <b>Delay is not contractor's fault.</b>  A change order in the amount of \$42,202.16 for the extension of discharge for wells D-01, M-02, A-04, AG-01, and AG-02 including contract time extension to 10/27/2021 was approved on 07/22.  The Contractor submitted <b>third billing for \$139,613.40</b> which was approved and transmitted to Finance on <b>08/24.</b>  A change order to award Additive Bid no. 1 for additional 15 wells is in process.	<b>Start Date:</b> April 29, 2020 <b>Completion Date:</b> October 27, 2021
	Construction services	
Project Description:	Work to be performed under this project shall consist of replacing the production well meters and associated well head piping. Construction management is performed in-house.	

<b>DESIGN AND CONSTRUCTION</b> PW 09-03 11.6% Complete	<b>Casimiru Waterline Replacement Project (Giant Construction)</b> <b>Activities/Notes:</b> <b>The final design drawings were approved 08/03/2021. Contractor submitted Building Permit application to DPW on 08/05.</b>  All material piping materials arrived on island.  A deductive change order for the deletion of topographic survey is under negotiation.	<b>Start Date:</b> February 8, 2021 <b>Completion Date:</b> March 8, 2022
	Design and Construction services	

Project Description:	Work to be performed under this project shall consist of design and construction of existing ACP replacement. Approximate length of existing waterline to be replaced is 2,750 feet. Construction management is performed in-house.
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<b>CONSTRUCTION</b> PW 09-03 MP-PW-PIPE 12 6% Complete	<b>Tai Road/S-13 and Canada-Toto Loop/Blas Street Waterline Replacement</b> <b>(Giant Construction Corporation)</b>  <b>Activities/Notes:</b> Securing building permit. DPR requires GWA to hire an archaeologist to monitor Tai Road and Blas St. before encroachment permit clearance is released. <b>Awaiting approval of CO no. 1 allowing the contractor to hire an archaeological consultant submitted on 08/17/2021 for GM, Legal Counsel and Finance approval.</b>  Waiting for off-island materials.	<b>Start Date:</b>   <b>Completion Date:</b> June 16, 2022
Project Description:	Work to be performed under this project consist of replacing an existing 6-inch asbestos cement pipe (ACP) water line with a new 8-inch polyvinyl chloride (PVC) water line along Tai Road; replacing an existing 2-inch water line with a new 6-inch water line along S-13; reconnecting existing branch water lines, service connections and other water appurtenance connections from an existing 6-inch ACP water line to an existing 12-inch PVC water line along Canada-Toto Loop; and replacing an existing 6-inch ACP water line with a new 6-inch PVC water line along Blas Street.	

<b>CONSTRUCTION MANAGEMENT</b> PW 09-03 0% Complete	<b>Tai Road/S-13 and Canada-Toto Loop/Blas Street Waterline Replacement</b> <b>(DCA)</b>  <b>Activities/Notes:</b> Assisting project contractor to obtain permits and clearances from various related agencies.	<b>Start Date:</b> May 7, 2021  <b>Completion Date:</b> Based on 13-month continuous construction period
Project Description:	Work to be performed is awarded under Task order no. 2 for CM services under the ID/IQ For Professional Project Management and Construction Management Services contract with DCA. Work under this task order is to provide construction management and inspection services for the Tai Road/S-13 and Canada-Toto Loop/Blas Street Waterline Replacement project.	

<b><u>PROJECT MANAGEMENT, PROCUREMENT SUPPORT &amp; CONSTRUCTION MANAGEMENT</u></b> MP-PW-SWTP-03	<b>Ugum Water Treatment Plant Rehabilitation (DCA)</b>	<b>Start Date:</b> July 6, 2021
32.5% Complete	<b>Activities/Notes:</b> The draft Assessment and Procurement Report and Bid Schedule were submitted on 08/19/2021. Work on gathering more information to complete the assessment-procurement report and bid schedule is ongoing,  Coordination with material suppliers has started. This coordination work is for the purpose of preparing the specifications.	<b>Completion Date:</b> December 3, 2021
	Project Management, Procurement Support and Construction Management services	
Project Description:	Work to be performed is awarded under Task Order no. 3 under the ID/IQ for Professional Project/Construction Management Services contract with DCA. Work will consist of assessment/site investigation of existing condition of the plant, preparation of schedule, procurement documents, relevant permits, construction bid support services, and response to request for interpretation/information, construction management services for the plant rehabilitation.	

<b><u>IN-HOUSE DESIGN AND CONSTRUCTION</u></b> PW 09-03	<b>Balaku Street and Borja Street Replacement Project (GWA)</b>	<b>Start Date:</b> June 21, 2021
5% Complete	<b>Activities/Notes:</b> Securing Building Permit and Highway Encroachment Permit is ongoing.  About 90% of off-island materials arrived on island.	<b>Completion Date:</b> December 31, 2021
	Design and Construction services	
Project Description:	Work to be performed under this project shall consist of in-house design and construction of waterline replacement in Balaku Street in the village of Barrigada and Borja Street in the village of Sinajana. Approximately 450 feet of 4-inch waterline will be installed in Balaku Street and 500 feet of 6-inch waterline in Borja street.	

**D. CIP Wastewater Section**

<b>CONSTRUCTION</b> WW 09-06	<b>Bayside SPS Improvements Design (EMPSCO)</b>	<b>Start Date:</b>
32% Construction Services	<b>Activities/Notes:</b> Mechanical piping layout at the ground floor on going.  Installation of submersible pump at wet well ongoing.  Installation of panel board, step down transformer ongoing.  <b>Installation of ATS, Disconnect switch.</b>  Continuous review of submittal, shop drawings, and RFIs.  CO no. 1 executed on 06/11/2021.  Payment application no. 2 paid.	<b>Completion Date:</b> November 28, 2021
CO #3	Engineering design services	
Project Description:	The intent of this project for an engineering firm to prepare design drawings and specification to upgrade the Bayside Sewer Pump Station given the facility is in major disrepair and the adjacent river is eroding away the access road to the facility which is causing maintenance challenges and install underground power cable due to GPA's concern that existing power pole, located on the bank is at risk of being lost due to storm surges.	

<b>CONSTRUCTION</b> MP-WW-PIPE-01	<b>Yigo Sewer Pump Station Flood Mitigation and Facility Rehabilitation (Ian Corporation)</b>	<b>Start Date:</b> May 3, 2021
0% Complete	<b>Activities/Notes:</b>  <b>Contractor begins site prep prior to mobilization.</b>  <b>Contractor requesting temporary water connection for construction.</b>  <b>Contractor continues working on documents/ material submittals and substitution requests.</b>	<b>Completion Date:</b> May 29, 2022
Project Description:	Work to be performed under this project consist of demolition of existing building features and equipment, including the existing power pole and power meter, plumbing fixtures and piping, water service piping, electrical system, ventilation system, building fascia and monorail beam and construction of rehabilitation and flood mitigation features including structural wall repairs, flood barrier gates, raised louver sills, cantilever monorail beam, elevated platforms, ventilation system, site work, site water piping, utility tie-in connections, protective coatings, electrical system, instrumentation and controls, testing, startup, and appurtenant work.	

<b>CONSTRUCTION MANAGEMENT MP-WW-PIPE-01</b>	<b>Yigo Sewer Pump Station Flood Mitigation and Facility Rehabilitation (DCA)</b>	<b>Start Date:</b> May 3, 2021
0% Complete	<b>Activities/Notes:</b> ID/IQ PM CM Task Order no. 4 contract with DCA approved and effective as of 06/17/2021.	<b>Completion Date:</b> May 29, 2022
Project Description:	Work to be performed under this project consist of demolition of existing building features and equipment, including the existing power pole and power meter, plumbing fixtures and piping, water service piping, electrical system, ventilation system, building fascia and monorail beam and construction of rehabilitation and flood mitigation features including structural wall repairs, flood barrier gates, raised louver sills, cantilever monorail beam, elevated platforms, ventilation system, site work, site water piping, utility tie-in connections, protective coatings, electrical system, instrumentation and controls, testing, startup, and appurtenant work.	

**E. CIP Engineering Support**

<b>DESIGN EE 09-08</b>	<b>SCADA System for Water and Wastewater Facilities Phase A-1 (AECOM)</b>	<b>Start Date:</b> June 11, 2015
100% Complete (Design) 84% Services during Construction	<b>Activities/Notes:</b> Negotiate changes to the remaining tasks to better align with current state of the system ongoing. Scoping details discussed.  <b>AECOM preparing proposal.</b>	<b>Completion Date:</b> November 2017 - Design December 11, 2019 - (Bid and Construction Support)
N/A	Engineering design services	
Project Description:	The A/E firm will design an integrated, robust and secure Supervisory Control and Data Acquisition (SCADA) system for GWA's water and wastewater systems, and to provide support services during bid and construction. The 22 sites will consist of a combination of water facilities such as production wells, reservoirs, booster pump station and wastewater sites include sewer treatment plants and sewer pump stations. Executed by approved change orders, number of sites in original design scope has changed from 22 sites to 19 sites and design of High Water Alarm for 20 critical sewer pump stations has been added. Scope also includes bid and construction support of the design-build project of GPWA SCADA EMS project.	

**F. GIS Section**

<b>MAPPING</b> MC 05-02	<b>Island Wide Survey- (Duenas, Camacho &amp; Ass.)</b>	<b>Start Date:</b> December 2007
99% complete	<b>Activities/Notes:</b> Still on hold for the Tumon no.1 Tank (aka Airport Tank).	<b>Completion Date:</b> October 2019
	Survey services	
Project Description:	The contracted land surveyor is required to conduct title research, property valuation and mapping of property boundaries where GWA facilities are located, including the lots which are not registered under GWA's name.	

<b>MAPPING</b> MC 05-02	<b>Island Wide Survey PH II - (Duenas, Camacho &amp; Ass.)</b>	<b>Start Date:</b> August 30, 2017
80% complete	<b>Activities/Notes:</b> Contract Extension Date approved on 08/18/2021.	<b>Completion Date:</b> December 31, 2021 (Extension Date)
	Survey services	
Project Description:	The work performed under this project procurement shall consist of a professional land surveyor conducting field work to mark corners of existing government properties as a means of severing out portions of the larger property to be deeded to GWA. Surveyor shall also prepare all necessary maps and documents for recording at DLM.	



**G. Permits Section**PERMITS  
MONTHLY REPORT 2021

	2021												
Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
Building Permit	26	24	24	19	42	38	15	35					231
Occupancy Permit	11	11	11	18	8	3	9	14					85
New Installation	19	30	31	29	5	9	18	18					159
Sewer Application	0	4	4	6	0	1	2	0					17
Sewer Inspection	0	0	1	1	0	0	0	1					3
Private Utility Acceptance	0	1	1	0	0	1	0	0					3
Relocation of Water Meter	2	1	2	0	0	0	0	1					6
Tapping-Water	1	1	1	2	1	1	0	1					8
Tapping-Sewer	1	0	1	1	0	0	0	0					3
Clearance-Water	25	50	51	45	22	50	12	25					305
Clearance-Sewer	1	0	0	1	0	0	0	0					2
Highway Encroachment	9	13	13	19	5	23	8	4					94
Verification of Utilities	14	12	12	19	13	11	9	19					109
Fire Flow Test	1	0	2	0	0	0	0	1					4
Schedule Water Outage	0	0	0	0	0	0	0	0					0

NOTE: Completed work orders for each calendar month are reported.

AVERAGE PROCESSING TIME FOR COMPLETION (DAYS)  
FOR THE CALENDAR MONTH OF **AUGUST** 2021

Description	2021											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Building Permit	35	25	25	16	14	17	37 <sup>a1</sup>	26 <sup>a1</sup>				
Occupancy Permit	0	0	0	0	0	0	0	0				
New Installation	56	24	23	33	96	24	24	43				
Sewer Application	0	0	0	0	0	0	0	0				
Sewer Inspection	0	0	7	0	0	0	0	0				
Private Utility Acceptance	0	10	7	0	0	30	0	0				
Relocation of Water Meter	259	81	57	0	0	0	0	0				
Tapping-Water	93	35	35	20	280	22	0	63				
Tapping-Sewer	0	0	123	7	0	0	0	0				
Clearance-Water	4	3	3	43	6	3	18	8				
Clearance-Sewer	7	0	0	7	0	0	0	0				
Highway Encroachment	0	0	0	0	0	0	0	0				
Verification of Utilities	16	43	43	18	14	14	20 <sup>a2</sup>	20 <sup>a2</sup>				
Fire Flow Test	16	0	3	0	0	0	0	12				
Schedule Water Outage	0	0	0	0	0	0	0	0				

**Subscript comments are based on what occurred during the month of **August****

**a1:** Additional information/revised plans were needed. Key staff member went on medical leave.

**a2:** VOU replies were delayed when other work assignments needed urgent responses.


#### **H. USEPA SRF Project Status Report**

United States Environmental Protection Agency State Revolving Funds (USEPA SRF)

- Projects listed below that are noted to be in the procurement phase will follow the “Percentage Key” below.

Percentage Key:

100%	Approved by GM
99%	Signature required from either Accounting/Legal/GM
98%	Processing engineering service or construction contract (with legal)
95%	Request for CCU approval (GM/engineering)
90%	A/E fee negotiation or contractor bid evaluation (engineering)
80%	Selected A/E or Conducted bid opening (engineering)
70%	Advertised RFP/IFB (engineering)
60%	RFP/IFB Package under legal review
50%	RFP/IFB Package completed (engineering)
Less than 50%	Project Scope of work development in progress

- Red text anywhere indicates a change from the last report.
- Cells highlighted in green  indicate contract amount certified and active project.

NOTE: Table below only reflects SRF projects that are still active. All other projects previously shown are on prior reports.

GWA Work Session - September 21, 2021 - DIVISION REPORTS

Project	Project Description	Project Manager	Phase		Start Date (NTP Issued)	Anticipated Completion Date	Contract Amount	Contractor	Status as of 09/21/2021
3	Asan-Adelup- Hagatna Route 1 Sewer Line Rehabilitation and Replacement	Brown & Caldwell	Design	2	12/11/2015	3/30/2017 for Design requirements	\$ 1,780,210.00	HDR	HDR assisting as needed.  Also, Archaeological monitoring through HDR contract.  HDR CO for archaeological monitoring and additional construction services approved by GWA. This CO includes design services for Phase II (Adelup to Hagatna).
			Construction	2	11/9/2018	3/30/2021	\$6,275,783.00	InfraTech	InfraTech (via Allied Trenchless) completed all CIPP and line ends at manhole grouting. Punch list items being corrected.  All point repairs completed.  All CIPP completed. All punchlist items corrected. Fonte River inverted siphon cleaning and CCTV completed.  Contractor claiming for re-ordering CIPP materials (\$166K). Preliminary recommendation by CM and PM is that the claim is unwarranted. PM revisited and sent conclusion to GWA for review.  CO no. 6 submitted to GWA.  Multiple claims from Contractor evaluation completed and to be discussed with GWA this week.
			Construction (Phase II)				\$ 8,742,000.00	CoreTech/ Hawaiian Dredging	Contractor secured all required permits.  CCTV inspection and initial cleaning completed 07/07/2021. Liner designed and submitted for approval. Contractor wants to propose an alternate design. Two segments need point repairs for which the bypass was set-up and initiated but a force main forced terminating the bypass and performing an emergency repair. A new MH13 installation and new segment from MH13-14 is the resultant solution.  RFI regarding installation of Line C or lining the existing main currently under review. Field inspection performed. Requested price to re-channel MH355 and clean and line existing main from Rte. 6 to evaluate proposal in lieu of new Line C. CCTV of existing main performed and there are no point repairs needed but the pipe needs CIPP and is a good alternative. Pending final price, GWA will decide which option is preferred. Initially, CIPP option is significantly more expensive than Line C construction.
			CM	2	8/3/2017	3/8/2020	\$ 870,610.41	DCA	Working with Contractor on schedule, submittals, responding to RFIs, and assisting in the negotiations of PCO costs. Fee proposal for CM services for Phase 2 submitted and accepted by GWA. CO to add CM for Phase 2 prepared for GWA. GWA executed CO. CCU Resolution on 09/2021 agenda.
		GWA Chief Engineer	Project / Contract Management		1/22/2020	12/31/2021	\$ 476,050.00	B&C	Executed under the IDIQ contract, Task Order 3 (TO3) authorizes Brown and Caldwell to manage and complete the construction of Rte. 1 Sewer Line Rehabilitation and Replacement project in conformance to the contract requirements.  Amendment 1 to TO3 is executed to increase scope, cost and schedule to manage and complete the construction of Phase 2.  Resolution 29-FY2021 pending CCU approval to execute Amendment 2 to TO3 to increase contract time and funding to continue to manage and complete the construction project.

GWA Work Session - September 21, 2021 - DIVISION REPORTS

Project	Project Description	Project Manager	Phase		Start Date (NTP Issued)	Anticipated Completion Date	Contract Amount	Contractor	Status as of 09/21/2021
4	Route 2 Agat War in the Pacific Sewer Line Rehabilitation and Replacement	Brown & Caldwell	Design	3	11/17/2015	3/30/2017 for Design requirements	\$ 316,681.00	SSFm	Providing designer support during construction. Final invoice submitted to GWA on 05/01/2020. Project is completed.
			Construction	3	8/31/2017	10/1/2018 (Contractor in LD period)	\$4,688,042.38	ProPacific Builders	GWA should follow-up with PPBC regarding the warranty CCTV for pipe between SMH 2 through 10 where a repair was made.  Final Payment Request received from contractor and sent to GWA for payment. Project is completed.  Project files and As-Builts submitted to GWA.
			Construction (Phase 2)						B&C working with HDR to prepare bid documents for RT1 Asan-Adelup-Agana PH2.
			CM	3	9/19/2017	10/1/2018	\$ 749,950.00	TG Engineers	As-built drawings received from TG and forwarded to GWA. Project completed.
7	Groundwater Wells Rehabilitation (F-3, A-2, A-7, A-12, D-5)	Brown & Caldwell	Design	6	5/27/2016	2/28/2018 (for design only)	\$ 1,758,247.00	AECOM	Bid and Construction Support Services on hold until construction IFB is issued.
			Construction	4					No firm submitted a bid proposal. GWA Project Engineer to reassess and make additional changes to the bid package (ongoing). At this time, no response from potential firms (Well Drillers). Only two well drillers on Guam.
			CM	4			\$ 640,248.00	DCA	DCA was awarded the contract but GWA has not issued NTP until construction is approved.
8	Tumon Sewer Hot Spots	Brown & Caldwell	Design	7	6/24/2016	10/30/2017 for design only	\$ 572,089.00	TG Engineers	TGE to provide engineering services during bid process.
			Construction	See Project 15	12/1/2018	12/31/2019	See Project 15	See Project 15	See Project 15
			CM	See Project 15	5/31/2019	5/31/2020	See Project 15	Am Orient	Procurement 100%: Contract fully executed. CM services to be on hold until bidding restarted.

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Project	Project Description	Project Manager	Phase		Start Date (NTP Issued)	Anticipated Completion Date	Contract Amount	Contractor	Status as of 09/21/2021
14	Southern SSES Sewer Rehabilitation Phase II (Baza Gardens-Talofofo)	Brown & Caldwell	Design				The design was previously completed under bond funding.		
			Construction	8	8/2/2016	Due to issue related to Santa Rita sewer project completion under analysis.	\$ 1,189,815.00	ProPacific	<p>Santa Rita</p> <ul style="list-style-type: none"> <li>Task order amendments –Survey subcontract and budget increase submitted to CCU to approval.</li> <li>Construction                             <ul style="list-style-type: none"> <li>PPBC working on excavating wet well location. Approx. 3 feet from bottom elevation.</li> <li>Forcemain pipe laid into trench and trench is backfilled.</li> <li>A section of the forcemain will have a mechanical joint with a concrete encasement due to an existing storm drain line that was encountered during the excavation of the trench.</li> <li>Forcemain was hydrostatic tested.</li> </ul> </li> <li>Completed installation of terminal manhole.</li> <li>Installed 8" PVC gravity line from terminal manhole to existing manhole on Pale Ferdinand Way.</li> <li>Road has been restored. Some deficiencies on asphalt. Contractor will restore upon project completion.</li> <li>Contractor installing secondary electrical handhole and conduit.</li> <li>Contractor plugging abandoned gravity lines in wetland.</li> <li>Wet well on site.</li> <li>GWA inspection and cleaning of receiving gravity sewer lines along Pale Ferdinand.</li> </ul> <p>Project Management contract extension resolution included in September 2021 CCU meeting Agenda.</p>
			CM	8	7/29/2016	5/28/2017	\$ 425,756.09	EMPSCO	Closed out. Does USEPA need anything?
		GWA Chief Engineer	Project / Contract Management		6/17/2019	9/30/2021	\$ 269,228.00	B&C	<p>Executed under the IDIQ contract, Task Order 4 (TO4) authorizes Brown and Caldwell to manage and complete the construction of Southern SSES Sewer Rehabilitation Phase 2 project in conformance to the contract requirements.</p> <p>Amendments 1 and 2 to TO4 are executed to increase scope of work to include archaeological services, and increase contract time and funding to continue to manage and complete the construction project.</p> <p>Amendment 3 to TO4 is executed to extend completion date to 9/30/2021.</p> <p>Resolution 29-FY2021 pending CCU approval to execute Amendment 4 to TO4 to increase time and funding to manage and complete the construction project.</p>

GWA Work Session - September 21, 2021 - DIVISION REPORTS

Project	Project Description	Project Manager	Phase		Start Date (NTP Issued)	Anticipated Completion Date	Contract Amount	Contractor	Status as of 09/21/2021
15	Tamuning Sewer Hot Spots	G. Gattoc	Design	10	9/9/2016	10/31/2017 (for design only)	\$ 663,629.00	TG Engineers	TGE to provide engineering support services during bid process and construction.
			Construction	9	1/30/2020	12/31/2020	\$ 1,093,955.87	ian Corporation	<ul style="list-style-type: none"> <li>Manhole rehabilitation of MH-1072 at Site no. 3 completed.</li> <li>Contractor continues to mobilize to Site no. 2; Project signboard erected; public notice letters to be distributed.</li> <li>Contractor started excavation for new manholes at Site no. 2; to follow with compaction of subgrade and base course.</li> <li>Contractor submits RFI no. 12 regarding scope of pipe replacement between MH-563 and MH-564.</li> <li>Contractor to re-excavate and backfill base course for MH-618A at Site no. 1 due to recent rain flooding; concrete collar work still pending.</li> </ul>
			CM	9	3/31/2019	3/31/2020	\$ 531,000.75	Am Orient	CM acknowledged Notice to Proceed (NTP).
16	Talofofo Sewer Pump Stations (4 Stations)	J. Miller	Design (for Talofofo and Chalan Pago PS)	11	8/17/2016	11/30/2017	\$ 493,818.86	EMPSCO	<ul style="list-style-type: none"> <li>Construction Cost Estimates and Final Design documents were accepted on 02/04/2021.</li> <li>Reviewing sewer connection laws and regulations for establishing updated expected flows.</li> </ul>
			Construction	10	12/27/2018	5/29/2020	\$ 2,411,418.00	Giant Const.	<ul style="list-style-type: none"> <li>Latest letter from GWA extends project completion date to 08/31/2020. Giant currently working on an updated time extension letter.</li> <li>Giant found and ordered a 3G auto-dialer modem. Waiting for shipment and testing.</li> <li>Giant ordered another generator socket. Waiting on installation and testing.</li> <li>GWA will issue Substantial Completion after successful testing of generators.</li> <li>Giant waiting on material shipment for pressure gauge tees.</li> </ul> <p>No new invoices received.</p>
			CM		12/1/2018	12/31/2019			GWA Engineering will management construction management tasks.
18	Water Hydraulic Model (SCADA ready instruments to update Model)	Barbara Cruz J. Mendiola/G. Yeoh	Design	12	8/3/2016	3/15/2017	\$ 523,268.00	GHD	Design complete.
			Construction (Phase I)	12	8/3/2016	6/30/2020	\$ 5,228,471.82	Sumitomo	<ul style="list-style-type: none"> <li>CO no. 1 has been approved. Received from finance on 08/30/2021. It includes additive bid items (Terao and Maimai), increase in cost of materials, and time extension due to COVID-19. Carnation outage for PRV 15 completed on 09/10/2021. Future outages for Carnation, Okkodo, Kaiser, and Clara are scheduled for Sept. 21, Sept. 27, and Oct. 4. CCR for PRV 15 has just been issued on 09/14. A pending CCR for Okkodo power connection is expected as well.</li> <li>5 of 9 sites work in progress (Ysengsong, Clara, Kaiser, Okkodo, and Carnation). Pending sites Maimai, Yigo Reservoir, Astumbo Reservoir, Terao.</li> </ul>
			CM		6/15/2019	6/30/2020			

GWA Work Session - September 21, 2021 - DIVISION REPORTS

Project	Project Description	Project Manager	Phase		Start Date (NTP Issued)	Anticipated Completion Date	Contract Amount	Contractor	Status as of 09/21/2021
23 Project Advertisement	Each IFB or RFP requires advertising	Engineering/Procurement	MISC	1			\$ 25,172.50	PDN/Post	Ongoing
24 Dunga Beach Sewer Improvements		R. Carino	Design				\$ 594,735.28	GHD	<ul style="list-style-type: none"> <li>• Waiting for Project Management Plan.</li> <li>• Bi-weekly meeting in progress.</li> <li>• Designer working with subcontractors to schedule and identify location of existing sewer manhole, surface and underground utilities GPA, GWA &amp; Docomo.</li> <li>• Designer coordinate his subcontractor to perform the survey as soon as possible, the survey will include work on private property in order to design reconnections for sewer laterals that are connected to the main on the beach.</li> <li>• Notification letters/ door hangers to tenants, residents, &amp; owners ready for distribution and coordination by next week.</li> </ul>
25 Hagatna Sewer Pump Station Force Main		GWA CIP Engr	Design				\$603,951.14		<ul style="list-style-type: none"> <li>• NEPA documents are still in progress; GWA to follow up with USEPA.</li> <li>• GHD performing environmental analysis.</li> <li>• Progress meeting held on 08/12/2021.</li> <li>• GWA to provide flow metering data; existing WWTP outfall project information/data regarding directional boring.</li> <li>• GWA to schedule coordination meeting with GHD and DCA regarding causeway structural analysis/rehabilitation.</li> </ul>
26 Fujita Sewer Pump Station Force Main		G. Gattoc	Design						AECOM to submit revised design proposal.
27 2021 Well Rehab (A-28, M-14, D-15 & F-7)		J. Mendiola	Design						Draft RFP with Brett Railey for review. Project is to be assigned to J. Mendiola.
							\$ 73,764,297.38		





## Financial Statement Overview August 2021

There were 2,018 COVID-19 positive tests and 4 COVID-related fatalities reported during the month of August. Executive Order 2021-20 extended the public health emergency to September 29, 2021. While the island successfully vaccinated 80.25% of the eligible population (includes 12 -15-year-olds) by the end of August, however, the delta variant caused a huge increase in positive COVID tests. Subsequently, Executive Order 2021-21 suspended in person learning for K-5 through 12<sup>th</sup> grade in Guam schools and amended social gathering restrictions.

By the end of August, Guam administered 200,730 or 85.98% of its inventory of 233,450 vaccines with 109,370 persons fully immunized. The Pfizer COVID 19 vaccine was approved by the US Food and Drug Administration on August 23, 2021, and Governor Leon Guerrero issued Executive Order 2021-17 mandating employees in the Government of Guam line agencies to vaccinate against COVID 19 or undergo weekly testing. The Governor encouraged the rest of the Government of Guam and the private sector to adopt similar mandates; GWA is currently developing an SOP related to the Executive Order. Through August, GovGuam, pharmacies and clinics made available free COVID 19 vaccines in a variety of locations.

On August 31, 2021, the island's COVID Area Risk (CAR) score was an alarming 43.8 and testing was available to the public at no charge at various locations throughout the island. For the month of August 2021, the average daily positive test rate was 81.

Despite the pandemic, while only 7% of payments are made in cash, more than a third of payments continue to be made in person. Beginning in August, ratepayers will be able to access one walkup windows in Upper Tumon to make payments; the drive through will continue to remain open.

Using social media, GWA continues to encourage customers to conduct business online or via the phone. Additionally, an automated customer service online support portal is available on the GWA website for permits, submissions related to backflow testing, payment plans, and other customer related requests.

On April 28, 2020, CCU Resolution 24-FY2020 granted the lifting of credit card limits on payments for non-residential accounts. To date, approximately 44% of payments made in FY21 were made with credit cards. Below is a summary of payments made exceeding the limit. and related fees.

Month	Customer Count	Amount Paid	Fees	% Of Fees to Payments
May – September 2020	140	\$241,335	\$4,952	2.05%
October – December 2020	100	\$194,764	\$3,916	2.01%
January – March 2021	122	\$272,887	\$5,487	2.01%
April – June 2021	150	\$333,368	\$6,703	2.01%
July 2021	50	\$106,497	\$2,141	2.01%
August 2021	50	\$108,550	\$2,183	2.01%

Since disconnections resumed in June, the Upper Tumon office has opened Saturday mornings to take payments. For the Saturdays in August, there were 135 GWA payments, or an average of 34 per day, and



200 GPA payments, or an average of 50 per day. A total of \$32.5K in GWA payments and \$82.5K in GPA payments were accepted during Saturdays in August.

For the month of August, Finance posted \$101,737.52 in utility payments from the Department of Administration (DOA) for eligible renters as part of the Emergency Rental Assistance Program funded through the second federal relief act. Customer Service is working with DOA to ensure that residents who qualify for the program are not disconnected while payments are in process. Once funding becomes available, DOA will also administer the homeowner assistance program which also includes assistance for utilities.

While utility assistance programs will likely be available for ratepayers through next year, September 4 will mark the end of the federal-funded Pandemic Unemployment Assistance and Federal Pandemic Unemployment Compensation programs. Eligible Guam residents will be able to apply for the \$800 RISE Act payments in September.

#### **FY21 Audit**

The auditors have begun Interim work on the FY21 audit. An entrance conference with the OPA and Deloitte was held virtually on September 13, 2021. A follow-up meeting may likely be scheduled in November.

#### **PUC Docket**

The GWA Comprehensive Review and Update of its Five-Year Financial Plan & Capital Improvement Program (Financial Plan Update) and related Rate Application Model (RAM) were delivered to the PUC as required on May 1, 2021. Additionally, other analytical study related excel models were also provided.

On August 5<sup>th</sup>, the PUC Administrative Law Judge (ALJ) ordered that any password protections on the submitted models be removed. The Navy submitted testimony on August 6, 2021. On August 7, 2021, the unprotected models were provided.

An amended scheduling order was issued by the ALJ on August 19, 2021, setting a deadline for a third set of Requests for Information on September 3, 2021, and GWA's response by September 10, 2021. On August 26, 2021, GWA provided a revised RAM with the assumption that rates would be in place in January and that GWA would receive \$14.4 million in American Rescue Act Funds to mitigate proposed rate increases.

The PUC consultant's final report and testimony is due on October 8, 2021, and the ALJ's Report and Proposed Order is scheduled for November 15, 2021. Changes to the rate design and / or rates will likely not occur until December 2021 or January 2022.

#### **Rate Stabilization Fund**

CCU Resolution 11-FY2021 authorized the establishment of a Rate Stabilization Fund (RSF) as a mechanism for managing future uncertainties and risks as well as to promote predictable rates. In September 2021, GWA transferred the authorized \$11.4 million from GWA's Working Capital Reserves into the RSF. These funds were originally transferred into the Working Capital Reserves from the Working Capital Reserves for Debt Service per CCU Resolution 17-FY2020 which dissolved the Working Capital Reserves for Debt Service fund.

#### **Water and Wastewater Consumption**

Compared to last year, water consumption is down 6% and wastewater flows is about the same for the month of August. With regard to water consumption, golf demand doubled and hotel consumption increased by 11%.

Year to Date (YTD) water and wastewater demand were down 8% and 7% respectively compared to last year. Except for the Federal Government, water demand in all customer classes decreased. Wastewater flows



decreased for most customer classes with the exception of the residential class. Note that the number of YTD billing days for 2021 is 5 days less than 2020.

YTD average daily water consumption for the period is down 7% from 15,825 to 14,855 kgals. YTD average daily water consumption for the residential class increased by 1%, from 10,044 to 10,119 kgals. The largest drop in YTD average daily water consumption was in the hotel class, a 67% drop going from 2,066 to 1,241 kgals. While the average daily consumption drop for Golf Courses was 111%, this drop was 8 kgals, from 16 to 7 kgals.

Although the Governor's Executive Order called for a suspension of face-to-face learning for K5 through 12 grades, it is anticipated that students will return to their classrooms sometime in September. While GCC will resume in person classes, UOG will continue in person and virtual classes. See Schedule K for Water Demand for FY2015 to FY2021.

The Guam Visitors Bureau kicked off its Air V&V (Vaccination and Vacation) program to entice visitors (US citizens, green card holders, and non-citizens) to Guam. Participating hotels will assist with scheduling the vaccine and PCR tests. International travelers must provide a negative PCR test before boarding their flight to Guam, will receive a COVID-19 test the day following their arrival, and must undergo a 7-day self-paid quarantine. Additionally, to assist with their return, travelers will get a PCR test no more than 72 hours prior to departure.

The first direct flight from Taiwan in more than a year and a half arrived on July 6<sup>th</sup> with 153 passengers. GVB is providing free trolley service for island residents and visitors through the month of August. Flights from Korea to Guam will resume in August. However, on August 10, 2021, the Centers for Disease Control and Prevention raised Guam's travel risk to high advising travelers to get fully vaccinated before coming to Guam.

As the recovery of Guam's economy is slower than expected, revenues are coming in below projections. A cost containment plan is in place to respond to the revenue reductions. While sufficient cash reserves are in place, management will continue to assess the situation and make any course corrections required to ensure continuity of services to our customers while keeping the safety of our staff the highest priority. In order to prepare for additional downturns in demand and revenues,

#### ***Balance Sheet (Schedule A)***

- Total Assets & Deferred Outflows of Resources of \$1.152B in September 2020 increased by \$21.1M or 2% in August 2021 to \$1.174B. Current Assets decreased by \$3.5M primarily due to reductions in receivables and prepaid expenses offset by increases in cash. Property, Plant and Equipment increased by \$50.7M. Other Noncurrent Assets decreased by \$25.3M due to reductions in restricted cash and investments. Days Cash on Hand was calculated at 309 days. Schedule G contains a schedule of restricted and unrestricted cash and investments.
- Liabilities & Deferred Inflow of Resources of \$889.1M in September 2020 decreased by \$21.7M or 2% to \$867.4M in August 2021 primarily due to reductions in contractors payable, bonds payable and interest payable offset by an increase in trade accounts payable.
- Accounts Receivable days were 45 days in both August and July 2021. Accounts Payable days were 38 days in August, down one day as compared to July 2021. 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 August 2021 of \$8.6M were 10% or \$915K less than budget of \$9.5M. Operating Revenues for August 2021 were 2% or \$201K more than August 2020's \$8.4M as businesses begin to open due to the relaxation of public health emergency restrictions as well as the 5% rate increase effective in October 2020.
- Year to Date Operating Revenues as of August 2021 of \$92.7M were 11% or \$11.6M below budget of \$104.3M and \$4.8 or 5% below Year-to-Date Operating Revenues in August 2020 of \$97.5M.
- Below are the percentages of operating revenues (water and wastewater) contributed by GWA's customer classes for FY2021 and FY2020 Year to Date as of August as well as the revenue totals:

Customer Class	FY2021		FY2020	
○ Residential	\$44,833,944	49.45%	\$42,966,098	44.67%
○ Commercial	\$18,978,571	20.93%	\$19,463,522	20.23%
○ Hotel	\$11,894,834	13.12%	\$18,760,958	19.50%
○ Government of Guam	\$8,993,028	9.92%	8,785,940	9.13%
○ Federal Government	\$5,451,594	6.01%	\$5,620,346	5.84%
○ Agriculture, Golf Course, Irrigation	\$515,674	.57%	\$592,104	.62%
TOTALS	\$90,667,645	100%	\$96,188,968	100%

- Total Operating Expenses for August 2021 of \$6.90M were \$575K or 8% lower than budget of \$7.5M. Total Operating Expenses for August 2021 were 1% or \$53K less than August 2020's \$6.95M. The largest reductions month over month were in water purchases, materials & supplies, and other contractual expenses.
- Year to Date Operating Expenses in August 2021 of \$76.1M were \$6.1M or 7% lower than budget of \$82.2M. Year to Date Operating Expenses in August 2021 were \$2.6M or 3% less than last year's \$78.7M. The largest reductions in YTD expenditures year over year were in power and salaries & wages.
- Earnings from Operations for August 2021 of \$1.7M were 17% or \$339K less than the budget of \$2M and 18% or \$254K more than August 2020's \$1.4M. Change in Net Assets for August 2021 of (\$88K) was 103% or \$2.9M less than the \$2.8M budget and \$5.3M or 102% less than August 2020's \$5.2M. The reduction in Change in New Assets month over month is primarily due to an increase in Loss on Asset Disposal and a reduction in Federal Grants.
- Year to Date Earnings from Operations as of August 2021 of \$16.6M were 25% or \$5.5M less than budget of \$22.1M and 12% or \$2.2M less than YTD Earnings of \$18.7M as of August 2020. Year to Date Change in Net Assets as of August 2021 of \$42.8M were \$12.1M or 39% more than budget of \$30.7M. Year to Date Change in Net Assets as of August 2021 were \$8.8M or 17% less than YTD as of August 2020 of \$51.6M. The largest drops were in Federal Grants and interest expense.

**Key Financial Indicators**

Indicator	Target	July 2021	August 2021
DSC YTD			
• Per Section 6.12 of Indenture	1.25	1.35	1.35
• Per PUC / CCU	1.40	1.35	1.35
Days – Cash on Hand	120 days	297 days	309 days
Collection Ratio			
• Month to Date	99%	107%	94%
• Year to Date	99%	98%	99%
Days Billed	30 days	30 days	31 days
Account Receivable Days	30 days	45 days	45 days
Account Payable Days	45 days	39 days	38 days
Employee Count	400 FTE	363 FTE	372 FTE
Water Demand			
• Month to Date	478,754	437,864	443,188
• Year to Date	4,787,542	4,444,009	4,887,197
Wastewater Flow			
• Month to Date	356,472	311,764	332,271
• Year to Date	3,564,723	3,141,131	3,473,402
Water Customers	42,839	43,258	43,184
Wastewater Customers	29,805	29,885	29,796

**GUAM WATERWORKS AUTHORITY**  
**August 31, 2021**  
**FINANCIAL AND RELATED REPORTS**  
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**GUAM WATERWORKS AUTHORITY**  
**Balance Sheet**  
**August 31, 2021**

**SCHEDULE A**

<b>ASSETS AND DEFERRED OUTFLOWS of RESOURCES</b>	<b>Unaudited August 31, 2021</b>	<b>Audited September 30, 2020</b>	<b>Increase (Decrease)</b>
<u><b>Current Assets</b></u>			
Cash			
Unrestricted (Schedule G)	46,448,092	42,479,412	3,968,681
Restricted Funds (Schedule G)	31,127,986	30,072,502	1,055,485
Accounts Receivable Trade, Net of Allowance for Doubtful Receivables of \$8,369,429 at Aug 31, 2021 and \$8,027,857 at Sep 30, 2020	11,662,868	12,562,296	(899,428)
Federal Receivable	1,538,805	8,168,373	(6,629,568)
Other Receivable	865,179	902,423	(37,245)
Prepaid Expenses	1,464,139	2,615,782	(1,151,643)
Materials & Supplies Inventory, Net of Allowance for Obsolescence of \$64,131 at Aug 31, 2021 and \$64,131 at Sep 30, 2020	4,968,591	4,804,466	164,125
<b>Total Current Assets</b>	<b>98,075,660</b>	<b>101,605,252</b>	<b>(3,529,593)</b>
<u><b>Property, Plant and Equipment</b></u>			
Utility plant in service			
Water system	401,734,619	378,498,710	23,235,910
Wastewater system	500,428,732	481,549,640	18,879,092
Non-utility property	30,237,419	25,752,939	4,484,479
<b>Total property</b>	<b>932,400,770</b>	<b>885,801,289</b>	<b>46,599,481</b>
Less: Accumulated Depreciation	(364,094,279)	(343,128,759)	(20,965,520)
Land	5,240,187	5,240,187	-
Construction Work in Progress	175,380,893	150,323,347	25,057,546
<b>Property, Plant and Equipment, net</b>	<b>748,927,572</b>	<b>698,236,064</b>	<b>50,691,508</b>
<u><b>Noncurrent assets</b></u>			
Restricted cash (Schedule G)	195,503,066	219,203,039	(23,699,973)
Investments (Schedule G)	64,983,351	66,616,997	(1,633,646)
<b>Total other noncurrent assets and deferred charges</b>	<b>260,486,417</b>	<b>285,820,035</b>	<b>(25,333,618)</b>
<b>Total Assets</b>	<b>1,107,489,649</b>	<b>1,085,661,352</b>	<b>21,828,297</b>
<b>Deferred outflows of resources</b>			
Regulatory Assets	1,634,220	430,962	1,203,258
Debt defeasance due to bond refunding	31,458,734	33,351,801	(1,893,067)
Deferred outflows from pension	12,393,137	12,393,137	-
Deferred outflows from OPEB	20,526,945	20,526,945	-
<b>Total Assets and Deferred Outflows of Resources</b>	<b>1,173,502,685</b>	<b>1,152,364,198</b>	<b>21,138,487</b>
<b>LIABILITIES, DEFERRED INFLOWS of RESOURCES AND NET ASSETS</b>			
<u><b>Current Liabilities</b></u>			
Current maturities of long-term debt			
Series 2013 Revenue Bond	2,840,000	2,840,000	-
Series 2014 Refunding Bond	530,000	530,000	-
Series 2016 Revenue Bond	3,860,000	3,860,000	-
Series 2017 Refunding Bond	2,040,000	2,040,000	-
Accounts Payable -Trade	4,072,038	2,701,944	1,370,094
Accrued and Other Liabilities	1,197,987	1,238,863	(40,876)
Interest Payable	4,882,734	6,304,598	(1,421,864)
Accrued Payroll and Employee Benefits	205,729	354,780	(149,050)
Current portion of employee annual leave	572,761	572,761	-
Contractors' Payable	12,501,650	23,311,295	(10,809,645)
Customer and Other Deposits	2,373,035	2,199,462	173,573
<b>Total Current Liabilities</b>	<b>35,075,934</b>	<b>45,953,702</b>	<b>(10,877,769)</b>
<u><b>Long Term Debt, less current maturities</b></u>			
Series 2013 Revenue Bond	21,660,000	24,500,000	(2,840,000)
Series 2014 Refunding Bond	64,080,000	64,610,000	(530,000)
Series 2016 Revenue Bond	135,170,000	139,030,000	(3,860,000)
Series 2017 Refunding Bond	103,285,000	105,325,000	(2,040,000)
Series 2020A Revenue Bond	134,000,000	134,000,000	-
Series 2020B Refunding Bond	166,075,000	166,075,000	-
Unamortized Bond Premium/Discount	40,810,684	42,515,523	(1,704,839)
Net pension liability	54,387,676	54,387,676	-
Net OPEB obligation	84,163,331	84,163,331	-
Employee Annual Leave, Less Current Portion	1,222,548	1,222,548	-
Employee Sick Leave	1,226,702	1,226,702	-
<b>Total Liabilities</b>	<b>841,156,874</b>	<b>863,009,482</b>	<b>(21,852,608)</b>
<b>Deferred inflows of resources:</b>			
Contribution in Aid of Construction	245,557	67,608	177,948
Deferred inflows from pension	1,010,540	1,010,540	-
Deferred inflows from OPEB	25,015,789	25,015,789	-
<b>Total Liabilities and Deferred Inflows of Resources</b>	<b>867,428,760</b>	<b>889,103,419</b>	<b>(21,674,659)</b>
<b>Net Assets</b>	<b>306,073,925</b>	<b>263,260,778</b>	<b>42,813,147</b>
<b>Total Liabilities, Deferred Inflows of Resources and Net Assets</b>	<b>1,173,502,685</b>	<b>1,152,364,198</b>	<b>21,138,487</b>



**GUAM WATERWORKS AUTHORITY**  
**Statement of Operations and Retained Earnings**  
**Comparative Budget vs. Actual for the period ending August 31, 2021**

**SCHEDULE B**

	Month to Date		Variance
	Actual (Unaudited)	Budget*	Favorable /
	August-21	August-21	(Unfavorable)
<b>OPERATING REVENUES</b>			
Water Revenues	5,398,864	5,863,373	(464,509)
Wastewater Revenues	2,829,642	3,226,426	(396,784)
Legislative Surcharge	252,349	274,214	(21,865)
Other Revenues	37,482	35,895	1,587
System Development Charge	44,484	77,442	(32,958)
<b>Total Operating Revenues</b>	<b>8,562,821</b>	<b>9,477,350</b>	<b>(914,529)</b>
<b>OPERATING AND MAINTENANCE EXPENSES</b>			
Water Purchases	551,443	718,609	167,166
Power Purchases	1,189,881	1,082,131	(107,750)
Total Utility Costs	1,741,325	1,800,740	59,416
Salaries and Wages	1,529,675	1,769,221	239,546
Pension and Benefits	582,144	606,991	24,847
Total Salaries and Benefits	2,111,819	2,376,212	264,393
Capitalized Labor and Benefits	(302,527)	(308,333)	(5,806)
Net Salaries and Benefits	1,809,292	2,067,879	258,587
<b>Administrative and General Expenses</b>			
Sludge removal	108,148	131,907	23,760
Chemicals	113,937	144,696	30,758
Materials & Supplies	163,859	182,935	19,076
Transportation	69,633	72,298	2,665
Communications	21,891	22,528	638
Claims	-	5,181	5,181
Insurance	79,937	80,685	748
Training & Travel	660	4,321	3,661
Advertising	4,429	11,346	6,917
Miscellaneous	116,540	119,396	2,856
Regulatory Expense	19,414	24,155	4,740
Bad Debts Provision	136,385	139,113	2,728
Total Administrative and General Expense	834,833	938,561	103,728
<b>Depreciation Expense</b>	<b>1,974,389</b>	<b>1,855,919</b>	<b>(118,470)</b>
<b>Contractual Expense</b>			
Audit & Computer Maintenance	84,319	92,904	8,585
Building rental	41,479	41,852	373
Equipment rental	12,889	87,524	74,636
Legal	-	563	563
Laboratory	43,756	44,382	627
Other	87,153	258,274	171,121
Total Contractual Expense	269,595	525,500	255,904
Retiree Supp. Annuities and health care costs	215,631	233,386	17,755
Contribution to Government of Guam	50,333	48,546	(1,787)
Total Retiree Benefits	265,964	281,932	15,968
<b>Total Operating Expenses</b>	<b>6,895,398</b>	<b>7,470,530</b>	<b>575,132</b>
<b>Earnings (Loss) from Operations</b>	<b>1,667,422</b>	<b>2,006,820</b>	<b>(339,397)</b>
Interest Income - 2010/13/14/16/17/20 Series Bond	2,531	128,299	(125,768)
Interest Income - Other Funds	1,348	29,550	(28,203)
Interest Income - SDC	406	2,488	(2,081)
Interest Expense - 2010/13/14/16/17/20 Series Bond	(2,441,367)	(2,638,329)	196,962
Loss on Asset Disposal	(1,122,319)	-	(1,122,319)
AFUDC	508,783	-	508,783
Amortization of Discount, Premium and Issuance Costs	156,349	(23,078)	179,427
Defeasance due to bond refunding	(172,097)	(22,439)	(149,658)
Total non-operating revenues (expenses)	(3,066,366)	(2,523,508)	(542,858)
<b>Net Income (Loss) before capital contributions</b>	<b>(1,398,944)</b>	<b>(516,688)</b>	<b>(882,256)</b>
<b>Capital Contributions</b>			
Grants from US Government	1,310,841	3,311,071	(2,000,230)
Total Capital Contributions	1,310,841	3,311,071	(2,000,230)
<b>Change in Net Assets</b>	<b>(88,103)</b>	<b>2,794,383</b>	<b>(2,882,486)</b>
<b>Debt Service Calculation</b>			
Earnings From Operations	1,667,422	2,006,820	
System Development Charge	(44,484)	(77,442)	
Retiree COLA	50,333	48,546	
Interest/Investment Income	1,348	29,550	
Depreciation	1,974,389	1,855,919	
<b>Balance Available for Debt Service per Section 6.12</b>	<b>3,649,009</b>	<b>3,863,393</b>	
<b>Debt Service</b>			
Principal	772,500	772,500	
Interest	1,847,251	1,996,663	
<b>Total</b>	<b>2,619,751</b>	<b>2,769,163</b>	
<b>Debt Service Coverage (1.25X) - per Section 6.12 (Indenture)</b>	<b>1.39</b>	<b>1.40</b>	
<b>Debt Service Coverage (1.40X) inclusive of reserves (PUC)</b>	<b>1.39</b>	<b>1.40</b>	

\*Adjusted budget



**GUAM WATERWORKS AUTHORITY**  
**Statement of Operations and Retained Earnings**  
**Comparative for the period ending August 31, 2021 and 2020**

SCHEDULE C

	Month to Date		Variance
	Actual (Unaudited)	Actual (Audited)	Increase /
	August-21	August-20	(Decrease)
<b>OPERATING REVENUES</b>			
Water Revenues	5,398,864	5,435,125	(36,261)
Wastewater Revenues	2,829,642	2,585,952	243,690
Legislative Surcharge	252,349	244,339	8,010
Other Revenues	37,482	18,479	19,003
System Development Charge	44,484	78,363	(33,879)
<b>Total Operating Revenues</b>	<b>8,562,821</b>	<b>8,362,257</b>	<b>200,564</b>
<b>OPERATING AND MAINTENANCE EXPENSES</b>			
Water Purchases	551,443	645,606	(94,163)
Power Purchases	1,189,881	1,006,377	183,504
Total Utility Costs	1,741,325	1,651,983	89,342
Salaries and Wages	1,529,675	1,496,600	33,076
Pension and Benefits	582,144	503,417	78,727
Total Salaries and Benefits	2,111,819	2,000,017	111,803
Capitalized Labor and Benefits	(302,527)	(351,357)	48,829
Net Salaries and Benefits	1,809,292	1,648,660	160,632
<b>Administrative and General Expenses</b>			
Sludge removal	108,148	80,617	27,531
Chemicals	113,937	116,587	(2,649)
Materials & Supplies	163,859	215,015	(51,156)
Transportation	69,633	33,461	36,172
Communications	21,891	11,500	10,391
Claims	-	7,533	(7,533)
Insurance	79,937	78,330	1,607
Training & Travel	660	-	660
Advertising	4,429	5,342	(913)
Miscellaneous	116,540	89,111	27,430
Regulatory Expense	19,414	8,319	11,096
Bad Debts Provision	136,385	163,687	(27,302)
Total Administrative and General Expense	834,833	809,501	25,332
<b>Depreciation Expense</b>	<b>1,974,389</b>	<b>2,338,946</b>	<b>(364,557)</b>
<b>Contractual Expense</b>			
Audit & Computer Maintenance	84,319	18,787	65,532
Building rental	41,479	38,456	3,024
Equipment rental	12,889	35,014	(22,125)
Laboratory	43,756	11,528	32,228
Other	87,153	129,736	(42,583)
Total Contractual Expense	269,595	233,521	36,075
Retiree Supp. Annuities and health care costs	215,631	215,480	150
Contribution to Government of Guam	50,333	50,333	0
Total Retiree Benefits	265,964	265,813	151
<b>Total Operating Expenses</b>	<b>6,895,398</b>	<b>6,948,425</b>	<b>(53,026)</b>
<b>Earnings (Loss) from Operations</b>	<b>1,667,422</b>	<b>1,413,832</b>	<b>253,590</b>
Interest Income - 2010/13/14/16/17/20 Series Bond	2,531	2,469	63
Interest Income - Other Funds	1,348	1,332	16
Interest Income - SDC	406	10,675	(10,269)
Interest Expense - 2010/13/14/16/17/20 Series Bond	(2,441,367)	(2,072,100)	(369,267)
Federal Expenditures	-	(29,047)	29,047
Loss on Asset Disposal	(1,122,319)	-	(1,122,319)
AFUDC	508,783	-	508,783
Amortization of Discount, Premium and Issuance Costs	156,349	(1,447,315)	1,603,664
Defeasance due to bond refunding	(172,097)	(68,976)	(103,121)
Prior Year Adjustment	-	(101,604)	101,604
Total non-operating revenues (expenses)	(3,066,366)	(3,704,566)	638,199
<b>Net Income (Loss) before capital contributions</b>	<b>(1,398,944)</b>	<b>(2,290,733)</b>	<b>891,789</b>
<b>Capital Contributions</b>			
Grants from US Government	1,310,841	6,987,461	(5,676,620)
Grants from GovGuam & Others	-	527,551	(527,551)
Total Capital Contributions	1,310,841	7,515,012	(6,204,171)
<b>Change in Net Assets</b>	<b>(88,103)</b>	<b>5,224,279</b>	<b>(5,312,382)</b>
<b>Debt Service Calculation</b>			
Earnings From Operations	1,667,422	1,413,832	
System Development Charge	(44,484)	(78,363)	
Retiree COLA	50,333	50,333	
Interest/Investment Income	1,348	1,332	
Depreciation	1,974,389	2,338,946	
<b>Balance Available for Debt Service per Section 6.12</b>	<b>3,649,009</b>	<b>3,726,081</b>	
<b>Debt Service</b>			
Principal	772,500	730,833	
Interest	1,847,251	2,117,099	
<b>Total</b>	<b>2,619,751</b>	<b>2,847,932</b>	
<b>Debt Service Coverage (1.25X) - per Section 6.12 (Indenture)</b>	<b>1.39</b>	<b>1.31</b>	
<b>Debt Service Coverage (1.40X) (PUC)</b>	<b>1.39</b>	<b>1.31</b>	

**GUAM WATERWORKS AUTHORITY**  
**Statement of Operations and Retained Earnings**  
**Comparative Budget vs. Actual for the period ending August 31, 2021**

SCHEDULE D

	Year to Date Actual (Unaudited) August-21	Budget* August-21	Variance Favorable / (Unfavorable)
<b>OPERATING REVENUES</b>			
Water Revenues	59,199,145	64,497,105	(5,297,960)
Wastewater Revenues	28,792,257	35,490,682	(6,698,426)
Legislative Surcharge	2,676,256	3,016,356	(340,100)
Other Revenues	450,991	394,842	56,149
System Development Charge	1,542,183	851,862	690,321
<b>Total Operating Revenues</b>	<b>92,660,832</b>	<b>104,250,848</b>	<b>(11,590,016)</b>
<b>OPERATING AND MAINTENANCE EXPENSES</b>			
Water Purchases	6,046,394	7,904,697	1,858,303
Power Purchases	11,331,024	11,903,446	572,422
Total Utility Costs	17,377,418	19,808,143	2,430,725
Salaries and Wages	17,137,701	19,461,428	2,323,727
Pension and Benefits	6,545,605	6,676,904	131,299
Total Salaries and Benefits	23,683,306	26,138,332	2,455,026
Capitalized Labor and Benefits	(3,356,370)	(3,391,667)	(35,297)
Net Salaries and Benefits	20,326,937	22,746,666	2,419,729
<b>Administrative and General Expenses</b>			
Sludge removal	1,377,975	1,450,978	73,003
Chemicals	1,368,967	2,163,651	794,683
Materials & Supplies	1,318,961	2,012,289	693,328
Transportation	439,659	440,275	616
Communications	145,579	159,812	14,233
Claims	67,706	67,987	282
Insurance	876,652	878,539	1,887
Training & Travel	28,340	106,530	78,190
Advertising	67,552	124,806	57,254
Miscellaneous	1,099,035	1,103,358	4,323
Regulatory Expense	283,944	285,702	1,758
Bad Debts Provision	1,779,641	1,780,245	604
Total Administrative and General Expense	8,854,009	10,574,170	1,720,161
<b>Depreciation Expense</b>	<b>23,317,472</b>	<b>20,415,112</b>	<b>(2,902,360)</b>
<b>Contractual Expense</b>			
Audit & Computer Maintenance	1,025,579	1,026,944	1,364
Building rental	455,528	455,871	343
Equipment rental	235,358	706,767	471,408
Legal	-	6,189	6,189
Laboratory	286,726	389,205	102,479
Other	1,344,223	2,945,519	1,601,295
Total Contractual Expense	3,347,415	5,530,495	2,183,080
Retiree Supp. Annuities and health care costs	2,316,895	2,567,243	250,347
Contribution to Government of Guam	553,667	534,006	(19,661)
Total Retiree Benefits	2,870,562	3,101,248	230,686
<b>Total Operating Expenses</b>	<b>76,093,812</b>	<b>82,175,833</b>	<b>6,082,021</b>
<b>Earnings (Loss) from Operations</b>	<b>16,567,020</b>	<b>22,075,015</b>	<b>(5,507,994)</b>
Interest Income - 2010/13/14/16/17/20 Series Bond	26,833	1,411,294	(1,384,461)
Interest Income - Other Funds	11,577	325,055	(313,478)
Interest Income - SDC	12,395	27,363	(14,967)
Interest Expense - 2010/13/14/16/17/20 Series Bond	(27,445,153)	(29,021,621)	1,576,468
Contributions from Federal Government	188,768	-	188,768
Federal Expenditures	(130,939)	-	(130,939)
Loss on Asset Disposal	(1,093,328)	-	(1,093,328)
AFUDC	5,594,154	-	5,594,154
Amortization of Discount, Premium and Issuance Costs	1,718,089	(253,853)	1,971,942
Defeasance due to bond refunding	(1,893,067)	(246,824)	(1,646,243)
Prior Year Adjustment	96,817	-	96,817
Total non-operating revenues (expenses)	(22,913,855)	(27,758,587)	4,844,732
<b>Net Income (Loss) before capital contributions</b>	<b>(6,346,835)</b>	<b>(5,683,572)</b>	<b>(663,262)</b>
<b>Capital Contributions</b>			
Grants from US Government	49,152,876	36,421,786	12,731,090
Grants from GovGuam & Others	7,106	-	7,106
Total Capital Contributions	49,159,981	36,421,786	12,738,196
<b>Change in Net Assets</b>	<b>42,813,147</b>	<b>30,738,213</b>	<b>12,074,933</b>
<b>Debt Service Calculation</b>			
Earnings From Operations	16,567,020	22,075,015	
System Development Charge	(1,542,183)	(851,862)	
Retiree COLA	553,667	534,006	
Interest/Investment Income	11,577	325,055	
Depreciation	23,317,472	20,415,112	
<b>Balance Available for Debt Service per Section 6.12</b>	<b>38,907,553</b>	<b>42,497,325</b>	
<b>Debt Service</b>			
Principal	8,497,500	8,497,500	
Interest	20,319,765	21,963,288	
<b>Total</b>	<b>28,817,265</b>	<b>30,460,788</b>	
<b>Debt Service Coverage (1.25X) - per Section 6.12 (Indenture)</b>	<b>1.35</b>	<b>1.40</b>	
<b>Debt Service Coverage (1.40X) inclusive of reserves (PUC)</b>	<b>1.35</b>	<b>1.40</b>	

\*Adjusted budget

**GUAM WATERWORKS AUTHORITY**  
**Statement of Operations and Retained Earnings**  
**Comparative for the period ending August 31, 2021 and 2020**

**SCHEDULE E**

	Year to Date Actual (Unaudited) August-21	Actual (Audited) August-20	Variance Increase / (Decrease)
<b>OPERATING REVENUES</b>			
Water Revenues	59,199,145	60,855,820	(1,656,675)
Wastewater Revenues	28,792,257	32,397,671	(3,605,414)
Legislative Surcharge	2,676,256	2,935,477	(259,221)
Other Revenues	450,991	567,771	(116,780)
System Development Charge	1,542,183	696,181	846,002
<b>Total Operating Revenues</b>	<b>92,660,832</b>	<b>97,452,921</b>	<b>(4,792,089)</b>
<b>OPERATING AND MAINTENANCE EXPENSES</b>			
Water Purchases	6,046,394	5,736,151	310,244
Power Purchases	11,331,024	13,134,002	(1,802,978)
Total Utility Costs	17,377,418	18,870,152	(1,492,734)
Salaries and Wages	17,137,701	18,639,179	(1,501,478)
Pension and Benefits	6,545,605	5,865,261	680,344
Total Salaries and Benefits	23,683,306	24,504,440	(821,134)
Capitalized Labor and Benefits	(3,356,370)	(3,699,573)	343,203
Net Salaries and Benefits	20,326,937	20,804,867	(477,931)
<b>Administrative and General Expenses</b>			
Sludge removal	1,377,975	1,182,252	195,723
Chemicals	1,368,967	1,639,501	(270,533)
Materials & Supplies	1,318,961	1,763,194	(444,233)
Transportation	439,659	482,850	(43,191)
Communications	145,579	141,010	4,569
Claims	67,706	130,886	(63,180)
Insurance	876,652	858,860	17,792
Training & Travel	28,340	117,519	(89,179)
Advertising	67,552	50,749	16,803
Miscellaneous	1,099,035	993,262	105,773
Regulatory Expense	283,944	301,707	(17,763)
Bad Debts Provision	1,779,641	1,922,118	(142,478)
Total Administrative and General Expense	8,854,009	9,583,907	(729,898)
<b>Depreciation Expense</b>	<b>23,317,472</b>	<b>22,736,260</b>	<b>581,212</b>
<b>Contractual Expense</b>			
Audit & Computer Maintenance	1,025,579	630,614	394,965
Building rental	455,528	403,407	52,120
Equipment rental	235,358	699,494	(464,136)
Legal	-	28,477	(28,477)
Laboratory	286,726	181,748	104,978
Other	1,344,223	1,897,729	(553,506)
Total Contractual Expense	3,347,415	3,841,470	(494,055)
Retiree Supp. Annuities and health care costs	2,316,895	2,339,483	(22,588)
Contribution to Government of Guam	553,667	553,667	(0)
Total Retiree Benefits	2,870,562	2,893,150	(22,588)
<b>Total Operating Expenses</b>	<b>76,093,812</b>	<b>78,729,806</b>	<b>(2,635,994)</b>
<b>Earnings (Loss) from Operations</b>	<b>16,567,020</b>	<b>18,723,114</b>	<b>(2,156,094)</b>
Interest Income - 2010/13/14/16/17/20 Series Bond	26,833	986,163	(959,330)
Interest Income - Other Funds	11,577	273,943	(262,366)
Interest Income - SDC	12,395	100,233	(87,837)
Interest Expense - 2010/13/14/16/17/20 Series Bond	(27,445,153)	(23,716,382)	(3,728,771)
Interest Expense - ST BOG	-	(38,188)	38,188
Contributions from Federal Government	188,768	-	188,768
Federal Expenditures	(130,939)	(173,690)	42,751
Loss on Asset Disposal	(1,093,328)	(254,364)	(838,965)
AFUDC	5,594,154	-	5,594,154
Amortization of Discount, Premium and Issuance Costs	1,718,089	(1,330,369)	3,048,458
Defeasance due to bond refunding	(1,893,067)	(758,731)	(1,134,336)
Prior Year Adjustment	96,817	(269,825)	366,642
Total non-operating revenues (expenses)	(22,913,855)	(25,181,211)	2,267,356
<b>Net Income (Loss) before capital contributions</b>	<b>(6,346,835)</b>	<b>(6,458,096)</b>	<b>111,261</b>
<b>Capital Contributions</b>			
Grants from US Government	49,152,876	57,408,442	(8,255,567)
Grants from GovGuam & Others	7,106	657,880	(650,775)
Total Capital Contributions	49,159,981	58,066,323	(8,906,341)
<b>Change in Net Assets</b>	<b>42,813,147</b>	<b>51,608,226</b>	<b>(8,795,080)</b>
<b>Debt Service Calculation</b>			
Earnings From Operations	16,567,020	18,723,114	
System Development Charge	(1,542,183)	(696,181)	
Retiree COLA	553,667	553,667	
Interest/Investment Income	11,577	273,943	
Depreciation	23,317,472	22,736,260	
<b>Balance Available for Debt Service per Section 6.12</b>	<b>38,907,553</b>	<b>41,590,803</b>	
<b>Debt Service</b>			
Principal	8,497,500	8,039,167	
Interest	20,319,765	23,288,089	
<b>Total</b>	<b>28,817,265</b>	<b>31,327,255</b>	
<b>Debt Service Coverage (1.25X) - per Section 6.12 (Indenture)</b>	<b>1.35</b>	<b>1.33</b>	
<b>Debt Service Coverage (1.40X) (PUC)</b>	<b>1.35</b>	<b>1.33</b>	

**Guam Waterworks Authority  
System Development Charges Project Status  
As of August 31, 2021**

**SCHEDULE F**

**Funding Summary**

Total available project funds	\$ 14,772,799
Total project expenditures and encumbrances	10,420,561
Total unobligated project funds	<b>\$ 4,352,239</b>

**Projects Funded**

<b>Project Description</b>	<b>Expenditures</b>	<b>Outstanding Encumbrances</b>	<b>Expenditures and Encumbrances</b>
Agat-Santa Rita Wastewater Treatment Plant Replacement	1,202,006	-	1,202,006
Baza Gardens Wastewater Cross Island Pumping & Conveyance	1,150,881	3,090	1,153,971
Central Guam Reservoirs	274,240	5,800	280,040
Line Replacement Phase IV	256,937	-	256,937
Northern DWWTP	610,395	4,842,224	5,452,619
Northern DWWTP (Land Purchase)	1,000,000	-	1,000,000
Route 4 Relief Sewerline Rehab & Replacement	519,227	74,641	593,869
South Paulino Heights Waterline Upgrade	84,056	4,714	88,770
Talofofo Sewer Improvement	-	241,142	241,142
Groundwater Well Production Meter Rep.	-	151,207	151,207
	<b>\$ 5,097,743</b>	<b>\$ 5,322,818</b>	<b>\$ 10,420,561</b>

**Future planned projects**

	<b>FY 2021-2025</b>
Water Wells	1,000,000
Water Dist Sys Pipe Replacement & Upgrades	1,500,000
Capacity Enhancements - Well Dvlp and Construction Prg	394,000
Well Repair Program	200,000
	<b>\$ 3,094,000</b>

**GUAM WATERWORKS AUTHORITY**  
**Restricted and Unrestricted Cash Summary**  
**FY2021**

**SCHEDULE G**

Description	Unaudited August 31, 2021	Audited September 30, 2020	Increase (Decrease)
<b>UNRESTRICTED</b>			
Change Fund	2,000	2,000	-
Petty Cash	4,430	4,450	(20)
BOG Deposit Accounts	11,766,877	5,561,165	6,205,712
BOG O & M Reserve	25,262,702	25,689,390	(426,689)
BOG CapEx Fund	9,412,084	11,222,407	(1,810,323)
<b>Sub-total Unrestricted</b>	<b>46,448,092</b>	<b>42,479,412</b>	<b>3,968,681</b>
<b>RESTRICTED</b>			
ANZ Bank	789	-	789
Bank Pacific	13,927	29,243	(15,316)
Bank of Hawaii	194,353	191,250	3,103
Community First FCU	4,641	1,976	2,666
First Hawaiian Bank	40,549	43,451	(2,902)
Bank Pacific Surcharge	2,053,588	420,680	1,632,908
Bank Pacific Escrow Deposit	921,678	842,331	79,347
BOG Customer Refunds	2,188,093	2,063,361	124,733
BOG Emergency Reserve Fund	6,245	6,243	-
BOG Sewer Hookup Revolving Fund	61,099	67,809	(6,710)
BOG Operation and Maintenance Fund	3,083,482	3,083,482	-
BOG Revenue Trust	396,867	254,619	142,248
BOG Revenue Trust Fund	6,257,807	7,929,291	(1,671,485)
BOG Capital Improvement Revenue Fund	6,017,834	5,361,363	656,471
	<b>21,240,952</b>	<b>20,295,100</b>	<b>945,851</b>
BOG - SDC Deposit	3,137,034	3,527,401	(390,368)
BOG - SDC CDs	6,750,000	6,250,000	500,000
<b>Total SDC</b>	<b>9,887,034</b>	<b>9,777,401</b>	<b>109,632</b>
<b>Total Restricted</b>	<b>31,127,986</b>	<b>30,072,502</b>	<b>1,055,483</b>
<b>Reserve Funds</b>			
BOG Series 2013 Construction Fund	4,442,394	8,647,934	(4,205,541)
BOG Series 2014 Refunding Construction Fund	1,864	219,099	(217,235)
BOG Series 2016 Construction Fund	57,255,618	68,518,206	(11,262,587)
BOG Series 2017 Refunding Construction Fund	5,564,194	6,206,732	(642,538)
BOG Series 2020A Construction Fund	122,654,465	-	122,654,465
BOG Series 2020A Capitalized Interest Fund	5,584,532	123,277,054	(117,692,522)
BOG Series 2020A Cost of Issuance Fund	-	12,283,633	(12,283,633)
B20B- BOG COI Fund 184000	-	50,382	(50,382)
<b>Total Restricted - Held by Trustee</b>	<b>195,503,066</b>	<b>219,203,039</b>	<b>(23,699,973)</b>
BOG OMRRRF Fund	17,423,213	17,423,213	-
USB Series 2013 Debt Service Fund	1,042,715	1,810,544	(767,829)
USB Series 2013 Debt Service Reserve Fund	12,031,688	12,031,688	-
USB Series 2014 Refunding Debt Service Fund	732,616	1,048,374	(315,758)
USB Series 2014 Refunding Debt Service Reserve Fund	7,736,631	7,735,395	1,236
USB Series 2016 Debt Service Fund	1,899,394	2,815,863	(916,469)
USB Series 2016 Debt Service Reserve Fund	7,591,999	7,591,999	-
USB Series 2010 Debt Service Fund	31,558	31,556	-
USB Series 2017 Refunding Debt Service Reserve Fund	7,566,460	7,566,460	-
USB Series 2017 Debt Service Fund	1,285,504	1,902,205	(616,701)
USB Series 2020A Debt Service Reserve Fund	6,659,700	6,659,700	-
USB Series 2020B Debt Service Reserve Fund	981,874	-	981,874
<b>Total Investments</b>	<b>64,983,351</b>	<b>66,616,997</b>	<b>(1,633,647)</b>
<b>Total Restricted and Unrestricted Cash</b>	<b>338,062,495</b>	<b>358,371,949</b>	<b>(20,309,457)</b>

GWA Work Session - September 21, 2021 - DIVISION REPORTS

Guam Waterworks Authority  
Accounts Receivable - Government (Active)  
August 31, 2021

SCHEDULE H

A G I N G								
Customer Name	No. of Accounts	Current	31 - 60 days	61 - 90 days	91 - 120 days	Over 120 days	Total	
<b>Autonomous Agencies (Active)</b>								
Guam Int'l Airport Authority	7	\$ 28,419	\$ 27,805	\$ 19,712	\$ 6,451	\$ 243,277	\$	325,664
Guam Memorial Hospital Authority	3	43,698	42,881	38,968	1,638	13,705		140,891
Guam Power Authority	25	109,598	150	-	-	-		109,748
Guam Housing & Urban Renewal Authority	9	8,512	650	389	330	1,213		11,094
Port Authority of Guam	5	1,064	-	-	-	-		1,064
Guam Visitors Bureau	1	35	-	-	-	-		35
								-
<b>Total Autonomous Agencies</b>	<b>50</b>	<b>\$ 191,326</b>	<b>\$ 71,486</b>	<b>\$ 59,069</b>	<b>\$ 8,420</b>	<b>\$ 258,196</b>	<b>\$</b>	<b>588,497</b>
		<b>32.51%</b>	<b>12.15%</b>	<b>10.04%</b>	<b>1.43%</b>	<b>43.87%</b>		<b>100.00%</b>
<b>Line Agencies</b>								
Department of Education	52	\$ 318,071	\$ 359,285	\$ 169,564	\$ 798	\$ -	\$	847,718
Mayors Council of Guam	61	16,343	11,679	5,881	2,934	97,529		134,366
Department of Parks & Recreation	14	48,386	28,011	3,417	697	3,098		83,608
Guam Police Department	8	4,611	5,246	5,819	4,353	5,101		25,131
Department of Corrections	8	20,711	1,338	-	-	-		22,049
Department of Public Works	11	4,004	703	95	94	6,410		11,307
Department of Chamorro Affairs	7	8,451	-	-	-	-		8,451
Department of Public Health & Social Services	9	4,363	679	163	58	965		6,228
Department of Agriculture	6	6,028	26	-	-	-		6,054
Office of the Governor	2	5,986	-	-	-	-		5,986
University of Guam	48	5,602	-	-	-	-		5,602
Guam Community College	3	4,417	-	-	-	-		4,417
Guam Fire Department	11	2,857	826	-	-	-		3,683
Sanctuary Inc	1	3,510	-	-	-	-		3,510
New Guam Mental Health	1	1,546	-	-	-	-		1,546
Guam Veterans Affairs Office	2	1,357	6	-	-	-		1,362
Department of Youth Affairs	3	1,164	-	-	-	-		1,164
Department of Mental Health	2	311	762	-	-	-		1,073
Office of Technology	1	850	-	-	-	-		850
Department of Customs & Quarantine	1	428	389	-	-	-		817
Division of Senior Citizens, DPH&SS	2	263	184	335	-	-		782
Guam Police Department	2	220	217	216	48	-		701
Guam Public Library	6	433	37	-	-	-		470
Office of Civil Defense	2	303	-	-	-	-		303
Department of Administration	3	250	-	-	-	-		250
Agat Mayor's Office	1	64	81	53	-	-		197
Guam Environmental Protection Agency	2	152	-	-	-	-		152
The Office of the Dededo Mayor	1	125	-	-	-	-		125
Merizo Mayor	1	37	62	-	-	-		99
Guam Solid Waste Authority	3	60	-	-	-	-		60
								-
<b>Total Line Agencies</b>	<b>274</b>	<b>\$ 460,902</b>	<b>\$ 409,532</b>	<b>\$ 185,544</b>	<b>\$ 8,982</b>	<b>\$ 113,103</b>	<b>\$</b>	<b>1,178,063</b>
		<b>39.12%</b>	<b>34.76%</b>	<b>15.75%</b>	<b>0.76%</b>	<b>9.60%</b>		<b>100.00%</b>
<b>Total as of August 31, 2021 (Active)</b>	<b>324</b>	<b>\$ 652,228</b>	<b>\$ 481,018</b>	<b>\$ 244,613</b>	<b>\$ 17,402</b>	<b>\$ 371,299</b>	<b>\$</b>	<b>1,766,560</b>
		<b>36.92%</b>	<b>27.23%</b>	<b>13.85%</b>	<b>0.99%</b>	<b>21.02%</b>		<b>100.00%</b>

GWA Work Session - September 21, 2021 - DIVISION REPORTS

GUAM WATERWORKS AUTHORITY  
Accounts Receivable Aging Summary by Rate Class  
As of August 31, 2021

SCHEDULE I

ACTIVE AND INACTIVE

Rate Class	A G I N G							
	No. of Accounts	Current	31 - 60 days	61 - 90 days	91 - 120 days	Over 120 days	Total	
Government	434	\$ 2,558,552	\$ 481,018	\$ 244,613	\$ 19,908	\$ 459,473	\$ 3,763,564	19%
Agriculture	402	31,680	6,415	3,311	3,453	30,458	75,317	0%
Commercial I	2,616	1,290,022	87,136	57,690	19,775	436,408	1,891,031	9%
Commercial II	33	214,806	299	1,092	-	-	216,197	1%
Commercial III	302	564,049	29,656	13,000	12,579	230,158	849,442	4%
Golf Course	16	3,870	-	-	-	-	3,870	0%
Hotel	58	1,428,598	118,182	75,705	48,078	623,866	2,294,429	11%
Irrigation	33	2,882	324	253	272	1,964	5,695	0%
Residential	47,984	4,546,435	1,004,015	529,561	359,146	4,493,597	10,932,752	55%
	<b>51,878</b>	<b>10,640,893</b>	<b>1,727,046</b>	<b>925,224</b>	<b>463,212</b>	<b>6,275,923</b>	<b>20,032,297</b>	<b>100%</b>
		53%	9%	5%	2%	31%		

Less Allowance for Doubtful Accounts: (8,369,429)  
Net Accounts Receivable: **11,662,868**

Days Receivables Outstanding 45

As of July 31, 2021

Rate Class	A G I N G							
	No. of Accounts	Current	31 - 60 days	61 - 90 days	91 - 120 days	Over 120 days	Total	
Government	433	\$ 2,914,956	\$ 423,493	\$ 66,626	\$ 10,992	\$ 450,389	\$ 3,866,457	19%
Agriculture	402	36,368	7,640	5,461	3,729	31,140	84,339	0%
Commercial I	2,613	1,308,113	95,568	49,966	93,183	396,624	1,943,453	10%
Commercial II	33	126,543	1,149	182	-	-	127,874	1%
Commercial III	302	559,854	27,441	14,725	(77,598)	324,821	849,243	4%
Golf Course	16	3,867	-	-	-	-	3,867	0%
Hotel	58	1,373,863	140,662	72,663	78,311	595,766	2,261,266	11%
Irrigation	33	3,529	253	372	250	1,765	6,168	0%
Residential	47,848	4,643,858	858,681	484,279	381,883	4,624,865	10,993,563	55%
	<b>51,738</b>	<b>10,970,951</b>	<b>1,554,887</b>	<b>694,273</b>	<b>490,751</b>	<b>6,425,372</b>	<b>20,136,231</b>	<b>100%</b>
		54%	8%	3%	2%	32%		

Less Allowance for Doubtful Accounts: (8,229,726)  
Net Accounts Receivable: **11,372,430**

Days Receivables Outstanding 45

ACTIVE ONLY

Rate Class	A G I N G							
	No. of Accounts	Current	31 - 60 days	61 - 90 days	91 - 120 days	Over 120 days	Total	
Government	434	\$ 2,558,552	\$ 481,018	\$ 244,613	\$ 19,908	\$ 459,473	\$ 3,763,564	23%
Agriculture	382	31,240	5,253	2,503	2,608	5,396	47,000	0%
Commercial I	2,456	1,287,313	77,771	49,933	19,683	271,590	1,706,291	11%
Commercial II	32	214,806	299	-	-	-	215,105	1%
Commercial III	288	559,252	24,576	13,000	12,579	181,119	790,526	5%
Golf Course	16	3,870	-	-	-	-	3,870	0%
Hotel	56	1,428,598	118,182	75,705	48,078	499,555	2,170,118	13%
Irrigation	32	2,882	324	253	272	669	4,400	0%
Residential	39,955	4,309,348	682,461	402,501	256,073	1,737,272	7,387,655	46%
	<b>43,651</b>	<b>10,395,861</b>	<b>1,389,885</b>	<b>788,508</b>	<b>359,203</b>	<b>3,155,074</b>	<b>16,088,530</b>	<b>100%</b>
		65%	9%	5%	2%	20%		

Less Allowance for Doubtful Accounts: (8,369,429)  
Net Accounts Receivable: **7,719,101**

As of July 31, 2021

Rate Class	A G I N G							
	No. of Accounts	Current	31 - 60 days	61 - 90 days	91 - 120 days	Over 120 days	Total	
Government	433	\$ 2,914,956	\$ 423,493	\$ 66,626	\$ 10,992	\$ 450,389	\$ 3,866,457	24%
Agriculture	384	35,210	6,832	4,616	2,931	6,617	56,206	0%
Commercial I	2,459	1,298,801	87,862	49,966	47,437	285,675	1,769,741	11%
Commercial II	32	126,543	58	182	-	-	126,783	1%
Commercial III	288	554,264	27,441	14,725	(81,299)	279,483	794,614	5%
Golf Course	16	3,867	-	-	-	-	3,867	0%
Hotel	56	1,373,863	140,662	72,663	78,311	471,456	2,136,955	13%
Irrigation	32	3,529	253	372	250	470	4,873	0%
Residential	39,950	4,286,426	728,325	385,731	298,334	1,905,398	7,604,214	46%
	<b>43,650</b>	<b>10,597,459</b>	<b>1,414,926</b>	<b>594,879</b>	<b>356,958</b>	<b>3,399,488</b>	<b>16,363,710</b>	<b>100%</b>
		65%	9%	4%	2%	21%		

Less Allowance for Doubtful Accounts: (8,229,726)  
Net Accounts Receivable: **8,133,984**

**GUAM WATERWORKS AUTHORITY**  
**Accounts Payable Aging**

**SCHEDULE J**

<u>As of</u>	<u>AGING</u>							<u>Days Payable Outstanding</u>
	Current	31 - 60 Days	61 - 90 Days	91 - 120 Days	> 120 Days	Total		
<b>August 31, 2021</b>	\$ 3,022,574 74%	\$ 388,262 10%	\$ 248,030 6%	\$ 110,845 3%	\$ 302,326 7%	<b>\$ 4,072,038</b> <b>100%</b>		38
<b>July 31, 2021</b>	\$ 2,034,738 65%	\$ 1,476,814 14%	\$ 154,873 10%	\$ 64,741 2%	\$ 365,181 10%	<b>\$ 4,096,347</b> <b>100%</b>		39
<b>June 30, 2021</b>	\$ 1,834,416 64%	\$ 287,079 2%	\$ 59,596 24%	\$ 56,773 0%	\$ 273,477 9%	<b>\$ 2,511,340</b> <b>100%</b>		30



GUAM WATERWORKS AUTHORITY  
WATER DEMAND BY RATE CLASS  
FY2015 - FY2021

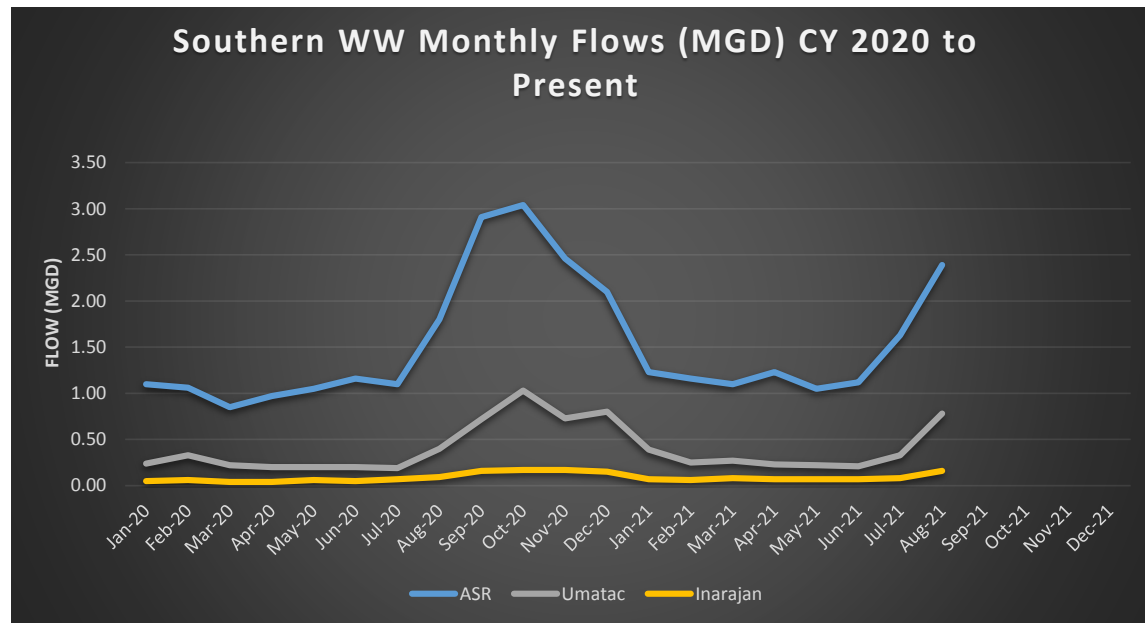
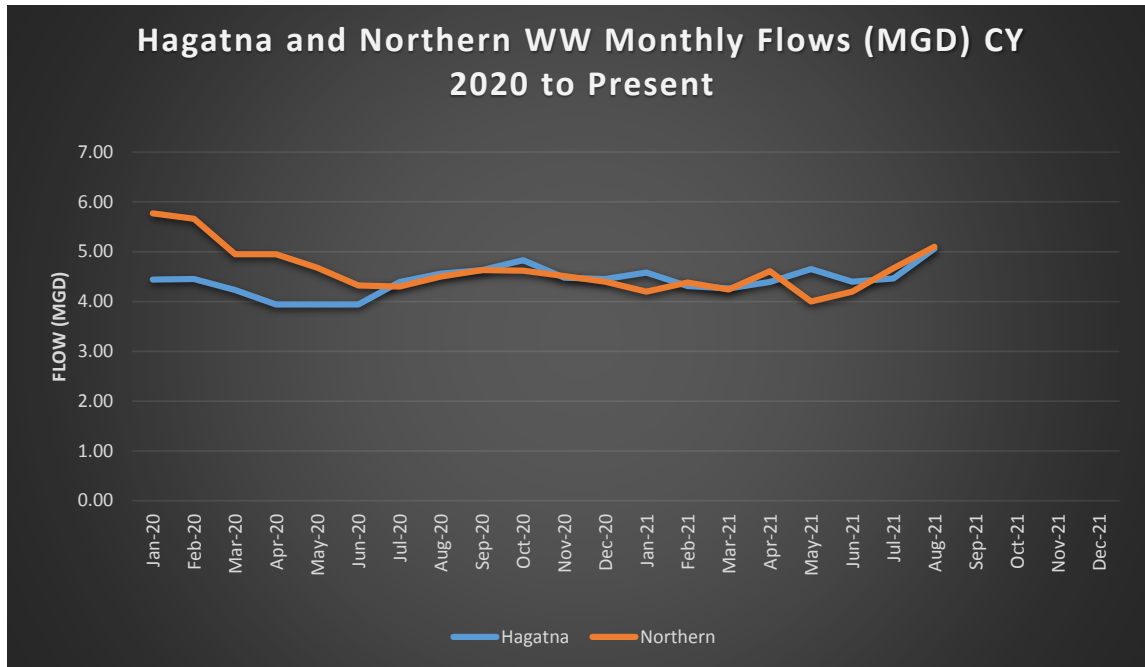
## SCHEDULE K

CLASS	AUDITED								UNAUDITED	
	FY2015 TOTAL CONSUMPTION (kGal)	FY2016 TOTAL CONSUMPTION (kGal)	FY2017 TOTAL CONSUMPTION (kGal)	FY2018 TOTAL CONSUMPTION (kGal)	FY2019 TOTAL CONSUMPTION (kGal)	% Inc / (Dec.)	FY2020 TOTAL CONSUMPTION (kGal)	% Inc / (Dec.)	FY2021 TOTAL CONSUMPTION (kGal)	% Inc / (Dec.)
R Residential	3,415,662	3,429,689	3,206,811	3,313,613	3,359,905	1%	3,712,723	11%	3,631,828	-2%
C Commercial	1,020,089	1,022,890	964,639	910,905	906,192	-1%	822,029	-9%	775,952	-6%
F Federal	1,168	1,180	2,508	1,813	1,602	-12%	1,338	-16%	1,874	40%
G Government	515,974	475,366	448,430	450,165	405,980	-10%	408,502	1%	395,228	-3%
H Hotel	999,116	1,008,087	1,004,525	989,723	1,079,919	9%	714,161	-34%	445,275	-38%
G Golf	6,850	6,770	5,252	2,741	2,793	2%	5,835	109%	2,650	-55%
A Agriculture	67,376	78,628	69,482	81,127	90,803	12%	84,492	-7%	73,197	-13%
I Irrigation	<u>10,385</u>	<u>11,351</u>	<u>10,143</u>	<u>8,504</u>	<u>7,896</u>	-7%	<u>8,654</u>	10%	<u>5,484</u>	-37%
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>	2%	<u>5,757,733</u>	-2%	<u>5,331,487</u>	-7%

**Wastewater Treatment Plant Average Monthly Flows Million Gallons Per Day**

2020	Hagatna	Northern	ASR	Umatac	Inarajan
Jan-20	4.44	5.77	1.10	0.24	0.05
Feb-20	4.45	5.66	1.06	0.33	0.06
Mar-20	4.23	4.95	0.85	0.22	0.04
Apr-20	3.94	4.95	0.97	0.20	0.04
May-20	3.94	4.68	1.05	0.20	0.06
Jun-20	3.94	4.32	1.16	0.20	0.05
Jul-20	4.39	4.30	1.10	0.19	0.07
Aug-20	4.56	4.50	1.80	0.40	0.09
Sep-20	4.63	4.63	2.91	0.72	0.16
Oct-20	4.83	4.62	3.04	1.03	0.17
Nov-20	4.48	4.51	2.46	0.73	0.17
Dec-20	4.45	4.40	2.10	0.80	0.15
<b>2020 Average MGD</b>	<b>4.36</b>	<b>4.77</b>	<b>1.63</b>	<b>0.44</b>	<b>0.09</b>
<b>2020 Total MGY</b>	<b>1,590</b>	<b>1,743</b>	<b>596</b>	<b>160</b>	<b>34</b>

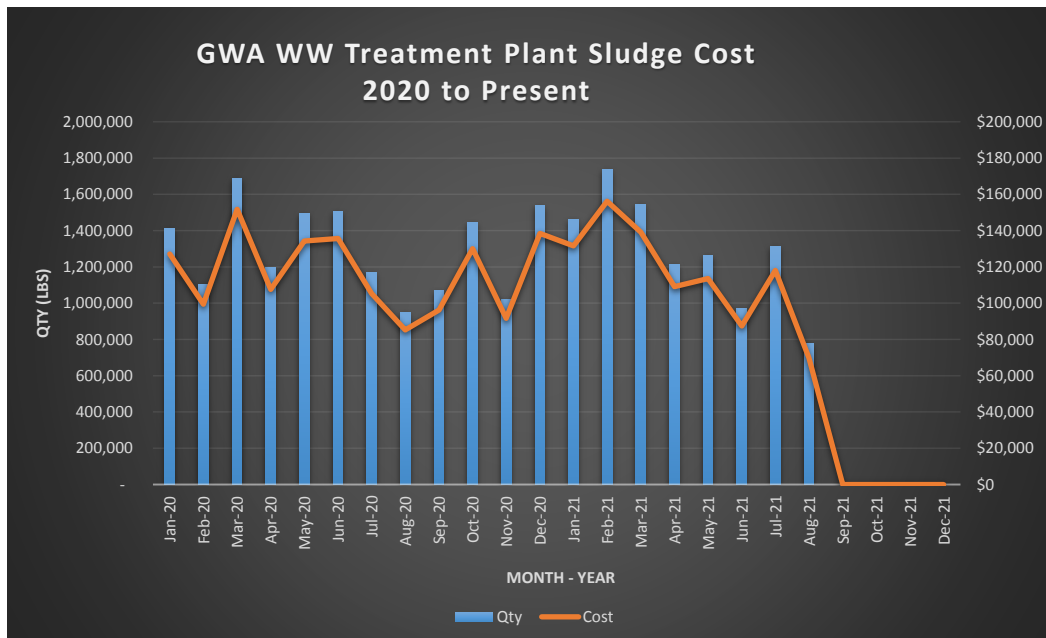
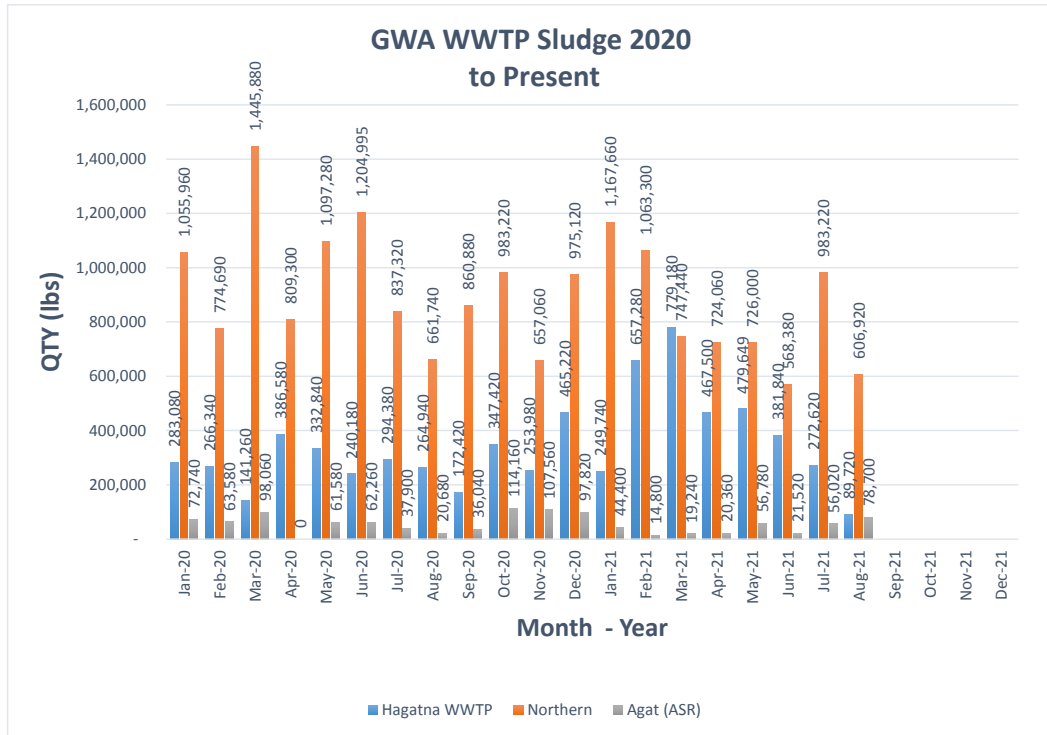
2021	Hagatna	Northern	ASR	Umatac	Inarajan
Jan-21	4.58	4.20	1.23	0.39	0.07
Feb-21	4.31	4.38	1.16	0.25	0.06
Mar-21	4.26	4.24	1.10	0.27	0.08
Apr-21	4.39	4.61	1.23	0.23	0.07
May-21	4.65	4.00	1.05	0.22	0.07
Jun-21	4.40	4.20	1.12	0.21	0.07
Jul-21	4.46	4.67	1.63	0.33	0.08
Aug-21	5.06	5.10	2.39	0.78	0.16
Sep-21					
Oct-21					
Nov-21					
Dec-21					
<b>2021 Average MGD</b>	<b>4.51</b>	<b>4.43</b>	<b>1.36</b>	<b>0.34</b>	<b>0.08</b>
<b>2021 Total MGY</b>	<b>1,648</b>	<b>1,615</b>	<b>498</b>	<b>122</b>	<b>30</b>



GWA Work Session - September 21, 2021 - DIVISION REPORTS

	Hagatna WWTP		Northern		Agat (ASR)		Hagatna + Northern + Agat	
2020	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
Month- Yr	lbs	\$	lbs	\$	lbs	\$	lbs	\$
Jan-20	283,080	\$25,477	1,055,960	\$95,036	72,740	\$6,547	1,411,780	\$127,060
Feb-20	266,340	\$23,971	774,690	\$69,722	63,580	\$5,722	1,104,610	\$99,415
Mar-20	141,260	\$12,713	1,445,880	\$130,129	98,060	\$8,825	1,685,200	\$151,668
Apr-20	386,580	\$34,792	809,300	\$72,837	0	\$0	1,195,880	\$107,629
May-20	332,840	\$29,956	1,097,280	\$98,755	61,580	\$5,542	1,491,700	\$134,253
Jun-20	240,180	\$21,616	1,204,995	\$108,450	62,260	\$5,603	1,507,435	\$135,669
Jul-20	294,380	\$26,494	837,320	\$75,359	37,900	\$3,411	1,169,600	\$105,264
Aug-20	264,940	\$23,845	661,740	\$59,557	20,680	\$1,861	947,360	\$85,262
Sep-20	172,420	\$15,518	860,880	\$77,479	36,040	\$3,244	1,069,340	\$96,241
Oct-20	347,420	\$31,268	983,220	\$88,490	114,160	\$10,274	1,444,800	\$130,032
Nov-20	253,980	\$22,858	657,060	\$59,135	107,560	\$9,680	1,018,600	\$91,674
Dec-20	465,220	\$41,870	975,120	\$87,761	97,820	\$8,804	1,538,160	\$138,434
<b>Grand Total</b>	<b>3,448,640</b>	<b>\$310,378</b>	<b>11,363,445</b>	<b>\$1,022,710</b>	<b>772,380</b>	<b>\$69,514</b>	<b>15,584,465</b>	<b>\$1,402,602</b>

	Hagatna WWTP		Northern		Agat (ASR)		Hagatna + Northern + Agat	
2021	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
Month- Yr	lbs	\$	lbs	\$	lbs	\$	lbs	\$
Jan-21	249,740	\$22,477	1,167,660	\$105,089	44,400	\$3,996	1,461,800	\$131,562
Feb-21	657,280	\$59,155	1,063,300	\$95,697	14,800	\$1,332	1,735,380	\$156,184
Mar-21	779,180	\$70,126	747,440	\$67,270	19,240	\$1,732	1,545,860	\$139,127
Apr-21	467,500	\$42,075	724,060	\$65,165	20,360	\$1,832	1,211,920	\$109,073
May-21	479,649	\$43,168	726,000	\$65,340	56,780	\$5,110	1,262,429	\$113,619
Jun-21	381,840	\$34,366	568,380	\$51,154	21,520	\$1,937	971,740	\$87,457
Jul-21	272,620	\$24,536	983,220	\$88,490	56,020	\$5,042	1,311,860	\$118,067
Aug-21	89,720	\$8,075	606,920	\$54,623	78,700	\$7,083	775,340	\$69,781
Sep-21		\$0		\$0		\$0	-	\$0
Oct-21		\$0		\$0		\$0	-	\$0
Nov-21		\$0		\$0		\$0	-	\$0
Dec-21		\$0		\$0		\$0	-	\$0
<b>Grand Total</b>	<b>3,377,529</b>	<b>\$303,978</b>	<b>6,586,980</b>	<b>\$592,828</b>	<b>311,820</b>	<b>\$28,064</b>	<b>10,276,329</b>	<b>\$924,870</b>





**Guam Waterworks Authority**  
**VEHICLE FLEET STATUS**  
**9/2/2021**

EQUIPMENT STATUS				
Description	Number of Equipment	Number of Equipment Available	Number of Equipment Not Available	Percentage
Backhoe (Leased)	3	3	0	100%
Dump Truck (Leased)	3	3	0	100%
Trailer (Leased)	3	3	0	100%
Backhoe	3	1	2	33%
Boom Truck	1	0	1	0%
Crane	1	1	0	100%
Dump Truck	1	1	0	100%
Forklift	5	3	2	60%
Fuel Tanker	1	1	0	100%
Heavy Duty	12	10	2	83%
Hoist Rig	1	1	0	100%
Jetter	1	1	0	100%
Light	143	114	29	80%
Mini Backhoe	4	2	2	50%
Pumper Truck	1	0	1	0%
Skidster	1	0	1	0%
Sludge Truck	5	3	2	60%
Tractor	2	2	0	100%
Tractor Mower	1	1	0	100%
Trailer	16	13	3	81%
Trencher	1	0	1	0%
Vacuum Truck	5	4	1	80%
Water Buffalo	2	2	0	100%
Water Tanker	6	4	2	67%
Compressor	1	1	0	100%
Total	223	174	49	

SUMMARY						
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
3	0	0	0	0	0	0
3	0	0	0	0	0	0
3	0	0	0	0	0	0
0	1	0	0	1	1	0
0	0	0	0	0	1	0
0	1	0	0	0	0	0
1	0	0	0	0	0	0
2	1	0	0	2	0	0
1	0	0	0	0	0	0
10	0	0	1	0	1	0
1	0	0	0	0	0	0
1	0	0	0	0	0	0
109	5	1	5	10	9	4
2	0	0	0	0	0	2
0	0	0	1	0	0	0
0	0	0	0	1	0	0
3	0	0	0	1	1	0
1	1	0	0	0	0	0
1	0	0	0	0	0	0
13	0	0	0	3	0	0
0	0	0	0	1	0	0
1	3	0	0	0	1	0
2	0	0	0	0	0	0
3	1	0	0	0	2	0
1	0	0	0	0	0	0
161	13	1	7	19	16	6

Guam Waterworks Authority		Date: 9/2/2021	 <b>WATER DISTRIBUTION FACILITIES REPORT</b>
		Time:	
<b>REVIEWS</b>			
TOTAL PUMPS INSTALLED	55	OVERALL AVERAGE	94%
TOTAL PUMPS OPERATIONAL	52	% OF OPERATING PUMPS	95%
TOTAL BOOSTER PUMP STATIONS	27		

Northern District													
NO:	FACILITY	PUMP HP	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	30	3	3	100%	OP	A						
2	Gavinerio	20	2	2	100%	OP	A						
3	Mataquac	25	2	2	100%	OP	A						
4	Santa Rosa	15	2	2	100%	OP	A						
5	Hyundai	40	2	1	50%	OP	A	1-29-21 work still ongoing with upgrading control wires. One pump placed on		Electrical wires being upgraded.			
6	Chin, Palauan	5	2	2	100%	N/A							
7	Access	60	2	2	100%	OP	A						
8	Apana Heights	30	3	3	100%		A						
9	Nimitz Hill	7.5	2	2	100%	N/A							
10	Adawaq	1.5	1	1	100%	N/A							
11	Pale Kiren	1	1	1	100%	N/A							
12	Ulloa/Untalan	1	2	2	100%	OP	A						
13	Late Heights	15	2	2	100%	OP	A						
TOTAL = 13			26	25	96%								
pump availability =no of operational pumps/no of pumps *100%													

Central District													
NO:	FACILITY	PUMP HP	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	2	67%	OP	A	Pump 3 shaft repaired. Pump 1 VFD showing ground fault.					
2	Brigade	60 / 20	3	3	100%	OP	A						
3	Windward Hills	200 / 75	3	2	67%	OP	A	Pump 1 & 2 in operation. Pump 3 pending mechanical seals and rebuild kit. 6-25-21.					
4	Santa Rita Spring	40	2	2	100%	OP	A						
5	Santa Ana (Lower)	25	1	1	100%	N/A		1-29-21 Renovation of station started. One pump remains in service during this period. 6-25-21 Renovation still ongoing.					
6	Camacho	1	1	1	100%	N/A							
7	Tenorio	1.5	1	1	100%	N/A							
Total=7			14	12	86%								
pump availability =no of operational pumps/no of pumps*100%													

Southern District													
NO:	FACILITY	PUMP HP	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	Maloloj Line	125 / 50	3	3	100%	OP	A	Only pump in operation due to station upgrades for Piqua tank bypass project					
2	Geus	25	1	1	100%	OP	A						
3	Piqua	7.5	2	2	100%	N/A							
4	Toquian	25	2	2	100%	OP	A						
5	WBP-2	25	2	2	100%	OP	A						
6	WBP-1	5	2	2	100%	OP	A						
7	Maloloj Elevated	15	3	3	100%	OP	A						
Total=7			15	15	100%								
pump availability =no of operational pumps/no of pumps*100%													

GWA Work Session - September 21, 2021 - DIVISION REPORTS

Guam Waterworks Authority			Date: 9/13/2021		<div></div> <div>WASTEWATER FACILITIES REPORT</div>									
REVIEWS														
TOTAL PUMPS INSTALLED	171	OVERALL AVERAGE		89%										
TOTAL PUMPS OPERATIONAL	152	% OF OPERATING PUMPS		89%										
TOTAL PUMP STATIONS	77													
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	3	75%	GPA	A	P#4: Needs Sensor @ Guam Motor		VFD#4: Awaiting Repairs		Pending new pumps which are part of the Northern Treatment		
2	FLUJITA	1	4	3	75%	GPA	A	P#2 was removed 10-29-20 due to bearings issues. Pump at vendor pending repairs.				vendor is pending order for mechanical seal.		
3	YPAO	1	2	2	100%	GPA	A							
4	PASEO DE ORO	1	2	1	50%	GPA	A	pump#1 removed and dropped to vendor for repairs due to defective mechanical seal as per electrician.	WO 1133294				PO500216	
5	HARMON	2	2	1	50%	GPA	A	pump #2 was removed and dropped to vendor for repairs due to burnt motor	WO 1111348				PO 500238	
6	ROUTE 16	1	4	3	75%	GPA	M	P#3 secured due to damaged wear plate and defective check valve.					OR 50082 check valve OR 50487 wear plate.	
7	LATTE DOUBLE TROUBLE	1	2	2	100%	GPA	A							
8	LATTE SUN RISE	2	2	2	100%	GPA	A							
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	HAFA ADAI	2	2	1	50%	GPA	A	P2 removed due to water in the pump.	WO 1133763				PO 500312	
14	YPAOPAO	1	3	2	67%	GPA	N/A	9-2-21, Pump #3 was removed due to pump was grounded.	WO 1228469				Pending OR	
15	PACIFIC LATTE	2	2	2	100%	GPA	A							
16	YIGO	1	3	3	100%	GPA	A	Pump #3 on standby. No data plate to confirm FLA.						
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	N/A							
20	FEMA 96	2	2	2	100%	GPA	A							
21	ASTUMBO 1	2	2	1	50%	GPA	A	Pump #2 was removed due to winding issues	WO 1222814				OR 50940 (pending PO)	
22	ASTUMBO 2	2	2	2	100%	GPA	A							
Total	22		52	44	85%									

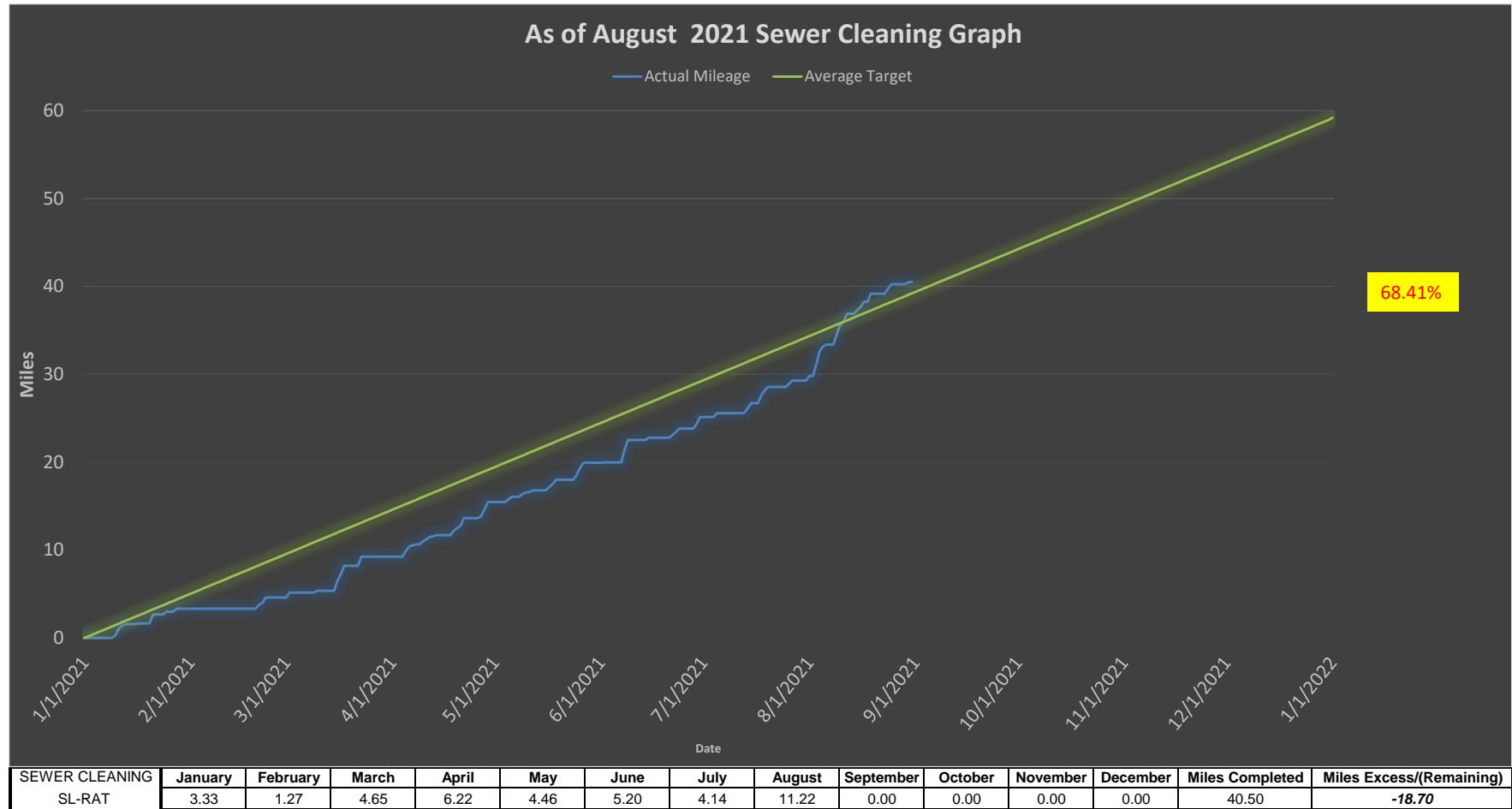


GWA Work Session - September 21, 2021 - DIVISION REPORTS

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	P# 3 pump works, Standby					
3	PITI	1	2	2	100%	GPA	A						
4	ASAN	1	2	2	100%	GPA	A						
5	SINAJANA	2	2	2	100%	GPA	A						
6	NEW CHAOT	1	3	3	100%	OP	A	Pump #3 was secured due low amperage. Scheduled for maintenance team. <i>Rags were found in impeller. Pump was placed back online.</i>					
7	ORDOT	2	2	2	100%	OP	A						
8	DERO	1	2	2	100%	OP	A						
9	CHALAN PAGO #5	2	2	2	100%	OP	A						
10	CHALAN PAGO #3	2	2	2	100%	OP	A						
11	FLORA GARDENS	2	2	2	100%	INOP	A						
12	DOUBLE SHAFT	1	3	2	67%	OP	A	Pump 2 removed due to impeller broke/Shaft worn				Bid was awarded to JMI. ETA date 4/1/22	
13	NAMU	2	1	1	100%	OP	A						
14	TAI MANGILAO	1	3	3	100%	GPA	A						
15	MANGILAO	1	2	2	100%	GPA	A			Sump pump burnt and the breaker is damaged			
16	FIDIAN	2	2	2	100%	GPA	A						
17	LEYANG	2	2	1	50%	OP	A	Pump #2 was removed due to seal failure.	WO 1103623				OR 50968 (pending PO)
18	SAGAN BONITA 1	2	2	2	100%	OP	A						
19	SAGAN BONITA 2	2	2	2	100%	OP	A						
20	DAIRY	1	2	2	100%	INOP	A						
21	BARRIGADA	1	2	2	100%	GPA	A	Pump #1 has bearing issue. Pump is still online until PO is released.					PO500339
22	TOTO GARDENS	2	2	2	100%	INOP	A						
23	MONGMONG	2	2	2	100%	OP	A						
24	CASIMERU	2	2	2	100%	Portable	A			GPA RELOCATED GENERATOR			
25	MAITE	2	2	1	50%	GPA	A	Compressor # 2 leaking removed by maint. Pending installation of new compressor.	WO 1233984				
26	BAYSIDE	2	1	1	100%	INOP	A						
27	ALUPANG	1	2	2	100%	OP	A						
28	MAMAJANAO	1	3	3	100%	OP	A						
29	Agana Main	1	4	3	75%	OP	A	P4 is on Line # 2 /awaiting line 4 riser to be cleaned					
<b>Total</b>	<b>29</b>		<b>63</b>	<b>59</b>	<b>94%</b>								

GWA Work Session - September 21, 2021 - DIVISION REPORTS

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	1	25%	OP	MAN	Pump#2 was removed and taken to vendor due to seal failure. Pump #4 was returned to vendor due to low megger and seal failure (pump is still under warranty). Pump #5 was removed and brought to vendor due to motor grounded.	#2- WO 1222521 #4 -WO 1133299 #5-WO 1222257	#2/#5 VFDs are defective due to burnt IGBT and power cards. Currently using VFD from ASRWWTP on #2.			P#4 (PO 500215) P#2 PO 500428 P#5 PO 500391 VFDs (OR 50790 pending OQ)
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			Pumps are alternated weekly			
5	PUMP STATION #15	1	2	2	100%	INOP	AUTO			Pump #1 defective hourly meter.	20-05-1208		Generator Secured By GPA 4/18/20 due to Oil Leak.
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	1	50%	OP	AUTO	pump #1 was removed due to cable issue. Pump also needs rewinding.	WO 1178582				OR 50782 pending OQ
10	INARAJAN LIFT	1	2	2	100%	OP	AUTO						
11	TALAFOFO	1	2	2	100%	OP	AUTO	1-17-20 Electricians determined that the sump pump is grounded and was recommended to be replaced. Entered work order into Lucy requesting maintenance to replace.	SUMP PUMP 20-01-0733	6-6-19 Exhaust blower for wet well is defective and needs replacement. Requested for electricians to relocate the existing blower unit at the old Agat treatment plant wet well and install it at Talofofo.		OQ 37914 & 37915 was submitted for replacement of blower fans and ventilation duct.	Sump pumps (OR 50370 pending OQ)
12	PAGACHAO	2	2	2	100%	NONE	NA						
13	CHALIGAN	2	2	2	100%	OP	MAN			Requesting for electricians to make assessments to ventilation system to make it operational.	(Vent- 19-12-0390)	12-23-19 Fred is working on getting a lift to be able to go to the roof top to make assessments on the motor.	Pending PO for lift for electricians to access roof top to inspect blower.
14	EJECTOR #2	2	2	2	100%	PORTABLE /INOP	NA						
15	EJECTOR #3	2	2	2	100%	PORTABLE /INOP	NA						
16	EJECTOR #4	2	2	2	100%	PORTABLE /INOP	NA						
17	EJECTOR #5	2	2	1	50%	PORTABLE/INOP	NA	11-13-20 Compressor #1 was removed and to be used at Ejector 7 for compressor #1. Compressor was installed but pending motor installation.					
18	EJECTOR #6	2	2	2	100%	PORTABLE/INOP	NA						
19	EJECTOR #7	2	2	2	100%	PORTABLE/INOP	NA						
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	Unit on #1 was removed and transported to vendor for repairs due to bearing issues.	WO 1227176				PO 500426
25	Windward Hills	1	3	2	67%	OP	AUTO	Pump #1 was secured due to check valve leaking. (Defective seat)					OR 50482 (Pending OQ)
26	Aplacho	1	3	3	100%	OP	AUTO						
	26		56	49	88%								



**5 miles a month required, 59.2 miles a year to complete for 2021 (296 miles to complete in 5 years)**

59.2 miles x 5 years = 296 miles

296 miles / 5yrs = 59.2 miles a year required to be completed

59.2 miles /12 months = 4.93 miles a month required to be completed

4.92 miles x 5,280 = 25,977.6ft. / 4 weeks = 6,494.4ft. Per week required to be completed

6,494.4ft / 5 days = 1,298.8ft required to be completed daily

