



CONSOLIDATED COMMISSION ON UTILITIES

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

GUAM WATERWORKS AUTHORITY WORK SESSION

*CCU Conference Room
4:30 p.m., Tues., Feb. 19, 2019*

AGENDA

1. ISSUES FOR DECISION

- 1.1 Relative to New Signatories That May Authorize Payments on Behalf of Guam Waterworks Authority/Resolution No. 13-FY2019
- 1.2 Relative to Authorization for the Guam Waterworks Authority to Reestablish Its Customer Refund Account with the Bank of Guam/Resolution No. 14-FY2019
- 1.3 Relative to the Adoption and Implementation of a Unified Holiday Personnel management Policy for the Guam Power Authority and the Guam Waterworks Authority/GWA Resolution No. 15-FY2019 and GPA Resolution No. 2019-04
- 1.4 Relative to Authorizing the Ratification of Expenditures for Security Services with G4S and for the Guam Waterworks Authority to Seek the Approval of the Public Utilities Commission to Ratify Cost Exceeding One Million Dollars/Resolution No. 16-FY2019
- 1.5 Relative to Amendment of the Assistant General Manager of Operations Classification Standards/Resolution No. 17-FY2019
- 1.6 Relative to Approval of Policy on Timing and Issuance of Back Bills/Resolution No. 18-FY2019
- 1.7 Relative to Approval of Funding Increase to the Baza Garden Conveyance and Pump Design/Resolution No. 19-FY2019

2. GM REPORT

- 2.1 GM Summary

3. ISSUES FOR DISCUSSION

4. DIVISION REPORTS

- 4.1 Communications
- 4.2 Compliance & Safety
- 4.3 Customer Service
- 4.4 Engineering
- 4.5 Finance
- 4.6 Operations

5. ANNOUNCEMENTS

- 5.1 Next CCU Meetings: GPA WS 2/21/19; CCU MEETING 2/26/19

6. ADJOURNMENT



GUAM WATERWORKS AUTHORITY

"Better Water, Better Lives."

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

Tel: (671) 300-6846

Issues for Decision

Resolution No. 13-FY2019

Relative to New Signatories that May Authorize Payments on Behalf of Guam Waterworks Authority

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

To update signatories based on recent changes in management.

Where is the location?

Various financial institutions including but not limited to the Bank of Guam, Bank of Hawaii, First Hawaiian Bank, Community First, Coast360, ANZ Guam, Bank Pacific, etc.

How much will it cost?

No cost.

When will it be completed?

Immediately upon adoption of this resolution.

What is the funding source?

N/A

The RFP/BID responses (if applicable):

N/A



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

GWA RESOLUTION NO. 13-FY2019

**RELATIVE TO NEW SIGNATORIES THAT MAY AUTHORIZE PAYMENTS ON
BEHALF OF GUAM WATERWORKS AUTHORITY**

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/or “Authority”); and

WHEREAS, the Guam Waterworks Authority is a Guam Public Corporation established and existing under the laws of Guam; and

WHEREAS, GWA maintains a variety of bank accounts, letter of credit facilities and other financial instruments and accounts at institutions including but not limited to the Bank of Guam, Bank of Hawaii, First Hawaiian Bank, Community First, Coast360, ANZ Guam, Bank Pacific, etc.; and

WHEREAS, GWA has designated certain employees to sign checks and financial instruments including, but not limited to, letters of credit as well as for the authorization of electronic transactions on behalf of the Authority; and

WHEREAS it has been determined that recent changes in management has necessitated an update of signatories for the GWA financial instruments; and

//

//

//

NOW BE IT THEREFORE RESOLVED, 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 following GWA personnel are authorized to sign financial instruments including checks, letters of credit, bank transfers and other transaction documents and to authorize other types of payments on behalf of GWA.

MIGUEL C. BORDALLO, P.E., General Manager
GILDA M. MAFNAS, Assistant Chief Financial Officer
SANDRA J. SANTOS, Controller
THOMAS F. CRUZ, P.E., Chief Engineer

3. Transaction amounts of \$10,000 or less will require a single signatory. All other transactions will require two signatories.
4. The Chairman and Secretary of the CCU are authorized to sign resolutions which are considered consistent with the authorizations granted in this resolution as may be required from time to time by specific financial institutions with which GWA conducts financial transactions.
5. All transactions must be in accordance with delegations of contracting authority approved by the CCU and the GWA General Manager.

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

DULY AND REGULARLY ADOPTED, this 26th day of February, 2019.

Certified by:

Attested by:

JOSEPH T. DUENAS
Chairperson

MICHAEL T. LIMTIACO
Secretary

//

//

//

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: _____

ABSTENTIONS: _____

ABSENT: _____

///

///

///

///

///

///

///



GUAM WATERWORKS AUTHORITY

"Better Water, Better Lives."

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

Tel: (671) 300-6846

Issues for Decision

Resolution No. 14-FY2019

Relative to the Authorization for the Guam Waterworks Authority to Close and Reestablish its Customer Refund Account with the Bank of Guam

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

To close and establish a new Customer Refund Account, as recommended by the bank, due to recent fraudulent activities detected in the account.

Where is the location?

Bank of Guam.

How much will it cost?

Incidental costs for ordering new checks.

When will it be completed?

Immediately upon adoption of this resolution.

What is the funding source?

N/A

The RFP/BID responses (if applicable):

N/A



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

GWA RESOLUTION NO. 14-FY2019

**RELATIVE TO THE AUTHORIZATION FOR THE GUAM WATERWORKS
AUTHORITY TO REESTABLISH ITS CUSTOMER REFUND ACCOUNT WITH THE
BANK OF GUAM.**

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 an existing bank account with the Bank of Guam for Customer Refunds; and

WHEREAS, the Bank of Guam fraud monitoring program detected suspicious third-party activity in the account and took swift and immediate action to prevent fraud by restricting the account and placing the account under close watch; and

WHEREAS, the Bank of Guam strongly recommends to close the existing account and reestablish a new account; and

WHEREAS, GWA has taken precautionary measures by closing the account and will take steps to reestablish a new account to protect the interest of its ratepayers.

NOW BE IT THEREFORE RESOLVED, 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 ratifies and approves Management's previous action taken to suspend the account activity for the protection of ratepayer funds.
3. The General Manager of GWA is authorized to reestablish the Customer Refund checking account with the Bank of Guam.

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

DULY AND REGULARLY ADOPTED, this 26th day of February, 2019.

Certified by:

Attested by:

JOSEPH T. DUENAS
Chairperson

MICHAEL T. LIMTIACO
Secretary

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: _____

ABSTENTIONS: _____

ABSENT: _____

///

///



GUAM WATERWORKS AUTHORITY

"Better Water, Better Lives."

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

Tel: (671) 300-6846

Issues for Decision

Resolution Nos. GPA 2019-04 & GWA 15-FY2019

Relative to Adoption and Implementation of a Unified Holiday Personnel Management Policy for the Guam Power Authority

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

The CCU has directed GPA and GWA ("GPWA") to review their existing policies regarding personnel management, wage obligations and official recognition of holidays set by statute and those set by executive order. GPWA management has determined that a unified policy for both utilities should be in place to set forth how the various holidays shall affect GPWA's management, employees and customers. The CCU has solicited comments from GPA & GWA General Managers, General Counsels and Assistant General Managers regarding the proposed UNIFIED HOLIDAY PERSONNEL MANAGEMENT POLICY. Management of GPA and GWA request the Consolidated Commission on Utilities to adopt the proposed UNIFIED HOLIDAY PERSONNEL MANAGEMENT POLICY.

GPWA's holidays shall follow the holiday schedule listed at 1 GCA §1000 (a) as it may be amended from time to time and shall be posted on each agency's website at the beginning of the calendar year. In the event a non-permanent holiday is declared by Executive Order of the Governor of Guam as allowed by 1 GCA §1000 (c), GPWA shall recognize said declaration and observe the holiday accordingly. Although GPWA will be observing the holiday, the policy of the utilities will be to provide customer service and GPWA's General Managers shall determine each agency's business needs for holidays declared by Executive Order, and ensure that employees and ratepayers are duly notified. GPWA Management is requesting the CCU to delegate to the General Managers the power to determine each agency's business needs on permanent and non-permanent Government of Guam holidays.

Where is the location?

Guam Power Authority and Guam Waterworks Authority

REFERENCE:

1 GCA §1000. HOLIDAYS

(a) The holidays of Guam are:

- (1) New Year's Day;
- (2) Martin Luther King, Jr. Day, the third Monday in January;
- (3) Guam History and Chamorro Heritage Day, the first Monday in March;
- (4) Memorial Day, the last Monday in May;
- (5) Independence Day, July 4th;
- (6) Liberation Day, July 21st;
- (7) Labor Day, the first Monday in September;
- (8) All Souls' Day, November 2;
- (9) Veterans' Day, November 11;
- (10) Thanksgiving, the fourth Thursday in November;
- (11) Our Lady of Camarin Day, December 8; and
- (12) Christmas, December 25th.

(b) Whenever a holiday listed in Subsection (a) of this Section falls on a Saturday or Sunday, the government of Guam shall follow the Federal government's practice for that holiday.

(c) In addition to the holidays specified in Subsection (a) of this Section, I Maga'lāhen Guåhan may declare by Executive Order additional non-permanent holidays for special purposes. No holiday declared by Executive Order shall be continued beyond the year in which the Executive Order is issued.



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

GPA RESOLUTION NO. 2019-04
GWA RESOLUTION NO. 15-FY2019

**ADOPTION AND IMPLEMENTATION OF A UNIFIED HOLIDAY PERSONNEL MANAGEMENT POLICY FOR
THE GUAM POWER AUTHORITY AND THE GUAM WATERWORKS AUTHORITY**

WHEREAS, the CCU has directed GPA and GWA ("GPWA") to review their existing policies regarding personnel management, wage obligations and official recognition of holidays set by statute and those set by executive order; and

WHEREAS, GPWA management has determined that a unified policy for both utilities should be in place to set forth how the various holidays shall affect GPWA's management, employees and customers; and

WHEREAS, the CCU has solicited comments from GPA & GWA General Managers, General Counsels and Assistant General Managers regarding the proposed UNIFIED HOLIDAY PERSONNEL MANAGEMENT POLICY; and

WHEREAS, management of GPA and GWA request the Consolidated Commission on Utilities to adopt the proposed UNIFIED HOLIDAY PERSONNEL MANAGEMENT POLICY.

NOW, THEREFORE, BE IT RESOLVED, by the CONSOLIDATED COMMISSION ON UTILITIES as follows:

(1) GPWA's holidays shall follow the holiday schedule listed at 1 GCA §1000 (a) as it may be amended from time to time and shall be posted on each agency's website at the beginning of the calendar year;

(2) In the event a non-permanent holiday is declared by Executive Order of the Governor of Guam as allowed by 1 GCA §1000 (c), GPWA shall recognize said declaration and observe the holiday accordingly;

(3) Although GPWA will be observing the holiday, the policy of the utilities will be to provide customer service and GPWA's General Managers shall determine each agency's business needs for holidays declared by Executive Order, and ensure that employees and ratepayers are duly notified;

(4) The CCU hereby delegates to the General Managers the power to determine each agency's business needs on permanent and non-permanent Government of Guam holidays.

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

DULY and REGULARLY ADOPTED AND APPROVED THIS 26th day of February, 2019.

Certified By:

Attested By:

Joseph T. Duenas
Chairperson
Consolidated Commission on Utilities

Michael T. Limtiaco
Secretary
Consolidated Commission on Utilities

SECRETARY'S CERTIFICATE

I, Michael T. Limtiaco, Board Secretary of the Consolidated Commission on Utilities (CCU), as evidenced by my signature above do hereby certify as follows:

The foregoing is a full, true and correct copy of a resolution duly adopted at a regular meeting of the members of 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: _____



GUAM WATERWORKS AUTHORITY

"Better Water, Better Lives."

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

Tel: (671) 300-6846

Issues for Decision

Resolution No. 16-FY2019

Relative to the Ratification for Security Services (IFB 2015-01) in Excess of the General Manager's Authority

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

There is an ongoing need to maintain the existing security services at several GWA facilities.

Where is the location?

GWA Upper Tumon Facility to include the main building and inside the customer service area, the laboratory, customer parking lot, warehouse and FMES areas.

How much will it cost?

\$15,356.09 (Ratification amount)

When will it be completed?

This contract ended on January 2019.

What is the funding source?

Revenue funded.

The RFP/BID responses (if applicable):

N/A.



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

RESOLUTION NO. 16 -FY2019

**RELATIVE TO AUTHORIZING THE RATIFICATION OF EXPENDITURES FOR
SECURITY SERVICES WITH G4S AND GWA TO SEEK THE APPROVAL
OF THE PUBLIC UTILITIES COMMISSION TO RATIFY COST EXCEEDING \$1
MILLION DOLLARS**

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

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

WHEREAS, the Consolidated Commission on Utilities under Section 5452 of Title 5 of the Guam Code Annotated has the authority to ratify the procurement of goods and services if there is no indication that the company who was awarded the procurement acted in bad faith and there is a finding that the procurement is for GWA’s use and is in the best interest of the Territory of Guam; and

WHEREAS, in April of 2015, GWA entered into a 4-year agreement with G4S Secure Solutions “G4S” as a result of a formal procurement titled GWA IFB 2015-01; and

WHEREAS, the second, third and fourth annual renewals on the agreement were exercised by GWA; and

WHEREAS, throughout the course of the last two renewal terms, additional security guards were needed due to the recent policy change to opening GWA customer service locations on Saturdays; and

1 **WHEREAS**, as a result of the additional security guards, payments made to the vendor
2 exceeded the General Manager's authority by approximately Seventy-Five Thousand Dollars
3 (\$75,000.00) (See Res. 37-FY2018 at Ex A); and

4
5 **WHEREAS**, GWA Management sought and received approval by the CCU in
6 Resolution 37-FY2018 for the ratification of the payments made to the vendor up to April 2018
7 and going forward up to the estimated total expended amount under \$1,000,000.00; and

8
9 **WHEREAS**, as of January 2019, the total amount of payments made to the vendor is
10 Nine Hundred Forty-Three Thousand Eight Hundred One Dollars and Sixty-Six Cents
11 (\$943,801.66), plus the total amount of Seventy-One Thousand Five Hundred Fifty-Four
12 Dollars and Forty-Three Cents (\$71,554.43) for pending invoices from October 2018 through
13 January 2019. This brings the total amount under IFB 2015-01 to One Million Fifteen
14 Thousand Three Hundred Fifty-Six Dollars and Nine Cents (\$1,015,356.09), which exceeds the
15 \$1M amount by Fifteen Thousand Three Hundred Fifty-Six Dollars and Nine Cents
16 (\$15,356.09) (See Exhibit A); and

17
18 **WHEREAS**, GWA Management is requesting approval from the CCU for ratification
19 of expenditures for security services in the amount of Fifteen Thousand Three Hundred Fifty-
20 Six Dollars and Nine Cents (\$15,356.09) and authorization to file a petition with the PUC to
21 approve the costs exceeding the \$1M Contract Review Protocol threshold.

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

25
26 **Section 1.** The foregoing recitals hereto are hereby ratified, confirmed, and
27 incorporated herein by reference.

28 **Section 2.** The Consolidated Commission on Utilities hereby ratifies spending under
29 the existing contract for the total amount of Fifteen Thousand Three Hundred Fifty-Six Dollars
30 and Nine Cents (\$15,356.09) for security services on the following grounds:

- 31 a. There was no indication of bad faith or fraud in any of the procurements
32 contained herein.

- b. According to GWA management, the services is required to ensure for the ongoing need to maintain the existing security services at several GWA facilities. The recitals set forth above hereby constitute the findings of the CCU.
- c. All of the procurements herein are in the best interest of the Territory of Guam and the Guam Waterworks Authority.
- d. Only a reasonable profit was given in those instances where the profit was given.

Section 3. This Resolution is hereby determined to be a declaration of official intent of the Consolidated Commission on Utilities

Section 4. All actions heretofore taken by the GWA or the officers thereof or on their behalf not inconsistent herewith related to these purchases are hereby ratified, approved and confirmed.

Section 5. Based on the foregoing, the CCU authorizes GWA management to pay the amount owed between GWA and Eurofin Eaton Analytical Inc. for the security services in the amount of Fifteen Thousand Three Hundred Fifty-Six Dollars and Nine Cents (\$15,356.09).

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

DULY AND REGULARLY ADOPTED, this 26th day of February, 2019.

Certified by:

Attested by:

JOSEPH T. DUENAS
Chairperson

MICHAEL T. LIMTIACO
Secretary

//

//

//

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: _____

ABSTENTIONS: _____

ABSENT: _____

///

///

///

///

///

///

///

Exhibit A



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

GWA RESOLUTION NO. 37-FY2018

**RELATIVE TO APPROVING EXPENDITURES FOR SECURITY SERVICES
CONTRACT IN EXCESS OF THE GENERAL MANAGER'S AUTHORITY**

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, in April of 2015, GWA entered into a 4-year agreement with G4S Secure Solutions "G4S" as a result of a formal procurement titled GWA IFB 2015-01; and

WHEREAS, the G4S agreement provided for an initial 1-year term with the second through fourth year renewable annually; and

WHEREAS, the second, third and fourth annual renewals on the agreement were exercised by GWA; and

WHEREAS, during the course of the last two renewal terms, additional security guards were needed due to the recent policy change to opening GWA customer service locations on Saturdays, and;

WHEREAS, as of the close of April invoicing this year, payments to the vendor exceeded the General Manager's authority by approximately Seventy-Five Thousand Dollars (\$75,000.00) (See EXHIBIT A), and;

1 **WHEREAS**, the expenditures anticipated under the current contract period will bring
2 the total amount expended to under \$1,000,000.00; and
3

4 **WHEREAS**, GWA procurement will initiate a new procurement for security services
5 in July of this year which will provide ample time to get a new services contract in place prior
6 to the expiration of the current contract.
7

8 **NOW BE IT THEREFORE RESOLVED**, the Consolidated Commission on Utilities
9 does hereby approve the following:
10

- 11 1. The recitals set forth above hereby constitute the findings of the CCU.
- 12 2. The CCU finds that payment for Security Services currently provided on
13 contract by G4S is reasonable, prudent and necessary (EXHIBIT A).
- 14 3. The payments to the vendor to date and going forward up to the amount of
15 \$1,000,000.00 are hereby ratified and approved.

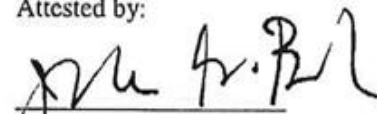
16
17 **RESOLVED**, that the Chairman certified and the Board Secretary attests to the
18 adoption of this Resolution.
19

20 **DULY AND REGULARLY ADOPTED**, this 5th day of June, 2018.
21

22 Certified by:

23 
24 _____
25 **JOSEPH T. DUENAS**
26 Chairperson

22 Attested by:

23 
24 _____
25 **J. GEORGE BAMBA**
26 Secretary

26 //

28 //

31 //

SECRETARY'S CERTIFICATE

I, J. George Bamba, 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:	<u>5</u>
NAYS:	<u>0</u>
ABSTENTIONS:	<u>0</u>
ABSENT:	<u>0</u>



///

///

///

///

///

///

///

Exhibit A

Guam Waterworks Authority**Summary of Security Service Expenditures (G4S Secure Solutions) on IFB 2015-01****Contract Period: March 01, 2015 - February 29, 2019****Report Period: March 01, 2015 - May 31, 2018**

FY	Dates	Purchase Order	Amount Expended
2015	03/01/15 - 09/30/15	298185	132,096.82
2016	10/01/15 - 09/30/16	298876	246,012.71
2017	10/01/16 - 09/30/17	300001 / 300638	281,354.44
2018	10/01/17 - 04/30/18	301466	165,816.03
			\$ 825,280.01



GUAM WATERWORKS AUTHORITY

"Better Water, Better Lives."

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

Tel: (671) 300-6846

ISSUES FOR DECISION

Resolution No. 17-FY2019

Relative to the Amendment of the Assistant General Manager of Operations (AGMO)
Classification Standards

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

To amend the Assistant General Manager of Operations job standards and salary range based on the 10th market percentile, 2017 market data; to facilitate the recruitment of the AGM position to support the Authority's daily operations of its Water and Wastewater Divisions, and construction and maintenance functions thereby providing effective and efficient delivery of safe drinking water and services to the community.

The CCU has mandated the recruitment of additional senior management support. The Authority currently employs one Assistant General Manager for Compliance & Safety and one Assistant General Manager – Administration & Support. The AGM of Operations position remains unfilled, while the operational divisions function remains under the supervision of the General Manager, affecting the efficiency and responsiveness of operations among Superintendents or Managers, who are addressing the water/wastewater needs of our community.

Where is the location?

The Assistant General Manager of Operations will be under the direct supervision and management of the General Manager while overseeing and ensuring optimal performance of our Water and Wastewater Divisions.

When will it be completed?

Public Law 34-131, §(e) as added and 4 GCA §6303 (d) & (2C), 5GCA, Chapter 10, Article 1 (Sunshine Law) requires GPA and GWA to post a petition on their websites for ten (10) days (not including Saturdays, Sundays and government of Guam holidays). After the 10 days posting, the petition can then be forwarded to the CCU for their disposition at any regularly scheduled meeting. GWA has met the posting requirements.

Additionally, Guam law requires notice of such posting to each newspaper of general circulation and broadcasting station, which airs regular news programs within Guam.

What is the funding source?

The position will be revenue funded.



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

RESOLUTION NO. 17-FY2019

**RELATIVE TO THE APPROVAL OF THE AMENDMENT OF THE
ASSISTANT GENERAL MANAGER – OPERATIONS (AGMO) (UNCLASSIFIED)
JOB CLASSIFICATION STANDARD**

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

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

WHEREAS, the GWA General Manager requests the CCU to approve the amendment of the Assistant General Manager – Operations (AGMO) (Exhibit A); and

WHEREAS, the GWA General Manager requests the CCU to approve the job classification standards of the Assistant General Manager – Operations (AGMO) position in the unclassified status; and

WHEREAS, Public Law 34-131, §(e) as added and 4 GCA §6303 (d) & (2C) authorizes the creation of positions in Autonomous Agencies and Public Corporations; and

WHEREAS, GWA Personnel Rules and Regulations as amended by Public Law 28-159 Section 3 (C) authorizes the CCU to amend, modify or add a position to the list of certified, technical and professional positions;

NOW BE IT THEREFORE RESOLVED, the Consolidated Commission on Utilities, as the Governing Body of the Guam Waterworks Authority, does hereby approve and authorize the following:

1. The recitals set forth above hereby constitute the findings of the CCU.
2. The amendment of the job classification standard for the Assistant General Manager – Operations (AGMO) position in the unclassified status is hereby approved and attached herein as Exhibit A.
3. The Assistant General Manager – Operations (AGMO) is hereby added to the certified, technical and professional list of positions at GWA.

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

DULY AND REGULARLY ADOPTED, this 26th day of February 2019.

Certified by:

Attested by:

JOSEPH T. DUENAS
Chairperson

MICHAEL T. LIMTIACO
Secretary

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: _____

ABSTENTIONS: _____

ABSENT: _____

///

ASSISTANT GENERAL MANAGER OF OPERATIONS (AGMO)
(Unclassified)

MINIMUM EXPERIENCE AND TRAINING:

- A) Master's Degree in Engineering, Business, Public Administration or other related field; with major course of work in utility infrastructure and operations, organization, analysis and evaluation, and financial management plus 6 years of demonstrated experience and progressive responsibility in the management of operations in utilities, construction or technically related field; or
- B) Bachelor's Degree in Engineering, Business, Public Administration or other related field; with major course of work in utility infrastructure and operations, organization, analysis and evaluation, and financial management plus 7 years of demonstrated experience and progressive responsibility in the management of operations in utilities, construction or technically related field.

PREFERRED SPECIAL QUALIFICATION:

- ◆ Professional Engineer (PE) License; or
- ◆ Possession of a valid Guam Environmental Protection Agency Operator Certification Level IV in Water Treatment, Water Distribution, Wastewater Collection, and Wastewater Treatment.

NECESSARY SPECIAL QUALIFICATIONS:

Experience in and knowledgeable of the water production, treatment and distribution facilities life cycles or wastewater collection and treatment facilities life cycles; cost analysis; asset management; regulatory compliance and permitting processes and experience in the system control and data acquisition (SCADA) systems and hydraulic modeling.

NATURE OF WORK IN THIS CLASS:

This is a complex work involving the planning, organizing and coordinating of all the Authority's production, distribution, collection, treatment, and operational control activities for the water and wastewater systems, including the preventive and corrective maintenance and repair of facilities to ensure systems meet high level compliance with water and wastewater standards.

The Assistant General Manager of Operations (AGMO) is responsible and accountable to the Guam Waterworks Authority's General Manager for the effective conduct of its operations to meet the established levels of service for all customers, in accordance with the Guam Safe Drinking Water Act and the Clean Water Act, associated regulations, and applicable permit requirements. The AGMO is also responsible and accountable for the managing and organizing efficient business operations in the divisions assigned. The AGMO shall also be responsible for assisting with the formulation of recommendations on policies, goals and objectives to, and implementation of plans, policies and procedures adopted by the CCU.

EXHIBIT A

Page 2

Assistant General Manager of Operations (AGMO)
(Unclassified)

The AGMO serves under the direction of the General Manager. AGMO directs and manages the development of short-term and long-term goals and objectives of GWA and ensures their effective execution; makes sure all assigned operations and functions are sustainable and effectively serve the needs of GWA's ratepayers, while complying with applicable laws and regulations; and performs related duties as assigned.

ILLUSTRATIVE EXAMPLES OF WORK: (These examples do not list all the duties which may be assigned; any one position may not include all the duties listed)

- The AGMO's primary responsibilities will be to manage, coordinate, and report on the six (6) operational divisions/functions of the water and wastewater systems: Water Production and Treatment; Water Distribution; Wastewater Collection; and Wastewater Treatment; Construction & Maintenance; and the W/WW System Control Center/Asset Management.
- The AGMO shall be responsible for the proper operation of the W/WW Systems Control Center (WSCC), using the appropriate staff of certified operators, technicians, trades professionals, along with hydraulic modelling and analytical tools, to effectively manage and integrate W/WW systems.
- The AGMO shall plan, organize, staff, and direct the operation of the Authority's water/wastewater systems, including the setting of operation objectives, standards, training of employees and evaluation of system operational performance.
- The AGMO shall assure compliance with the minimum Levels of Service (LOS) established by the Authority in the operation of the water and wastewater systems, and shall work with other Assistant General Managers, The Chief Financial Officer, Legal Counsel and under the direction of the General Manager, to achieve the utility wide LOS compliance at the lowest possible cost.
- The AGMO shall analyze systems operations and control performance, costs and effectiveness, and develops strategies and recommendations to increase efficiency, reliability, sustainability, compliance and security of water and wastewater services, while maintaining the lowest cost possible.
- The AGMO shall work with the General Manager in continuing, and advancing where feasible and desirable, the interoperation of and integration with military water and wastewater utility systems, in accordance with policy guidelines established by the CCU.
- The AGMO shall be responsible for the preparation of annual budget estimates for the operations divisions under his supervision.

EXHIBIT A

Page 3

Assistant General Manager of Operations (AGMO)

(Unclassified)

- The AGMO shall be responsible for the preparation of capital improvement project recommendations for each operational division under his authority; and shall, work with other Assistant General Managers, the Chief Financial Officer, Legal Counsel and under the direction of the General Manager, implement approved CIP's in accordance with Authority's approved Capital Improvements Program.
- The AGMO shall be responsible for the development and implementation of the Authority's Asset Management Program, and shall insure that all water and wastewater system assets are properly documented, maintained, repaired and otherwise managed, and that all cost elements are properly captured to provide meaningful cost reporting to support budgets, rate cases and financial decision-making for system operation and maintenance.
- The AGMO shall provide complete and timely reports on the operations of the water and wastewater systems to the General Manager and the CCU.
- The AGMO may be appointed to serve as Acting General Manager for the Authority from time to time.
- The AGMO shall perform such other duties assigned by the General Manager.

MINIMUM KNOWLEDGE, SKILLS AND ABILITIES:

- Knowledge of the principles and practices of water treatment and production, and wastewater treatment, as well as the regulations which govern them.
- Knowledge of the designs and operating characteristics of all facilities and equipment used for the processing and distribution of water, and the collection, treatment and disposal of wastewater.
- Knowledge of the computer-based hydraulic modelling for water/wastewater systems, as well as principles, practices and procedures for the supervisory control and data acquisition in the monitoring and operation of those systems.
- Knowledge of the principles and practices of asset management, including the use of computerized maintenance management systems.
- Knowledge of the standard methods, materials, practices and equipment used in the construction, operations, repair and maintenance of potable water and wastewater systems, including ancillary infrastructure, such as roadways, drainage and other improvements.

EXHIBIT A

Page 4

Assistant General Manager of Operations (AGMO)
(Unclassified)

- Knowledge of management techniques, principles and procedures to assign work, schedule, supervise, train, and evaluate the work of assigned staff.
- Ability to analyze and evaluate engineering, statistical and financial data, conduct and direct research and develop alternatives and recommendations.
- Ability to effectively communicate with management and subordinates to convey logic and rationale, ideas, objectives and consequences.
- Ability to establish and implement effective operational programs and procedures. Established priorities for the completion of work in accordance with sound time-management methodology.
- Ability to perform a broad range of managerial responsibilities over others.
- Ability to handle a variety of issues with tact and diplomacy and in a confidential manner.
- Ability to induce effective employee performance to maintain high level performance, training and safety.
- Ability to manage the water and wastewater systems repair and maintenance programs.
- Ability to understand, interpret and work from engineering drawings and technical specifications.
- Ability to recommend and implement changes in policies, procedures, materials and equipment to enhance program effectiveness.

ESTABLISHED: February 1997
AMENDED: January 2017
AMENDED: February 2019

JOB EVALUATION POINTS: 1514
PAYGRADE: MINIMUM: R3-D \$137,745.00 PER ANNUM
MAXIMUM: R4-D 4143,339.00 PER ANNUM

JOSEPH T. DUENAS, CHAIRMAN
CONSOLIDATED COMMISSION ON UTILITIES

EXHIBIT A



GUAM WATERWORKS AUTHORITY

"Better Water, Better Lives."

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

Tel: (671) 300-6846

ISSUES FOR DECISION

Resolution No. 18-FY2019

Relative to Establishing a Policy for Time Standards for Issuing Back Bills for Faulty Water Meters.

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

To clarify areas within GWA rules and regulations which are silent about timing and issuance of back bills, and to recommend policy based on recent discussions by Commission Members about this topic. GWA Management proposes the Commission adopt the recommended policy on acceptable timeframes for these activities. The proposed policy is based on the following activities required within the involved GWA divisions:

Customer Service (Water Meter Exchange)

- 1) Work order created.
- 2) Water meter replaced and sent to testing facility.
- 3) Work order information submitted to customer service for recording into customer billing system.
- 4) Work order and new water meter information entered and posted into customer billing system.
- 5) Notice of meter replacement is automatically generated and sent to customer.
- 6) Meter exchange process takes up to 10 working days or 2 weeks to complete.

Meter Test Facility

- 1) Water meter received from field team and tested.
- 2) Testing results transmitted to Customer Service.
- 3) Testing results entered and posted into Customer Billing system.
- 4) If testing indicates a faulty water meter, then notice is automatically generated and sent to customer's that a back-bill may be forthcoming.
- 5) Process takes up to 30 working days or 2.5 months to complete.

Finance (Issuing Back Bill)

For customers determined to have faulty water meters:

- 1) Print water meter exchange and testing documentation, review, calculate back-billing amount, submit to supervisor for sign off.
- 2) Notice to customer manually generated with billing adjustment details and sent to customer.
- 3) Billing adjustments are entered and posted into Customer Billing system.
- 4) Documents generated by finance scanned and shared with customer service to support future customer inquiries.
- 5) Process runs concurrently with water meter testing process and takes up to 70 working days or 3.5 months to complete.

Where is the location?

The time standards affect the following departments: Customer Service (water meter exchange task force), Meter Test Facility, IT and Finance. Each department is responsible to refine its processes to ensure time standards are met for issuing back bills.

When will it be completed?

Time standards will be effective upon adoption of the policy resolution.

What is the funding source?

No additional funding is required.



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

GWA RESOLUTION NO. 18-FY2019

**RELATIVE TO ESTABLISHING A POLICY ON TIME STANDARDS FOR ISSUING
BACK BILLS FOR FAULTY WATER METERS**

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, 12 GCA § 12128 allows for back billing of additional consumption due to faulty water meters or previous billing errors; and

WHEREAS, back bills are limited to four months, or four 30-day billing cycles immediately preceding confirmation of the faulty meter and charges are determined by using actual average daily consumption from the two month or 60-day period following the installation of properly functioning meter; and

WHEREAS, delayed back bill notifications lacking clear explanations and supporting calculations are creating confusion and dissatisfaction for Customers; and

WHEREAS, GWA is required to provide clear and convincing evidence to support back billing customers for consumption due to faulty meters; and

WHEREAS, good business practice requires timely issuance of clear and easy to understand back bills; and

1 **WHEREAS**, management of GWA request the Consolidated Commission on Utilities to
2 adopt the proposed **POLICY ON TIME STANDARDS FOR BACK BILLING FAULTY WATER**
3 **METERS**, including the Time Standard included as Attachment A.

4
5 **NOW BE IT THEREFORE RESOLVED**, the Consolidated Commission on Utilities
6 does hereby approve the following:

- 7 1. GWA shall send customer a letter indicating water meter has been replaced
8 within two weeks of meter exchange date.
- 9 2. For failed water meters, GWA shall send customer a letter indicating meter was
10 tested and account is under review for potential back billing within two and
11 one-half months of meter exchange date.
- 12 3. If a back bill is required, GWA shall issue the bill and send customer a letter
13 with easily understandable calculations explaining charges for prior period
14 water consumption within four months of the meter exchange date.

15
16 **RESOLVED**, that the Chairman certified and the Board Secretary attests to the adoption
17 of this Resolution.

18
19 **DULY AND REGULARLY ADOPTED**, this 26th day of February, 2019.

20
21 Certified by:

Attested by:

22
23 _____
24 **JOSEPH T. DUENAS**
25 Chairperson
26 Consolidated Commission on Utilities

27 _____
28 **MICHAEL T. LIMTIACO**
29 Secretary
30 Consolidated Commission on Utilities

31 //

32 //

//

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: _____

ABSTENTIONS: _____

ABSENT: _____

///

///

///

///

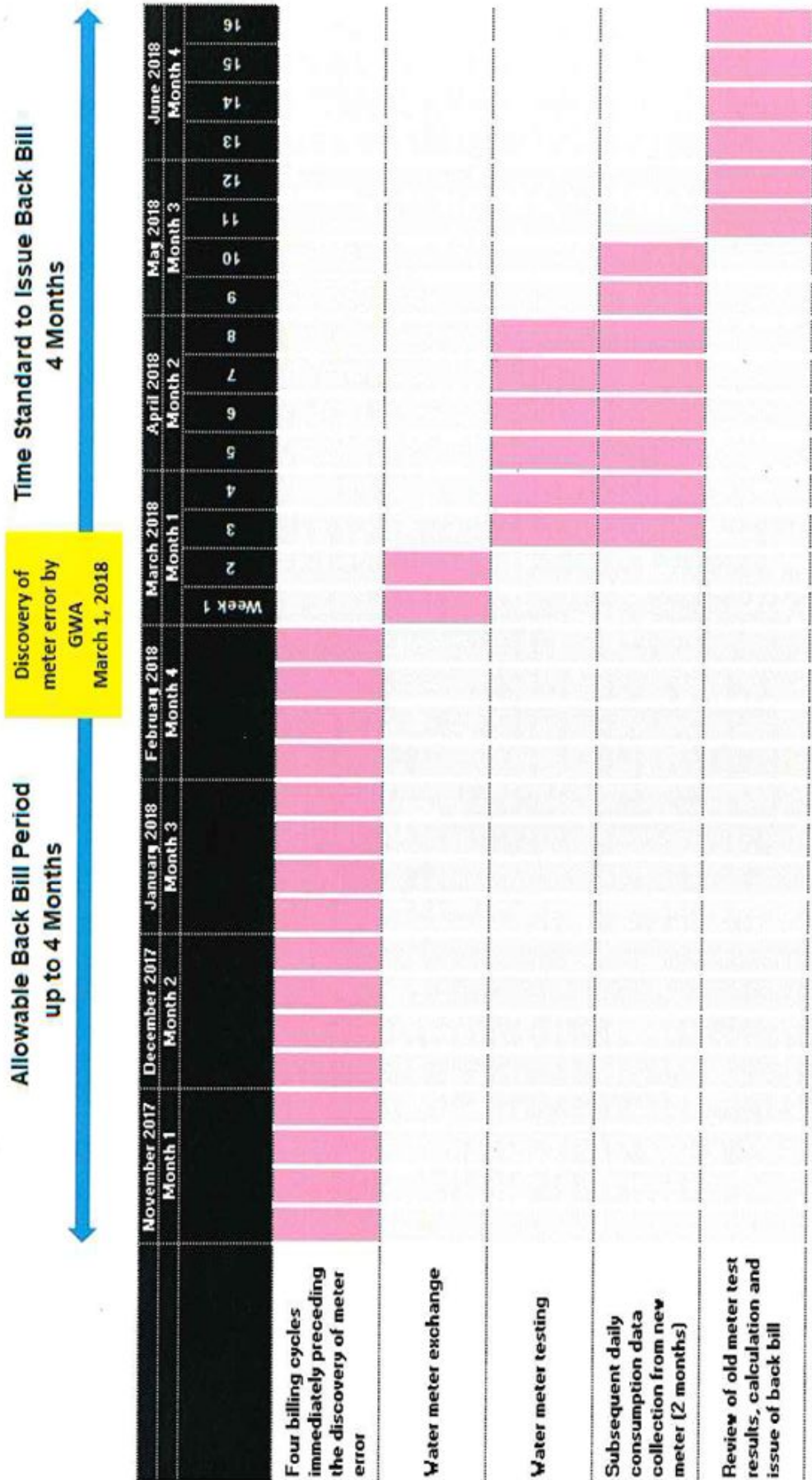
///

///

///

Exhibit A

Proposed Time Standard Back Billing for Water Meter Errors





GUAM WATERWORKS AUTHORITY

"Better Water, Better Lives."

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

Tel: (671) 300-6846

Issues for Decision

Resolution No. 19- FY2019

Relative to Approval of Funding Increase to the Baza Gardens Wastewater Cross-Island Pumping and Conveyance System Design Contract

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

During the course of the on-going Baza Gardens Wastewater Cross-Island Pumping and Conveyance System construction project, in which the construction completion period had been extended a couple of times, the need for additional design services during construction for responses to RFI's, as-built survey work of completed structures, archeological monitoring of excavations near Agat, and the re-design of the final surface grading at the Baza Gardens treatment plant site have emerged.

This authorization will fund the additional services as noted above and is necessary for the completion of the \$30M Baza Gardens Wastewater Cross-Island Pumping and Conveyance System construction projects.

Where is the location?

Former Baza Gardens WWTP, as well as along Routes 17 and 2A in Yona, Santa Rita and Agat.

How much will it cost?

The additional funding authorization per this resolution is One Hundred Thousand Dollars and Zero Cents (\$100,000.00) which will increase the total funding for design services to a maximum of Three Million Three Hundred Fifty-Eight Thousand Nine Hundred Four Dollars and Eighty Cents (\$3,358,914.80)

When will it be completed?

GWA estimated the overall project will be completed by April 2019.

What is the funding source?

Funding for the additional services will be from Bond Funds under the line items CIP WW 09-08 and WW 11-03, Internally Funded CIP fund or SDC, as applicable.

The RFP/BID responses (if applicable): N/A



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

GWA RESOLUTION NO. 19-FY2019

**RELATIVE TO APPROVAL OF FUNDING INCREASE TO THE BAZA GARDENS
WASTEWATER CROSS-ISLAND PUMPING AND CONVEYANCE SYSTEM DESIGN
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 currently has a number of critical Court Order (“CO”) projects including a complete evaluation of the Baza Gardens WWTP to determine what improvements are necessary at the plant to achieve compliance with the WWTP’s NDPES permit, as stated in Paragraph 13 of the 2011 Court Order; and

WHEREAS, GWA advertised for design services via RFP-13-ENG-2015 for an engineering firm to design the Baza Gardens Wastewater Cross-Island Pumping and Conveyance System; and

WHEREAS, the CCU approved via resolution 06-FY2016 that GWA enter into a contract with the most qualified design firm for an amount not to exceed Three Million Dollars (\$3,000,000); and

WHEREAS, GWA subsequently executed a contract on February 5, 2016, for design services with the most qualified firm, Duenas Camacho and Associates (DCA), in the amount of Two Million Nine Hundred Ninety-Seven Thousand Eight Hundred Seventy-Five Dollars and Five Cents (\$2,997,875.05); and

1
2 **WHEREAS**, the CCU approved additional design services for a waterline,
3 communications conduits, and private property acquisitions via Resolution 45-FY2016 in the
4 amount of One Hundred Forty-Nine Thousand Eight Hundred Ninety-Three Dollars and
5 Seventy-Five Cents (\$149,893.75), to bring the total funding to Three Million Two Hundred
6 Fifty-Eight Thousand Nine Hundred Fourteen Dollars and Eighty Cents (\$3,258,914.80); and

7
8 **WHEREAS**, during the course of the currently on-going Baza Gardens Wastewater
9 Cross-Island Pumping and Conveyance System construction project, for which the construction
10 completion period has been extended, the need for additional design services during construction
11 have arisen, specifically for responses to RFI's, as-built survey work of completed structures,
12 archeological monitoring of excavations near Agat, and the re-design of the final surface grading
13 at the Baza Gardens treatment plant site; and

14
15 **WHEREAS**, the additional work noted above has been a discussion point between GWA
16 and DCA through the course of the construction period when the issue arose, however GWA
17 only recently negotiated with DCA a fee proposal (Exhibit A) to perform these additional
18 services in the amount of Sixty-Eight Thousand Fourteen Dollars and Sixty-Eight Cents
19 (\$68,014.68), which GWA considers reasonable; and

20
21 **WHEREAS**, GWA seeks CCU approval of a funding increase authorization in the
22 amount not to exceed One Hundred Thousand Dollars and Zero Cents (\$100,000.00) to fund the
23 work noted above as well as any unforeseen design requirements GWA Management may deem
24 necessary; and

25
26 **WHEREAS**, the approval of the funding increase will bring the total authorized funding
27 for the design services to be a maximum of Three Million Three Hundred Fifty-Eight Thousand
28 Nine Hundred Four Dollars and Eighty Cents (\$3,358,914.80); and

29
30 **WHEREAS**, funding for these additional services will be from Bond Funds under the
31 line items CIP WW 09-08 and WW 11-03, Internally Funded CIP fund or SDC, as applicable;
32 and

NOW BE IT THEREFORE RESOLVED, 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 finds that the terms of the conditions set by GWA relative to commencement of work activities are fair and reasonable and serve as a measure of Quality Assurance/Quality Control (QA/QC).
3. The CCU hereby authorizes GWA to execute a Change Order with DCA in the amount of Sixty-Eight Thousand Three Hundred Ninety Dollars (\$68,390.00, Exhibit A).
4. The CCU hereby further authorizes the total funding amount for this project to a maximum of Three Million Three Hundred Fifty-Eight Thousand Nine Hundred Four Dollars and Eighty Cents (\$3,358,914.80), which is the sum of the authorization amount not to exceed One Hundred Thousand Dollars and Zero Cents (\$100,000.00) and prior authorization (45-FY2016) of Three Million Two Hundred Fifty-Eight Thousand Nine Hundred Fourteen Dollars and Eighty Cents (\$3,258,914.80);
5. The CCU hereby further authorizes the funding to be from Bond Funds under the line items CIP WW 09-08 and WW 11-03, Internally Funded CIP fund or SDC, as applicable.

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

DULY AND REGULARLY ADOPTED, this 26th day of February, 2019.

Certified by:

Attested by:

JOSEPH T. DUENAS
Chairperson

MICHAEL T. LIMTIACO
Secretary

SECRETARY'S CERTIFICATE

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32

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: _____

ABSTENTIONS: _____

ABSENT: _____

///

///

///



Website: www.dcaguam.com
Email: dca@dcaguam.com

EXHIBIT "A"

February 15, 2019

Attn: John Davis, PE

Ref: **Baza Gardens Wastewater Cross-Island Pumping and Conveyance System. GWA project number: S05-008-BND**

Subject: **Design Change Order 4. As-built survey, Archeological Monitoring and Baza Gardens Grading Revision**

Hafa Adai,

The following letter provides the fee the services as outlined below.

As-built Survey

At GWA's request, the DCA survey crew has performed an as-built survey of the newly installed gravity sewer-lines along the entire project length. A break down of this survey effort is provide in the attached fee breakdown.

Archeological Survey Services.

Archeological monitoring is required as part of the project construction permit. DCA has provided this monitoring through our sub-contractor SEARCH. Extended monitoring was required along the Route 2A portion of the project site. A copy of SEARCH's invoice and hourly breakdown is attached to this request. A copy of correspondence from SEACH indicating this this is the final request needed to close out the required archeological monitoring services is also attached to this request.

Baza Gardens Revised Grading Plan

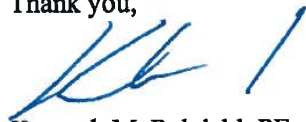
The second EQ tank at the Baza Gardens Site has been removed from the project. A revision to the final grade is needed to accommodate this revision. A breakdown of DCA's effort to provide a revised final grading plan is attached to this request.

February 15, 2019

The following is our proposed revised fee for the services listed above:

CO #4	
SEARCH Monitoring and Post monitoring Plan	\$47,752.00
DCA asbuilt Survey	\$13,638.00
Revised Baza Phase III Grading Plan	\$3,902.00
GRT	\$2,722.68
Total	\$68,014.68

Thank you,



Kenneth M. Rekdahl, PE
Vice- President and Project Manager
Duenas, Camacho & Associates
671-477-7991

Att
DCA spreadsheet /SEARCH Invoice

45

**BILL TO:**

Duenas, Camacho & Associates, Inc.
238 E. Marine Corps Drive
Suite 201 Diamond Plaza
Hagatna, Guam 96910

via email: kmrekdahl@dcaguam.com

REMIT TO:

Southeastern Archaeological Research, Inc.
315 NW 138th Terrace
Newberry, FL 32669
(352) 333-0049
TIN 59-3215370

Invoice Date: 11/19/18
Invoice Number: 3865-05

SEARCH Project No.: 3865-17009P
Terms: Net 14 Days

Period of Performance: 11/25/17 - 11/6/2018

**Providing Professional Archaeological Monitoring Services in Conjunction with
GWA Basa Gardens Wastewater Cross-Island Conveyance System
Guam**

<u>Contract Base Fee</u>	<u>Contract Value</u>	<u>Percent Complete</u>	<u>Fee Earned</u>	<u>Prior Billing</u>	<u>Current Fee</u>
Project Award	\$5,977.50	100%	\$5,977.50	\$5,977.50	\$0.00
Draft Final Report Submittal	\$5,977.50	0%	\$0.00	\$0.00	\$0.00
	<u>\$11,955.00</u>		<u>\$5,977.50</u>	<u>\$5,977.50</u>	
Total Base Fee:					\$0.00

<u>Archaeological Monitoring</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Archaeological Monitoring	334.2	\$125.00	\$41,775.00

Total Archaeological Monitoring: **\$41,775.00**

TOTAL AMOUNT BILLED THIS INVOICE: \$41,775.00

TOTAL AMOUNT DUE: \$41,775.00

Thank you. We appreciate your business.



BILL TO:
 Duenas, Camacho & Associates, Inc.
 238 E. Marine Corps Drive
 Suite 201 Diamond Plaza
 Hagatna, Guam 96910

REMIT TO:
 Southeastern Archaeological Research, Inc.
 3117 Edgewater Drive
 Orlando, FL 32804
 (407) 236-7711
 TIN 59-3215370

via email: kmrekdahl@dcaguam.com

Invoice Date: 02/13/19
 Invoice Number: 3865-06

SEARCH Project No.: 3865-17009P
 Terms: Net 14 Days

Period of Performance: 11/7/18-02/12/19

**Providing Professional Archaeological Monitoring Services in Conjunction with
 GWA Basa Gardens Wastewater Cross-Island Conveyance System
 Guam**

<u>Contract Base Fee</u>	<u>Contract Value</u>	<u>Percent Complete</u>	<u>Fee Earned</u>	<u>Prior Billing</u>	<u>Current Fee</u>
Project Award	\$5,977.50	100%	\$5,977.50	\$5,977.50	\$0.00
Draft Final Report Submittal	\$5,977.50	100%	\$5,977.50	\$0.00	\$5,977.50
	\$11,955.00		\$11,955.00	\$5,977.50	
Total Base Fee:					\$5,977.50

<u>Archaeological Monitoring</u>	<u>Hours</u>	<u>Rate</u>	<u>Cumulative</u>
Archaeological Monitoring	334.2	\$125.00	\$41,775.00

Total Archaeological Monitoring: **\$0.00**

TOTAL AMOUNT BILLED THIS INVOICE: **\$5,977.50**

TOTAL AMOUNT DUE: **\$5,977.50**

Thank you. We appreciate your business.



Presentation To:

Consolidated Commission
on Utilities

February 19, 2019



Issues for Resolution

GWA Signatories for Financial Transactions

Relative to New Signatories That May Authorize Payments on Behalf of Guam Waterworks Authority

GWA Resolution No. 13-FY2019

What are the project's objectives of the proposed changes and are they necessary and urgent?

- To update signatories based on recent changes in management.

Where is the location?

- Various financial institutions including but not limited to the Bank of Guam, Bank of Hawaii, First Hawaiian Bank, Community First, Coast360, ANZ Guam, Bank Pacific, etc.

How much will it cost?

- No cost.

When will it be completed?

- Immediately upon adoption of this resolution.

Re-Establishment of Customer Refund Account

Relative to the Authorization for the Guam Waterworks Authority to Close and Reestablish its Customer Refund Account with the Bank of Guam

GWA Resolution No. 14-FY2019

What are the project's objectives of the proposed changes and are they necessary and urgent?

- To close and establish a new Customer Refund Account, as recommended by the bank, due to recent fraudulent activities detected in the account.

Where is the location?

- Bank of Guam

How much will it cost?

- Incidental costs for ordering new checks.

When will it be completed?

- Immediately upon adoption of this resolution.

GPWA Holiday Personnel Management Policy

Relative to Adoption and Implementation of a Unified Holiday Personnel Management Policy for the Guam Power Authority

Resolution No. 15-FY2019

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

- The CCU has directed GPA and GWA ("GPWA") to review their existing policies regarding personnel management, wage obligations and official recognition of holidays set by statute and those set by executive order. GPWA management has determined that a unified policy for both utilities should be in place to set forth how the various holidays shall affect GPWA's management, employees and customers. The CCU has solicited comments from GPA & GWA General Managers, General Counsels and Assistant General Managers regarding the proposed UNIFIED HOLIDAY PERSONNEL MANAGEMENT POLICY. Management of GPA and GWA request the Consolidated Commission on Utilities to adopt the proposed UNIFIED HOLIDAY PERSONNEL MANAGEMENT POLICY.
- GPWA's holidays shall follow the holiday schedule listed at 1 GCA §1000 (a) as it may be amended from time to time and shall be posted on each agency's website at the beginning of the calendar year. In the event a non-permanent holiday is declared by Executive Order of the Governor of Guam as allowed by 1 GCA §1000 (c), GPWA shall recognize said declaration and observe the holiday accordingly. Although GPWA will be observing the holiday, the policy of the utilities will be to provide customer service and GPWA's General Managers shall determine each agency's business needs for holidays declared by Executive Order, and ensure that employees and ratepayers are duly notified. GPWA Management is requesting the CCU to delegate to the General Managers the power to determine each agency's business needs on permanent and non-permanent Government of Guam holidays.

(continued on next page)

GPWA Holiday Personnel Management Policy (cont'd)

Relative to Adoption and Implementation of a Unified Holiday Personnel Management Policy for the Guam Power Authority and Guam Waterworks Authority

Resolution No. 15-FY2019

Where is the location?

- Guam Power Authority and Guam Waterworks Authority.

REFERENCE:

1 GCA §1000. HOLIDAYS

(a) The holidays of Guam are:

- (1) New Year's Day;
- (2) Martin Luther King, Jr. Day, the third Monday in January;
- (3) Guam History and Chamorro Heritage Day, the first Monday in March;
- (4) Memorial Day, the last Monday in May;
- (5) Independence Day, July 4th;
- (6) Liberation Day, July 21st;
- (7) Labor Day, the first Monday in September;
- (8) All Souls' Day, November 2;
- (9) Veterans' Day, November 11;
- (10) Thanksgiving, the fourth Thursday in November;
- (11) Our Lady of Camarin Day, December 8; and
- (12) Christmas, December 25th.

(b) Whenever a holiday listed in Subsection (a) of this Section falls on a Saturday or Sunday, the government of Guam shall follow the Federal government's practice for that holiday.

(c) In addition to the holidays specified in Subsection (a) of this Section, I Maga'lahaen Guåhan may declare by Executive Order additional non-permanent holidays for special purposes. No holiday declared by Executive Order shall be continued beyond the year in which the Executive Order is issued.

Ratification of Security Services

Relative to Ratification for Security Services (IFB 2015-01) in Excess of the General Manager's Authority

Resolution No. 16-FY2019

What are the project's objectives of the proposed changes and are they necessary and urgent?

- There is an ongoing need to maintain the existing security services at several GWA facilities.

Where is the location?

- GWA Upper Tumon Facility to include the main building and inside the customer service area, the laboratory, customer parking lot, warehouse, and FMES area.

How much will it cost?

- Fifteen Thousand Three Hundred Fifty-Six Dollars and Nine Cents (\$15,356.09) (Ratification amount).

When will it be completed?

- This contract ended on January 2019.

What is the funding source?

- Revenue funded.

Job Standard - Assistant General Manager of Operations

Relative to the Amendment of the Assistant General Manager of Operations (AGMO)

Classification Standards

Resolution No. 17-FY2019

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

- To amend the Assistant General Manager of Operations job standards and salary range based on the 10th market percentile, 2017 market data; to facilitate the recruitment of the AGM position to support the Authority's daily operations of its Water and Wastewater Divisions, and construction and maintenance functions thereby providing effective and efficient delivery of safe drinking water and services to the community.
- The CCU has mandated the recruitment of additional senior management support. The Authority currently employs one Assistant General Manager for Compliance & Safety and one Assistant General Manager – Administration & Support. The AGM of Operations position remains unfilled, while the operational divisions function remains under the supervision of the General Manager, affecting the efficiency and responsiveness of operations among Superintendents or Managers, who are addressing the water/wastewater needs of our community.

Where is the location?

- The Assistant General Manager of Operations will be under the direct supervision and management of the General Manager while overseeing and ensuring optimal performance of our Water and Wastewater Divisions.

(continued on next page)

Job Standard - Assistant General Manager of Operations (cont'd)

Relative to the Amendment of the Assistant General Manager of Operations (AGMO) **Classifications Standards**

Resolution No. 17-FY2019

When will it be completed?

- Public Law 34-131, §(e) as added and 4 GCA §6303 (d) & (2C), 5GCA, Chapter 10, Article 1 (Sunshine Law) requires GPA and GWA to post a petition on their websites for ten (10) days (not including Saturdays, Sundays and government of Guam holidays). After the 10 days posting, the petition can then be forwarded to the CCU for their disposition at any regularly scheduled meeting. GWA has met the posting requirements.
- Additionally, Guam law requires notice of such posting to each newspaper of general circulation and broadcasting station, which airs regular news programs within Guam.

What is the funding source?

- The position will be revenue funded.

Policy on Time Standard for Issuance of Back Bills

Relative to Establishing a Policy for Time Standards for Issuing Back Bills for Faulty Water Meters

Resolution No. 18-FY2019

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

- To clarify areas within GWA rules and regulations which are silent about timing and issuance of back bills, and to recommend policy based on recent discussions by Commission Members about this topic. GWA Management proposes the Commission adopt the recommended policy on acceptable timeframes for these activities. The proposed policy is based on the following activities required within the involved GWA divisions:
- **Customer Service (Water Meter Exchange)**
 1. Work order created.
 2. Water meter replaced and sent to testing facility.
 3. Work order information submitted to customer service for recording into customer billing system.
 4. Work order and new water meter information entered and posted into customer billing system.
 5. Notice of meter replacement is automatically generated and sent to customer.
 6. Meter exchange process takes up to 10 working days or 2 weeks to complete.
- **Meter Test Facility**
 1. Water meter received from field team and tested.
 2. Testing results transmitted to Customer Service.
 3. Testing results entered and posted into Customer Billing system.
 4. If testing indicates a faulty water meter, then notice is automatically generated and sent to customer's that a back-bill may be forthcoming.
 5. Process takes up to 30 working days or 2.5 months to complete.

(continued on next page)

Policy on Time Standard for Issuance of Back Bills (cont'd)

Relative to Establishing a Policy for Time Standards for Issuing Back Bills for Faulty Water Meters

Resolution No. 18-FY2019

- **Finance (Issuing Back Bill)**

1. For customers determined to have faulty water meters:
2. Print water meter exchange and testing documentation, review, calculate back-billing amount, submit to supervisor for sign off.
3. Notice to customer manually generated with billing adjustment details and sent to customer.
4. Billing adjustments are entered and posted into Customer Billing system.
5. Documents generated by finance scanned and shared with customer service to support future customer inquiries.
6. Process runs concurrently with water meter testing process and takes up to 70 working days or 3.5 months to complete.

Where is the location?

- The time standards affect the following departments: Customer Service (water meter exchange task force), Meter Test Facility, IT and Finance. Each department is responsible to refine its processes to ensure time standards are met for issuing back bills.

When will it be completed?

- Time Standards will be effective upon adoption of the policy resolution

What is the funding source?

- No additional funding is required

Baza Gardens Wastewater Cross-Island Pumping/Conveyance Design

Relative to Approval of Funding Increase to the Baza Gardens Wastewater Cross-Island Pumping and Conveyance System Design Contract

Resolution No. 19-FY2019

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

- During the course of the on-going Baza Gardens Wastewater Cross-Island Pumping and Conveyance System construction project, in which the construction completion period had been extended a couple of times, the need for additional design services during construction for responses to RFI's, as-built survey work of completed structures, archeological monitoring of excavations near Agat, and the re-design of the final surface grading at the Baza Gardens treatment plant site have emerged.
- This authorization will fund the additional services as noted above and is necessary for the completion of the \$30M Baza Gardens Wastewater Cross-Island Pumping and Conveyance System construction projects.

Where is the location?

Former Baza Gardens WWTP, as well as along Routes 17 and 2A in Yona, Santa Rita and Agat.

How much will it cost?

The additional funding authorization per this resolution is One Hundred Thousand Dollars and Zero Cents (\$100,000.00) which will increase the total funding for design services to a maximum of Three Million Three Hundred Fifty-Eight Thousand Nine Hundred Four Dollars and Eighty Cents (\$3,358,914.80).

When will it be completed?

GWA estimated the overall project will be completed by April 2019.

What is the funding source?

Funding for the additional services will be from Bond Funds under the line items CIP WW 09-08 and WW 11-03, Internally Funded CIP fund or SDC, as applicable



Management Report January 19, 2019 GWA Work Session



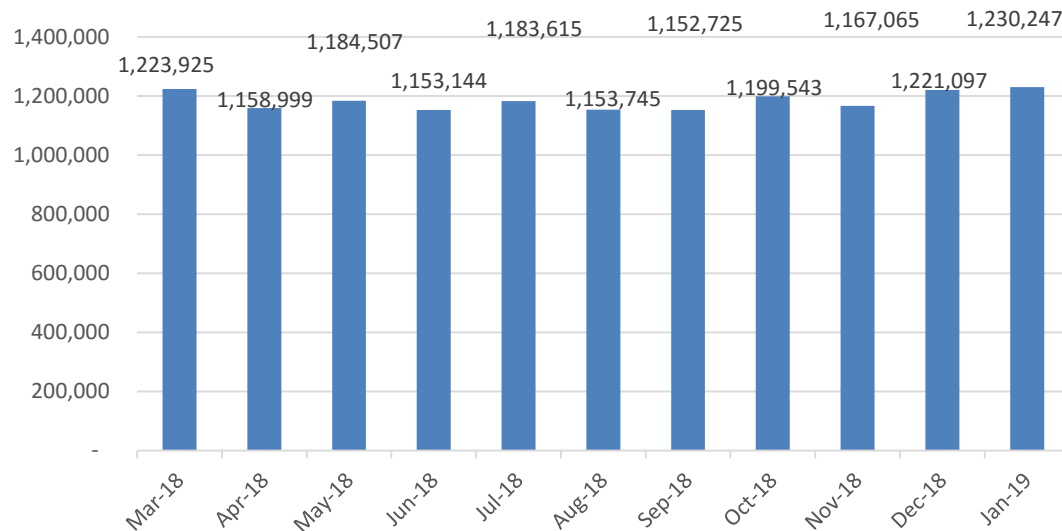
Operations Update

Production:

Monthly Production Summary - January 2019				
Deep Wells			36.7 MGD	
Active wells =	100	of 120		
Avg days in operation =	31	days		
Total Production =	1,136,301	Kgals		
Springs			0.00 MGD	
Avg days in operation =	0	days	*placed on standby	
Total Production =	0	Kgals		
Ugum Surface Water Plant			2.0 MGD	
Avg days in operation =	31	days		
Total Production =	60,545	Kgals		
Tumon Maui Well			1.08 MGD	
Avg days in operation =	31	days		
Total Production =	33,401	Kgals		
			1,230,247	39.7 MGD

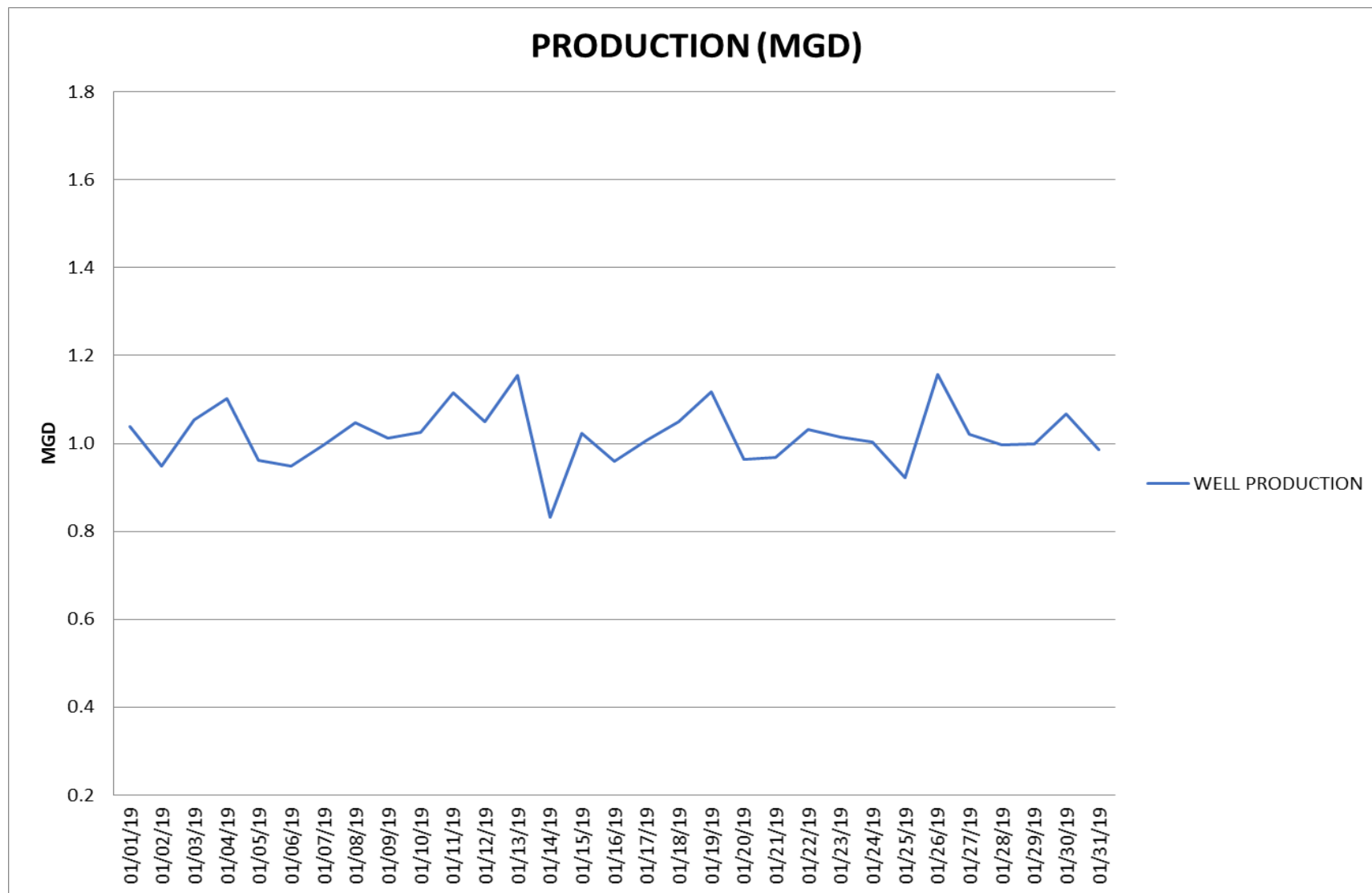
DW Status as of 1/31/2019	
Active	100
Grounded motor or Pump Failure	4
Out of commission	9
Secured, PFOs	2
Standby	5
TOTAL	120

Monthly Production (kgals)





Tumon Maui Well Production for January 2019



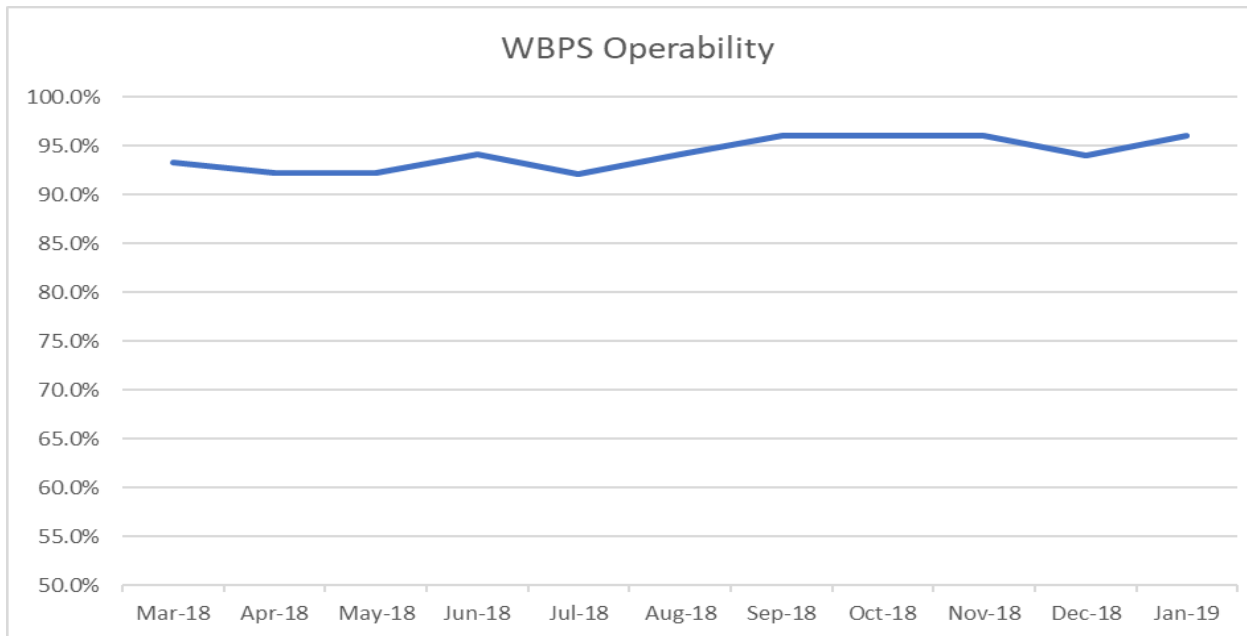


Distribution

Monthly Distribution Summary - January 2019

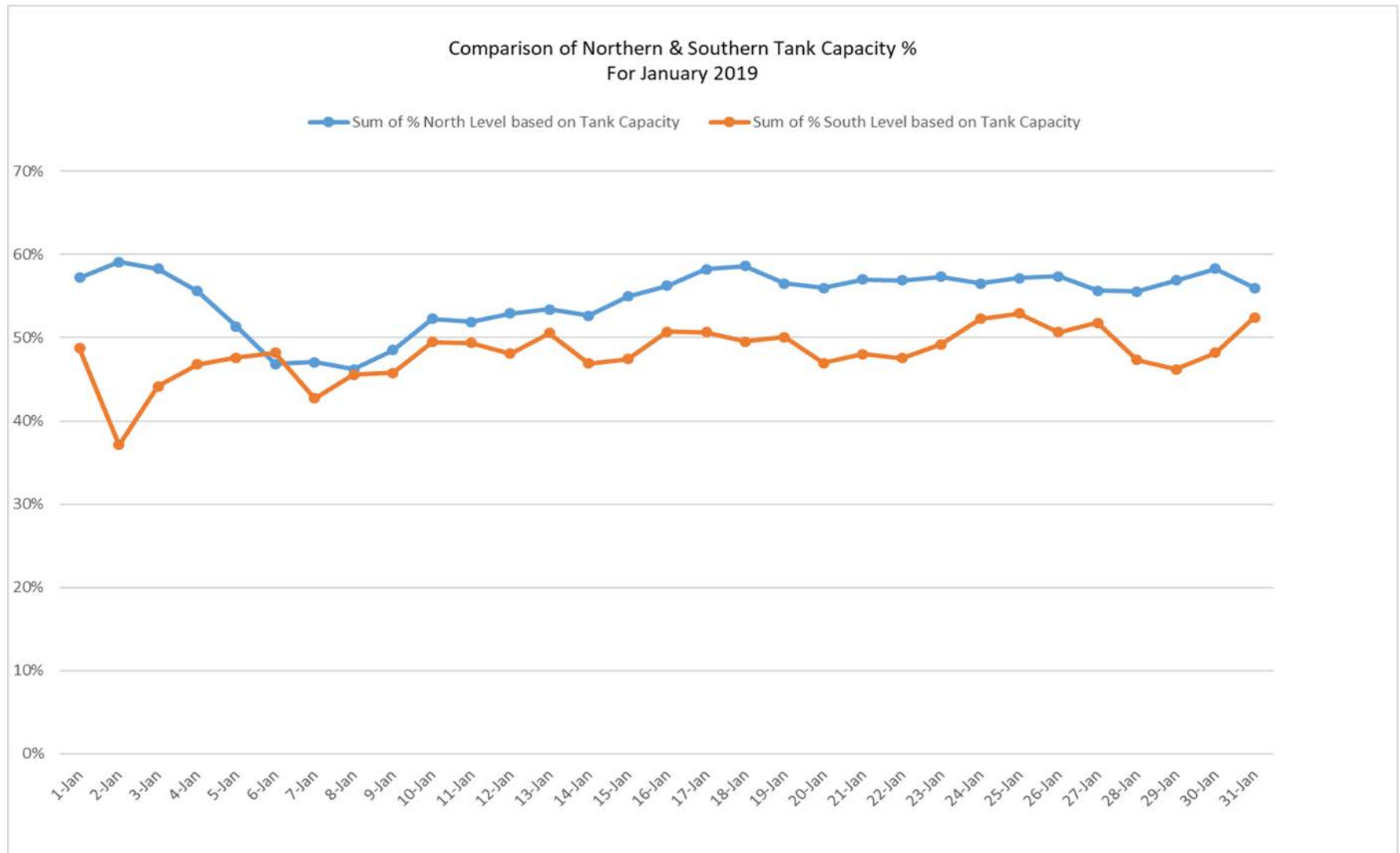
Water Booster Pump Stations

	District	No. of Stations	Total Pumps	Pumps Operating	% Operational
	Northern	11	20	19	95.0%
	Central	7	15	15	100.0%
	Southern	7	15	14	93.3%
		25	50	48	96.0%





Distribution – Tank Levels (January 2019)





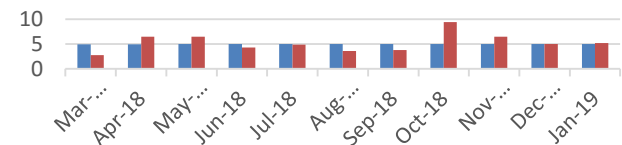
Wastewater Collections

Monthly Collections Summary - January 2019

Wastewater Pump Stations

	District	No. of Stations	Total Pumps	Pumps Operating	% Operational
	Northern	22	52	48	92.3%
	Central	29	65	55	84.6%
	Southern	25	52	42	80.8%
		76	169	145	85.8%

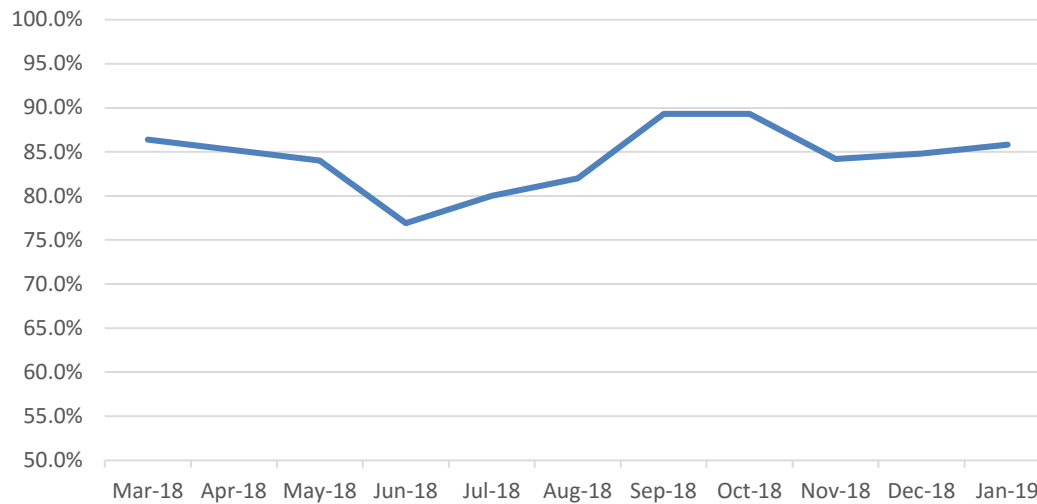
CCTV Inspection and Sewer Cleaning January 2019



	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19
Target	4.95	4.95	5	5	5	5	5	5	5	5	5
Total Actual Miles	2.8	6.5	6.5	4.3	4.9	3.62	3.81	9.4	6.5	5	5.2

■ Target ■ Total Actual Miles

WWPS Operability





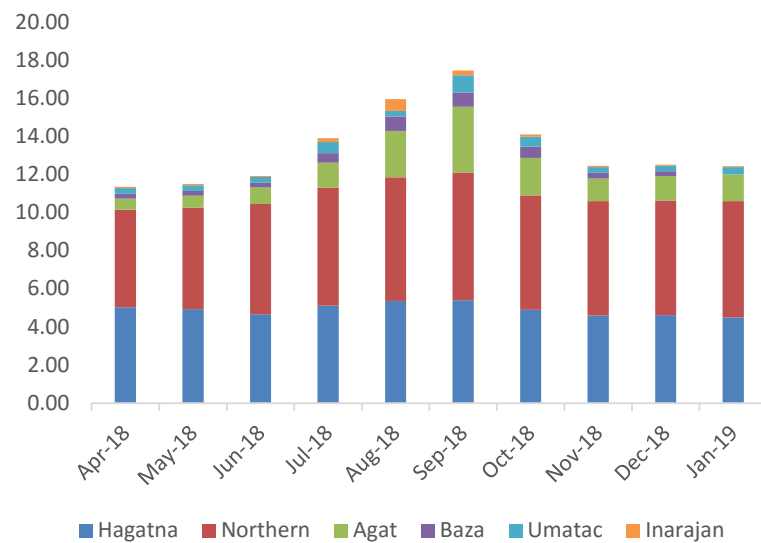
Wastewater Treatment

Monthly Wastewater Treatment Summary - November 2018

WW Treatment Plants - Flows

	Facility	Avg. Daily Flows	Sludge (lbs)	Sludge Disp. (\$)
	Hagatna	4.50	307,380	\$ 27,664
	Northern	6.1	830,460	\$ 74,741
	Agat	1.4		
	Baza	0.00		
	Umatac	0.39		
	Inarajan	0.05		
		12.44	1,137,840	\$ 102,406

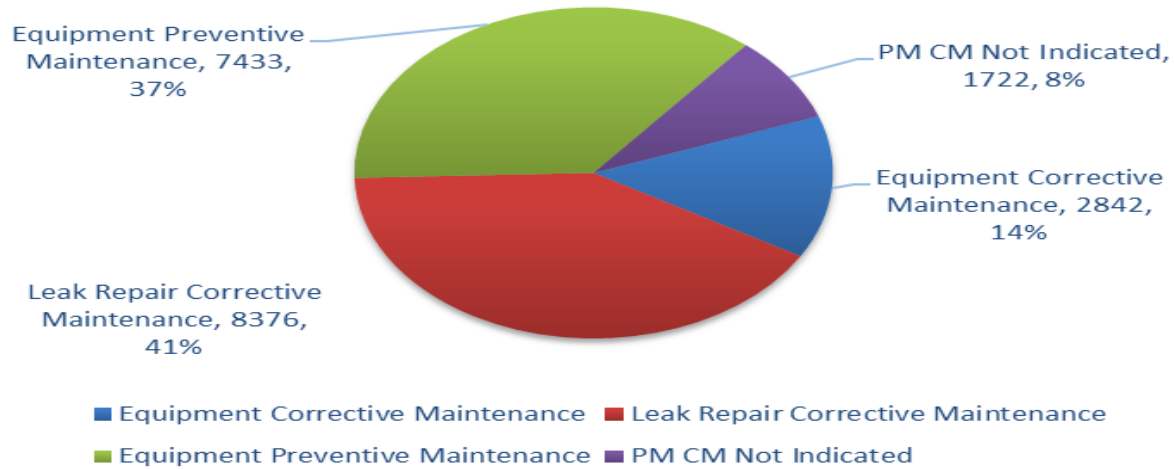
WWTP Average Flows



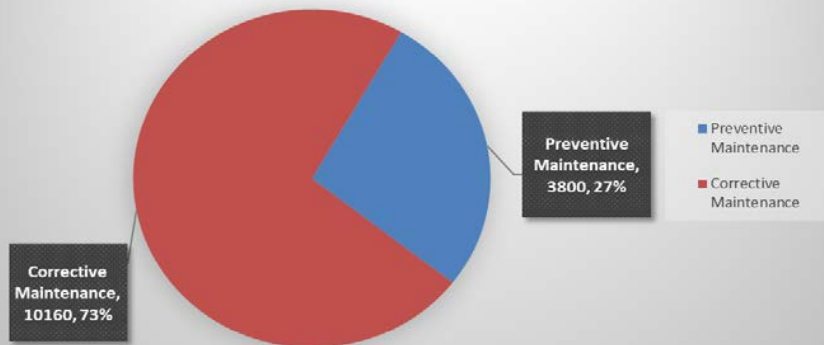


Asset Management for January 2019

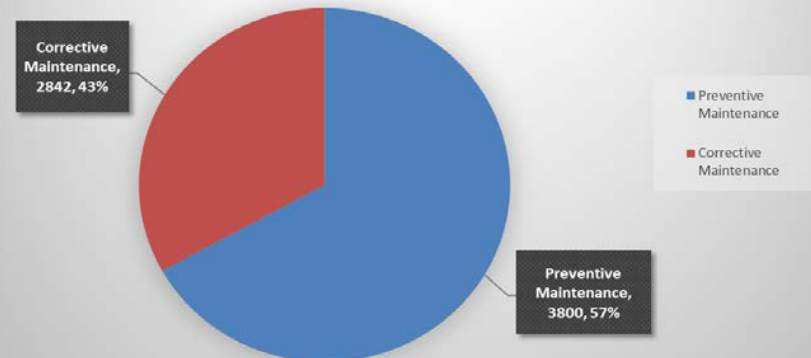
PM to CM Ratio from October 2016 to January 2019



PM to CM Work Order Completion Ratio With Leak Repairs from October 2016 to January 2019



PM to CM Work Order Completion Ratio Without Leak Repairs from October 2016 to January 2019





Operational Issues

Production & Distribution

- Leak repair/detection
 - Crews maintaining performance - Currently, there are 11 pending repairs
 - Five Main Breaks yesterday – restoration complete in all areas
 - Remote leak detection services contract underway – Images received; field work tentatively scheduled for February
 - 194 Points of Interest
 - 6% highlighted out of 627 miles of pipe
 - Harmon and Tiyan area
- WSCC/Dispatch –
 - SCADA preparation pending room modifications (GPA)
 - Call Center training and certification completed in January – 5 of 6 attendees are now certified
- Production
 - Currently 6 wells down
 - Working on production and distribution issues affecting Yigo and Chaot reservoirs
 - New PFOS/PFAS Action Plan released by US EPA

Wastewater Collection & Treatment

- CCTV & Collections System:
 - Two of three combination trucks returned to service
 - CCTV target met for November 2018, short for December 2018, but okay for the year.
- Pump stations
 - Still working to address pump operability issues
 - Critical spares and replacements procurement – orders pending



Meters from January 2017 through January 2019

COMPLETED FIELD ACTIVITY JAN 2017 THRU JAN 2019 (POSTED IN CIS)	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	TOTAL:	COMPLETED FIELD ACTIVITIES (IN PROCESS) TO BE POSTED IN CIS
GWA - Test Meter	30	9	9	371	745	87	393	743	1000	1007	434	378	750	969	1213	1429	84	1299	797	1489	639	1366	950	1206	1330	18727	598
GWA - Meter Exchange	393	179	220	276	482	353	501	807	1526	1039	452	259	239	1086	2120	121	121	1056	1248	1125	767	744	1620	3106	158	19998	0
GWA - Verify Zero Report	30	124	114	94	96	402	261	199	550	89	82	169	356	106	117	69	13	2	2	1	5	6	7	10	8	2912	0
GWA - Verify Low Usage	0	0	0	2	37	36	196	488	657	202	127	612	858	1122	1055	463	19	5	3	6	6	2	5	40	27	5968	0
TOTAL:	453	312	343	743	1360	878	1351	2237	3733	2337	1095	1418	2203	3283	4505	2082	237	2362	2050	2621	1417	2118	2582	4362	1523	47605	598

# OF METERS TESTED AS PER METER TEST FACILITY REPORTS:	345	350	144	252	305	210	302	397	1013	1130	927	704	721	1041	1347	815	671	544	1159	1216	1013	1179	1345	1208	937	19275	
# OF BACKBILLINGS APPLIED AS PER FINANCE REPORTS:	0	0	0	20	122	84	29	111	219	80	77	4	136	23	323	48	75	20	30	253	243	500	1209	1412	1188	6206	\$ 2,499,902.66
# OF FIELD CREW PERFORMING CHANGE OUTS:	19	10	13	9	21	21	14	24	35	28	28*	28*	5	13	2	2	2	28	17	25	25	25	25	25	1		
# OF ADMIN STAFF TO CREATE AND POST FIELD ACTIVITIES IN CIS:	7	4	5	6	9	9	10	13	15	15	13	13	8	11	5	4	1	13	9	5	5	5	5	5	0		
# OF SUPPLY STAFF TO ISSUE MATERIALS AND PROGRAM NEW METERS:	2	2	2	2	2	2	2	2	2	2	2	2	2	4	0	0	0	2	2	2	2	2	2	2	0		
# OF TEST FACILITY PERSONNEL TESTING METERS:	2	2	2	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	1	2	2	2	2	2	2		
# OF ACCOUNTANTS CALCULATING BACK BILLS:	0	0	0	2	3	2	2	3	3	2	2	2	2	2	2	2	2	2	2	N/A	N/A	N/A	5	5	5		
TOTAL:	30	18	22	22	38	37	31	45	58	50	48	48	20	32	11	10	7	47	31	34	34	34	39	39	8		

*Project overtime on hold Nov 18, 2017 thru Dec 16, 2017. During this period, 4 personnel performed work on this project during the regular work day with a majority of the work completed during Nov and Dec month occurring before and after the OT moratorium.

NOTE: MARCH 18, 2018 - PROJECT ON HOLD PENDING ARRIVAL OF METERS

Project resumed June 04 2018; added 2 hrs per weekday field work on June 18, 2018

Project on hold pending new shipment of meters effective 12/22/18

REMAINING ACTIVE BADGER LP MODELS AS OF JAN 31, 2019: 11676



Meters for January 2019

ACTIVE LP MODELS - PURCHASE MO & YEAR	COUNT	
2012	6501	10785 WARRANTY EXPIRED
2013	4284	
Feb-14	38	891 ACTIVE WARRANTY
Mar-14	1	
Apr-14	648	
Jun-14	9	
Aug-14	195	
TOTAL :	11676	

METER INVENTORY AMR Meters

Stock #	Size	Meter Description	New Meters	Passed Field Meters	MMP	Meters Available	Meters at MTF	Total Count	Remarks
60484	3/4"	METER, Badger AMR 5/8" X 3/4" RCDL Model M25 Disc Meter	95	50	0	145	17	162	
74131	3/4"	METER, Badger AMR 5/8" x 3/4" **WARRANTY** RCDL Model M25	0	0		0	4	4	1EA. @ KEN A
65293	3/4"	METER, Badger 5/8"x3/4" NSF61-G RCDL M25LL Disc Meter Integral	0	3	0	3	0	3	
74131	3/4"	METER, Badger AMR 5/8" x 3/4" RCDL Model M25 ***RMJ***	0			0	13	13	

*NOTE :95 ea.Reserved for New Install only.(NEW METERS)



One Guam Update – February 14, 2019

- Santa Rosa Tank:
 - Still waiting for response from Andersen CES regarding the MOU for the Santa Rosa Tank project.
- OEA Projects
 - NGLA Observation Wells – Andersen safety was concerned about one of the proposed wells. WERI provided an alternative location for the well. Its new location is outside the safety ARC. The site is being resubmitted for approval.
 - Sewer Interceptor – base access for the contractor and GWA staff is being processed.
- Property Transfers
 - Transfer of BPM-1 monitoring well
 - § USGS is drafting the letter regarding their interest in the property. If USGS is not interested in the property, DOD will be prioritized for transfer to GWA.
 - Cabras Island Water Lines – GWA is interested in the property but determining if the fire protection line is on GovGuam or DoD property.
 - Old Naval Air Station Cliff line (Tiyan) - No change. Maria Lewis will follow up with DOD.
- Intertie at Barrigada – DOD and GWA are working on another intertie in Barrigada along Route 16. This intertie will assist DOD during the road construction project along Route 16 to start in 2021.
 - DOD will determine the easement along Route 16.

Other

- In addition to the Bulk Water Rates, the Navy is also looking at water exchange: gallon for gallon.



Court Order

	Items	On-time Items Completed/Continuous	Items Delayed	Completed Late	Items on Schedule	Performance %
Court order total	93	79	2	11	1	97.8%

Court Order Items





Court Order

Status Information

- 2 items delayed
 - Water Reservoir Repair. Replacement or Relocation program, CO II C 29(b)(6)(i) – (10 additional tanks by 7th CO anniversary) [CO 28 (Formal letter being drafted.)]
 - Umatac-Merizo Wastewater Treatment Plant – July 2019
- Final Date to complete all Court Order items is December 31, 2020.
- Overflow or Bypass events reported to USEPA:
 - Umatac WWTP, Bypass 01/02/2019 to 02/03/2019 (ended February 2, 2019 at 11:00 am) (Weather)
 - 02/05/2019, Ch. Chiliguian Talofofo, sewer overflow, FOG
 - 02/10/2019, Yigo Pump Station, Air-locked pumps
 - 02/11/2019, Artero Drive, Dededo - FOG

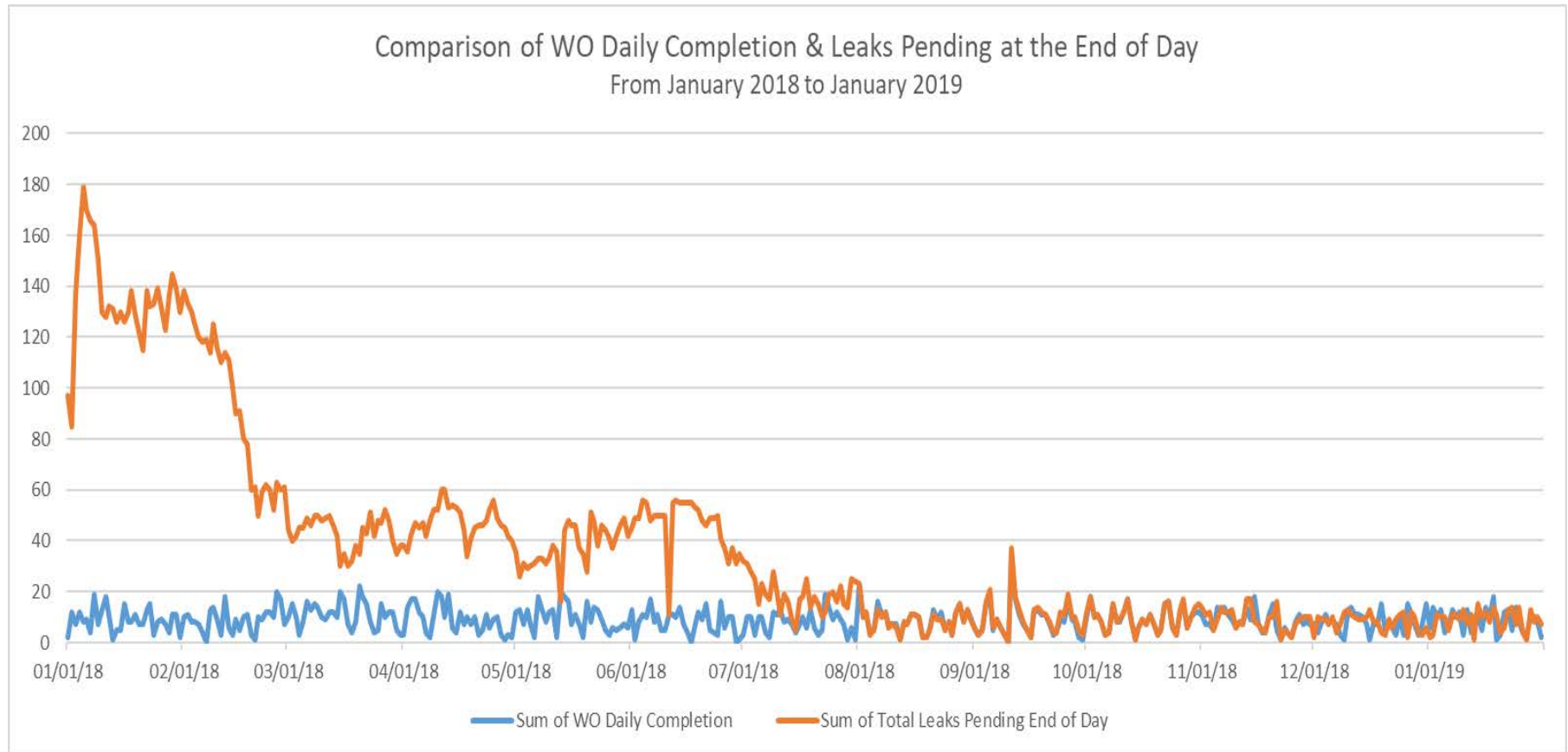


Land Acquisition Summary

GWA Facility	Location	Gov. or Private Property	Land Acquisition Status
Tanks	Ugum	Private	Escrow open with Security Title on 01/31/19 - Escrow Documents mailed out to property owners 02/05/19
	Astumbo	Gov't. - CLTC	GWA and DLM working together on Land Registration process. Pending Notification of surrounding lot owner information from DLM
	Piti	Private	Preliminary geotechnical investigation and archaeological investigation in the process 05/01/18
Expansion of the Northern District Wastewater Treatment Plant (NDWWTP)	Dededo	Gov't - GALC	Land acquisition completed and filed under GWA ownership 09/17/18
Deep Wells	AG-12	Dept. of Agriculture/Manhita Farms	Right of Entry Agreement sent to Dept of AG for signature 05/24/18. 2 nd follow up sent on 09/12/18. Decree of Land Registration recorded under Instrument No. 925872 08/23/18. Retracement Survey Property Map with DCA for revisions as per DLM comments 1/2/19.
	Y-8	Gov't. - CLTC	Property ownership under Guam Waterworks Authority per Grant Deed No. 928090
Booster Pump Station	Agfayan	Private	Authorization Form to perform appraisal and investigative services for L28, B19, T3734, Inarajan signed by CLTC 10/29/2018
Sewer Pump Stations	2 nd Adjacent Property to Southern Link	Private	Realtor Agent transmitted to GWA Amended LPSA of new land purchase amount for review and approval 01/31/19
Asan Springs	Asan	Federal	License Agreement for Asan Springs facility that fall on Dept. of Park Services property currently under DOI review

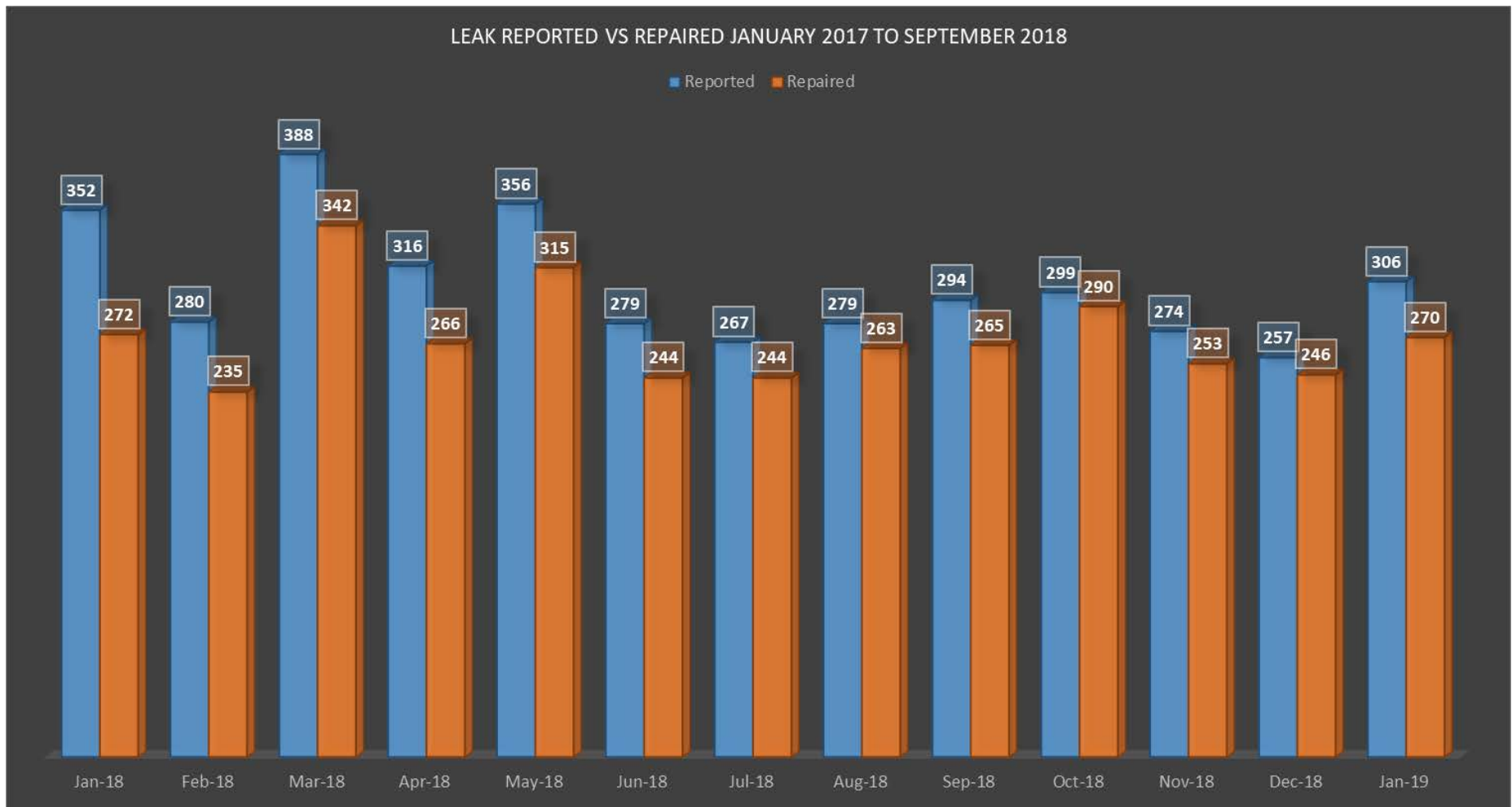


Leak Repair Summary for January 2019



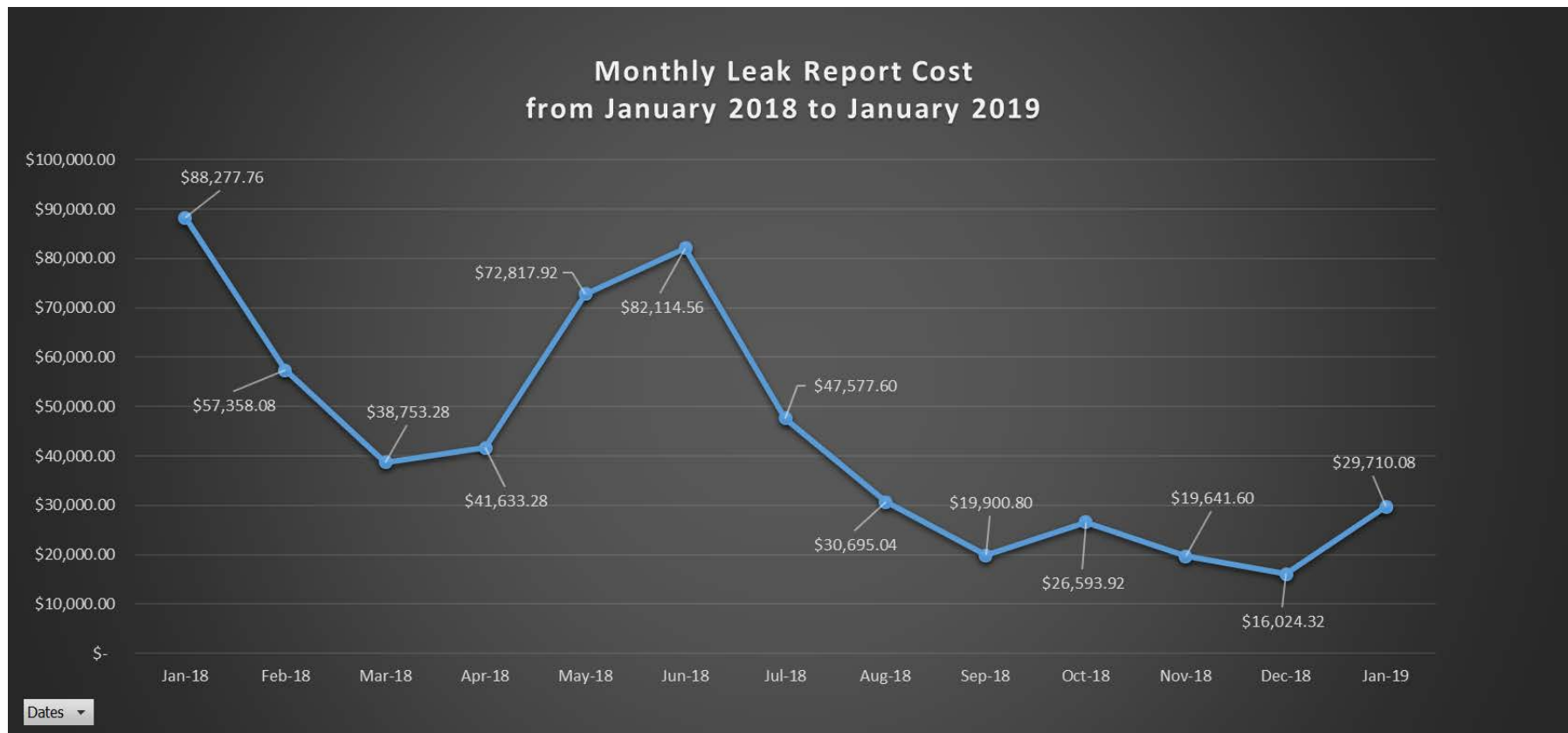


Comparison of Leaks Reported vs. Leaks Repaired – January 2019





Monthly Leak Report Cost – January 2019



Assumptions:

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

2011 Court Order Performance Report Card / Dashboard as of 01/30/2019



GUAM WATERWORKS AUTHORITY

Court Order Performance Report Card

	Items	On-time Items Completed/Continuous	Items Delayed	Completed Late	Items on Schedule	Performance %
Court order total	93	79	2	11	1	97.8%

Legend in detail section below.

Fill Color	Meaning
Lime green	Done/Completed
Yellow	On Schedule
Blue	Behind Schedule
Violet	Completed Behind Schedule
Yellow Green	Ongoing and Continuous Counted under Completed

GWA Work Session - February 19, 2019 - DIVISION REPORTS

2011 Court Order Performance Report Card / Dashboard as of 01/30/2019

Name	SO #	No	Project	GWA SO Timeline	Due to EPA	Status
Northern District WWTP Primary Treatment Upgrades.	2	1	Interim Primary Treatment Improvements Complete	09/30/2012	@EPA	Done Construction completed 12/13/2012
	3(a)	2	Interim Effluent to meet Table 1	09/30/2012 monitoring started	@EPA	Done Table 1 compliance beginning January 9, 2013.
	3(a)(1)	3	PE Review (Application for 7.5 MGD pending)	3 months after compliance with 3(a)	@EPA	Done 3(a)(1) Application to increase to 7.5 MGD Approved 08/13/2017
	3(a)(2)	4	(Application for 9 MGD)	3 months after compliance with 3(a)(1)	N/A	Not considered necessary because of OEA Upgrade of NDWWTP to Secondary
	3(c)	5	Effluent monitoring (calendar-year quarter)	Completed	@EPA	Done. Full year completed 01/08/2012
	4(a)	6	Sludge & Biosolids Management Plan	12/31/2011	@EPA	Done. Biosolids to Landfill EPA Approval 08/17/2014
	4(a)	7	Adequate stabilization and dewatering	9/30/2012	@EPA	Done. By Design-Build contract.
	4(b)	8	Biosolids Management, Quarterly Report	Quarterly Report	@EPA	Ongoing Routine Monitoring Report, Repeats Quarterly
	4(c)	9	Biosolids Management, repair & replace facilities	09/30/2012	@EPA	Done Construction Complete 12/13/2012. Biosolids to Landfill
	4(d)	10	Biosolids Management, implement plan	9/30/2012	@EPA	Done - Biosolids to Landfill
Agaña WWTP Interim Measures.	5	11	Primary Treatment Plant Upgrades	06/30/2013	@EPA	Done. CEPT is operational and routine.
	5(a)	12	Scope and schedule	09/30/2011	@EPA	Done. CEPT is operational and routine.
	5(b)	13	Septage Handling Complete	06/30/2013	@EPA	Done. Septage Receiving at the NDWWTP (location option) reported 06/26/2013.
	5(b) 1	14	Septage handling design contract signed	12/31/2011	@EPA	Done. Septage Receiving at the NDWWTP (location option) reported 06/26/2013.
	5(b) 2	15	Septage handling construction notice to proceed	06/30/2012	@EPA	Done. Septage Receiving at the NDWWTP (location option) reported 06/26/2013.
	5(c)	16	Grit and FOG Complete	06/30/2013	@EPA	Done Phase III CEPT is in operations.)
	5(c) 1	17	Grit and FOG design contract signed	12/31/2011	@EPA	Done Grit and FOG reported 06/06/2013
	5(c) 2	18	Grit and FOG construction notice to proceed	06/30/2012	@EPA	Done Submitted 11/17/2011
	5(d)	19	Repair Solids handling	11/17/2011	@EPA	Done Submitted 11/17/2011
	5(e)	20	O & M Plan	05/31/2013	@EPA	Done O & M Plan reported 05/31/2012
	5(f)	21	Effluent monitoring (calendar-year quarter)	Completed	@EPA	Done - Completed Full year as of 01/08/2012
	6	22	Prevent Effluent Back Surge	06/30/2013	@EPA	Done Old outfall decommissioned (plugged) 06/25/2013
	6	23	Effluent Back Surge Plan	12/30/2011	@EPA	Done Old outfall decommissioned (plugged) 06/25/2013
I&I SSES	7	24	Collection System SSES and I/I evaluation	Done.	@EPA	Done.
SSES Work Plan	8	25	Work Plan	180 days	@EPA	Done Reported 08/13/2012
	8(a)	26	Flow and rainfall data	N/A	@EPA	Done Reported 04/25/2013
	8(b)	27	I/I Southern	540 days	@EPA	Done Reported 04/25/2013
	8(c)	28	I/I Central	900 days	@EPA	Done Reported 04/28/2014
	8(d)	29	SSES Southern	540 days	@EPA	Done Reported 04/30/2013 – update 04/29.2016
	8(e)	30	SSES Central	900 days 09/15/2015 EPA Disap. Ltr.	@EPA	Done Late – Completed June 2, 2017
	8(e) 2	31	SSES Central Report	09/15/2015 EPA Disapproval Letter	@EPA	Done Late – Completed June 2, 2017
	9(a)	32	By Pass Report	60 days	@EPA	Done Reported 01/04/2012
Agat / Santa Rita,	9(b)	33	Flow Meter	180 days	@EPA	Done Reported 07/26/2012
	9(c) 1,2,3	34	Report evaluating near term measures	180 days response sent 09/29/2014	@EPA	Done Reported 05/07/2012 GWA response 09/29/2014.
	9(d)	35	Implement near term measures d - Disinfection	03/23/2016	@EPA	Done Late EPA specifications of 9(c), 9(d) and 9(f) on 09/24/2015.
	9(e)	36	Implement near term measures e – sludge mgmt.	03/23/2016	@EPA	Done Reported 03/23/2016
	9(f)	37	Implement near term measures f – 75% Bypass Red.	03/23/2016	@EPA	Done Reported 03/23/2016
	10	38	System Evaluation	12/31/2013 response sent 09/29/2014	@EPA	Done Reported 12/28/2013 GWA response 09/29/2014.- update 04/29/2016
	11	39	System Upgrades	03/14/2017 Plant became operational.	@EPA	Done Late New Agat WWTP on line 03/14/2017
	11(a)	40	System Upgrades design	06/30/2014-NTP 10/13/2014	@EPA	Done Late CCU approval 08/26/2014. NTP was issued on 10/13/2014
	11(b)	41	System Upgrades notice to proceed	06/30/2015-NTP 10/02/2015	@EPA	Done Late NTP Ph.1 issued 10/02/2015 - NTP Ph.2 due 01/04/2016
	12(a)	42	Interim Measures Evaluation (Independent PE)	180 days	@EPA	Done Reported 05/07/2012, PMO task
Baza Gardens	12(b)	43	Interim Measures Complete	540 days	@EPA	Done Reported 05/01/2013 PMO task
	12(c)	44	Evaluation Bio Solids Report	180 days	@EPA	Done -EPA Approval 08/28/2014
	12(d)	45	Complete Bio Solids	360 days	@EPA	Done Reported 03/21/2013
	13	46	System Evaluation	04/30/2014	@EPA	Done Reported 04/30/2014 GWA response 10/02/2014
	14	47	System Upgrades	04/31/2018	@EPA	Done Critical path need to complete I&I/SSES
	14(a)	48	System Upgrades, Design Starts	10/31/2015 NTP DCA 02/05/2016	@EPA	Done Late Linked to new Agat WWTP NTP DCA 02/05/2016
	14(b)	49	System Upgrades Construction (started on time)	10/31/2016	@EPA	Done Late Finished 12/31/2018.

GWA Work Session - February 19, 2019 - DIVISION REPORTS

2011 Court Order Performance Report Card / Dashboard as of 01/30/2019

Name	SO #	No	Project	GWA SO Timeline	Due to EPA	Status
Umatac-Merizo	15	50	Complete Evaluation	12/31/2013	@EPA	Done Reported 12/31/2013 -- Critical path, completed I&I/SSES
	16	51	System Upgrades	12/31/2018	@EPA	Delayed by US Fish and Wildlife issues -- completion expected July 2019
	16(a)	52	System Upgrades, Design Starts	06/30/2016	@EPA	Done Design Build contract executed 06/29/2017
	16(b)	53	System Upgrades, Notice to Proceed	06/30/2017	@EPA	Done NTP Issued 06/30/2017
Sewer Cleaning	17	54	Sewer Cleaning (in annual and quarterly reports)	2017-2022 Goal set: Complete Every 5 years	@EPA	Ongoing -- 1 st round completed -- Second cycle under way
Hot Spot Plan	18	55	Hot Spot Plan	EPA Revision letter o9/08/2015	@EPA	Done Last Revision submitted 10/23/2015 GWA WW Ops
CCTV	19	56	CCTV (in annual and quarterly reports)	Done- 2016	@EPA	Done Whole System, 2016 Continues as indicated by cleaning work.
Sewer Hook-Up	20	57	Sewer Hook-Up Revolving Loan Support	In Operation	@EPA	Done -- available on GWA web site or at GWA Customer Service
GW Disinfection	21	58	Groundwater Chlorination	540 days	@EPA	Done Reported 04/29/2013
Chlorine Residual Monitors	22	59	Plan	180 days	@EPA	Done Reported 09/04/2012
	22(a)	60	High Risk Wells	540 days	@EPA	Done Reported 05/02/2013
	22(b)	61	Moderate Risk Wells	2 years	@EPA	Done Reported 07/31/2013
	22(c)	62	All Other Wells	Completed 07/31/2017	@EPA	Done Late -- Completed 07/31/2017
	23(a)	63	Plan & schedule	180 days	@EPA	Done Late - Reported 05/08/2012
	23(a)	64	All connections are metered and mapped	2 years	@EPA	Done Late -- completed 11/15/2018
	23(b)	65	Plan repair & maintain	180 days	@EPA	Done GWA Test facility operational 06/28/2013
Ugum Surface Water Treatment Plant	24	66	Construction complete	One year	@EPA	Done Reported 11/09/2012
	24	67	PE Inspection	60 days before start-up	@EPA	Done EPA Approval 08/26/2014
	25	68	PE Performance Operation Assessment	60 days before start-up	@EPA	Done EPA Approval 08/26/2014
	26	69	O&M Plan and Procedures	90 days before start-up	@EPA	Done Reported 08/10/2012 EPA Approval 08/17/2014
	27	70	Plant compliance	365 days	@EPA	Done Reported 02/07/2013
Sinajana Water Transmission Line	28(a)	71	Existing Construction Complete	180 days	@EPA	Done Reported 12/23/2011
	28(b)	72	Hydraulic Evaluation	180 days	@EPA	Done EPA No Further Comment 08/26/2014
	28(c)	73	Construction Complete (2 tanks)	540 days from 11/21/2013	@EPA	Done Late GEPA Delays Tank Constr. Completed August 2015: In Service July 2016.
	28(d) 1	74	Monitoring Plan	90 days prior	@EPA	Done Reported 09/07/2012
	28(d) 1	75	Implement- Monitoring Plan	For one year after start up	@EPA	Done GWA Compliance - Start 09/01/2015 -- end 08/31/2016
	28(d) 2	76	Monitoring Plan	180 days prior	@EPA	Done EPA Approval 08/26/2014
	28(e)	77	Implement- Monitoring Plan	For one year after start up	@EPA	Done - Start 09/01/2015 -- end 08/31/2016
Storage Tank/Reservoir Rehabilitation and Replacement Program.	29(a) 1	78	Plan hydraulic analysis	90 days	@EPA	Done Reported 11/09/2012
	29(a) 2	79	Hydraulic analysis	540 days	@EPA	Done EPA No Further Comment 08/26/2014
	29(b) 1	80	Plan minimize service interruptions	90 days after approval	@EPA	Done EPA approval 08/26/2014
	29(b) 2	81	Tank inspection schedule	540 days	@EPA	Done EPA approval 08/26/2014
	29(b) 3	82	Complete Barrigada (1 @ 2 MG tank)	540 days	@EPA	Done
	29(b) 4	83	Assess additional 7 tanks	5 years (11/10/2016)	@EPA	Done DCA contract task
	29(b) 5	84	RRRR 7 additional tanks	5 years (11/10/2016)	@EPA	Done PMO executed procurement
	29(b) 6 i	85	RRRR 10 additional tanks	7 years (11/10/2018)	@EPA	Delayed - the hydraulic analysis was Completed -- work is in progress.
	29(b) 6 ii	86	RRRR remaining	12/31/2020	@EPA	In Progress
	29(c)	87	In Quarterly / Annual Report	Quarterly / Annual Report	@EPA	Ongoing GWA Compliance Repeats Quarterly
Section III REPORTING REQUIREMENTS	31(a)(1)	88	Quarterly Report	Jan., April, July, Sept. Continuous	@EPA	Ongoing Due by the 30 th of the specified months
	31(a)(2)	89	Reports on Non Compliance	Within 30 days from determination of delay	@EPA	Ongoing As determined by GWA
	31(b)	90	SSO and Bypass Report	Jan., April, July, Sept. Continuous	@EPA	Ongoing Due by the 30th of the specified months
	31(c)	91	Annual Report	January each year	@EPA	Ongoing Included with 31(a) each Year
Section IV NOTICES	35	92	CO contacts		@EPA	Ongoing GWA Compliance report 06/29/2016
	36	93	Formal notices of change in CO contacts	Whenever specified staffing changes	@EPA	Ongoing GWA Compliance report 06/29/2016



Suite 200, Gloria B. Nelson Public Service Building, 688 Rt. 15. Mangilao, GU 96913-6203

Corrective Action Plan (CAP) (Approved 10/21/2014) Quarterly/Annual Update Report

Guam Waterworks Authority Sanitary Survey Significant Deficiencies for the Water System

Prepared By: Paul Kemp, Vangie Lujan and John Riegel

Update: January 30, 2019

NEIC Work Product No. VP0989E01 GWA Sanitary Survey Significant Deficiency Items:

Preface to the Corrective Action Plan

Reporting

Formal updates of the status of management of the Corrective Action Plan will be submitted on a regular basis to Region 9, USEPA.

The reports will be delivered on a quarterly basis beginning at the end of the next calendar-year quarter following the approval date of this Corrective Action Plan. Reporting will continue on a schedule by mutual agreement between GWA and Region 9 USEPA.

The vehicle to be used for this reporting will be an update of this document.

For Court Order updates/reporting, see the Court Order Submittals, e. g. Quarterly Reports.

1. Sources—Lack of routine maintenance (both corrective and preventative of sources).

- Potential bacteriological and/or chemical contamination of source
- Many wells found to have leaking pipes and valves

Recommendation:

- Lack of adequate site security—missing or damaged fencing and signs of vandalism (graffiti) on structures should be repaired or replaced.
- Begin routine and corrective maintenance of all wellhead appurtenances and well facilities—meters, valves, pumps, air relief valves, piping pressure gauges, etc.

Remove unnecessary items (old lines, gauges, meters, etc.)

Action Plan:

GWA is implementing new O&M SOPs, programs and systems on an on-going basis.

Proposed Action Item Schedule	Task Description
As of 06/25/2013.	55 new SOP's Implemented (assisted by CDM, EPA Grant)
Drafts and planed	CDM continues work, particularly on Asset Management
Average one a month by 06/30/2014	Complete new SOP's and implement
Semi-annually beginning 01/2014	Training on SOP's Repeats Continuously, Managed for GWA by Ann Borja Supported by CDM Smith funded by EPA SRF.
Updates (Reporting per Preface)	Supported by CDM Smith funded by EPA SRF CMMS Is being implemented.



Suite 200, Gloria B. Nelson Public Service Building, 688 Rt. 15. Mangilao, GU 96913-6203

Corrective Action Plan (CAP) (Approved 10/21/2014) Quarterly/Annual Update Report

Guam Waterworks Authority Sanitary Survey Significant Deficiencies for the Water System

Prepared By: Paul Kemp, Vangie Lujan and John Riegel

Update: January 30, 2019

NEIC Work Product No. VP0989E01 GWA Sanitary Survey Significant Deficiency Items:

2.

Sources—No Wellhead Protection Plan

Many wells are located in close proximity to potential sources of fecal and other sources of contamination, and no wellhead protection plan in place for GWA wells.

- Potential bacteriological and/or chemical contamination of source
- Wells located near potential sources of contamination

Recommendation:

- Possible sewage source upstream (Talofofo Falls Park) - Should notify owner/operators of need to notify Ugu WTP if there is a spill or discharge
- Recreational activities on the Ugu River at the intake site which currently allow people in close proximity to the intake structure should be evaluated.

Action Plan:

GWA will build from the existing 1992 Guam Law, Ch. 7 section 7130 of the Water Resource Development and Operating Regulations (GEPA) entitled "Well Head Protection for Public Water Supply Well". BC to develop a plan to improve monitoring of the wellhead. Plan to be in accordance with existing Guam EPA Wellhead Protection.

Proposed Action Item Schedule	Task Description
05/30/2013	First Draft for GWA review
06/03/2014	First Draft submitted to USEPA
06/29/2015	Final Submitted to USEPA; EA Engineering Science and Technology, Inc..
	Complete

3. Sources Ugu— Diesel fuel storage tank containment located near intake for Ugu Water Treatment Plant (WTP) is undersized:

Diesel fuel storage tank containment located near intake for Ugu Water Treatment Plant (WTP) is undersized; spill could contaminate the Ugu River. Potential chemical contamination of source

- Diesel fuel storage tank containment area at the intake was visibly undersized and was designed to discharge to the ground where it could flow downhill to the Ugu River

Comment: This item was incorrectly evaluated.

Tank is dual walled construction. Containment is adequate.

Proposed Action Item Schedule	Task Description
	Provide documentation verifying dual wall construction.
05/08/2013	Verification sent to EPA – Complete

4. Sources Well— Some wells have cracks and other openings in the well pads, well casings and improperly sealed sanitary seals.

Some wells have cracks and other openings in the well pads, well casings and improperly sealed sanitary seals. These are direct openings for contamination to enter wells. Potential bacteriological or chemical contamination of source.

- Cracks in well pads and well casings and improperly sealed sanitary seals
- Lack of well pads at some locations

Action Plan:

Initiate repair. Document completion of repair. Engage consultant for independent confirmation of repair work and production of report.

Proposed Action Item Schedule	Task Description
12/1/2013	Initiate repair work
2/1/2013	Engage consultant Brown and Caldwell
4/30/2013	Complete repair work
5/5/2013	Draft report to GWA
6/6/2013	Report sent to USEPA - Complete



Suite 200, Gloria B. Nelson Public Service Building, 688 Rt. 15. Mangilao, GU 96913-6203

Corrective Action Plan (CAP) (Approved 10/21/2014) Quarterly/Annual Update Report

Guam Waterworks Authority Sanitary Survey Significant Deficiencies for the Water System

Prepared By: Paul Kemp, Vangie Lujan and John Riegel

Update: January 30, 2019

NEIC Work Product No. VP0989E01 GWA Sanitary Survey Significant Deficiency Items:

5. Sources Well— Missing screens on well casing vents. Potential contamination of source. <ul style="list-style-type: none"> Missing screens on well casing vents 	
Action Plan: Initiate repair. Document completion of repair. Engage consultant for independent confirmation of repair work and production of report.	
Proposed Action Item Schedule	Task Description
12/1/2013	Initiate repair work
2/1/2013	Engage consultant Brown and Caldwell
4/30/2013	Complete repair work
5/5/2013	Draft report to GWA
6/6/2013	Report to USEPA
5/13/2013	Report sent to USEPA - Complete

6. Sources Well— Wells have bypass lines that were routed into the ground and off-site without an air gap. Wells have bypass lines that were routed into the ground and off-site without an air gap. Potential contamination of source. Many wells found to have bypass lines that were routed into the ground and off-site without an air gap	
Action Plan: Initiate repair. Document completion of repair. Engage consultant for independent confirmation of repair work and production of report.	
Proposed Action Item Schedule	Task Description
12/1/2013	Initiate repair work
2/1/2013	Engage consultant Brown and Caldwell
4/30/2013	Complete repair work
5/5/2013	Draft report to GWA
6/6/2013	Report to USEPA
5/23/2013	Report sent to USEPA - Complete

7. Sources Spring--Lack of operating flow meter at spring source makes operation (including chlorine dosing) problematic. Difficulty in ensuring adequate chlorination/disinfection Recommendation: Remove heavy vegetative growth around the clear well structure. Implement routine and corrective maintenance at all spring appurtenances—meters, valves, pumps, piping, pressure gauges, etc.	
Action Plan: Initiate repair. Document completion of repair.	
Proposed Action Item Schedule	Task Description
12/1/2013	Initiate repair work
4/30/2013	Complete repair work
6/6/2013	Report to USEPA
5/23/2013	Report sent to USEPA - Complete

8. Sources Spring-- Santa Rita Spring Box (Clear Well) – – Gaps between corrugated metal roof and clear well walls allow entry by animals, birds and reptiles. Allow bacteriological contamination to enter source.	
Action Plan: Initiate repair. Document completion of repair.	
Proposed Action Item Schedule	Task Description
05/08/2013	Reported to USEPA - Complete



Suite 200, Gloria B. Nelson Public Service Building, 688 Rt. 15. Mangilao, GU 96913-6203

Corrective Action Plan (CAP) (Approved 10/21/2014) Quarterly/Annual Update Report

Guam Waterworks Authority Sanitary Survey Significant Deficiencies for the Water System

Prepared By: Paul Kemp, Vangie Lujan and John Riegel

Update: January 30, 2019

NEIC Work Product No. VP0989E01 GWA Sanitary Survey Significant Deficiency Items:

9. <u>Treatment-- Lack of operations and maintenance (Ugum, Santa Rita Spring)</u>	
Recommendation:	
<ul style="list-style-type: none"> Implement routine and corrective maintenance at all spring appurtenances—meters, valves, pumps, piping, pressure gauges, etc. 	
Ugum training on O&M will be regular refresher classes on annual basis.	
Action Plan:	
Proposed Action Item Schedule	Task Description
Santa Rita Spring (Ground Water)	
05/08/2013	Santa Rita Spring O&M training was completed and has been sent to USEPA.
05/08/2013	O&M is now under Production Section.
05/31/2014 etc.	Santa Rita Spring O&M training will have annual refreshers.
Ugum Surface Water Treatment Plant	
11/19-23/2012	Latest Training by Siemens/Smithbridge
07/23/2013	Additional Specialized training on coagulation optimization for membranes
08/01/2013	Training certification sent to USEPA
07/01/2014 and thereafter.	O&M training will have annual refreshers.
Completed under Court Order	See Court Order Section II C 26 Ugum SOP's - Complete

10. <u>Treatment-- Lack of operating turbidimeter at Santa Rita Spring source.</u>	
Action Plan:	
Initiate repair. Document completion of repair.	
Proposed Action Item Schedule	Task Description
05/08/2013	Verification submitted to USEPA - Complete

11. <u>Treatment-- Plant operators do not regularly conduct jar tests and do not optimize precursor removal at Ugum WTP.</u>	
Action Plan:	
Prepare Bid or Change Order for TOC. Prepare documentation of training. Provide copies of regular reporting.	
Proposed Action Item Schedule	Task Description
5/15/2013	Prepare change order for installation of TOC and appurtenances. Smithbridge
08/12/2013	Completed installation of on-site TOC analyzer.
08/15/2013	Completed training of operators on site TOC analyzer.
07/23/2013	Additional Specialized training on coagulation optimization for membranes
08/01/2013	Training certification sent to USEPA – Complete

12. <u>Treatment-- Inadequate turbidity monitoring and reporting at Ugum</u>	
Action Plan:	
Address re-programming SCADA. Provide copies of daily submittals sent to GEPA and monthly submittals, and send example reports to USEPA as documentation.	
Proposed Action Item Schedule	Task Description
06/06/2013	Send documentation of conformance to USEPA
05/30/2013	Sent documentation of conformance to USEPA - Complete



Suite 200, Gloria B. Nelson Public Service Building, 688 Rt. 15. Mangilao, GU 96913-6203

Corrective Action Plan (CAP) (Approved 10/21/2014) Quarterly/Annual Update Report

Guam Waterworks Authority Sanitary Survey Significant Deficiencies for the Water System

Prepared By: Paul Kemp, Vangie Lujan and John Riegel

Update: January 30, 2019

NEIC Work Product No. VP0989E01 GWA Sanitary Survey Significant Deficiency Items:

13. Treatment-- At least one well (D-5) did not have a chlorination system in place	
Action Plan: Explain that D-5 well is not a point of entry into the potable distribution system issue.	
Proposed Action Item Schedule	Task Description
6/6/2013	Report to USEPA
05/31/2013	Report sent to USEPA - Complete

14. Treatment Well-- At least one well, the well log indicated chlorine gas had run out in the past (April 29, 2012) <u>Inadequate chlorination/disinfection could result in exposure to bacteriological contamination.</u>	
Action Plan: GWA to provide the log sheets. This finding is a result of an incorrect assessment	
Proposed Action Item Schedule	Task Description
6/6/2013	GWA to send USEPA the log sheet – interpretation was incorrect.
05/31/2013	Sent to USEPA - Complete

15. Water Storage-- Severe internal/external rust and corrosion including roofs, roof vents, walls, base and other welds, anchors allows contaminants to enter tanks.	
Recommendation: GWA should properly maintain facilities and grounds (remove overgrown vegetation, take away garbage, repair security breaches, etc.	
Action Plan: This is a Court Order project. Work performed will be in accordance with the 2011 court order.	
Proposed Action Item Schedule	Task Description
In Progress – Court Order.	See CO Section II C Paragraph 29, Quarterly and Annual Reports-In Orogess

16. Water Storage-- Bolts, many completely rusted through, compromise structural stability of tanks.	
Recommendation: Potential for tank failure	
Action Plan: This is a Court Order project. Work performed will be in accordance with the 2011 court order Paragraph 29.	
Proposed Action Item Schedule	Task Description
In Progress – Court Order.	See CO Section II C Paragraph 29, Quarterly and Annual Reports

17. Water Storage-- Inadequate Site Security (holes in fences, missing gates) and unlocked hatches allow easy access to tanks (as demonstrated by vandalism at many tanks). Potential for access by public and consequent contamination.	
Action Plan: This is a Court Order project. Work performed will be in accordance with the 2011 court order Paragraph 29. GWA will correct on tanks undergoing major repairs.	
Proposed Action Item Schedule	Task Description
In Progress – Court Order.	See CO Section II C Paragraph 29, Quarterly and Annual Reports

18. Water Storage-- Leaking tanks.	
Recommendation: Could allow contamination to enter.	
Action Plan: This is a Court Ordered project. Work performed will be in accordance with the 2011 court order Paragraph 29.	
Proposed Action Item Schedule	Task Description
In Progress – Court Order.	See CO Section II C Paragraph 29, Quarterly and Annual Reports



Suite 200, Gloria B. Nelson Public Service Building, 688 Rt. 15. Mangilao, GU 96913-6203

Corrective Action Plan (CAP) (Approved 10/21/2014) Quarterly/Annual Update Report

Guam Waterworks Authority Sanitary Survey Significant Deficiencies for the Water System

Prepared By: Paul Kemp, Vangie Lujan and John Riegel

Update: January 30, 2019

NEIC Work Product No. VP0989E01 GWA Sanitary Survey Significant Deficiency Items:

19. Water Storage-- Flooded, uncovered and unsecured valve vaults Could allow contamination to enter.	
<u>Action Plan:</u> This is a Court Ordered project. Work performed will be in accordance with the 2011 court order Paragraph 29. GWA will correct on tanks undergoing major repairs.	
Proposed Action Item Schedule	Task Description
In Progress – Court Order.	See CO Section II C Paragraph 29, Quarterly and Annual Reports- Complete

20. Water Storage-- No screen or flapper on the storage tanks' overflows. Potential for access by public and consequent contamination.	
<u>Action Plan:</u> This is a Court Order project. Work performed will be in accordance with the 2011 court order Paragraph 29. GWA will correct on tanks undergoing major repairs.	
Proposed Action Item Schedule	Task Description
In Progress – Court Order.	See CO Section II C Paragraph 29, Quarterly and Annual Reports - Complete

21. Water Storage-- Ladders not locked, allow easy potential access by vandals.	
<u>Action Plan:</u> This is a Court Order project. Work performed will be in accordance with the 2011 court order Paragraph 29. GWA will correct on tanks undergoing major repairs.	
Proposed Action Item Schedule	Task Description
In Progress – Court Order.	Repairs Complete

22. Water Storage-- Ladders severely corroded or no cage will prevent adequate maintenance	
<u>Action Plan:</u> This is a Court Order project. Work performed will be in accordance with the 2011 court order Paragraph 29.	
Proposed Action Item Schedule	Task Description
In Progress – Court Order.	Repairs Complete

23. Distribution System-- Inadequate cross connection control program exists within GWA. Potential for backflow/backpressure and contamination.	
<u>Action Plan:</u> Engage consultant to develop how GWA can plan for backflow prevention program. Create report documenting procedures for implementing a program.	
Proposed Action Item Schedule	Task Description
02/01/2013	Engage consultant Brown and Caldwell
05/05/2013	Submit draft plan for GWA review
06/05/2013	Submitted draft plan to USEPA
NTP issued.	Draft Detailed Cross-Connection Control Plan by PMO Work Order.
Pending CCU approval	GWA recruiting positions to man and execute this project..
Included in Plan	Detailed Cross-Connection Control Plan Technical Memo Completed
Program Completed	Final plan Completed 02/16/2018. Implementation in Progress



Suite 200, Gloria B. Nelson Public Service Building, 688 Rt. 15. Mangilao, GU 96913-6203

Corrective Action Plan (CAP) (Approved 10/21/2014) Quarterly/Annual Update Report

Guam Waterworks Authority Sanitary Survey Significant Deficiencies for the Water System

Prepared By: Paul Kemp, Vangie Lujan and John Riegel

Update: January 30, 2019

NEIC Work Product No. VP0989E01 GWA Sanitary Survey Significant Deficiency Items:

24. Distribution System-- Undersized water lines impact water pressure and water quality and contribute to potential cross-connections. Potential for backflow/backpressure and contamination.	
<u>Action Plan:</u> Engage consultant to develop how GWA can plan for small diameter pipeline replacement program. Create report documenting procedures for implementing a program.	
Proposed Action Item Schedule	Task Description
02/01/2013	Engage consultant Brown and Caldwell
05/05/2013	Submit draft plan for GWA review
06/05/2013	Submitted draft plan to USEPA
10/01/2013	Approved Plan/CIP for line replacement.
12/31/2013	Submit Approved Plan/CIP for line replacement to PUC.
04/30/2014	Approved of Plan/CIP for line replacement by PUC.
07/01/2014	Begin line replacement program for small diameter pipelines.
01/01/2024	Complete small diameter pipeline replacement.
Updates (Reporting per Preface)	See GWA CIP at < http://guamwaterworks.org/wp-content/uploads/2016/02/GWA-CIP-2015-to-2020-CCU-102715-final-ver.pdf >.

25. Pumps-- No pump controls at many of the booster pump stations; lack of maintenance. Leaking seals in pumps and valves results in intermittent service and supply, lower reliability and decreased pressure.	
<u>Recommendation:</u> Implement routine and corrective maintenance at all spring appurtenances—meters, valves, pumps, piping, pressure gauges, etc.	
<u>Action Plan:</u> Initiate repair. Engage consultant for independent analysis and condition assessment of booster pumping stations. Consultant to develop schedule and cost estimates for implementing upgrades of booster pumping stations. Consultant to prepare a report for rehabilitation program.	
Proposed Action Item Schedule	Task Description
12/01/2012	Initiate immediate repairs
02/01/2013	Engage consultant Brown and Caldwell
02/26/2013	5-year CIP approved by CCU
04/30/2013	Complete immediate repairs
05/05/2013	Submit draft report to GWA for review
09/06/2013	Submitted draft report to USEPA for approval
03/30/2014	Final plan for booster station repairs.
Updates (Reporting per Preface)	See GWA CIP at < http://guamwaterworks.org/wp-content/uploads/2016/02/GWA-CIP-2015-to-2020-CCU-102715-final-ver.pdf >.



Suite 200, Gloria B. Nelson Public Service Building, 688 Rt. 15. Mangilao, GU 96913-6203

Corrective Action Plan (CAP) (Approved 10/21/2014) Quarterly/Annual Update Report

Guam Waterworks Authority Sanitary Survey Significant Deficiencies for the Water System

Prepared By: Paul Kemp, Vangie Lujan and John Riegel

Update: January 30, 2019

NEIC Work Product No. VP0989E01 GWA Sanitary Survey Significant Deficiency Items:

26. Pumps-- Lack of adequate backup pumps. Flooding of booster pump stations.	
Results in intermittent service and supply, lower reliability and decreased pressure	
Action Plan: Initiate repair. Engage consultant for independent analysis and condition assessment of booster pumping stations. Consultant to develop schedule and cost estimates for implementing upgrades of booster pumping stations. Consultant to prepare a report for rehabilitation program.	
Proposed Action Item Schedule	Task Description
12/01/2012	Initiate immediate repairs
02/01/2013	Engage consultant Brown and Caldwell
02/26/2013	5-year CIP approved by CCU
04/30/2013	Complete immediate repairs
05/05/2013	Submit draft report to GWA for review
09/06/2013	Submitted draft report to USEPA for approval
03/30/2014	Final plan for booster station repairs.
Updates (Reporting per Preface)	See GWA CIP at < http://guamwaterworks.org/wp-content/uploads/2016/02/GWA-CIP-2015-to-2020-CCU-102715-final-ver.pdf >.

27. Pumps-- No controls on well pumps or booster pumps.	
Results in intermittent service and supply, lower reliability and decreased pressure.	
Action Plan: Initiate repair. Engage consultant for independent analysis and condition assessment of booster pumping stations. Consultant to develop schedule and cost estimates for implementing upgrades of booster pumping stations. Consultant to prepare a report for rehabilitation program.	
Proposed Action Item Schedule	Task Description
12/01/2012	Initiate immediate repairs
02/01/2013	Engage consultant Brown and Caldwell
02/26/2013	5-year CIP approved by CCU
04/30/2013	Complete immediate repairs
05/05/2013	Submit draft report to GWA for review
09/06/2013	Submitted draft report to USEPA for approval
03/30/2014	Final plan for booster station repairs.
Updates (Reporting per Preface)	See GWA CIP at < http://guamwaterworks.org/wp-content/uploads/2016/02/GWA-CIP-2015-to-2020-CCU-102715-final-ver.pdf >.

28. Pumps-- Leaking pump seals, valves, lines, and highly rusted piping.	
Results in intermittent service and supply, lower reliability and decreased pressure.	
Action Plan: Initiate repair. Engage consultant for independent analysis and condition assessment of booster pumping stations. Consultant to develop schedule and cost estimates for implementing upgrades of booster pumping stations. Consultant to prepare a report for rehabilitation program.	
Proposed Action Item Schedule	Task Description
12/01/2012	Initiate immediate repairs
02/01/2013	Engage consultant Brown and Caldwell
02/26/2013	5-year CIP approved by CCU
04/30/2013	Complete immediate repairs
05/05/2013	Submit draft report to GWA for review
09/06/2013	Submitted draft report to USEPA for approval
Maintenance work in progress	Begin program for booster station repairs, copy to USEPA
Updates (Reporting per Preface)	See GWA CIP at < http://guamwaterworks.org/wp-content/uploads/2016/02/GWA-CIP-2015-to-2020-CCU-102715-final-ver.pdf >.



Suite 200, Gloria B. Nelson Public Service Building, 688 Rt. 15. Mangilao, GU 96913-6203

Corrective Action Plan (CAP) (Approved 10/21/2014) Quarterly/Annual Update Report

Guam Waterworks Authority Sanitary Survey Significant Deficiencies for the Water System

Prepared By: Paul Kemp, Vangie Lujan and John Riegel

Update: January 30, 2019

NEIC Work Product No. VP0989E01 GWA Sanitary Survey Significant Deficiency Items:

29. Water Quality-- Inadequate monitoring and reporting – Uguim WTP and Santa Rita Spring (turbidity and chlorine residual) exceedances (violations) may be going undetected and unreported.	
<u>Recommendation:</u> Continue to improve utility-wide communications to address previous lack of complete communication between departments.	
<u>Action Plan:</u> GWA has made this KPI and it is managed via weekly reports	
Proposed Action Item Schedule	Task Description
06/06/2013	GWA to submit weekly report documentation to USEPA.
05/30/2013	GWA submitted documentation to USEPA. Complete

30. SDWA Compliance-- Lead and Copper Rule monitoring overdue.	
<u>Action Plan:</u> GWA has implemented the required LCR monitoring and will proceed to complete and continue as required by the rule without waiting for GEPA to approve the schedule and process. If GEPA ever decides to participate, GWA will make additions that are requested.	
Proposed Action Item Schedule	Task Description
12/04/2012	Routine Procedure started.
06/14/2013	Round 1 completed with all sample results below both Pb and Cu action levels.
12/31/2013	Completed second Round of Monitoring
01/31/2014.	Lab results verify GWA is in compliance. - Complete

31. SDWA Compliance-- Unaddressed Stage 2 Disinfection/Disinfectant Byproducts rule (DBP) Rule MCL Violations, required public notification.	
<u>Action Plan:</u> Continue to report in CCR and add quarterly mailings to Central (GU0000003) and or Southern (GU0000001) System customers. GWA to await schedule for Navy water compliance schedule from Fena Reservoir for Central (GU0000003).	
Proposed Action Item Schedule	Task Description
05/20/2013	Southern (GU0000001) System is now compliant with Stage 2 DBP Rule
05/20/2013	Central (GU0000003) System is compliant with Stage 2 DBP Rule in all areas except one small part of Agat. Mailings to all Central Customers will continue until clear.
06/06/2013	Initiated quarterly mailings to affected customers. [Central (GU0000003)]
Consecutive System Management	GWA continues to reduce purchases of water from the Fena SWTP which has made the difference in the Central (GU0000003) System.
Navy Water is now in compliance	DBP exceedance Central (GU0000003) System has ended with changes in the Navy Fena Surface Water Treatment Plant's operations, achieving compliance with the Stage 2 DBP Rule.
Quarterly mailings are discontinued.	Complete

32. Administration-- No formal, comprehensive training program for operators and other personnel. Can result in inappropriate or inadequate operation and negative impacts on water quality.	
<u>Action Plan:</u> GWA to complete an annual Workforce Development Report	
Proposed Action Item Schedule	Task Description
01/16/2014	First Annual Workforce Development (Training) Report.
Regular Training Scheduled	Adapted dependent on subject matter. Assisted by PMO.
Updates (Reporting per Preface)	See Comprehensive management Plan 08/27/2013



Suite 200, Gloria B. Nelson Public Service Building, 688 Rt. 15. Mangilao, GU 96913-6203

Corrective Action Plan (CAP) (Approved 10/21/2014) Quarterly/Annual Update Report

Guam Waterworks Authority Sanitary Survey Significant Deficiencies for the Water System

Prepared By: Paul Kemp, Vangie Lujan and John Riegel

Update: January 30, 2019

NEIC Work Product No. VP0989E01 GWA Sanitary Survey Significant Deficiency Items:

33. Administration-- Hydraulic model is neither complete nor accurate enough to make operational or design decisions. Results in poor design and operational decisions impacting water quality.	
<u>Action Plan:</u> This is a Court Ordered project. Work performed will be in accordance with the 2011 court order Paragraph 29(a)(2).	
Proposed Action Item Schedule	Task Description
05/03/2013	Submitted Hydraulic Model report to USEPA under CO 29(a)(2). Complete

34. Administration-- No preventative maintenance programs for most operational areas. Many system components in varying levels of disrepair or failure put system at risk for contamination.	
<u>Action Plan:</u> GWA is working with USEPA and CDM to improve Asset Management	
Proposed Action Item Schedule	Task Description
In Progress	GWA/CDM-Smith Asset Management program
Continuously updated	GWA Asset Management program – Lucy CMMS being implemented

35. Administration-- Data are collected, but do not have the capacity to analyze the information to assist with operational decisions. Lack of understanding and use of operational data can result in poor system operations and consequent risk for contamination or failure.	
<u>Action Plan:</u> GWA will improve data collection and assessment function – SOP's and Training are in planning stages.	
Proposed Action Item Schedule	Task Description
2013	New SOP's and Training
2013 through 2018	Five year development plan for staff capacity for data retrieval and analysis.
Evolved, data collection upgraded.	Required staff positions created
Updates (Reporting per Preface)	Creation of Management analyst positions is completed.

36. Administration-- Lack of Standard Operating Procedures ("SOPs").	
<u>Action Plan:</u> GWA will conduct SOP training	
Proposed Action Item Schedule	Task Description
As of 06/25/2013.	55 new SOP's Implemented (assisted by CDM, EPA Grant)
Drafts and planed	CDM continues work, particularly on Asset Management
Average one a month my 06/30/2014	Complete new SOP's and implement
09/06/2013	Reported status to USEPA
Semi-annual - Continuous	Training on SOP's
Updates (Reporting per Preface)	Generated by GWA Staff - Supplemented by CDM Smith - EPA SRF.

37. Operator Compliance-- No proper operator certification for system type. Inadequately trained operators do not perform process control adequately, which impacts finished water quality.	
<u>Action Plan:</u> GWA disputes the described deficiency. GWA has always been in compliance.	
Proposed Action Item Schedule	Task Description
06/06/2013	Submit Certification information USEPA.
05/24/2013	Certification information sent to USEPA - Complete



Suite 200, Gloria B. Nelson Public Service Building, 688 Rt. 15. Mangilao, GU 96913-6203

Corrective Action Plan (CAP) (Approved 10/21/2014) Quarterly/Annual Update Report

Guam Waterworks Authority Sanitary Survey Significant Deficiencies for the Water System

Prepared By: Paul Kemp, Vangie Lujan and John Riegel

Update: January 30, 2019

NEIC Work Product No. VP0989E01 GWA Sanitary Survey Significant Deficiency Items:

38. Operator Compliance-- Plant operators do not regularly conduct jar tests.	
Inadequately trained operators do not perform process control adequately, which impacts finished water quality.	
Proposed Action Item Schedule	Task Description
5/15/2013	Prepare change order for installation of TOC and appurtenances. Smithbridge
08/12/2013	Completed installation of on site TOC analyzer.
08/15/2013	Completed training of operators on site TOC analyzer.
07/23/2013	Additional Specialized training on coagulation optimization for membranes
08/01/2013	Training certification sent to USEPA - Complete

39. Operator Compliance-- Plant operators and engineering staff did not understand the correlation between ineffective coagulant dosing.	
Inadequately trained operators do not perform process control adequately, which impacts finished water quality.	
Proposed Action Item Schedule	Task Description
5/15/2013	Prepare change order for installation of TOC and appurtenances. Smithbridge
08/12/2013	Completed installation of on site TOC analyzer.
08/15/2013	Completed training of operators on site TOC analyzer.
07/23/2013	Additional Specialized training on coagulation optimization for membranes
08/01/2013	Training certification sent to USEPA - Complete

40. Operator Compliance-- No level 4 Operator is actually located on site at the Ugum WTP, as required.	
Violation of Guam Operator Certification requirement.	
Action Plan: Level 4 operators are not required at Ugum, Current status requires only Level 3 operators. GWA has always been in compliance.	
Proposed Action Item Schedule	Task Description
06/06/2013	Submit Certification information USEPA.
05/24/2013	Certification information sent to USEPA - Complete

Status Summary: as of July 30, 2018

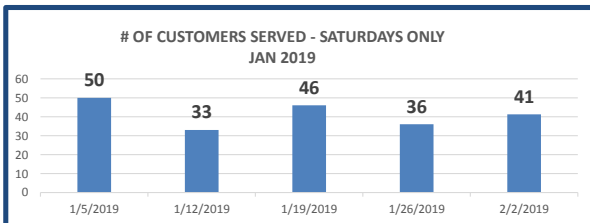
Corrective Action Plan Legend	Fill Color	No. of Items
Information and/or future steps	No Fill	
Completed – no further action-or pending EPA approval	Green	39
Court Order Managed items (some are completed- the others are on schedule)	Blue	9
On Schedule or Continuous (Long Term Commitment/Reporting)	Orange	10

GWA Utility Services Division
Monthly Status Report
Month ending Feb 02, 2018

UTILITY SERVICES DIVISION ACTIVITIES:	WEEKLY AVERAGE DEC 2018	DEC 2018 MONTHLY TOTAL	WEEK ENDING: 1/5/2019	WEEK ENDING: 1/12/2019	WEEK ENDING: 1/19/2019	WEEK ENDING: 1/26/2019	WEEK ENDING: 2/2/2019	WEEKLY AVERAGE JAN 2018	JAN 2019 MONTHLY TOTAL
Collections Unit									
I. Number of accounts cut for nonpayment:	56	222	0	233	273	218	255	196	979
II. Number of accounts restored for nonpayment:	50	198	32	119	222	172	219	153	764
III. Number of No water reports responded to:	3	12	1	4	4	1	4	3	14
IV. Number of Secure/Unsecure valve reports responded to:	2	7	2	1	1	5	1	2	10
V. Number of Verify reads responded to:	1	2	0	0	0	0	0	0	0
VI. Number of new pay plans negotiated for active accounts :	178	710	188	248	234	208	231	222	1109
VII. Number of active pay plans negotiated and ongoing :	2022		1840	2030	2179	2320	2466	2167	
VIII. Number of inactive accounts with a payment arrangement:	0		0	1	0	0	0	0	
IX. Number of broken payment plans:	67	267	90	58	85	67	85	77	385
Customer Service Unit									
I. Service Delivery Points:									
a. GBN Public Service Building – Fadjan									
i. Total Customers Assisted :	227	907	228	299	295	222	318	272	1362
ii. Total Abandoned Requests :	16	64	27	16	17	3	33	19	96
iii. Average Wait Time:	7 minutes		11 minutes	10 minutes	10 minutes	9 minutes	14 minutes	11 minutes	
iv. Average Service Time:	12 minutes		31 minutes	15 minutes	19 minutes	15 minutes	16 minutes	19 minutes	
v. Breakdown by request type:									
1. Apply for water	47	187	36	57	54	39	63	50	249
2. Restore water cut for non payment	12	48	4	25	46	35	51	32	161
3. Terminate Water	14	56	19	13	18	9	29	18	88
4. Copy of Bill	38	153	33	38	35	18	21	29	145
5. Billing Dispute	64	255	69	92	84	72	90	81	407
6. Billing Dispute follow up	6	23	7	9	7	3	7	7	33
7. General Questions & Other	24	96	31	29	29	22	32	29	143
8. Report a water leak	2	8	2	3	0	1	2	2	8
9. Report water theft	0	0	0	0	0	0	0	0	0
10. Payment Arrangement	30	119	33	38	29	24	30	31	154
b. Julale Satellite Office – Hagatna									
i. Total Customers Assisted :	232	928	257	303	272	255	336	285	1423
ii. Total Abandoned Requests :	21	82	33	22	23	30	22	26	130
iii. Average Wait Time:	10 minutes		16 minutes	10 minutes	11 minutes	17 minutes	14 minutes	14 minutes	
iv. Average Service Time:	13 minutes		10 minutes	9 minutes	11 minutes	10 minutes	9 minutes	10 minutes	
v. Breakdown by request type:									
1. Apply for water	43	173	52	42	44	50	55	49	243
2. Restore water cut for non payment	13	53	3	34	46	38	44	33	165
3. Terminate Water	11	42	25	19	14	9	27	19	94
4. Copy of Bill	53	210	63	67	35	38	49	50	252
5. Billing Dispute	75	299	85	82	86	72	90	83	415
6. Billing Dispute follow up	2	6	6	5	2	3	6	4	22
7. General Questions & Other	29	115	30	15	23	24	36	26	128
8. Report a water leak	2	8	0	1	1	1	1	1	4
9. Report water theft	0	1	0	0	0	0	0	0	0
10. Payment Arrangement	36	142	35	43	30	32	35	35	175
c. Upper Tumon Satellite Office – Upper Tumon									
i. Total Customers Assisted :	336	1343	292	396	375	320	434	363	1817
ii. Total Abandoned Requests :	10	40	8	16	35	19	30	22	108
iii. Average Wait Time:	12 minutes		14 minutes	16 minutes	12 minutes	17 minutes	15 minutes	15 minutes	
iv. Average Service Time:	11 minutes		15 minutes	10 minutes	11 minutes	10 minutes	12 minutes	12 minutes	
v. Breakdown by request type:									
1. Apply for water	68	271	63	67	75	57	57	64	319
2. Restore water cut for non payment	15	60	9	46	55	55	62	45	227
3. Terminate Water	22	86	30	32	31	22	44	32	159
4. Copy of Bill	61	243	43	81	61	65	65	63	315
5. Billing Dispute	96	385	84	137	118	109	143	118	591
6. Billing Dispute follow up	4	14	0	5	0	1	4	2	10
7. General Questions & Other	34	134	27	34	31	26	30	30	148
8. Report a water leak	3	13	3	2	4	2	8	4	19
9. Report water theft	0	1	0	0	0	0	1	0	1
10. Payment Arrangement	38	151	41	76	51	29	53	50	250

GWA Utility Services Division
Monthly Status Report
Month ending Feb 02, 2018

UTILITY SERVICES DIVISION ACTIVITIES:	WEEKLY AVERAGE DEC 2018	DEC 2018 MONTHLY TOTAL	WEEK ENDING: 1/5/2019	WEEK ENDING: 1/12/2019	WEEK ENDING: 1/19/2019	WEEK ENDING: 1/26/2019	WEEK ENDING: 2/2/2019	WEEKLY AVERAGE JAN 2018	JAN 2019 MONTHLY TOTAL
d. Customer Call Center									
i. Calls Received :	1594	6375	1308	1651	1832	1844	1941	1715	8576
ii. Calls Immediately Answered :	620	2481	587	682	814	600	788	694	3471
iii. Calls Abandoned	65	259	56	59	74	80	62	66	331
iv. Calls Handled by Voice mail:	908	3633	665	910	941	1163	1090	954	4769
v. Average duration of calls answered	5 minutes		6 minutes	4 minutes	5 minutes	6 minutes	5 minutes	5 minutes	
vi. Breakdown by request type:									
1. Apply/Terminate info.	14	56	23	16	9	13	29	18	90
2. Automated Telephone Call	2	6	1	4	2	2	1	2	10
3. Balance Inquiry	83	331	79	79	137	72	138	101	505
4. Call Back	90	360	99	51	126	127	95	100	498
5. Dispatch	19	74	12	35	27	21	36	26	131
6. Dispute	14	56	0	29	11	8	9	11	57
7. Follow up	67	268	73	50	78	106	80	77	387
8. General Questions & Other	122	488	193	109	180	124	182	158	788
9. GWA Staff	53	212	73	68	92	70	68	74	371
10. No Water	23	90	20	14	33	35	29	26	131
11. Online/Phone App Help	25	98	18	13	16	5	21	15	73
12. Pay by Phone	135	538	152	128	146	95	98	124	619
13. Pay Plan	52	207	61	51	64	45	56	55	277
14. Restore Non-payment	18	72	12	52	100	58	90	62	312
15. Secure/Unsecure Valve	7	28	4	6	10	15	12	9	47
16. Voice Mail	109	434	102	80	115	140	139	115	576
17. Water leak	3	13	9	5	10	6	8	8	38
e. Customer Emails:									
i. Emails Received :									
1. customers@guamwaterworks.org	43	170	46	56	36	52	44	47	234
Breakdown by request type (email):									
a. Apply for water	1	5	2	4	1	3	1	2	11
b. Terminate Water	3	11	2	0	1	1	2	1	6
c. Copy of Bill	1	4	2	3	1	1	3	2	10
d. Billing Dispute & follow up	12	47	12	12	8	12	13	11	57
e. General Questions & Other	16	65	19	25	16	21	18	20	99
f. Report a water leak	2	9	3	0	4	4	1	2	12
g. Report water theft	0	0	1	0	0	1	0	0	2
h. Online services inquiry	7	29	5	11	5	9	6	7	36
2. gwaservesme@guamwaterworks.org (realtors and prop mgrs)	0	0	0	1	0	0	0	0	1
ii. Emails Replied (both):	38	150	23	51	26	39	32	34	171
f. Saturday Services: 9AM TO 1PM ONLY									
i. VISITS: Breakdown by request type:									
1. Apply for water	6		2	5	6	1	4	4	
2. Restore water cut for non payment	1		0	1	2	7	3	3	
3. Terminate Water	3		3	4	1	2	3	3	
4. Copy of Bill	10		13	9	11	3	9	9	
5. Billing Dispute	10		14	7	15	10	12	12	
6. Billing Dispute follow up	0		0	0	1	0	0	0	
7. General Questions & Other	2		6	0	6	3	4	4	
8. Report a water leak	0		0	0	1	0	0	0	
9. Report water theft	0		0	0	0	0	0	0	
10. Payment Arrangement	7		12	7	3	10	8	8	

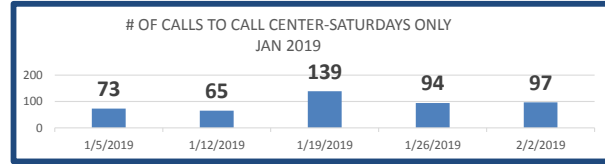


GWA Utility Services Division
Monthly Status Report
Month ending Feb 02, 2018

UTILITY SERVICES DIVISION ACTIVITIES:	WEEKLY AVERAGE DEC 2018	DEC 2018 MONTHLY TOTAL	WEEK ENDING: 1/5/2019	WEEK ENDING: 1/12/2019	WEEK ENDING: 1/19/2019	WEEK ENDING: 1/26/2019	WEEK ENDING: 2/2/2019	WEEKLY AVERAGE JAN 2018	JAN 2019 MONTHLY TOTAL

ii. CALLS TO CALL CENTER (Saturday services only):

1/5/2019	1/12/2019	1/19/2019	1/26/2019	2/2/2019
73	65	139	94	97



Dispute Resolution & Document Control

I. Dispute Resolution:

- Number of disputed accounts resolved:
- Number of disputed accounts under review:

II. Document Control:

- Number of field activities posted :
- Number of field activities pending:

		1/5/2019	1/12/2019	1/19/2019	1/26/2019	2/2/2019		
24	96	18	22	51	14	13	24	118
1506	6024	1507	1539	1463	1510	1510	1506	7529

402	1608	295	411	341	364	377	358	1788
512	2049	698	623	689	654	910	715	3574

Disconnect/Reconnect Unit

- Number of field activities received:
- Number of field activities completed:
- Number of field activities pending field action:

230	920	244	246	269	238	348	269	1345
255	1020	274	252	266	205	294	258	1291
5	18	4	2	4	1	2	3	13

Meter Reading Unit

I. Number of meters read:

- Electronically Read Meters:
- Manually Read Meters:
 - Unread meters (Meters scheduled to be read but not read):
 - Number of data logs received:
 - Number of data logs retrieved:
 - Number of data logs pending field action:
 - Communication Errors/Reprogramming requests:
 - Number of estimated readings (for the week):
 - Reasons for Estimations:
 - Cant locate meter:
 - Temporary Obstruction
 - Vicious Dog
 - Flooded meter
 - Corrective action requested (database corrections needed)
 - Possible changed out meter:
 - Communication/Programming error (code 92's):
 - Other:
 - Leaks detected on customer's private line:
 - Reverse Flow Detected
 - No Usage Detected
 - Tamper Code
- Electronic Read Percentage:

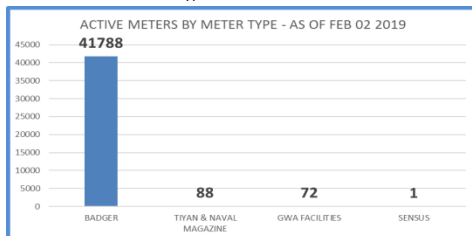
		1/5/2019	1/12/2019	1/19/2019	1/26/2019	2/2/2019		
8959	41550	6563	8771	13581	10138	2725	8959	41778
50	145	12	25	53	45	20	50	155
121	705	175	56	193	113	37	121	574
36	102	27	36	53	36	27	36	179
38	49	0	46	56	25	58	38	185
24	242	85	39	36	47	16	24	223
2	10	5	7	17	17	17	2	63
113	583	173	48	125	97	21	113	464

0	3	2	0	3	2	1	0	8
5	9	1	1	4	1	3	5	10
2	7	0	1	2	3	0	2	6
1	3	5	0	1	1	1	1	8
0	0	1	3	3	3	4	0	14
8	122	2	8	68	16	16	8	110
2	3	0	0	3	0	1	2	4
13	45	0	3	6	7	4	13	20
1000	5779	863	1230	2006	1258	295	1000	5652
122	514	49	96	64	136	15	122	360
28	2093	343	474	629	573	150	28	2169
518	92	21	15	32	24	12	518	104
99%		97%	99%	99%	99%	100%	99%	

Revenue Protection Unit

- Number of Inactive Still Consuming Reports rec'd & investigated:
- Number of Illegal Connection reports rec'd & investigated:
- Meter Replacement Project — Post 2010 Metron Farmer & Sensus Status Report :
 - Account & Meter Type Count :

0	1	0	0	3	0	0	1	3
0	1	1	0	1	0	2	1	4





Engineering Monthly Report February 2019

**Prepared By:
Thomas Cruz, P.E. Chief Engineer**

Table of Contents

Section	Description	Page
A	Summary Table of 2010, 2013 and 2016 Bond	3
B	Projects Procurement	5
C	CIP Water Section	8
D	CIP Wastewater Section	13
E	CIP Engineering Support	16
F	GIS Section	17
G	Permits Section	19
H	SRF Project Status Report	20

A. Summary Table of 2010, 2013 and 2016 Bond

Potable Water

CIP #	CIP Description	2010 Bond Allotment	% encumbered	% available	2013 Bond Allotment	% encumbered	% available	2016 Bond Allotment	% encumbered	% available
PW 05-01	Ground Water Disinfection	\$ 500,000.00	100.00%	0.00%	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 05-03	Santa Rita Springs Booster Pump Rehab Phase II	\$ -	N/A	N/A	\$ 100,000.00	100.00%	0.00%	\$ -	N/A	N/A
PW 05-05	*A Series Well Transmission Line	\$ 475,709.00	123.13%	-23.13%	\$ 369,846.00	100.00%	0.00%	\$ -	N/A	N/A
PW 05-06	Water Booster Pump Station	\$ 500,000.00	77.87%	22.13%	\$ 1,679,964.00	99.16%	0.84%	\$ -	N/A	N/A
PW 05-07	Meter Replacement Program	\$ 10,450,000.00	87.42%	12.58%	\$ 996,532.00	100.00%	0.00%	\$ 1,400,000.00	10.71%	89.29%
PW 05-08	Barrigada Tank Repair/Replacement	\$ 5,450,000.00	99.55%	0.45%	\$ 4,987,000.00	99.32%	0.68%	\$ -	N/A	N/A
PW 05-09	Leak Detection	\$ 200,000.00	100.06%	-0.06%	\$ 16,916.00	100.00%	0.00%	\$ 100,000.00	0.00%	100.00%
PW 05-10	Potable Water System Planning	\$ 200,000.00	100.00%	0.00%	\$ 624,000.00	100.00%	0.00%	\$ 876,294.00	100.00%	0.00%
PW 05-11	Implement Ground Water Rule	\$ 1,699,999.00	100.00%	0.00%	\$ 1,000,000.00	100.00%	0.00%	\$ -	N/A	N/A
PW 05-12	Brigade II (Ugum Lift) BPS Upgrade	\$ 1,900,000.00	18.89%	81.11%	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 05-13	Deep Well Rehabilitation	\$ 548,000.00	100.00%	0.00%	\$ 200,000.00	100.00%	0.00%	\$ 250,000.00	44.01%	55.99%
PW 05-14	New Deep Wells at Dow n Hard	\$ 485,743.00	100.00%	0.00%	\$ -	N/A	N/A	\$ 1,190,000.00	0.00%	100.00%
PW 05-15	Rehabilitation of Asan Springs	\$ 1,100,000.00	34.39%	65.61%	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 05-16	Master Meters	\$ 1,489,957.00	100.00%	0.00%	\$ 712,060.00	100.00%	0.00%	\$ 2,151,539.00	7.04%	92.96%
PW 09-01	Ugum Water Treatment Plant Intake	\$ 700,000.00	96.06%	3.94%	\$ 859,801.00	51.20%	48.80%	\$ -	N/A	N/A
PW 09-02	Water Wells	\$ -	N/A	N/A	\$ 3,030,029.00	69.90%	30.10%	\$ 2,500,000.00	0.00%	100.00%
PW 09-03	Water Distribution System	\$ 3,174,748.00	100.03%	-0.03%	\$ 10,912,453.00	95.02%	4.98%	\$ -	N/A	N/A
PW 09-04	Pressure Zone Realignment	\$ -	N/A	N/A	\$ 337,110.00	104.23%	-4.23%	\$ 1,141,000.00	64.94%	35.06%
PW 09-06	Central Water Distribution System 2005	\$ 775,002.00	100.00%	0.00%	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 09-08	Mechanical/Electrical Equipment	\$ 1,200,000.00	96.75%	3.25%	\$ 426,799.00	96.19%	3.81%	\$ -	N/A	N/A
PW 09-09	Water Reservoir Internal/External	\$ 2,150,000.00	83.72%	16.28%	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 09-10	Water Reservoir Internal/External	\$ -	N/A	N/A	\$ -	N/A	N/A	\$ 800,000.00	100.00%	0.00%
PW 09-11	Water System Reservoirs 2005 Improvements	\$ 1,050,000.00	100.00%	0.00%	\$ 13,878,000.00	100.00%	0.00%	\$ 58,830,170.00	26.75%	73.25%
PW 11-01	Distribution System Upgrades	\$ 474,159.85	100.00%	0.00%	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 11-02	Ugum Water Treatment Plant Reservoir	\$ -	N/A	N/A	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 12-01	Water Audit Program & Water Loss Control Plan	\$ 78,459.00	19.16%	80.84%	\$ -	N/A	N/A	\$ 550,000.00	70.83%	29.17%
PW 12-02	Production Plan / Reduce Navy Purchases	\$ 100,000.00	100.00%	0.00%	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 12-03	Hydraulic Assessment of Tanks	\$ 500,000.00	100.00%	0.00%	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 12-04	Agana Heights & Chaot Tanks	\$ 4,700,000.00	100.00%	0.00%	\$ 1,330,287.00	100.00%	0.00%	\$ 1,220,000.00	40.98%	59.02%
PW 12-05	Tank Major Repair Yigo #1, Mangilao #2, Astumbo#1	\$ 1,848,013.00	97.57%	2.43%	\$ 11,605,000.00	100.00%	0.00%	\$ 1,822,133.00	100.00%	0.00%
PW 12-06	Tank Replacement Piti & Hyundai	\$ -	N/A	N/A	\$ -	N/A	N/A	\$ 7,300,000.00	100.00%	0.00%
PW 12-07	Assessment of Malojlo Elevated & Yigo Elevated	\$ 200,000.00	100.00%	0.00%	\$ 485,117.00	100.00%	0.00%	\$ -	N/A	N/A
PW 12-08	Public Water System Asset Inventory/ Condition Assessment	\$ 100,000.00	100.00%	0.00%	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 12-09	Public Water System GIS & Mapping	\$ 50,000.00	100.00%	0.00%	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 14-01	Fire Hydrant Replacement Program	\$ -	N/A	N/A	\$ -	N/A	N/A	\$ 1,200,000.00	0.00%	100.00%
		\$ 42,099,789.85			\$ 53,550,914.00			\$ 81,331,136.00		

Wastewater

CIP #	CIP Description	2010 Bond Allotment	% encumbered	% available	2013 Bond Allotment	% encumbered	% available	2016 Bond Allotment	% encumbered	% available
WW 05-04	Wastewater System Planning	\$ 1,474,000.00	100.00%	0.00%	\$ 650,901.00	100.02%	-0.02%	\$ 312,983.00	100.00%	0.00%
WW 05-05	Wastewater Vehicles	\$ 235,000.00	100.00%	0.00%	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 05-07	NDWWTP - Chlorine Tanks	\$ 250,000.00	100.00%	0.00%	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 09-01	Lift station upgrades	\$ -	N/A	N/A	\$ 563,148.00	118.21%	-18.21%	\$ 1,714,755.00	28.78%	71.22%
WW 09-06	Wastewater Collection System Rep/ Rehabilitation	\$ 1,001,323.00	103.40%	-3.40%	\$ 660,313.00	110.04%	-10.04%	\$ 1,055,478.00	52.63%	47.37%
WW 09-08	Facilities Plan/Design for Baza Gardens WWTP	\$ 1,250,000.00	100.00%	0.00%	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 09-10	Facilities Plan/Design for Agat-Santa Rita WWTP	\$ 899,630.00	100.00%	0.00%	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 11-03	Baza Gardens STP Replacement	\$ 1,488,378.00	95.67%	4.33%	\$ 9,656,874.00	99.69%	0.31%	\$ 22,663,776.00	100.00%	0.00%
WW 11-04	Facilities Plan/Design for Umatac-Merizo WWTP	\$ 853,858.00	105.52%	-5.52%	\$ 371,699.00	100.00%	0.00%	\$ 252,105.00	100.00%	0.00%
WW 11-08	Agat/Santa Rita STP Replacement	\$ 2,217,700.00	100.06%	-0.06%	\$ 67,200,000.00	99.53%	0.47%	\$ 2,002,331.00	97.00%	3.00%
WW 12-01	Northern District WWTP Primary Treatment Upgrade	\$ 11,743,514.00	100.00%	0.00%	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 12-02	Biosolids Management Plan	\$ 200,000.00	100.00%	0.00%	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 12-03	Agana WWTP Interim Measures	\$ 11,300,000.00	101.77%	0.00%	\$ 673,000.00	100.00%	0.00%	\$ -	N/A	N/A
WW 12-04	I&I SSES Southern	\$ 800,000.00	100.00%	0.00%	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 12-05	I&I SSES Central	\$ 850,000.00	100.00%	0.00%	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 12-06	I&I SSES Northern	\$ -	N/A	N/A	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 12-07	Umatac Merizo Replacement	\$ 250,000.00	100.00%	0.00%	\$ -	N/A	N/A	\$ 20,800,000.00	99.06%	0.94%
WW 12-08	Wastewater System GIS & Mapping	\$ -	N/A	N/A	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 12-09	Wastewater Facility Back Up Power	\$ -	N/A	N/A	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 12-10	Wastewater System Asset Inventory	\$ -	N/A	N/A	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 17-01	Wastewater Sewer System Expansion	\$ -	N/A	N/A	\$ -	N/A	N/A	\$ -	N/A	N/A
WW 17-02	Northern District WWTP Secondary Treatment Upgrade	\$ 1,000,000.00	95.78%	4.22%	\$ -	N/A	N/A	\$ -	N/A	N/A
		\$ 35,813,403.00			\$ 79,775,935.00			\$ 48,801,428.00		

Electrical Engineering Support

CIP #	CIP Description	2010 Bond Allotment	% encumbered	% available	2013 Bond Allotment	% encumbered	% available	2016 Bond Allotment	% encumbered	% available
EE 05-02	SCADA Pilot Project	\$ 61,950.00	100.00%	0.00%	\$ -	N/A	N/A	\$ -	N/A	N/A
EE 09-01	Wastewater Pumping Station Electrical Upgrade	\$ -	N/A	N/A	\$ 99,861.00	100.14%	-0.14%	\$ -	N/A	N/A
EE 09-02	Electrical Upgrade - Water Wells	\$ 354,227.00	100.00%	0.00%	\$ 1,500,000.00	100.00%	0.00%	\$ -	N/A	N/A
EE 09-03	Electrical Upgrade - Water Booster	\$ -	N/A	N/A	\$ -	N/A	N/A	\$ -	N/A	N/A
EE 09-04	Electrical Upgrade - Water Booster	\$ -	N/A	N/A	\$ 977.00	100.00%	0.00%	\$ -	N/A	N/A
EE 09-05	Electrical Upgrade - Other Water	\$ -	N/A	N/A	\$ 60,700.00	100.00%	0.00%	\$ -	N/A	N/A
EE 09-06	SCADA Improvements - Phase 1	\$ 250,000.00	100.00%	0.00%	\$ -	N/A	N/A	\$ -	N/A	N/A
EE 09-07	SCADA Improvements - Phase 2	\$ 1,056,986.00	100.00%	0.00%	\$ -	N/A	N/A	\$ -	N/A	N/A
EE 09-08	SCADA Improvements - Phase 3	\$ 24,956.00	100.00%	0.00%	\$ 722,359.00	100.00%	0.00%	\$ 1,077,497.00	70.53%	29.47%
EE 09-09	SCADA Improvements - Phase 4	\$ -	N/A	N/A	\$ -	N/A	N/A	\$ 4,378,118.00	90.08%	9.92%
		\$ 1,748,119.00			\$ 2,383,897.00			\$ 5,455,615.00		

Miscellaneous Engineering Support

CIP #	CIP Description	2010 Bond Allotment	% encumbered	% available	2013 Bond Allotment	% encumbered	% available	2016 Bond Allotment	% encumbered	% available
MC 05-01	Laboratory Modernization	\$ -	N/A	N/A	\$ 1,171,465.00	99.89%	0.11%	\$ 1,127,000.00	100.00%	0.00%
MC 05-02	Land Survey	\$ 499,688.00	100.00%	0.00%	\$ 1,052.00	100.05%	-0.05%	\$ 1,260,524.00	100.00%	0.00%
MC 09-01	General Plant Improvements	\$ 7,241,000.00	82.32%	17.68%	\$ 2,441,737.00	32.63%	55.04%	\$ 1,543,757.00	97.07%	2.93%
MC 15-01	Information Technology Intergration Improvements	\$ -			\$ -			\$ 500,000.00	48.81%	51.19%
		\$ 7,740,688.00			\$ 3,614,254.00			\$ 4,431,281.00		

	2010 Bond Allotment			2013 Bond Allotment			2016 Bond Allotment
CIP Water	\$ 42,099,790			\$ 53,550,914			\$ 81,331,136
CIP Wastewater	\$ 35,813,403			\$ 79,775,935			\$ 48,801,428
CIP Electrical	\$ 1,748,119			\$ 2,383,897			\$ 5,455,615
CIP Miscellaneous	\$ 7,740,688			\$ 3,614,254			\$ 4,431,281
	\$ 87,402,000			\$ 139,325,000			\$ 140,019,460

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	\$87.402	96 **	\$82.270	94.13%	10.28
2013	\$139.325	59 **	\$135.877	97.53%	27.64
2015	\$140.019	29	\$84.237	60.16%	34.86
	* - End date November 2013 via CCU Resolution 06-FY2014				
	** - Includes month of January 2019				

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:

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

<u>BID PACKAGE</u> PW 09-02	New Well Construction (AG-10-Y-8 & AG-12)	
<50% Complete	Activities/Notes: 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.	

<u>RFP</u> PW 09-02	New Well Construction (Construction Management)	
<50% Complete	Activities/Notes: 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.	

BID PACKAGE PW 14-01	Fire Hydrant Replacement Phase I	
<50% Complete	Activities/Notes: Bid package being prepared.	
Project Description:	The work performed under this project consist of replacing all know dry barrel fire hydrants down to the lateral as well as any defective wet barrel fire hydrant. Where necessary the gate valve for the fire hydrant may also be replaced.	

BID PACKAGE PW 09-03, PW 09-04 AND PW 09-11	Northern/Southern Tanks (Santa Rita, Santa Rosa and Sinifa) Construction	
70% Complete	Activities/Notes: IFB advertised 010419 with bids schedule to be opened April 2, 2019.	
Project Description:	The work performed under this project procurement shall consist of Construction of a 1MG Santa Rosa reservoir and booster pump station, 1MG Santa Rita reservoir and 1MG Sinifa reservoir. Some piping work off site from the reservoir is also required to ensure the reservoirs functions optimally.	

BID PACKAGE OEA GRANT	Northern District WWTP Upgrade Clearing and Grading	
98% Complete	Activities/Notes: GWA evaluated lowest bidder (Ian Corporation) and deemed them responsive and responsible. Final contract transmitted to Ian for their signature.	
Project Description:	The work performed under this project procurement shall consist of clearing and grading the property, including the excavation of the ponding basin, in preparation for all vertical construction.	

BID PACKAGE PW 05-07	Groundwater Well Production Meter Replacement Project	
50% Complete	Activities/Notes: Design drawings and specification under review by GWA engineering.	
Project Description:	The work performed under this project procurement shall consist of replacing the production well meter and associated well head piping tree.	

RFP WW 12-03	Hagatna Wastewater Treatment Plant (HWWTP) Interim Disinfection	
70% Complete	Activities/Notes: RFP advertised 2/4/19 with proposals due 2/22/19.	
Project Description:	Conduct a feasibility and pilot study for the use of an interim disinfection process using Peracetic Acid (PAA) for our chemically enhanced primary treatment facility at the Hagåtña Wastewater Treatment Plant (HWWTP).	

<u>BID PACKAGE</u> OEA GRANT	NDWWTP Upgrade to Secondary Project	
70% Complete	Activities/Notes: IFB advertised January 11, 2019. Step 1 due 022019, Step 2 due 051019.	
Project Description:	The work performed under this project procurement shall consist of constructing new oxidation ditches, clarifier, headworks at the newly acquired property adjacent to the NDWWTP as well as a new disinfection facility within the existing NDWWTP. Some structures at the existing NDWWTP will undergo improvements works and a 16-inch watermain will be extended to the entrance of the existing plant.	

BOX KEY FOR PROJECT:

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

C. CIP Water Section

INSPECTION CIP PW 05-02	Inspection & Maintenance Repairs to GWA Island-Wide Steel Water Tank Reservoirs Phase 2 (DCA)	Start Date: April 2010
80% Complete	Activities/Notes: GWA awaiting from A/E the new bid package for by-pass and repairs.	Completion Date: Anticipate December 2021
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.	

DESIGN CIP PW 05-12	Brigade II BPS Upgrade (EM Chen)	Start Date: April 2012
100% Complete (Basis of Design) 90% (Design)	Activities/Notes: GWA received 100% design submittal. Review comments due in a couple weeks.	Completion Date: Design services during construction December 2020
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 meet system head requirements.	

DESIGN CIP PW 12-05	Yigo and Astumbo 2MG Tank Design Project (Lyons)	Start Date: September 2013
99% complete	Activities/Notes: Design firm to provide RFI support during the construction.	Completion Date: January 2016
CO 9 (b)(4)	Engineering design services	
Project Description:	Develop the construction documents for two (2) 2.0 million-gallon (MG) nominal capacity concrete reservoirs in the Yigo service zones and one (1) 2.0 MG reservoir in the Astumbo service area. The design services will consist of preparation of plans, specifications, and estimates (PS&E), including Basis of Design, design calculations, construction schedule, topographical survey, property mapping, geotechnical engineering, cultural resource inventory and evaluation of historic resources, hazardous materials survey, construction documents, design	

	drawings in Auto CAD (latest version), and relevant permits. Other services will include construction bid support service, meetings, and response to request for interpretation/information during construction. The consultant is required to incorporate and modify existing GWA concrete reservoir specifications to meet the project objective.
--	---

DESIGN PW 09-11	Northern and Southern Guam Reservoir Design (TG Engineers)	Start Date: May 2015
65% Complete	Activities/Notes: Santa Rosa, Sinifa and Santa Rita design to be packaged in one IFB. Package out to bid on 1/4/19. Inarajan – Land procurement second site related to new BPS's still on-going. Ugum – GWA working to acquire two adjacent properties. Fee negotiations finalized, escrow opened.	Completion Date: Update: Due to property acquisitions issues for Inarajan and Ugum, design completion 6 months after property issue resolved.
CO 29 (b)(4)	Engineering design services	
Project Description:	The design services will consist of preparation of plans, specifications, and estimates (PS&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.	

DESIGN PW 12-04	Central Guam Reservoirs Design (GHD Inc.)	Start Date: May 2015
65% Complete	Activities/Notes: Chaot #2 – Change Order with AIC on going. GWA still waiting for time extension request. Tumon #2 – tank under construction. Hyundai – tank under construction. Piti – GWA still evaluating alternative solutions to storage needs in Piti area. Manenggon – 90% design near complete. Tumon #1 – GWA working on land issues.	Completion Date: Update: Due to property acquisitions issues for Piti and Tumon #1, design completion 6 months after property issue resolved.
CO 29 (b)(4)	Engineering design services	
Project Description:	The design services will consist of preparation of plans, specifications, and estimates (PS&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 & Tumon #1.	

CONSTRUCTION PW 09-03	Line Replacement Phase IV (Giant Construction)	Start Date: 02/14/16
92% Complete	Activities/Notes: Contractor complete work at Mataguac, GPA fuel farm in Piti and Chalnn Koda complete. On-going Chalan Famha.	Completion Date: 03/31/19 per approved Change Order.
	Construction Services	
Project Description:	The project is intended for a contractor to replace existing water lines that have been found by operations to be leaking and/or are causing service delivery to less than what GWA is required to provide. The project will replace water mains and ten known locations throughout the island and there is a component within the bid where line replacement work for unknown locations is accounted for.	

DESIGN PW 05-15	Asan Spring Rehabilitation Design (HDR)	Start Date: August 24, 2016
95% Complete	Activities/Notes: GWA received 100% design drawings. Design under review. Property use issue remains unresolved. GWA received A/E change order proposal to assist with permitting required for use/easement of NPS property and endangered species mitigation.	Completion Date: Design services during construction estimated June 2020
	Engineering design services	
Project Description:	<ul style="list-style-type: none"> - 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. - Review and validate the current property boundary information to confirm the available space for the project development. - Perform an environmental impact study and prepare all required permits as needed. - Perform an archeological and historical resources study to identify potential impact to the project, prepare all required permits as needed. - 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. - 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. - Identify the existing and projected service area, period of design. - Identify and recommend conceptual water treatment system. - 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. 	

CONSTRUCTION PW 09-11, PW 12-05	Yigo/Astumbo Tank Construction (Pernix)	Start Date: 12/1/16
98% Complete	Activities/Notes: Yigo #1: tank on-line, final punch list on-going, pump station not commissioned yet. Yigo #2: tank on-line, punch list on-going. GWA received inspection report for existing 2.5MG steel tank, cost for tank repairs under evaluation. GWA working to Change Order repair work for Astumbo #2 steel tank. New Concrete Astumbo #1 was placed on line however remaining work include electrical and waterline.	Completion Date: 10/31/18 (LD are being totaled)
	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.	

CONSTRUCTION MANAGEMENT PW 09-11, PW 12-05	Yigo/Astumbo Tank Construction Management (GHD)	Start Date: December 2016
98% complete	Activities/Notes: Processing submittals and on-site inspection	Completion Date:
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.	

CONSTRUCTION MANAGEMENT PW 12-04-11, PW 12-06 AND PW 09-11	Central Tank Phase I (Chaot #2, Tumon #2, Hyundai) Construction Management (TG Engineers, PC)	Start Date: December 2017
25% complete	Activities/Notes: Conducting field inspection, reviewing submittals from contractor.	Completion Date: Due to changes with AIC contractor CM services to extend to 04/31/20
NA	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.
--	--

CONSTRUCTION PW 12-04, PW 12-06 AND PW 09-11	Central Tank Phase I (Chaot #2, Tumon #2, Hyundai) Construction (AIC)	Start Date: 02/8/18
25% Complete	Activities/Notes: Nissan tank site: concrete for foundation work on-going. Hyundai tank site. Contractor disinfecting and commission temporarily tank. GWA executed Change Order to AIC for construction of Chaot #2 tank. Waiting for permit.	Completion Date: 04/31/20
	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.	

CONSTRUCTION MANAGEMENT PW 09-11	Northern and Southern Tank Phase I (Santa Rosa, Sinifa, Santa Rita) Construction Management (GHD)	Start Date: April 2018
0% Complete	Activities/Notes: Providing constructability review for Santa Rosa Tank.	Completion Date: June 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 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.	

DESIGN CIP PW 05-12	Pressure Zone Realignment and Tank Repair-Replacement (GHD)	Start Date: August 2018
10% Complete Design will be done in Phases. Phase 1 - 90% (Design)	Activities/Notes: GWA has reviewed the 90% submittal from the 1st Phase (six sites). Design firm proceeding to 100%.	Completion Date: Due to property acquisition issues GWA anticipate December 2020
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.	

D. CIP Wastewater Section

DESIGN WW 11-08	Agat-Santa Rita WWTP Replacement (DCA)	Start Date: October 2014
100% Design	Activities/Notes: CCU approved funding increase for design services with Change Order executed 012819. Design services during construction work on-going.	Completion Date: Nov. 2015 (design); April 2019 (design services during construction)
CO 11	Engineering design services	
Project Description:	The engineering design consultant is required to design a new wastewater treatment facility that will meet secondary treatment limits. The new facilities will incorporate provisions for redundancy to improve reliability and facilitate operations and maintenance activities at the existing facility	

CONSTRUCTION MANAGEMENT WW 11-08	Agat Santa Rita WWTP CM (GHD)	Start Date: September 2015
100% (PH 1) 100% Complete (PH 2, Part 1) 93% Complete (PH 2, Part B)	Activities/Notes: CCU approved funding increase for CM services with Change Order executed 012819. CM work on-going.	Completion Date: Completion date to coincide with construction completion.
CO 11	Construction Management services	
Project Description:	The work performed under this project procurement shall consist of Construction Management and Inspection Services for the construction of the Agat Santa Rita WWTP Phase II project. GWA plans to replace the existing wastewater treatment plant for a new plant that can meet permit limits. 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.	

CONSTRUCTION WW 11-08	Agat Santa Rita WWTP Phase II (Sumitomo Construction)	Start Date: January 2016
Part 1 of Phase II- 100% Complete Part 2 of Phase II- 83% complete	Activities/Notes: Contractor still working on headworks, aerobic digester, equalization basin, admin and maintenance buildings.	Completion Date: Phase A: 03/15/17 Phase B: 12/31/17 will not be met, March 2019 projected
CO 11	Construction services	
Project Description:	This project includes construction of the head works, clarifier, oxidation ditches and UV disinfection and administration facilities. Rehabilitation work at the existing WWTP will also occur to ensure the wastewater can be pumped to the new plant. The new plant will also tie into the Tiplao SPS.	

DESIGN WW 09-08, WW11-03	Baza Gardens Cross Island Sewer Design (DCA)	Start Date: 02/05/16
100% Design 75% Construction Services	Activities/Notes: DCA providing engineering services during construction.	Completion Date: Delayed, April 2019 projected
CO 11	Engineering design services	
Project Description:	The intent of this project for an engineering firm to prepare design drawings and specification for a sewer conveyance from the Baza Garden WWTP to the new Agat Santa-Rite WWTP. The design will take into account growth in the Baza Gardens/Talofoto areas as wells as new connection along the Route 17 route.	

DESIGN WW 09-06	Bayside SPS Improvements Design (EMPSCO)	Start Date: July 29, 2016
100% Design 0% Construction Services	Activities/Notes: Construction bidding will commence once property issues are resolved.	Completion Date: Due to issue with ACOE anticipate December 2017 for design only.
	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.	

CONSTRUCTION WW 09-08, WW 11-03	Baza Gardens Cross Island Road Sewer Conveyance Construction Phase I (BME and Sons)	Start Date: October 2016
98% Complete	Activities/Notes: Gravity and new SPS active; Work to complete punch list items on-going.	Completion Date: January 2019
	Construction services	
Project Description:	The work performed under this project consist of construction of 14,714' of gravity main, 2,767' of force main and sewer pump station #3 next to the Aplacho River in Santa Rita.	

CONSTRUCTION MANAGEMENT WW 09-08 WW 11-03	Baza Gardens Cross Island Road Sewer Conveyance (Construction Management) (SSFM)	Start Date: December 5, 2016
80% Complete	Activities/Notes: GWA working to execute Change Order for additional services related to Phase II delays.	Completion Date: September 2018 to be extended through April 2019
	Construction Management services	
Project Description:	The work performed under this project shall consist of Construction Management and Inspection Services for the construction of gravity main, force mains and sewer pump station as well as an equalization basin at the Baza Garden WWTP.	

CONSTRUCTION WW 09-08, WW 11-03	Baza Gardens Cross Island Road Sewer Conveyance Construction Phase II (BME and Sons)	Start Date: March 2017
97% Complete	Activities/Notes: Gravity and new SPS active; Work to complete punch list items on-going. SCADA system and comm network work on-going.	Completion Date: January 2019
	Construction services	
Project Description:	The work performed under this project consist of construction of 1,767' of gravity main, 14,400' of force mains and sewer pump station #2 along Route 17.	

CONSTRUCTION WW 09-08, WW 11-03	Baza Gardens Cross Island Road Sewer Conveyance Construction Phase III (Sumitomo Construction)	Start Date: June 2017
55% Complete	Activities/Notes: New SPS active. GWA negotiating deduction in of EQ basin.	Completion Date: April 2019
	Construction services	
Project Description:	The work performed under this project consist of construction of, but not limited to, 10,481' of force mains and sewer pump station at existing WWTP, equalization tanks, stand-by generator, improved headworks, grit removal system, and associated equipment.	

CONSTRUCTION WW 11-04	Umatac Merizo WWTP Design Build Improvements Project (CoreTech)	Start Date: June 2017
100% Design 65% Construction	Activities/Notes: <ul style="list-style-type: none"> • Construction Oversight • Headworks gates were to be embedded, but structural design did not include embedment. Contractor proposing alternate which may require chipping concrete and cutting rebar. RFI provided 1/14/19. • DN Tank shot-creting completed. • UV structure and lagoon effluent box rebar being installed. Cut epoxy bars are being repaired after inspection. • Change Proposals: • Compensation request for multiple weather delays anticipated. • CO #5 - unanticipated rock excavation - evaluated, reviewed with GWA and response sent to CHL. Change Order to follow if CHL agrees with GWA decision. • CO #6 - unanticipated drain to capture groundwater flow in tank area and overland flow terraces - evaluated, reviewed with GWA and response sent to CHL. Change Order to follow if CHL agrees with GWA decision. • CO #7 - permitting, GWA delays, and delay due to rock and water infiltration - evaluated, 	Completion Date: August 2019

	<p>reviewed with GWA and response sent to CHL. Change Order to follow if CHL agrees with GWA decision.</p> <ul style="list-style-type: none"> • Sheet piles used adjacent to large lagoon for the construction of the UV basin due to seepage from lagoon. Contractor will submit a change order for this. Should have been anticipated in bid. 	
	Construction services	
Project Description:	The project is intended to improve the aeration basin, construct a new sewer pump station, regrade the overland field, construct a new effluent storage tank and disinfection facility. The overland percolation basin will undergo regarding work to ensure appropriate distribution of effluent through the whole basin.	

CONSTRUCTION MANAGEMENT WW 11-04	Umatac Merizo WWTP Design Build Improvements Project (SSFM Inc)	Start Date: September 7, 2017
65%	Activities/Notes: Continuing on-site inspection of field activities.	Completion Date: August 2019
	Construction Management services	
Project Description:	The work performed under this project procurement shall consist of Construction Management and Inspection Services for the improvements works at the aeration basin, new sewer pump station, overland field improvements, effluent storage tank. 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.	

DESIGN WW 09-01	Yigo SPS Flood Protection and Rehabilitation Design (AECOM)	Start Date: August 2, 2018
60% Complete	Activities/Notes: GWA awaiting 90% design submittal which is due on February 19, 2019.	Completion Date: June 2019
	Engineering design services	
Project Description:	The work performed under this project procurement shall consist of a design services to implement storm water mitigation measures to protect the facility during extreme weather as well as rehabilitate the facility to provide better redundancy and operate efficiently.	

E. CIP Engineering Support

DESIGN EE 09-08	SCADA System for Water and Wastewater Facilities Phase A-1 (AECOM)	Start Date: June 2015
100% complete (design) 0% Services during construction	Activities/Notes: AECOM to provide assistance during bidding process.	Completion Date: November 2017 - Design January 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.	

CONSTRUCTION EE 09-08, EE 09-09	SCADA Phase A1 Construction (G4S Security)	Start Date: July 13, 2018
5% construction	Activities/Notes: Contractor submitted recovery plan that estimates completion in December 2019. GWA working to re-establish project period with G4S that accounts for delays past the original completion date.	Completion Date: December 2019
	Construction services	
Project Description:	The work performed under this project procurement shall consist of Construction of SCADA ready instrumentation at several water and waste water facilities throughout the island.	

CONSTRUCTION MANAGEMENT EE 09-08, EE 09-09	SCADA Phase A1 Construction Management (GHD)	Start Date: August 29, 2018
5%	Activities/Notes: Reviewing material submittals.	Completion Date: December 2019
	Construction Management services	
Project Description:	The work performed under this project procurement shall consist of Construction Management and Inspection Services for the installation SCADA ready instrumentation at several water and waste water facilities throughout the island. 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.	

F. GIS Section

MAPPING MC 05-02	Island Wide Survey- (Duenas, Camacho & Ass.)	Start Date: December 2007
99% complete	Activities/Notes: Two maps are pending due to issues associated with the property outside of GWA control. Notwithstanding, GWA will work to deduct the current balance of about \$4k from the contract to move to close the project.	Completion Date: April 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.	
MAPPING MC 05-02	Island Wide Survey PH II - (Duenas, Camacho & Ass.)	Start Date: August 30, 2017
65% complete	Activities/Notes: First set (25): from previous remaining 15 that were remaining, seven have been submitted to DLM, and eight back to DCA for minor revision. Second set (20): from previous remaining 10 property maps GWA still waiting for DCA to revised signatory block due to new administration. Third set (20): 20 maps submitted to GWA for review and comment.	Completion Date: June 2019
	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 2019


	2018/2019	2019
Description	Dec/Jan	Feb
Building Permit	36	2
Occupancy Permit	1	13
New Installation	20	4
Sewer Application	0	3
Sewer Inspection	1	1
Private Utility Acceptance	0	0
Relocation of Water Meter	2	1
Tapping-Water	13	1
Tapping-Sewer	1	1
Clearance-Water	27	11
Clearance-Sewer	27	11
Highway Encroachment	1	9
Verification of Utilities	19	3
Fire Flow Test	4	1
Schedule Water Outage	1	0

H. SRF Project Status Report

- 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 project active.

GWA Work Session - February 19, 2019 - DIVISION REPORTS

Project	Project Description	Project Manager	Phase		Start Date (NTP Issued)	Anticipated Completion Date	Contract Amount (+) change orders	Contractor	Status as of 1/15/19
1	Northern District SSES & I/I Study	J. Davis	Design	1	10/10/2014	2/29/2016	\$ 792,979.97	Stanley	100% Complete.
			Construction				The project does not involve construction.		
			Const. Mgmt						
2	Southern SSES Rehabilitation (Agat-Santa Rita- Umatac-Merizo)	Brown & Caldwell	Design				The design was previously completed under bond funding.		
			Construction	1	10/30/2015	2/28/2017	\$ 1,170,583.82	Reliable Builders	Warranty work complete .
			Const. Mgmt	1	11/10/2015	3/30/2017	\$ 226,980.23	TG Engineers	CM Services complete.
3	Asan-Adelup- Hagatna RT1 Sewer Line Rehabilitation and Replacement	Brown & Caldwell	Design	2	12/11/2015	3/30/2017 for Design requirements	\$ 1,780,210.00	HDR	Route 1 rebid: HDR to provide services during bid process. .
			Construction	2	10/16/2018	12/30/2019	\$6,275,782.88	InfraTech	<ul style="list-style-type: none"> • InfraTech now has HEP; needed for CCTV inspections. InfraTech working to resolve how to conduct CCTV inspections due to surcharged lines. Still working on building permit; currently with GEPA, pending final submittals. • Current issue of surcharged lines due to bypass near Asan PS; stressing to contractor the need either replace that line ASAP or figure out a way lower the surcharging to less than 25% of pipe and prevent further delays.
			Const. Mgmt	2	8/3/2017	8/3/2019	\$ 870,610.41	DCA	o CM working with contractor to work through permitting, submittals, and schedule.
4	RT2 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	SSFm providing services during bidding process as well as construction phase.
			Construction	3	8/31/2017	10/1/2018	\$ 4,554,451.00	ProPacific	<ul style="list-style-type: none"> • PPBC having issues paying workers; trying to assist with invoices for cash flow. • PPBC still needs to complete bench/channel on SMH #8, #9 & #10. • Installing pipe between SMH #8 to 9; slowed down due to force main. • PPBC continues discharging/dewatering water to sewer; GWA metering discharge. GWA still has not ordered a stop. • Contractor Invoice #12 submitted to GWA (1/24), paid 2/13.
			Const. Mgmt	3	9/19/2017	10/1/2018	\$ 584,725.00	TG Engineers	• TGE to calculate the amount due to the contractor outside of trench boundaries up to current work completed.

GWA Work Session - February 19, 2019 - DIVISION REPORTS

5	Brown & Caldwell Project Management	Brown & Caldwell to provide program management services and support.	T. Cruz	Design	4	3/24/2015	2/28/2019	\$ 2,640,220.00	B&C	Project underway.
				Construction				The project does not involve construction.		
				Const. Mgmt						
6	Wastewater, Water and Source Water System Master Plan Upgrade	Update of the existing water and wastewater master plan while factoring in military integration and secondary treatment plant options.	Brown & Caldwell	Design	5	7/6/2015	01/30/2018 (revised due to financial workshop)	\$ 2,623,300.00	B&C	Project complete
				Construction				The project does not involve construction.		
				Const. Mgmt						
7	Groundwater Wells Rehabilitation (F-3, A-2, A-7, A-12, D-5)	Rehabilitation of existing deep wells and/or in cases where pipe column needs replacing, wells will be re-drilled. The deep wells to be rehabilitated are A-2, A-7, A-12, D-5, & F-3.	Brown & Caldwell	Design	6	5/27/2016	2/28/2018 (for design only)	\$ 1,758,247.00	AECOM	• Design services during construction on hold until construction IFB is issued
				Construction		8/15/2019	8/30/2020			GWA has received SRF grant 96902619 therefore GWA to work to schedule procurement for construction activities by May 2019 with actual start occurring sometime in August 2019.
				Const. Mgmt		8/15/2019	8/30/2020			• Draft CM scope submitted to GWA.
8	Tumon Sewer Hot Spots	Investigation, evaluation, and repair of possible solutions, to long plaguing issues where sewer overflows are known to occur in Tumon San Vitores.	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		12/1/2018	12/31/2019			Given that the bids received for just the Tamuning Hotspots have come in much higher than the engineers cost estimates GWA is planning to separate the bids for Tumon Hotspots from the Tamuning bids
				Const. Mgmt	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.
9	Critical Sewer Pump Stations (7 stations)	Rehabilitation of various components of 7 pump stations that were identified to by the CDM design team: Macheche, Ypaopao, Astumbo 1, Fujita, Santa Ana, Southern Link, and Route 1.	CDM	Design				The design will be incorporated into the design/build package.		
			J. Davis	Design/Build	1	8/8/2016	3/30/2018	\$ 1,542,979.01	ProPacific	Design Build complete
				Const. Mgmt	4	9/9/2016	3/30/2018	\$ 329,353.52	Stanley	CM complete
10	Sewer Pump Station High Water Alarm Systems (20 stations)	This project will design and installed telemetry equipment/SCADA type alarms that will alert when pump station failure occurs.	C. Yam	Design				The design will be incorporated into the design/build package.		
				Design	8	8/12/2016	02/30/2017	\$ 183,171.00	AECOM	Design complete
				Construction	4	4/5/2017	9/30/2017	\$ 1,444,888.00	Pacific Rim	Project complete
				Const. Mgmt	5	02/30/2017	9/30/2017	\$ 195,269.00	EMSPCO	CM work complete

GWA Work Session - February 19, 2019 - DIVISION REPORTS

11	Sewer Pump Station Backup Power (2 stations)	Construction of the housing and installation of new generators for the Casimero pump station (Mongmong) and the Namo pump station (Yona central).	B. Cruz	Design				The design will be incorporated into the design/build package.		
				Design/Build	2	6/24/2016	9/30/2017	\$ 362,692.53	ProPacifc	Design Build project complete.
				Const. Mgmt				B. Cruz is the construction manager.		
12	RT4 Relief Sewer Line Rehabilitation and Replacement	Rehabilitation of sewer lines that are located from Agana McDonalds to Marine Drive that have been known to overflow due to structural issues.	Brown & Caldwell	Design	9	3/1/2016	4/22/2017	\$ 794,000.00	AECOM	AECOM to provided services during bidding process.
				Construction	5	9/3/2018	12/26/2019	\$ 3,998,688.00	Insituform	<ul style="list-style-type: none"> Contractor working through permitting. Working on submittals with CM. Insituform communicating with PPBC on scheduling work sequence.
				Construction	6	9/25/2018	12/19/2019	\$ 3,407,848.00	ProPacifc	<ul style="list-style-type: none"> Contractor working through permitting. Working on submittals with CM. PPBC communicating with Insituform on scheduling work sequence.
				Const. Mgmt	6	11/15/2018	12/31/2019	\$ 702,678.13	EMPSCO	Planning and coordination on-going to ensure project site managed accordingly.
13	Groundwater Wells Rehabilitation (D-3, D-17, D-18, D-22, M-9)	Rehabilitation of existing deep wells and/or in cases where pipe column needs replacing will be re-drilled. D-3, D-17, D-18, D-22, and M-9.	Brown & Caldwell	Design				The design was previously completed under bond funding.		
				Construction	7	8/19/2016	3/30/2018 (completion date under analysis)	\$ 6,158,240.67	Pacific Rim	<ul style="list-style-type: none"> Main issues remaining: Contractor submitted a large number of Change Order Requests - approximately six hundred thousand dollars - Reviewing with EA. Some may be justified - expect a lot of them not justifiable. USSI completed the harmonics testing. Report submitted to EA. D-03 permit information application was completed. Waiting on update from Ron T. They still need to complete the following items on D-03 per the original contract. - Final control check out. There were more chlorine equipment issues due to backflow from the system into the regulators apparently due to a faulty injector. PRC is working to correct this issues for commissioning.
				Const. Mgmt	7	3/22/2016	3/30/2018 (completion date under analysis)	\$ 1,041,722.56	EA	CM continuing to coordinate punch list items with contractor.

GWA Work Session - February 19, 2019 - DIVISION REPORTS

14	Southern SSES Sewer Rehabilitation (Baza Gardens-Talofofo)	Rehabilitation of segments of sewer lines in Windward Hills, Talofofo area where the Sanitary Sewer Evaluation Study recommends rehabilitation.	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	<ul style="list-style-type: none"> • Lift Station Proposal: • BC developing a performance specification and no-cost change order - Sent documents to PPBC for review and comment on Wednesday, 01/23/2019. - Location will be off of road centerline (i.e., off to the side) • Building rights on Easement - From Kelly: • "After further review of the maps, I am staying with my earlier general opinion on what can be constructed by GWA within the 20' easement you have mapped. As long as the improvement doesn't unnecessarily impede the use of the property, isn't a nuisance and remains within the 20' easement, GWA can place the lift station there." • "Generally, if there are no restrictions in the reservation, then the reservation holder can build pretty much whatever they need. We have buildings, plants, lift stations, tanks and GPA has power lines, etc. If we stay within our easement boundary, I don't know of any right on the part of the landowner to restrict what GWA wants to build." - GWA to inform property owner of pending project • USEPA Concurrence - Working with GWA planning to obtain written authorization to use remaining project funds for this lift station from USEPA - USEPA: "project will need an environmental review" • Assisting GWA Planning group • PPBC submitted a "90%" drawing submittal on 12/21/2018 - BC informed PPBC that a formal review will not be conducted until change order is executed • Baza Gardens: • All laterals are "reinstated" and CCTV completed (per email from PPBC on 11/29/2018). - Post-CIPP CCTV videos received from PPBC on 12/17/2018. - Several deficiencies observed that will require repair • Submitted comments to PPBC on January 7, 2019 • PPBC has 45 calendar days to complete deficiencies • PPBC promised to submit by EOW (2/1/2019). • Talofofo: Work is complete.
				Const. Mgmt	8	7/29/2016	5/28/2017	\$ 347,945.93	EMPSCO	<ul style="list-style-type: none"> • PMO with EMPSCO on 1/18/2019 to discuss remaining work on the project. • EMPSCO to submit a change order proposal
15	Tamuning Sewer Hot Spots	Sewer rehabilitation for lines at Winner Apartments, Segund Leon Guerrero, and behind Guam Premium Outlets.	Brown & Caldwell	Design	10	9/9/2016	10/31/2017 (for design only)	\$ 663,629.00	TG Engineers	<ul style="list-style-type: none"> • TGE to provide engineering services during bid process.
				Construction		12/1/2018	12/31/2019			<ul style="list-style-type: none"> • Procurement 55%: GWA received proposed bid "repackage" and is under review. This project will be "transitioned" from the PMO to GWA engineering thus transitioning plan required.
				Const. Mgmt	9	3/31/2019	3/31/2020	\$531,000.75	Am Orient	<ul style="list-style-type: none"> • Procurement 100%: Contract fully executed. CM services to be on hold until bidding restarted.

GWA Work Session - February 19, 2019 - DIVISION REPORTS

16	Talofofo Sewer Pump Stations (4 stations)	Design and construction of 4 sewer lift stations in the Talofofo village where sewer lines are installed but never completed.	J. Davis	Design (for Talofofo and Chalan Pago PS)	11	8/17/2016	11/30/2017	\$ 493,818.86	EMPSCO	Talofofo Pump Station design /bid package received.
				Construction	9	12/1/2018	12/31/2019	\$2,363,718	Giant Const.	Contractor submittals on-going. GWA awaiting for construction schedule.
				Const. Mgmt		12/1/2018	12/31/2019			GWA Engineering will management construction management tasks.
17	Chalan Pago Sewer Pump Station	Design and construction of sewer lift stations and gravity lines in Scott Laguana, Santa Cruz Street Chalan Pago.	J. Davis	Design		8/17/2016	11/30/2017	The design will be included with the Talofofo Pump Station design project.		
				Construction		3/15/2019	3/30/2020			
				Const. Mgmt		3/15/2019	3/30/2020			
18	Water Hydraulic Model (SCADA ready instruments to update Model)	Design and construction of instrumentation at key water sites in the Barrigada service area necessary to update GWA Water hydraulic model.	Barbara Cruz	Design	12	8/3/2016	3/15/2017	\$ 523,268.00	GHD	Design complete.
				Construction		6/15/2019	6/30/2020			USEPA Grant Funding FY18 in hand. Anticipate advertising construction April 2019.
				Const. Mgmt		6/15/2019	6/30/2020			USEPA Grant Funding FY18 in hand. Anticipate advertising CM April 2019.
19	Macheche Hill Sewer Rehabilitation/ Replacement	Rehabilitation of sewer lines on Macheche road. Segments of this sewer line has collapsed recently and is consider a high priority.	J. Davis	Design-Build	3	8/29/2016	3/30/2018	\$ 2,202,545.47	Giant Const.	Construction project complete.
				Const. Mgmt	10	9/16/2016	3/30/2018	\$ 379,994.38	Am Orient	CM work complete.
20	Asan-Adelup-Hagatna Rt. 1 Sewer Line Rehabilitation and Replacement Emergency Repairs	Rehabilitation of sewer line in Asan that collapsed and which is current fitted with a temporary pumping system.	Brown & Caldwell	Design				Design cost covered under Project 3 above.		
				Construction	10	3/8/2017	12/30/2017	\$ 2,470,658.00	Pacific Rim	• CO#4 with Finance approved (2/1). Certificate of Substantial Completion sign by GWA (1/24). Submitted asset summary (2/12). Final Invoice #8 with Finance.
				Const. Mgmt	11	1/24/2017	12/30/2017	covered under Project 3	HDR	CM work complete.
21	Valve Maintenance Equipment Trailer (2 each)	Acquire two sets of valve exercise equipment mounted on trailers to be used to exercise existing valves in the distribution system as a means of maintaining the valves functionality so the valves to not "freeze up" and required replacement	Grants/Operations	Equipment	1			\$ 167,814.94		Complete

GWA Work Session - February 19, 2019 - DIVISION REPORTS

22	Heavy Duty Trucks to Haul Valve Maintenance Equipment Trailer (2 each)	Acquire two heavy duty trucks with extended to pull the valve exercise equipment trailer	Grants/Operations	Equipment	2			\$ 139,790.00	Triple J	Complete
23	Project Advertisement	Each IFB or RFP requires advertising	Engineering/Procurement	MISC	1			\$ 25,172.50	PDN/Post	On-going

**GUAM WATERWORKS AUTHORITY
JANUARY 31, 2019
FINANCIAL AND RELATED REPORTS
TABLE OF CONTENTS**

	SCHEDULES	PAGE
BALANCE SHEET	A	2
INCOME STATEMENT MTD ACTUALS VS MTD BUDGET	B	3
INCOME STATEMENT MTD ACTUALS FY19 VS FY18	C	4
INCOME STATEMENT YTD ACTUALS VS YTD BUDGET	D	5
INCOME STATEMENT YTD ACTUALS FY19 VS FY18	E	6
BOND COMPLIANCE	F	7
SCHEDULE OF CASH RESTRICTED/UNRESTRICTED	G	8
STATEMENT OF CASH FLOWS	H	9
AGING REPORT - GOVERNMENT ACCOUNTS	I	10
SCHEDULE OF SERIES 2013 BOND STATUS	J	11
SCHEDULE OF SERIES 2014 REFUNDED BOND STATUS	K	12
SCHEDULE OF SERIES 2016 BOND STATUS	L	13
SCHEDULE OF SERIES 2017 REFUNDED BOND STATUS	M	14

GUAM WATERWORKS AUTHORITY
Balance Sheet
January 31, 2019

SCHEDULE A

	Unaudited January 31, 2019	Audited September 30, 2018	Increase (Decrease)
ASSETS AND DEFERRED OUTFLOWS OF RESOURCES			
<u>Current Assets</u>			
Cash			
Unrestricted (Schedule G)	6,730,880	3,094,379	3,636,501
Restricted Funds (Schedule G)	66,704,012	66,805,781	(1,101,769)
Accounts Receivable Trade, Net of Allowance for Doubtful Receivables of \$6,245,621 at Jan 31, 2019 and \$5,516,077 at Sep 30, 2018	15,390,979	16,610,663	(1,219,684)
Other Receivable	1,970,499	5,167,946	(3,197,447)
Materials & Supplies Inventory, Net of Allowance for Obsolescence of \$64,131 at Jan 31, 2019 and \$64,131 at Sep 30, 2018	2,384,333	3,342,557	(958,224)
Total Current Assets	92,180,702	95,021,326	(2,840,624)
<u>Property, Plant and Equipment</u>			
Utility plant in service			
Water system	350,293,261	348,812,303	1,480,958
Wastewater system	304,724,490	304,531,954	192,536
Non-utility property	17,426,836	17,241,496	185,340
Total property	672,444,587	670,585,753	1,858,834
Less Accumulated Depreciation	(310,055,707)	(303,019,447)	(7,036,260)
Land	3,681,120	3,681,120	-
Construction Work in Progress	200,480,973	178,443,926	22,037,047
Property, Plant and Equipment, net	566,550,974	549,691,353	16,859,621
<u>Other noncurrent assets</u>			
Restricted cash (Schedule G)	158,282,837	177,176,880	(18,894,043)
Investments (Schedule G)	40,983,403	43,097,913	(2,114,509)
Other Prepaid Expenses	1,116,919	677,828	439,092
Total other noncurrent assets	200,383,159	220,952,621	(20,569,461)
Total Assets	859,114,835	865,665,299	(6,550,464)
Deferred outflows of resources			
Debt defeasance due to bond refunding	12,532,652	12,810,787	(278,136)
Deferred outflows from pension	4,197,853	4,233,025	(35,172)
Deferred outflows from OPEB	9,070,814	9,070,814	-
Total Assets and Deferred Outflows of Resources	884,916,154	891,779,926	(6,863,772)
LIABILITIES, DEFERRED INFLOWS OF RESOURCES AND NET ASSETS			
<u>Current Liabilities</u>			
Current maturities of long-term debt			
Series 2010 Bond	1,800,000	1,800,000	-
Series 2014 Refunding	3,620,000	3,620,000	-
Series 2017 Refunding	295,000	295,000	-
Notes Payable	3,259,729	3,203,870	55,859
Accounts Payable -Trade	3,986,356	4,238,823	(252,468)
Interest Payable	2,137,785	6,427,669	(4,289,884)
Accrued Payroll and Employee Benefits	1,069,758	1,608,219	(538,461)
Accrued Annual Leave	1,059,161	1,059,161	-
Current portion of employee annual leave	604,009	607,382	(3,373)
Contractors' Payable	15,016,696	25,680,792	(10,664,096)
Customer and Other Deposits	2,144,696	2,238,239	(93,543)
Other Liabilities	1,313,726	1,203,177	110,549
Total Current Liabilities	36,306,916	51,982,332	(15,675,416)
<u>Long Term Debt, less current maturities</u>			
Series 2010 Revenue Bond	1,895,000	1,895,000	-
Series 2013 Revenue Bond	172,630,000	172,630,000	-
Series 2014 Refunding Bond	68,900,000	68,900,000	-
Series 2016 Revenue Bond	143,310,000	143,310,000	-
Series 2017 Refunding Bond	107,365,000	107,365,000	-
Unamortized Bond Premium/Discount	32,821,783	33,300,619	(478,836)
Notes Payable	1,217,575	2,325,154	(1,107,579)
Unfunded Ret Liability (GASB 67/68)	45,451,352	45,451,352	-
Net OPEB obligation (GASB 75)	88,950,661	88,950,661	-
Employee Annual Leave, Less Current Portion	826,194	822,821	3,373
Total Liabilities	699,674,481	716,932,939	(17,258,458)
Deferred inflows of resources:			
Deferred inflows from pension	1,870,114	1,870,114	-
Deferred inflows from OPEB	8,741,900	8,741,900	-
Total Liabilities and Deferred Inflows of Resources	710,286,495	727,544,953	(17,258,458)
Net Assets	174,629,659	164,234,973	10,394,686
Total Liabilities, Deferred Inflows of Resources and Net Assets	884,916,154	891,779,926	(6,863,772)

GWA Work Session - February 19, 2019 - DIVISION REPORTS

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings
Comparative Budget vs. Actual for the period ending January 31, 2019

SCHEDULE B

	Month to Date		Variance
	Budget	Actual (Unaudited)	Favorable /
	January-19	January-19	(Unfavorable)
OPERATING REVENUES			
Water Revenues	5,813,246	5,566,664	(246,583)
Wastewater Revenues	3,247,265	2,825,660	(421,605)
Legislative Surcharge	294,667	301,610	6,944
Other Revenues	38,254	48,922	10,668
System Development Charge	97,773	26,652	(71,121)
Total Operating Revenues	9,491,205	8,769,508	(721,697)
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	687,577	519,364	168,213
Power Purchases	1,231,315	1,231,315	0
Total Utility Costs	1,918,892	1,750,679	168,213
Salaries and Wages	1,782,365	1,549,552	232,814
Pension and Benefits	562,238	487,383	74,855
Total Salaries and Benefits	2,344,603	2,036,934	307,669
Capitalized Labor and Benefits	(308,333)	(308,333)	(0)
Net Salaries and Benefits	2,036,269	1,728,601	307,668
Administrative and General Expenses			
Sludge removal	103,771	72,446	31,326
Chemicals	125,801	105,280	20,522
Materials & Supplies	188,606	152,143	36,462
Transportation	68,648	66,517	2,131
Communications	15,054	12,460	2,594
Claims	28,417	28,240	176
Insurance	79,461	75,172	4,289
Training & Travel	30,417	29,764	653
Advertising	12,500	7,635	4,865
Miscellaneous	92,632	91,795	837
Regulatory Expense	25,029	20,330	4,699
Bad Debts Provision	144,148	114,625	29,523
Total Administrative and General Expense	914,483	776,407	138,076
Depreciation Expense	1,759,065	1,759,065	(0)
Contractual Expense			
Audit & Computer Maint.	58,783	47,012	11,771
Building rental	38,361	35,211	3,150
Equipment rental	139,980	139,716	264
Legal	512	-	512
Laboratory	34,862	34,440	422
Other	213,458	212,923	534
Total Contractual Expense	485,956	469,302	16,654
Retiree Supp. Annuities and health care costs	249,871	234,857	15,014
Contribution to Government of Guam	51,975	50,000	1,975
Total Retiree Benefits	301,846	284,857	16,989
Total Operating Expenses	7,416,512	6,768,911	647,601
Earnings (Loss) from Operations	2,074,693	2,000,597	(74,096)
Interest Income-2010/13/14/16/17 Series Bond	84,943	376,950	292,007
Interest Income-Other Funds	13,856	77,874	64,017
Interest Income-SDC	2,072	16,188	14,116
Interest Expense- 2010/13/14/16/17 Series Bond	(2,387,785)	(2,137,785)	250,000
Interest Expense- ST BOG	(19,762)	(23,855)	(4,093)
Federal Expenditures	-	-	-
Loss on Asset Disposal	-	-	-
AFUDC	1,157,306	1,157,306	0
Amortization of Discount, Premium and Issuance Costs	(17,798)	119,709	137,507
Defeasance due to bond refunding	(16,201)	(69,534)	(53,333)
Deferred outflows from pension	-	(8,931)	(8,931)
Prior Year Adjustment	-	(4,746)	(4,746)
Total non-operating revenues (expenses)	(1,183,369)	(496,823)	686,546
Net Income (Loss) before capital contributions	891,324	1,503,774	612,450
Capital Contributions			
Grants from US Government	5,533,205	635,266	(4,897,939)
Grants from GovGuam & Others	-	-	-
Total Capital Contributions	5,533,205	635,266	(4,897,939)
Change in Net Assets	6,424,529	2,139,040	(4,285,489)
Debt Service Calculation			
Earnings From Operations	2,074,693	2,000,597	
System Development Charge	(97,773)	(26,652)	
Retiree COLA	51,975	50,000	
Interest/Investment Income	13,856	77,874	
Depreciation	1,759,065	1,759,065	
Balance Available for Debt Service per Section 6.12	3,801,817	3,860,884	
Working Capital Reserve Available for Debt Service	934,811	950,860	
Transfer to Working Capital- Debt Service Reserve	-	-	
Transfer to Working Capital- O&M Reserve	-	-	
Balance Available for Debt Service inclusive of reserves	4,736,628	4,811,744	
Debt Service			
Principal	476,250	476,250	
Interest	2,137,785	2,137,785	
Total	2,614,035	2,614,035	
Debt Service Coverage (1.25X)- per Section 6.12 (Indenture)	1.45	1.48	
Debt Service Coverage (1.75X) inclusive of reserves (PUC)	1.81	1.84	

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings
Comparative for the period ending January 31, 2019 and 2018

SCHEDULE C

	Month to Date Actual (Unaudited) January-19	Actual (Audited) January-18	Variance Favorable / (Unfavorable)
OPERATING REVENUES			
Water Revenues	5,566,664	5,531,297	35,367
Wastewater Revenues	2,825,660	3,191,784	(366,124)
Legislative Surcharge	301,610	289,209	12,401
Other Revenues	48,922	43,294	5,627
System Development Charge	26,652	89,249	(62,597)
Total Operating Revenues	8,769,508	9,144,833	(375,325)
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	519,364	723,748	204,384
Power Purchases	1,231,315	1,223,874	(7,441)
Total Utility Costs	1,750,679	1,947,622	196,943
Salaries and Wages	1,549,552	1,464,423	(85,128)
Pension and Benefits	487,383	376,266	(111,117)
Total Salaries and Benefits	2,036,934	1,840,689	(196,245)
Capitalized Labor and Benefits	(308,333)	(296,147)	12,186
Net Salaries and Benefits	1,728,601	1,544,542	(184,059)
Administrative and General Expenses			
Sludge removal	72,446	125,638	53,192
Chemicals	105,280	182,625	77,346
Materials & Supplies	152,143	180,995	28,852
Transportation	66,517	64,001	(2,516)
Communications	12,460	14,756	2,295
Claims	28,240	10,803	(17,437)
Insurance	75,172	76,005	833
Training & Travel	29,764	22,652	(7,112)
Advertising	7,635	14,226	6,590
Miscellaneous	91,795	84,564	(7,231)
Regulatory Expense	20,330	22,121	1,791
Bad Debts Provision	114,625	180,246	65,621
Total Administrative and General Expense	776,407	978,632	202,225
Depreciation Expense	1,759,065	1,606,687	(152,378)
Contractual Expense			
Audit & Computer Maint.	47,012	58,815	11,803
Building rental	35,211	36,603	1,392
Equipment rental	139,716	89,207	(50,509)
Legal	-	-	-
Laboratory	34,440	34,529	89
Other	212,923	200,567	(12,356)
Total Contractual Expense	469,302	419,721	(49,581)
Retiree Supp. Annuities and health care costs	234,857	662,581	427,724
Contribution to Government of Guam	50,000	49,833	(167)
Total Retiree Benefits	284,857	712,414	427,557
Total Operating Expenses	6,768,911	7,209,618	440,707
Earnings (Loss) from Operations	2,000,597	1,935,215	65,382
Interest Income-2010/13/14/16/17 Series Bond	376,950	255,374	121,576
Interest Income-Other Funds	77,874	45,645	32,229
Interest Income-SDC	16,188	13,852	2,336
Interest Expense- 2010/13/14/16/17 Series Bond	(2,137,785)	(2,177,468)	39,683
Interest Expense- ST BOG	(23,855)	(30,702)	6,848
Federal Expenditures	-	(62,220)	62,220
Loss on Asset Disposal	-	(162,136)	162,136
AFUDC	1,157,306	1,041,766	115,540
Amortization of Discount, Premium and Issuance Costs	119,709	(42,691)	162,400
Defeasance due to bond refunding	(69,534)	(62,043)	(7,490)
Deferred outflows from pension	(8,931)	32,592	(41,523)
Prior Year Adjustment	(4,746)	13,219	(17,965)
Total non-operating revenues (expenses)	(496,823)	(1,134,813)	637,990
Net Income (Loss) before capital contributions	1,503,774	800,402	703,372
Capital Contributions			
Grants from US Government	635,266	1,244,712	(609,445)
Grants from GovGuam & Others	-	22,681	(22,681)
Total Capital Contributions	635,266	1,267,392	(632,126)
Change in Net Assets	2,139,040	2,067,794	71,246
Debt Service Calculation			
Earnings From Operations	2,000,597	1,935,215	
System Development Charge	(26,652)	(89,249)	
Retiree COLA	50,000	49,833	
Interest/Investment Income	77,874	45,645	
Depreciation	1,759,065	1,606,687	
Balance Available for Debt Service per Section 6.12	3,860,884	3,548,131	
Working Capital Reserve Available for Debt Service	950,860	945,164	
Transfer to Working Capital- Debt Service Reserve	-	-	
Transfer to Working Capital- O&M Reserve	-	-	
Balance Available for Debt Service inclusive of reserves	4,811,744	4,493,295	
Debt Service			
Principal	476,250	433,333	
Interest	2,137,785	1,794,910	
Total	2,614,035	2,228,243	
Debt Service Coverage (1.25X)- per Section 6.12 (Indenture)	1.48	1.59	
Debt Service Coverage (1.75X) inclusive of reserves (PUC)	1.84	2.02	

GWA Work Session - February 19, 2019 - DIVISION REPORTS

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings
Comparative Budget vs. Actual for the period ending January 31, 2019

SCHEDULE D

	Budget January-19	Year to Date Actual (Unaudited) January-19	Variance Favorable / (Unfavorable)
OPERATING REVENUES			
Water Revenues	23,252,986	22,559,475	(693,511)
Wastewater Revenues	12,989,060	12,709,841	(279,219)
Legislative Surcharge	1,178,667	1,205,894	27,226
Other Revenues	153,015	158,560	5,545
System Development Charge	391,090	189,967	(201,123)
Total Operating Revenues	37,964,818	36,823,737	(1,141,081)
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	2,750,309	1,922,541	827,767
Power Purchases	4,925,260	4,823,924	101,337
Total Utility Costs	7,675,569	6,746,465	929,104
Salaries and Wages	7,129,460	6,427,403	702,057
Pension and Benefits	2,248,951	2,052,369	196,582
Total Salaries and Benefits	9,378,411	8,479,772	898,639
Capitalized Labor and Benefits	(1,233,333)	(1,233,332)	(1)
Net Salaries and Benefits	8,145,078	7,246,440	898,638
Administrative and General Expenses			
Sludge removal	515,085	504,385	10,700
Chemicals	703,206	634,305	68,900
Materials & Supplies	654,422	632,667	21,755
Transportation	274,590	177,143	97,447
Communications	60,217	40,904	19,312
Claims	113,667	35,426	78,241
Insurance	317,843	300,687	17,156
Training & Travel	121,667	69,097	52,569
Advertising	50,000	24,684	25,316
Miscellaneous	370,527	355,217	15,310
Regulatory Expense	100,116	52,108	48,008
Bad Debts Provision	576,593	729,504	(152,911)
Total Administrative and General Expense	3,857,932	3,556,129	301,804
Depreciation Expense	7,036,260	7,036,260	(0)
Contractual Expense			
Audit & Computer Maint.	235,133	175,440	59,694
Building rental	153,444	140,843	12,601
Equipment rental	359,918	339,887	20,031
Legal	2,048	-	2,048
Laboratory	139,450	111,797	27,652
Other	853,830	840,355	13,475
Total Contractual Expense	1,743,824	1,608,322	135,501
Retiree Supp. Annuities and health care costs	999,483	949,799	49,684
Contribution to Government of Guam	207,900	200,000	7,900
Total Retiree Benefits	1,207,383	1,149,799	57,584
Total Operating Expenses	29,666,046	27,343,415	2,322,631
Earnings (Loss) from Operations	8,298,772	9,480,322	(3,463,712)
Interest Income-2010/13/14/16/17 Series Bond	339,772	1,382,676	1,042,904
Interest Income-Other Funds	55,425	261,256	205,831
Interest Income-SDC	8,287	55,852	47,565
Interest Expense- 2010/13/14/16/17 Series Bond	(9,551,138)	(8,551,138)	1,000,000
Interest Expense- ST BOG	(79,048)	(73,965)	5,083
Federal Expenditures	-	-	-
Loss on Asset Disposal	-	-	-
AFUDC	4,629,222	4,629,224	2
Amortization of Discount, Premium and Issuance Costs	(71,192)	478,836	550,027
Defeasance due to bond refunding	(64,804)	(278,136)	(213,332)
Deferred outflows from pension	-	(35,723)	(35,723)
Prior Year Adjustment	-	(25,896)	(25,896)
Total non-operating revenues (expenses)	(4,733,476)	(2,157,015)	2,576,461
Net Income (Loss) before capital contributions	3,565,296	7,323,307	(887,251)
Capital Contributions			
Grants from US Government	22,132,820	3,071,379	(19,061,441)
Grants from GovGuam & Others	-	-	-
Total Capital Contributions	22,132,820	3,071,379	(19,061,441)
Change in Net Assets	25,698,117	10,394,686	(19,948,693)
Debt Service Calculation			
Earnings From Operations	8,298,772	9,480,322	
System Development Charge	(391,090)	(189,967)	
Retiree COLA	207,900	200,000	
Interest/Investment Income	55,425	261,256	
Depreciation	7,036,260	7,036,260	
Balance Available for Debt Service per Section 6.12	15,207,267	16,787,871	
Working Capital Reserve Available for Debt Service	3,739,244	3,803,441	
Transfer to Working Capital- Debt Service Reserve	-	-	
Transfer to Working Capital- O&M Reserve	-	-	
Balance Available for Debt Service inclusive of reserves	18,946,511	20,591,311	
Debt Service			
Principal	1,905,000	1,905,000	
Interest	8,551,138	8,551,138	
Total	10,456,138	10,456,138	
Debt Service Coverage (1.25X)- per Section 6.12 (Indenture)	1.45	1.61	
Debt Service Coverage (1.75X) inclusive of reserves (PUC)	1.81	1.97	

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings
Comparative for the period ending January 31, 2019 and 2018

SCHEDULE E

	Year to Date		Variance
	Actual (Unaudited)	Actual (Audited)	Favorable /
	January-19	January-18	(Unfavorable)
OPERATING REVENUES			
Water Revenues	22,559,475	22,125,188	434,287
Wastewater Revenues	12,709,841	12,767,135	(57,294)
Legislative Surcharge	1,205,894	1,156,836	49,058
Other Revenues	158,560	173,176	(14,616)
System Development Charge	189,967	356,995	(167,028)
Total Operating Revenues	36,823,737	36,579,331	244,406
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	1,922,541	2,894,991	972,450
Power Purchases	4,823,924	4,895,495	71,572
Total Utility Costs	6,746,465	7,790,487	1,044,022
Salaries and Wages	6,427,403	5,857,693	(569,710)
Pension and Benefits	2,052,369	1,505,064	(547,305)
Total Salaries and Benefits	8,479,772	7,362,757	(1,117,015)
Capitalized Labor and Benefits	(1,233,332)	(1,184,588)	48,744
Net Salaries and Benefits	7,246,440	6,178,169	(1,068,271)
Administrative and General Expenses			
Sludge removal	504,385	502,551	(1,834)
Chemicals	634,305	730,502	96,196
Materials & Supplies	632,667	723,979	91,312
Transportation	177,143	256,003	78,861
Communications	40,904	59,022	18,118
Claims	35,426	43,214	7,788
Insurance	300,687	304,020	3,333
Training & Travel	69,097	90,608	21,511
Advertising	24,684	56,903	32,219
Miscellaneous	355,217	338,256	(16,961)
Regulatory Expense	52,108	88,485	36,376
Bad Debts Provision	729,504	720,983	(8,520)
Total Administrative and General Expense	3,556,129	3,914,528	358,399
Depreciation Expense	7,036,260	6,426,750	(609,510)
Contractual Expense			
Audit & Computer Maint.	175,440	235,260	59,820
Building rental	140,843	146,412	5,569
Equipment rental	339,887	356,827	16,940
Legal	-	-	-
Laboratory	111,797	138,115	26,318
Other	840,355	802,269	(38,086)
Total Contractual Expense	1,608,322	1,678,884	70,561
Retiree Supp. Annuities and health care costs	949,799	2,650,322	1,700,523
Contribution to Government of Guam	200,000	199,333	(667)
Total Retiree Benefits	1,149,799	2,849,656	1,699,857
Total Operating Expenses	27,343,415	28,838,473	1,495,057
Earnings (Loss) from Operations	9,480,322	7,740,858	1,739,464
Interest Income-2010/13/14/16/17 Series Bond	1,382,676	1,021,497	361,179
Interest Income-Other Funds	261,256	182,579	78,676
Interest Income-SDC	55,852	55,407	445
Interest Expense- 2010/13/14/16/17 Series Bond	(8,551,138)	(8,709,871)	158,733
Interest Expense- ST BOG	(73,965)	(122,809)	48,844
Federal Expenditures	-	(248,881)	248,881
Loss on Asset Disposal	-	(648,543)	648,543
AFUDC	4,629,224	4,167,065	462,159
Amortization of Discount, Premium and Issuance Costs	478,836	(170,765)	649,601
Defeasance due to bond refunding	(278,136)	(248,174)	(29,962)
Deferred outflows from pension	(35,723)	130,368	(166,091)
Prior Year Adjustment	(25,896)	52,876	(78,772)
Total non-operating revenues (expenses)	(2,157,015)	(4,539,251)	2,382,236
Net Income (Loss) before capital contributions	7,323,307	3,201,607	4,121,700
Capital Contributions			
Grants from US Government	3,071,379	4,978,847	(1,907,468)
Grants from GovGuam & Others	-	90,722	(90,722)
Total Capital Contributions	3,071,379	5,069,569	(1,998,190)
Change in Net Assets	10,394,686	8,271,176	2,123,510
Debt Service Calculation			
Earnings From Operations	9,480,322	7,740,858	
System Development Charge	(189,967)	(356,995)	
Retiree COLA	200,000	199,333	
Interest/Investment Income	261,256	182,579	
Depreciation	7,036,260	6,426,750	
Balance Available for Debt Service per Section 6.12	16,787,871	14,192,525	
Working Capital Reserve Available for Debt Service	3,803,441	3,780,656	
Transfer to Working Capital- Debt Service Reserve	-	-	
Transfer to Working Capital- O&M Reserve	-	-	
Balance Available for Debt Service inclusive of reserves	20,591,311	17,973,181	
Debt Service			
Principal	1,905,000	1,733,333	
Interest	8,551,138	7,179,640	
Total	10,456,138	8,912,973	
Debt Service Coverage (1.25X)- per Section 6.12 (Indenture)	1.61	1.59	
Debt Service Coverage (1.75X) inclusive of reserves (PUC)	1.97	2.02	

		SCHEDULE F As of 01/31/19	
<u>Bond Compliance</u>		(\$\$\$)	(\$\$\$)
		<u>Per Indenture</u>	<u>Bond</u>
		<u>2010/2013/2014/2016/2017</u>	
<div>Operation and Maintenance Fund-BOG</div>	Equivalent to 55 days of the annual O&M budget less depreciation	\$9.7M	\$9.7M
<div>Bond Reserve Fund - US Bank</div>	Fully funded- Principal and Interest (Bond Series 2010, 2013, 2014 Refunding, 2016 and 2017 Refunding)	\$35.2M	\$35.2M
<div>Operation, Maintenance, Renewal and Replacement Reserve Fund-BOG Trust</div>	Equivalent to 1/4 of the annual O&M budget & CIP budget to be funded in 5 years (\$2M/year)	\$17.4M	\$17.4M
<div>Capital Improvement Fund</div>	Balance remaining in the Revenue Fund after the foregoing deposits	\$3.9K	\$33.9K

GUAM WATERWORKS AUTHORITY
Restricted and Unrestricted Cash Summary
FY2019

SCHEDULE G

Description	Unaudited January 31, 2019	Audited September 30, 2018	Increase (Decrease)
UNRESTRICTED			
Change Fund	2,000	2,000	-
Petty Cash	5,000	5,000	-
BOG - Deposit Accounts	6,723,880	3,087,379	3,636,501
Sub-total Unrestricted	6,730,880	3,094,379	3,636,501
RESTRICTED			
Collection Accounts	848,187	588,075	260,112
BOG Deposit Accounts	5,873,459	5,874,563	(1,105)
BP Deposit Accounts	1,309,601	959,151	350,450
BOG Revenue Trust Fund	8,184,752	6,535,779	1,648,973
BOG Capital Improvement Revenue Fund	2,471,386	1,582,278	889,107
BOG O & M Reserve	13,748,473	13,666,109	82,363
BOG Debt Service Reserve	11,410,323	11,341,967	68,356
BOG CAPEX Fund	11,446,189	16,073,011	(4,626,822)
	55,292,369	56,620,933	(1,328,564)
BOG - SDC Deposit	2,661,643	2,934,848	(273,205)
BOG - SDC CDs	7,750,000	7,250,000	500,000
Total Restricted	65,704,012	66,805,781	(1,101,769)
Reserve Funds			
BOG Series 05 OMRRRF Fund	17,423,213	17,423,213	-
BOG Series 13 Construction Fund	28,588,917	36,222,062	(7,633,145)
BOG Series 14 Refunding Construction Fund	746,367	741,895	4,471
BOG Series 16 Construction Fund	104,776,767	116,036,000	(11,259,233)
BOG Series 17 Refunding Construction Fund	6,747,573	6,753,709	(6,136)
Total Restricted - Held by Trustee	158,282,837	177,176,880	(18,894,043)
USB Series 2013 Debt Service Fund	824,216	2,360,451	(1,536,235)
USB Series 2013 Debt Service Reserve Fund	12,031,688	12,031,688	-
USB Series 2014 Refunding Debt Service Fund	2,456,589	1,833,235	623,354
USB Series 2014 Refunding Debt Service Reserve Fund	8,164,273	7,972,243	192,030
USB Series 2016 Debt Service Fund	625,893	1,805,556	(1,179,663)
USB Series 2016 Debt Service Reserve Fund	7,594,617	7,594,603	14
USB Series 2010 Debt Service Fund	1,077,020	503,751	573,269
USB Series 2017 Refunding Debt Service Reserve Fund	7,566,460	7,566,460	-
USB Series 2017 Debt Service Fund	642,648	1,429,927	(787,279)
Total Investments	40,983,403	43,097,913	(2,114,509)
Total Restricted and Unrestricted Cash	271,701,132	290,174,953	(18,473,820)

SCHEDULE H
Guam Waterworks Authority
Statement of Cash Flows (Unaudited)
FY2019
YTD
Jan-19
Increase (decrease) in cash**Cash flows from operating activities:**

Cash received from trade and others	36,838,857
Cash payments to suppliers/contractors for goods and services	(11,052,636)
Cash payments to employees for services	(8,898,976)

Net cash provided by operating activities 16,887,245
Cash flows from capital and related financing activities:

Contributed capital received (grants)	6,727,288
Acquisition of utility plant	(29,930,753)
Repayment of Long Term Debt	(1,530,556)
Interest expense	(12,775,906)

Net cash provided by (used in) capital and related financing activities (37,509,926)
Cash flows from investing activities:

Transfers from (to) restricted fund	22,615,251
Interest income received	1,643,932

Net cash provided by investing activities 24,259,182

Net increase (decrease) in cash 3,636,501

Unrestricted cash at beginning of the period 3,094,379

Unrestricted cash at end of period 6,730,879

Reconciliation of operating loss to net cash provided by
operating activities:

Operating Income (loss) 9,290,356

Adjustments to reconcile to net cash provided by operating activities:

Depreciation expense	7,036,260
Other Expense/income	765,226

(Increase) decrease in assets:

Accounts receivable	191,634
Materials and supplies inventory	958,224
Other Assets	(439,092)

Increase (decrease) in liabilities:

Accounts payable, Contractors, Retention & Escrow Deposit	(365,771)
Accrued payroll	(538,461)
Customer deposits, Other liabilities	(11,132)

Net cash provided by operating activities 16,887,245

GWA Work Session - February 19, 2019 - DIVISION REPORTS

Guam Waterworks Authority
Accounts Receivable - Government
As of January 31, 2019

SCHEDULE I

Customer Name	No of Accounts	Current	A G I N G				Outstanding Bal.
			31-60 days	61-90 days	91-120 days	Over 120 days	
GUAM INT'L AIRPORT AUTHORITY	10	\$ 30,122	\$ 31,534	\$ 32,130	\$ 33,192	\$ 197,673	\$ 324,651
GUAM MEMORIAL HOSPITAL AUTHORITY	5	40,374	34,117	39,527	30,577	-	144,595
GUAM POWER AUTHORITY	26	43,315	12,273	-	-	6,705	62,294
GUAM COMMUNITY COLLEGE	4	11,199	1,806	-	-	-	13,006
UNIVERSITY OF GUAM	46	5,922	-	-	-	-	5,922
GUAM HOUSING & URBAN RENEWAL AUTHORITY	10	1,462	280	-	-	1,067	2,809
PORT AUTHORITY OF GUAM	5	1,609	-	-	-	-	1,609
GHURA-AGAFU GUMAS PARK	1	-	-	-	-	1,117	1,117
GUAM HOUSING CORPORATION	1	29	-	-	-	-	29
	108	\$ 134,032	\$ 80,011	\$ 71,657	\$ 63,769	\$ 206,563	\$ 556,032
DEPT OF PARKS & RECREATION	23	113,154	136,665	164,633	158,517	452,908	1,025,877
DEPT OF EDUCATION	54	261,441	199,916	113,997	27,766	1,376	604,496
DEPT OF PUBLIC HEALTH & SOCIAL SERVICES	8	2,140	929	732	3,461	100,689	107,951
DEPT OF CORRECTIONS	8	61,164	-	-	-	-	61,164
MAYORS COUNCIL OF GUAM	63	23,403	12,837	14,993	312	81	51,626
DEPT OF CHAMORRO AFFAIRS	9	10,960	-	-	-	-	10,960
GUAM FIRE DEPARTMENT	11	8,176	1,933	-	-	-	10,109
DEPT OF PUBLIC WORKS	12	2,346	80	-	-	7,220	9,646
OFFICE OF THE GOVERNOR	2	7,847	-	-	-	-	7,847
GUAM ECONOMIC DEVELOPMENT AUTHORITY	1	-	-	-	-	4,860	4,860
DEPT OF YOUTH AFFAIRS	4	1,014	313	-	13	1,092	2,433
DEPT OF AGRICULTURE	6	1,734	-	-	-	-	1,734
OFFICE OF CIVIL DEFENSE	2	614	517	492	-	-	1,623
GUAM POLICE DEPARTMENT	7	1,332	-	-	-	-	1,332
SANCTUARY INC	1	1,300	-	-	-	-	1,300
DIVISION OF SENIOR CITIZENS, DPH&SS	2	610	150	161	40	-	960
THE OFFICE OF THE DEDEDO MAYOR	1	148	171	206	-	-	526
DEPT OF ADMINISTRATION	2	482	-	-	-	-	482
DEPT OF MENTAL HEALTH	2	337	-	-	-	-	337
GUAM PUBLIC LIBRARY	6	173	-	-	-	-	173
GUAM ENERGY OFFICE	1	117	-	-	-	-	117
GUAM VETERANS AFFAIRS OFFICE	2	91	-	-	-	-	91
MERIZO MAYOR	1	41	35	-	-	-	75
	228	\$ 498,624	\$ 353,546	\$ 295,215	\$ 190,109	\$ 568,225	\$ 1,905,719
TOTAL January 31, 2019	336	\$ 632,656	\$ 433,557	\$ 366,872	\$ 253,878	\$ 774,788	\$ 2,461,751
TOTAL September 30, 2018	326	\$ 793,948	\$ 424,797	\$ 324,413	\$ 190,444	\$ 975,977	\$ 2,709,580
	3%	-20%	2%	13%	33%	-21%	-9%

GWA Work Session - February 19, 2019 - DIVISION REPORTS

GUAM WATERWORKS AUTHORITY
2013 Series Bond Project Status
As of January 31, 2019

SCHEDULE J

PROJECT NAME	ORIGINAL APPROVED PROJECT COST	Adjusted Project Cost	Adjusted Project Cost	EXPENDITURES AS OF 01/31/19	OUTSTANDING ENCUMBRANCES	TOTAL EXPENDITURES AND ENCUMBRANCES	UNOBLIGATED PROJECT COST	Construction fund balance AS OF 01/31/19
Santa Rita Springs Booster Pump Rehab Phase II	\$ 100,000	\$ 100,000.00	\$ 100,000	100,000	-	\$ 100,000	\$ -	\$ -
"A" Series Well Transmission Line	\$ 400,000	\$ 400,000.00	\$ 369,846	369,846	(0)	\$ 369,846	\$ 0	\$ 0
Water Booster Pump Station	\$ 6,000,000	\$ 6,000,000.00	\$ 1,679,964	1,656,428	23,536	\$ 1,679,964	\$ 0	\$ 23,536
Meter Replacement Program		\$ 1,500,000.00	\$ 996,532	996,532	-	\$ 996,532	\$ (0)	\$ (0)
Barrigada Tank Repair/Replacement	\$ 6,000,000	\$ 6,000,000.00	\$ 4,987,000	4,924,959	61,652	\$ 4,986,611	\$ 389	\$ 62,041
Leak Detection	\$ 100,000	\$ 100,000.00	\$ 16,916	16,916	(0)	\$ 16,916	\$ 0	\$ (0)
Potable Water System Planning	\$ 800,000	\$ 1,200,000.00	\$ 624,000	603,390	20,610	\$ 624,000	\$ -	\$ 20,610
Implement Ground Water Rule	\$ 1,000,000	\$ 1,000,000.00	\$ 1,000,000	1,000,000	-	\$ 1,000,000	\$ -	\$ -
Deep Well Rehabilitation	\$ 800,000	\$ 800,000.00	\$ 200,000	189,930	10,071	\$ 200,000	\$ (0)	\$ 10,070
New Deep Wells at Down Hard	\$ 2,000,000	\$ 2,000,000.00	\$ -	-	-	\$ -	\$ -	\$ -
Master Meters	\$ 4,000,000	\$ 4,000,000.00	\$ 712,060	531,188	180,872	\$ 712,060	\$ (0)	\$ 180,872
Ugum Water Treatment Plant Intake	\$ 1,000,000	\$ 1,000,000.00	\$ 859,801	424,202	435,599	\$ 859,801	\$ (0)	\$ 435,599
Water Wells	\$ 4,200,000	\$ 4,200,000.00	\$ 3,030,029	2,304,794	31,324	\$ 2,336,118	\$ 693,911	\$ 725,236
Water Distribution System	\$ 12,000,000	\$ 14,000,000.00	\$ 10,912,453	9,216,004	1,393,880	\$ 10,609,884	\$ 302,569	\$ 1,696,449
Pressure Zone Realignment /	\$ 1,000,000	\$ 1,000,000.00	\$ 337,110	336,036	1,074	\$ 337,110	\$ 0	\$ 1,074
Mechanical/Electrical Equipment	\$ 430,000	\$ 430,000.00	\$ 426,799	261,981	164,818	\$ 426,799	\$ -	\$ 164,818
Water Reservoir Internal/External	\$ 800,000	\$ 800,000.00	\$ -	-	-	\$ -	\$ -	\$ -
Water System Reservoirs 2005 Improvements	\$ 21,000,000	\$ 18,000,000.00	\$ 13,878,000	12,373,723	1,504,277	\$ 13,878,000	\$ -	\$ 1,504,277
Ugum Water Treatment Plant Reservoir	\$ 7,000,000	\$ 7,000,000.00	\$ -	-	-	\$ -	\$ -	\$ -
Agana Heights & Chaot Tanks	\$ 4,500,000	\$ 4,500,000.00	\$ 1,330,287	727,527	602,761	\$ 1,330,287	\$ (0)	\$ 602,760
Tank Major Repair Yigo#1 Mangilao#2 Agat#2	\$ 13,500,000	\$ 13,500,000.00	\$ 11,605,000	10,204,026	1,400,599	\$ 11,604,625	\$ 375	\$ 1,400,974
Tank Major Repair Yigo#1 Mangilao#2 Agat#2	\$ 8,000,000	\$ 8,000,000.00	\$ -	-	-	\$ -	\$ -	\$ -
Assessment of malojoj Elevetad & Yigo Elevated	\$ 500,000	\$ 500,000.00	\$ 485,117	461,813	23,304	\$ 485,117	\$ -	\$ 23,304
Fire Hydrant Replacement Program	\$ -	\$ 1,000,000.00	\$ -	-	-	\$ -	\$ -	\$ -
Wastewater System Planning	\$ 800,000	\$ 800,000.00	\$ 650,901	566,364	84,537	\$ 650,901	\$ 0	\$ 84,537
Lift Station Upgrades	\$ 5,000,000	\$ 2,000,000.00	\$ 563,148	563,148	-	\$ 563,148	\$ 0	\$ 0
Wastewater Collection System Repl/Rehab	\$ 6,500,000	\$ 3,800,000.00	\$ 660,313	579,275	81,038	\$ 660,313	\$ -	\$ 81,038
Baza Gardens STP Replacement		\$ 1,000,000.00	\$ 9,656,874	3,374,080	6,252,599	\$ 9,626,679	\$ 30,195	\$ 6,282,794
Facilities Plan/Design for Umatac-Merizo WWTP		\$ 1,000,000.00	\$ 371,699	364,527	7,172	\$ 371,699	\$ 0	\$ 7,172
Agat/Santa Rita STP Replacement	\$ 19,000,000	\$ 19,000,000.00	\$ 67,200,000	54,663,912	12,516,881	\$ 67,180,793	\$ 19,207	\$ 12,536,088
Agana WWTP Interim Measures		\$ 1,500,000.00	\$ 673,000	667,693	5,307	\$ 673,000	\$ 0	\$ 5,307
Umatac Merizo Replacement	\$ 2,000,000	\$ 1,000,000.00	\$ -	-	-	\$ -	\$ -	\$ -
Wastewater Pump Station Electrical Upgrade	\$ 620,000	\$ 620,000.00	\$ 99,861	94,964	4,897	\$ 99,861	\$ -	\$ 4,897
Electrical Upgrade - Water Wells	\$ 1,500,000	\$ 1,500,000.00	\$ 1,500,000	1,487,413	12,587	\$ 1,500,000	\$ 0	\$ 12,587
Electrical Upgrade - Water Booster	\$ 325,000	\$ 325,000.00	\$ -	-	-	\$ -	\$ -	\$ -
Electrical Upgrade -Water Booster	\$ 350,000	\$ 350,000.00	\$ 977	977	-	\$ 977	\$ -	\$ -
Electrical Upgrade - Other Water	\$ 250,000	\$ 250,000.00	\$ 60,700	60,700	-	\$ 60,700	\$ -	\$ -
SCADA Improvements - Phase 3	\$ 1,850,000	\$ 1,850,000.00	\$ 722,359	460,592	261,767	\$ 722,359	\$ -	\$ 261,767
SCADA Improvements - Phase 4	\$ 500,000	\$ 1,200,000.00	\$ -	-	-	\$ -	\$ -	\$ -
Laboratory Modernization	\$ 1,500,000	\$ 1,500,000.00	\$ 1,171,465	1,163,037	7,785	\$ 1,170,822	\$ 643	\$ 8,428
Land Survey	\$ 2,000,000	\$ 2,000,000.00	\$ 1,052	1,038	15	\$ 1,053	\$ (1)	\$ 15
General Plant Improvements / Water	\$ 2,000,000	\$ 2,600,000.00	\$ 2,441,737	1,350,918	1,090,820	\$ 2,441,737	\$ (0)	\$ 1,090,819
Allowance for COI							\$	\$ 275,005
Interest Earned							\$ 1,086,841	\$ 1,086,841
Total Construction Fund (2013 Series Revenue	\$ 139,325,000	\$ 139,325,000	\$ 139,325,000	\$ 112,097,929	\$ 26,179,783	\$ 138,277,712	\$ 2,134,129	\$ 28,588,917

PUC's Docket 14-04 dated February 25, 2014

GWA Work Session - February 19, 2019 - DIVISION REPORTS

GUAM WATERWORKS AUTHORITY
2014 Series Refunded Bond Project Status
As of January 31, 2019

SCHEDULE K

PROJECT NAME	ORIGINAL		ADJUSTED		TOTAL EXPENDITURES				Construction fund	
	APPROVED PROJECT	PROJECT COST	EXPENDITURES AS OF 01/31/19	OUTSTANDING ENCUMBRANCES	AND ENCUMBRANCES	UNOBLIGATED PROJECT COST	20% PUC AS OF 01/31/19	balance		
								AS OF 01/31/19		
Agana Treatment Plant	\$ 10,475,000	\$ 11,065,512	11,065,512	\$ -	\$ 11,065,512	\$ (0)	\$ 2,095,000	\$	(0)	
Agana Outfall	\$ 5,030,000	\$ 10,127,198	10,127,198	\$ -	\$ 10,127,198	\$ 0	\$ 1,006,000	\$	0	
Northern District (Outfall)	\$ 4,700,000	\$ 10,251,423	10,251,423	\$ -	\$ 10,251,423	\$ 0	\$ 940,000	\$	0	
Northern District WWTP Upgrade		\$ 173,681	173,681		\$ 173,681	\$ -		\$	-	
Baza Gardens Wastewater Treatment Plant U	\$ 500,000	\$ 297,177	297,177	\$ -	\$ 297,177	\$ (0)	\$ 100,000	\$	(0)	
Interim Disinfection Facilities	\$ 581,000	\$ 3,437,311	3,408,599	\$ 28,712	\$ 3,437,311	\$ (0)	\$ 116,200	\$	28,712	
Electrical Protection	\$ 1,000,000	\$ 1,512,483	1,512,483.3	\$ -	\$ 1,512,483	\$ (0)	\$ 200,000	\$	(0)	
Well Vulnerability Reduction	\$ 600,000	\$ 185,522	185,522	\$ -	\$ 185,522	\$ 0	\$ 120,000	\$	0	
Old Agat Wastewater Collection (I/I) Reductor	\$ 2,155,000	\$ 1,931,659	1,931,659	\$ -	\$ 1,931,659	\$ (0)	\$ 431,000	\$	(0)	
Chaot WW Pump Station/Collection System	\$ 410,000	\$ 399,120	399,120	\$ -	\$ 399,120	\$ -	\$ 82,000	\$	-	
Lift Station Upgrades	\$ 230,000	\$ 149,895	149,895	\$ -	\$ 149,895	\$ 0	\$ 46,000	\$	0	
Collection Line Upgrades	\$ 200,000	\$ 62,755	62,755	\$ -	\$ 62,755	\$ 0	\$ 40,000	\$	0	
"A" Well Transmission Line	\$ 2,413,000	\$ 3,833,175	3,818,088	\$ 15,087	\$ 3,833,175	\$ (0)	\$ 482,600	\$	15,087	
Santa Rita Springs - Booster Pump Rehab.	\$ 648,000	\$ 306,841	306,841	\$ -	\$ 306,841	\$ (0)	\$ 129,600	\$	(0)	
Fena Bypass Transmission line		\$ 160,913	160,913	\$ -	\$ 160,913	\$ (0)	\$ -	\$	(0)	
Storage Additions	\$ 950,000	\$ -		\$ -	\$ -	\$ -	\$ 190,000	\$	-	
Booster Station Upgrades	\$ 390,000	\$ 66,734	66,734	\$ -	\$ 66,734	\$ -	\$ 78,000	\$	-	
Mangilao Tank Repair	\$ 800,000	\$ 398,367	397,933	\$ 434	\$ 398,367	\$ (0)	\$ 160,000	\$	434	
Ugum Tank Replacement	\$ 2,500,000	\$ -		\$ -	\$ -	\$ -	\$ 500,000	\$	-	
Ugum WTPlant Refurbishment (\$1.724,970EPA)		\$ 6,588,473	6,531,525	\$ 56,949	\$ 6,588,473	\$ (0)		\$	56,948	
Barrigada Tank Repair/Replacement	\$ 3,000,000	\$ 65,019	65,019	\$ -	\$ 65,019	\$ 0	\$ 600,000	\$	0	
Water Reservoir Condition Assessment		\$ 1,250,000	1,249,227.16	\$ 772	\$ 1,250,000	\$ 0	\$ -	\$	773	
EarthTech Well Buyout	\$ 5,000,000	\$ 5,975,000	5,975,000	\$ -	\$ 5,975,000	\$ -	\$ 1,000,000	\$	-	
Water Wastewater Master Plan	\$ 4,900,000	\$ 4,881,308	4,881,308	\$ -	\$ 4,881,308	\$ 0	\$ 980,000	\$	0	
Laboratory Modernization	\$ 800,000	\$ 135,055	135,055	\$ -	\$ 135,055	\$ 0	\$ 160,000	\$	0	
Land Survey	\$ 800,000	\$ 577,836	576,134	\$ 1,702	\$ 577,836	\$ 0	\$ 160,000	\$	1,702	
Ground Water Disinfection		\$ -			\$ -	\$ -		\$	-	
GWUDI Study		\$ 262,234	260,430	\$ 1,804	\$ 262,234	\$ -		\$	1,804	
Contingency	\$ 12,276,023	\$ 154	-	\$ -	\$ -	\$ -		\$	732	
Vehicles	\$ 1,100,000	\$ 1,280,000	2,130,305	\$ (850,305)	\$ 1,280,000	\$ -	\$ 220,000	\$	-	
Generation Equipment	\$ 700,000	\$ 880,000	2,712	\$ 877,288	\$ 880,000	\$ 0		\$	27,033	
Leak Detection/Line Replacement	\$ 8,200,000	\$ 5,988,494	5,988,494	\$ -	\$ 5,988,494	\$ -	\$ 1,640,000	\$	-	
Automated Meter Reading	\$ 12,572,063	\$ 17,468,359	16,870,522	\$ 537,157	\$ 17,468,359.32	\$ 0	\$ 2,514,413	\$	597,837	
Total Construction Fund (2014 Series Refun	\$ 82,930,086	\$ 89,711,698	\$ 88,981,263	\$ 669,600	\$ 89,711,543	\$ 1	\$ 13,990,813	\$	731,063	
Interest Earned	\$ 6,781,612	\$ (0)				\$ 15,304		\$	15,304	
Total Project Cost Funding	\$ 89,711,698	\$ 89,711,698	\$ 88,981,263	\$ 669,600	\$ 89,711,543	\$ 15,305	\$ 13,990,813	\$	746,367	

GUAM WATERWORKS AUTHORITY
2016 Series Bond Project Status
As of January 31, 2019

SCHEDULE L

PROJECT NAME	ORIGINAL		EXPENDITURES AS OF 01/31/19	OUTSTANDING ENCUMBRANCES	TOTAL EXPENDITURES AND		UNOBLIGATED PROJECT COST	Construction fund balance	
	APPROVED PROJECT COST	Adjusted Project Cost			ENCUMBRANCES	ENCUMBRANCES		AS OF 01/31/19	AS OF 01/31/19
Water Booster Pump Station	\$ 4,139,000	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -
Meter Replacement Program	\$ 4,501,000	\$ 1,400,000	149,970	30	\$ 150,000	\$ 1,250,000	\$ 1,250,030	\$ 1,250,030	\$ -
Barrigada Tank Repair/Replacement	\$ 1,013,000	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -
Leak Detection	\$ 1,180,000	\$ 100,000			\$ -	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000
Potable Water System Planning	\$ 2,276,000	\$ 876,294	753,389	122,905	\$ 876,294	\$ -	\$ 122,905	\$ 122,905	\$ 122,905
Deep Well Rehabilitation	\$ 250,000	\$ 250,000	203	109,810	\$ 110,013	\$ 139,987	\$ 249,797	\$ 249,797	\$ 249,797
New Deep Wells at Down Hard	\$ 1,190,000	\$ 1,190,000			\$ -	\$ 1,190,000	\$ 1,190,000	\$ 1,190,000	\$ 1,190,000
Master Meters	\$ 3,616,000	\$ 2,151,539	151,539	-	\$ 151,539	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000
Uqum Water Treatment Plant Intake	\$ 18,000	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -
Water Wells	\$ 2,500,000	\$ 2,500,000		170,000	\$ 170,000	\$ 2,330,000	\$ 2,500,000	\$ 2,500,000	\$ 2,500,000
Water Distribution System	\$ 2,049,000	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -
Pressure Zone Realignment /	\$ 1,141,000	\$ 1,141,000	674,165	66,836	\$ 741,000	\$ 400,000	\$ 466,835	\$ 466,835	\$ 466,835
Mechanical/Electrical Equipment	\$ 100,000	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -
Water Reservoir Internal/External	\$ 800,000	\$ 800,000	23,710	776,290	\$ 800,000	\$ -	\$ 776,290	\$ 776,290	\$ 776,290
Water System Reservoirs 2005 Improvements	\$ 42,350,000	\$ 58,830,170	3,343,423	18,693,127	\$ 22,036,550	\$ 36,793,620	\$ 55,486,747	\$ 55,486,747	\$ 55,486,747
Uqum Water Treatment Plant Reservoir	\$ 6,410,000	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -
Water Audit Program & Water Loss Control Plan	\$ 1,000,000	\$ 550,000		389,562	\$ 389,562	\$ 160,438	\$ 550,000	\$ 550,000	\$ 550,000
Aqana Heights & Chaot Tanks	\$ 1,220,000	\$ 1,220,000		500,000	\$ 500,000	\$ 720,000	\$ 1,220,000	\$ 1,220,000	\$ 1,220,000
Tank Major Repair Yiqo#1 Manqilao#2 Aqat#2	\$ 1,895,000	\$ 1,822,133	348,952	1,473,181	\$ 1,822,133	\$ 0	\$ 1,473,181	\$ 1,473,181	\$ 1,473,181
Tank Major Repair Yiqo#1 Manqilao#2 Aqat#2	\$ 10,500,000	\$ 7,300,000		7,300,000	\$ 7,300,000	\$ -	\$ 7,300,000	\$ 7,300,000	\$ 7,300,000
Fire Hydrant Replacement Program	\$ 2,000,000	\$ 1,200,000			\$ -	\$ 1,200,000	\$ 1,200,000	\$ 1,200,000	\$ 1,200,000
	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -
Wastewater System Planning	\$ 349,000	\$ 312,983	311,040	1,943	\$ 312,983	\$ -	\$ 1,943	\$ 1,943	\$ 1,943
Lift Station Upgrades	\$ 2,404,000	\$ 1,714,755	309,856	154,899	\$ 464,755	\$ 1,250,000	\$ 1,404,899	\$ 1,404,899	\$ 1,404,899
Wastewater Collection System Repl/Rehab	\$ 2,920,000	\$ 1,055,478	26,346.18	529,132	\$ 555,478	\$ 500,000	\$ 1,029,132	\$ 1,029,132	\$ 1,029,132
Baza Gardens STP Replacement	\$ 16,700,000	\$ 22,663,776	18,574,171	4,089,504	\$ 22,663,675	\$ 101	\$ 4,089,605	\$ 4,089,605	\$ 4,089,605
Facilities Plan/Design for Umatac-Merizo WWTP	\$ 527,000	\$ 252,105	239,065	13,040	\$ 252,105	\$ -	\$ 13,040	\$ 13,040	\$ 13,040
Aqat/Santa Rita STP Replacement	\$ 3,000,000	\$ 2,002,331	1,803,754	198,577	\$ 2,002,331	\$ -	\$ 198,577	\$ 198,577	\$ 198,577
Aqana WWTP Interim Measures	\$ 827,000	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -
Umatac Merizo Replacement	\$ 8,000,000	\$ 20,800,000	7,711,545	13,005,430	\$ 20,716,975	\$ 83,025	\$ 13,088,455	\$ 13,088,455	\$ 13,088,455
	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -
Wastewater Pump Station Electrical Upgrade	\$ 100,000	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -
Electrical Upgrade - Water Wells	\$ 650,000	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -
Electrical Upgrade - Water Booster	\$ 323,000	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -
SCADA Improvements – Phase 3	\$ 1,177,000	\$ 1,077,497	409,675	392,328	\$ 802,003	\$ 275,494	\$ 667,822	\$ 667,822	\$ 667,822
SCADA Improvements – Phase 4	\$ 6,500,000	\$ 4,378,118	217,433	3,726,316	\$ 3,943,749	\$ 434,369	\$ 4,160,685	\$ 4,160,685	\$ 4,160,685
	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -
Laboratory Modernization	\$ 1,127,000	\$ 1,127,000	1,127,000	-	\$ 1,127,000	\$ -	\$ -	\$ -	\$ -
Land Survey	\$ 1,998,000	\$ 1,260,524	519,841	740,682	\$ 1,260,524	\$ 0	\$ 740,683	\$ 740,683	\$ 740,683
General Plant Improvements / Water	\$ 2,769,463	\$ 1,543,760	716,554	780,392	\$ 1,496,947	\$ 46,813	\$ 827,206	\$ 827,206	\$ 827,206
Information Technology Integration Improvements	\$ 500,000	\$ 500,000	244,068	-	\$ 244,068	\$ 255,932	\$ 255,932	\$ 255,932	\$ 255,932
Interest Earned	\$ -	\$ -			\$ -	\$ 2,413,002	\$ 2,413,002	\$ 2,413,002	\$ 2,413,002
Total Construction Fund (2016 Series Revenue B	\$ 140,019,463	\$ 140,019,463	\$ 37,655,699	\$ 53,233,984	\$ 90,889,683	\$ 51,542,782	\$ 104,776,766	\$ 104,776,766	\$ 104,776,766

GWA Work Session - February 19, 2019 - DIVISION REPORTS

GUAM WATERWORKS AUTHORITY
2010 Series Bond Project Status
As of January 31, 2019

SCHEDULE M

PROJECT NAME	ORIGINAL		Adjusted Project Cost	EXPENDITURES AS OF 01/31/19	OUTSTANDING ENCUMBRANCES	TOTAL EXPENDITURES AND		UNOBLIGATED PROJECT COST	Construction fund balance AS OF 01/31/19
	APPROVED PROJECT COST					ENCUMBRANCES			
Ground Water Disinfection	\$	-	\$ 500,000	\$ 438,141	\$ 61,859	\$ 500,000	\$ 0	\$ 61,859	
"A" Series Well Transmission Line	\$	600,000	\$ 475,709	\$ 474,434	\$ 1,274	\$ 475,709	\$ 0	\$ 1,275	
Water Booster Pump Station	\$	500,000	\$ 500,000	\$ 418,844	\$ 81,156	\$ 500,000	\$ (0)	\$ 81,156	
Meter Replacement Program	\$	2,500,000	\$ 10,450,000	\$ 10,255,079	\$ 18,549	\$ 10,273,628	\$ 176,372	\$ 194,921	
Barrigada Tank Repair/Replacement	\$	-	\$ 5,450,000	\$ 5,442,302	\$ 7,698	\$ 5,450,000	\$ 0	\$ 7,698	
Leak Detection			\$ 200,000	\$ -	\$ 200,000	\$ 200,000	\$ -	\$ 200,000	
Potable Water System Planning	\$	200,000	\$ 200,000	\$ 180,927	\$ 19,073	\$ 200,000	\$ -	\$ 19,073	
Implement Ground Water Rule			\$ 1,699,999	\$ 1,499,464	\$ 200,535	\$ 1,700,000	\$ (1)	\$ 200,535	
Brigade II (Ugum Lift) BPS Upgrade	\$	1,200,000	\$ 1,900,000	\$ 298,050	\$ 34,188	\$ 332,238	\$ 1,567,762	\$ 1,601,950	
Deep Well Rehabilitation	\$	548,000	\$ 548,000	\$ 548,000	\$ -	\$ 548,000	\$ -	\$ -	
New Deep Wells at Down Hard	\$	3,773,000	\$ 485,743	\$ 485,743	\$ -	\$ 485,743	\$ 0	\$ 0	
Rehabilitation of Asan Springs	\$	900,000	\$ 1,100,000	\$ 188,771	\$ 152,068	\$ 340,838	\$ 759,162	\$ 911,229	
Master Meters	\$	1,600,000	\$ 1,489,957	\$ 1,421,267	\$ 68,690	\$ 1,489,957	\$ (0)	\$ 68,690	
Ugum Water Treatment Plant Intake	\$	3,670,000	\$ 700,000	\$ 543,615	\$ 156,385	\$ 700,000	\$ -	\$ 156,385	
Water Wells			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Water Distribution System			\$ 3,174,748	\$ 3,174,748	\$ -	\$ 3,174,748	\$ (0)	\$ (0)	
Pressure Zone Realignment /	\$	3,550,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Northern System Water Distribution	\$	2,725,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Central Water Distribution System 2005	\$	1,200,000	\$ 775,002	\$ 730,182	\$ 44,820	\$ 775,002	\$ (0)	\$ 44,820	
Southern Water Distribution System	\$	1,800,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Mechanical/Electrical Equipment	\$	1,360,000	\$ 1,200,000	\$ 1,079,495	\$ 120,505	\$ 1,200,000	\$ (0)	\$ 120,505	
Water Reservoir Internal/External	\$	500,000	\$ 2,150,000	\$ 1,083,817	\$ 429,866	\$ 1,513,683	\$ 636,317	\$ 1,066,183	
Water Reservoir Internal/External	\$	2,400,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Water System Reservoirs 2005 Improvements	\$	11,697,000	\$ 1,050,000	\$ 1,050,000	\$ -	\$ 1,050,000	\$ 0	\$ 0	
Distribution System Upgrades	\$	3,182,000	\$ 474,160	\$ 456,678	\$ 17,481	\$ 474,160	\$ 0	\$ 17,482	
Ugum Water Treatment Plant Reservoir	\$	3,672,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Water Audit Program & Water Loss Control Plan			\$ 78,459	\$ 15,031	\$ 63,428	\$ 78,459	\$ 0	\$ 63,429	
Production Plan / Reduce Navy Purchases	\$	-	\$ 100,000	\$ 94,286	\$ 5,714	\$ 100,000	\$ -	\$ 5,714	
Hydraulic Assessment of Tank	\$	-	\$ 500,000	\$ 497,004	\$ 2,996	\$ 500,000	\$ -	\$ 2,996	
Agana Heights & Chaot Tanks	\$	-	\$ 4,700,000	\$ 4,350,014	\$ 349,986	\$ 4,700,000	\$ -	\$ 349,986	
Tank Major Repair Yigo#1 Mangilao#2 Agat#2	\$	-	\$ 1,848,013	\$ 1,765,504	\$ 82,510	\$ 1,848,013	\$ (0)	\$ 82,509	
Tank Major Repair Yigo#1 Mangilao#2 Agat#2			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Assessment of maloljoj Elevetad & Yigo Elevated	\$	-	\$ 200,000	\$ 200,000	\$ -	\$ 200,000	\$ -	\$ -	
Public Water System Asser Inventory/Condition Assesment	\$	-	\$ 100,000	\$ 98,414	\$ 1,586	\$ 100,000	\$ -	\$ 1,586	
Public Water System GIS & Mapping	\$	-	\$ 50,000	\$ 50,000	\$ -	\$ 50,000	\$ -	\$ -	
Wastewater System Planning	\$	1,500,000	\$ 1,474,000	\$ 1,468,176	\$ 5,824	\$ 1,474,000	\$ -	\$ 5,824	
Wastewater Vehicles	\$	235,000	\$ 235,000	\$ 209,795	\$ 25,205	\$ 235,000	\$ 0	\$ 25,205	
NDWWTP - Chlorine Tanks	\$	250,000	\$ 250,000	\$ 250,000	\$ -	\$ 250,000	\$ -	\$ -	
Tumon Bay Sewer Upgrades	\$	100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Wastewater Collection System Rep/Rehab			\$ 1,001,323	\$ 723,591	\$ 187,564	\$ 911,155	\$ 90,168	\$ 277,732	
Facilities Plan/Design for Baza Gardens WWTP	\$	1,250,000	\$ 1,250,000	\$ 1,245,244	\$ 4,756	\$ 1,250,000	\$ -	\$ 4,756	
Facilities Plan/Design for Agat-Santa Rita WWTP	\$	900,000	\$ 899,630	\$ 891,702	\$ 7,928	\$ 899,630	\$ -	\$ 7,928	
Priority 1 Sewer Upgrades - Baza Gardens WWTP	\$	650,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Baza Gardens STP Replacement	\$	3,567,000	\$ 1,488,378	\$ 1,151,947	\$ 314	\$ 1,152,261	\$ 336,117	\$ 336,431	
Facilities Plan/Design for Umatac Merizo WWTP			\$ 853,858	\$ 760,845	\$ 93,013	\$ 853,858	\$ (0)	\$ 93,013	
Agat/Santa Rita STP Replacement	\$	2,968,000	\$ 2,217,700	\$ 2,217,314	\$ 387	\$ 2,217,701	\$ (1)	\$ 386	
Northern District WWTP Primary Treatment Upgrades	\$	-	\$ 11,743,514	\$ 11,532,253	\$ 25,059	\$ 11,557,313	\$ 186,201	\$ 211,261	
Biosolids Management Plan			\$ 200,000	\$ 196,414	\$ 3,586	\$ 200,000	\$ -	\$ 3,586	
Agana WWTP Interim Measures	\$	-	\$ 11,300,000	\$ 11,254,925	\$ 45,076	\$ 11,300,000	\$ (0)	\$ 45,075	
I&I SSES Southern			\$ 800,000	\$ 794,722	\$ 5,278	\$ 800,000	\$ (0)	\$ 5,278	
I&I SSES Central			\$ 850,000	\$ 794,325	\$ 55,675	\$ 850,000	\$ -	\$ 55,675	
I&I SSES Northern			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Umatac Merizo Replacement			\$ 250,000	\$ 247,431	\$ 2,569	\$ 250,000	\$ -	\$ 2,569	
Northern District WWTP Secondary Treatment Upgrades			\$ 1,000,000	\$ 948,250	\$ -	\$ 948,250	\$ 51,750	\$ 51,750	
Well Electrical Protection	\$	26,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
SCADA Pilot Project	\$	300,000	\$ 61,950	\$ 19,812	\$ 42,138	\$ 61,950	\$ (0)	\$ 42,138	
Electrical Upgrade - Water Wells	\$	3,000,000	\$ 354,227	\$ 339,948	\$ 14,278	\$ 354,227	\$ 0	\$ 14,279	
Electrical Upgrade - Water Booster	\$	325,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Electrical Upgrade -Water Booster	\$	350,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Electrical Upgrade - Other Water	\$	250,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
SCADA Improvements - Phase 1	\$	250,000	\$ 250,000	\$ 194,849	\$ 55,151	\$ 250,000	\$ -	\$ 55,151	
SCADA Improvements - Phase 2	\$	1,100,000	\$ 1,056,986	\$ 1,028,284	\$ 28,702	\$ 1,056,986	\$ -	\$ 28,702	
SCADA Improvements - Phase 3	\$	2,500,000	\$ 24,956	\$ 24,956	\$ -	\$ 24,956	\$ 0	\$ 0	
SCADA Improvements - Phase 4	\$	850,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Laboratory Modernization	\$	1,200,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Land Survey	\$	1,500,000	\$ 499,688	\$ 471,450	\$ 28,237	\$ 499,687	\$ 1	\$ 28,238	
General Plant Improvements / Water	\$	14,370,000	\$ 7,241,000	\$ 7,241,000	\$ 0	\$ 7,241,000	\$ 0	\$ 0	
Interest Earned							\$ 192,616	\$ 192,616	
Total Construction Fund (2010 Series Revenue Bond)	\$	87,402,000	\$ 87,402,000	\$ 80,847,043	\$ 2,751,108	\$ 83,598,151	\$ 3,996,465	\$ 6,747,573	

- 1.) PUC's Docket 11-01 \$29,000,000.00 dated 09/19/11 authorized GWA for reallocation
2.) PUC's Docket 11-01 Reallocation of \$23,246,000.00 dated 07/30/12
3.) PUC's Docket Reallocation dated February 2013