

### 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., July 16, 2019

### **AGENDA**

### 1. ISSUES FOR DECISION

- 1.1 Relative to Approval of Fire Hydrant (Dry Barrel) Replacement Project Phase I, GWA Project No. W19-002-BND / Resolution No. 38-FY2019
- 1.2 Relative to Approval of the Contract with Total Chemicals and JMI-Edison for the Additional Purchase of Wastewater Chemicals for Wastewater Treatment Plants / Resolution No. 39-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: CCU Special Mtg 7/18 9 a.m.; GPA WS 7/18/19 4:30 p.m.; CCU Regular Monthly Mtg. 7/23 5:30 p.m.
- 6. EXECUTIVE SESSION
  - 6.1 Litigation Matter
- 7. ADJOURNMENT



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

### **Issues for Decision**

### Resolution No. 38- FY2019

Relative to Approval of Fire Hydrant (Dry Barrel) Replacement Project Phase I, GWA Project No. W19-002-BND

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

The Objective of the project is for GWA to replace old, leaking or non-functioning fire hydrants (dry barrel type). GWA has approximately 3,800 fire hydrants throughout the island which were visually inspected and categorized by their condition ranging from "Excellent" to "Extremely Poor". GWA Water Distribution Operations has been able to replace approximately 300 wet barrel fire hydrants from the condition assessment list in several villages due to the simplicity of just changing out the hydrant body. Replacement of dry barrel fire hydrants, however, is more complicated as the work involves additional construction activities such as trenching, pipe and valve replacement, and pavement/concrete demolition and restoration. GWA crews are able to do these types of work activities however commitment of O&M operations crew would take time away from normal operations duties thus the procurement of a contractor to do the work was determined to be more effective for advancing the hydrant replacement program.

### Where is the location?

Hydrant Replacements will occur in the villages of Barrigada, Mangilao, Mongmong-Toto-Maite, Yona, Tamuning, Dededo and Chalan Pago.

### How much will it cost?

The lowest bid proposal submitted that was deemed responsive and responsible was by Mega United Corporation of One Million Two Hundred Forty-Two Thousand Six Hundred Seventy Dollars (\$1,242,670.00). GWA management also seeks a ten percent (10%) contingency or One Hundred Twenty-Four Thousand Two Hundred Sixty-Seven Dollars (\$124,267.00) to bring the total authorized funding request to One Million Three Hundred Sixty-Six Thousand Nine Hundred Thirty-Seven Dollars (\$1,366,937.00).

### When will it be completed?

The contractor is given 365 days to completed all work from the time the "Notice to Proceed" is issued.

### What is the funding source?

Funding for this project will be from Bonds funds and revenue funds.

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

8 IFB packages picked up. 3 bid proposals submitted.



### 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. 38-FY2019**

# RELATIVE TO APPROVAL OF FIRE HYDRANT (DRY BARREL) REPLACEMENT PROJECT PHASE I, GWA PROJECT NO. W19-002-BND

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 approximately 3,800 fire hydrants throughout the island which were inspected and categorized in 2013-2014 by CDM Smiths as part of a system evaluation Task Order with USEPA and where the condition of the hydrants ranged from "Excellent" to "Extremely Poor"; and

**WHEREAS**, GWA Water Distribution Operations has been able to replace approximately 300 wet barrel fire hydrants from the condition assessment list in several villages where the simple changing out the hydrant body makes replacement relatively easy; and

WHEREAS, GWA Water Distribution Operations has managed to change out a much smaller number of dry barrel fire hydrants when critically required, however, replacement of dry barrel fire hydrants is much more complex, and in many cases involves more construction activities such as trenching, pipe and valve replacement, pavement/concrete demolition and restoration; and

WHEREAS, GWA finds this type of more complex hydrant replacement work to be more efficiently and effectively conducted by contractors as opposed to GWA operations; and

WHEREAS, on March 20, 2019, GWA advertised the Invitation to Bid IFB-03-ENG-2019 for the Fire Hydrant Replacement Phase I soliciting bid proposals from experienced and responsive bidders to replace fire hydrants, particularly 78 dry barrel type fire hydrants; and

WHEREAS, this project consists of furnishing all labor, tools, equipment and materials, necessary to install new wet barrel fire hydrants to replace dry barrel fire hydrants in the villages of Barrigada, Mangilao, Mongmong-Toto-Maite, Yona, Tamuning, Dededo and Chalan Pago, including coordination with GWA Water Distribution Operations, GWA Engineering, the Department of Public Works and the Guam Fire Department, if necessary; and

**WHEREAS,** IFB packages were obtained by multiple interested parties, from which GWA received bid proposals from three (3) parties (SEE EXHIBIT A – Abstract of Bids) before the bid proposal deadline; and

WHEREAS, GWA Engineering analyzed the bid proposals received and determined that the bid package submitted by Mega United Corporation was the lowest responsive and responsible bid and met all the bid requirements set forth by GWA; and

WHEREAS, GWA Management seeks CCU approval of Mega United Corporation's bid proposal (SEE EXHIBIT B - Bid Proposal) of One Million Two Hundred Forty-Two Thousand Six Hundred Seventy Dollars (\$1,242,670.00), plus the ten percent (10%) contingency of One Hundred Twenty-Four Thousand Two Hundred Sixty-Seven Dollars (\$124,267.00), to bring the total authorized funding amount to One Million Three Hundred Sixty-Six Thousand Nine Hundred Thirty-Seven Dollars (\$1,366,937.00); and

WHEREAS, GWA Management further seeks CCU approval to petition the Public Utilities Commission approval of the contact given this project meets the Contract Review Protocol requirements for GWA projects for which the use of Bond funds is intended; and

WHEREAS, funding for this project will utilize Bonds funds and revenue funds.

NOW BE IT THEREFORE RESOLVED, the Consolidated Commission on Utilities 1. The recitals set forth above hereby constitute the findings of the CCU. 2. The CCU finds that the terms and 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 the management of GWA to accept the bid proposals from Mega United Corporation (Exhibit B). 4. The CCU hereby further authorizes the management of GWA to enter into a contract with Mega United Corporation in the amount of One Million Two Hundred Forty-Two Thousand Six Hundred Seventy Dollars (\$1,242,670.00). 5. The CCU hereby further approves the funding of One Million Two Hundred Forty-Two Thousand Six Hundred Seventy Dollars (\$1,242,670.00), plus the 10% contingency of One Hundred Twenty-Four Thousand Two Hundred Sixty-Seven Dollars (\$124,267.00), to bring the total authorized funding amount to One Million Three Hundred Sixty-Six Thousand Nine Hundred 6. The CCU hereby further approves the funding for this project will be from the Bonds funds and Internally Funded CIP funds. 7. The CCU hereby further approves GWA management petition the PUC's approval of the project and contract proposal. **RESOLVED**, that the Chairman certified and the Board Secretary attests to the adoption **DULY AND REGULARLY ADOPTED**, this 23<sup>rd</sup> day of July, 2019. Attested by:

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1	SECRETARY'S CERTIFICATE
2	I, Michael T. Limtiaco, Board Secretary of the Consolidated Commission on Utilities a evidenced by my signature above do hereby certify as follows:
4 5 6 7	The foregoing is a full, true and accurate copy of the resolution duly adopted at a regula 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:
8 9	AVIDO
10 11	AYES:
12	NAYS:
13	ABSTENTIONS:
14	ABSENT:
15 16	
17	
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19 20	
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	4

(Name and Signature)

(Name and Signature)

(Name and Signature)

# GUAM WATERWORKS AUTHORITY EXHIBIT A (1 of 1) ORIGINAL ABSTRACT OF BIDS

<u> </u>		ço	7.	6.	5.	4	,ω	2. J	1.		Projec Projec
Bids Opened and Read by:  WHYWA GLORIA 9, BENSAN	GWA ESTIMATE	KORANDO CORPORATION	CRW TRADING	CHANT CONSTRUCTION COSTROBATION CONCE	FRONTIER SUPPLY CO.	CLANT CONST. CORP.	MEGA UNITED CORPORATION	JMI EDISON	CANTON CONSTRUCTION	Bidders Name	Project Name: FIRE HYDRANT REPLACEMENT - PHASE Project Number: W19-002-BND IFB NO.: IFB-0
SYLVIA & MERCAPO						PACIFIC INDEMNITY INS.	FIRST NET INS. CO.		FIRST NET INS. CO.	Section A-5 Bid Bond	NENT - PHASE I IFB NO.: IFB-03-ENG-2019
ROLAND F		1	1			\	\		\	Qualification Statement	
ROLAND F. LUMONGSUD			1			\	1		\	Non Collusion Affidavit	
sentative:		No	Z	No	NO	\	\		\	EEO Certification	
ı		18	BID	BID	120	1	\	NO	\	CERTIFICATIONS  Non Segregated Sex Offer Facilities Certificat	
Witnesses: (Na		0		1	Ū	\	\	810	\	Sex Offender Certification	
Witnesses: (Name and Signature)						\	\	1	\	Wage and Benefit Determination'	
signature)						\	\		\	Major Shareholder Special Instructions Affidavit to Bidders	Bid Opening Date: Tim
13						\	\		\	Special Instructions to Bidders	ng Date: Tim
N I			<u></u>			1	1			1 2	Ite: May 23, Time: 3:00 PM
	<b>₽1,244</b> ,100					\$2,294,400	\$1,242,670		\$1,548,330	TOTAL AMOUNT OF BID	May 23, 2019 3:00 PM

# **Exhibit B** (1 of 7)

### **BID RECIPIENT**

This Bid is submitted to:

Guam Waterworks Authority

Engineering Division, Room 202

Gloria B. Nelson Public Service Building
688 Route 15

Mangilao, Guam 96913

The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into a Contract with Buyer in the form included in the Bidding Documents to furnish the Goods and Special Services as specified or indicated in the Bidding Documents, for the prices and within the times indicated in this Bid, and in accordance with the other terms and conditions of the Bidding Documents.

### **BIDDER'S ACKNOWLEDGMENTS**

Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 60 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Buyer.

### **BIDDER'S REPRESENTATIONS**

In submitting this Bid, Bidder represents that:

Bidder has examined and carefully studied the Bidding Documents, the related data identified in the Bidding Documents, and the following Addenda, receipt of which is hereby acknowledged:

Addendum No.	Addendum Date
ADDENDUM No. 1	APRIL 25, 2019
ADDENOUS No.2	MAY 2 2019
	1

Bidder has visited the Point of Destination and site where the Goods are to be installed or Special Services will be provided and become familiar with and is satisfied as to the <u>observable</u> local conditions that may affect cost, progress, or the furnishing of Goods and Special Services, if required to do so by the Bidding Documents, or if, in Bidder's judgment, any local condition may affect cost, progress, or the furnishing of Goods and Special Services.

Bidder is familiar with and is satisfied as to all Laws and Regulations in effect as of the date of the Bid that may affect cost, progress, and the furnishing of Goods and Special Services.

EJCDC P-400, Suggested Bid Form for Procurement Contracts.

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# Exhibit B (2 of 7)

Bidder has carefully studied, considered, and correlated the information known to Bidder; information commonly known to sellers of similar goods doing business in the locality of the Point of Destination and the site where the Goods will be installed or where Special Services will be provided; information and observations obtained from Bidder's visits, if any, to the Point of Destination and the site where the Goods will be installed or Special Services will be provided; and any reports and drawings identified in the Bidding Documents regarding the Point of Destination and the site where the Goods will be installed or where Special Services will be provided, with respect to the effect of such information, observations, and documents on the cost, progress, and performance of Seller's obligations under the Bidding Documents.

Bidder has given Engineer written notice of all conflicts, errors, ambiguities, and discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution (if any) thereof by Engineer is acceptable to Bidder.

The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for furnishing the Goods and Special Services for which this Bid is submitted.

### **BIDDER'S CERTIFICATIONS**

### Bidder certifies that:

This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation;

Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;

Bidder has not solicited or induced any individual or entity to refrain from bidding; and

Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D:

- 1. "corrupt practice" means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process;
- "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Buyer, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Buyer of the benefits of free and open competition;
- "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Buyer, a purpose of which is to establish bid prices at artificial, non-competitive levels; and
- "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process.

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# ADDENDUM NO. 01

# Exhibit B (3 of 7)

1.1 Mobilization 1.2 Bonding fee and inst 1.3 Permit application f 1.4 Traffic control 1.5 Right of Way Confirr 1.7 Demobilization 2.0 Day Barrel Replacement Dry Barrel Fire Hydrant barrel fire hydrant barrel to the 2.1 location). Wet Barrel Fire Hydront bolts. The contractor will fire breakaway flange, 6' breakaway flange, 6' breakaway flange, 6' breakaway flange, 6'									
1.0 General Reg 1.1 Mobiliza 1.2 Bonding 1.3 Permit a 1.4 Traffic o 1.7 Demobil 2.0 Dry Barrel H Dry Barrel H OFCI, Ov barrel fil bolts. The con breakav			GWA Pr	GWA Project No. W19-002-BND	19-002-BN	٥			
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1.1 Mobiliza 1.2 Bonding 1.3 Permit a 1.4 Traffic c 1.5 Right of 1.7 Demobil 2.0 Dry Barrel R hydrant 2.1 location 2.1 location OFCI, Ov barrel file bolts. The con breakav	-	Description			Qtby	Unit	Unit Cost	Sub-Tetal	
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1.2 Bonding 1.3 Permit a 1.4 Traffic c 1.5 Right of 1.7 Demobil 2.0 Dry Barrel R Dry Barrel R Ordrant 2.1 location 2.1 location OFCI, Ov barrel fill bolts. The con breakav	ıtion				1	LS	\$ 12,965.50	\$ 12,955.50	
1.3 Permit a 1.4 Traffic c 1.5 Right of 1.7 Demobil 2.0 Dry Barrel R Phydrant 2.1 location 2.1 location OFCI, Ov barrel fill bolts. The con breakav	1.2 Bonding fee and insurance				1	SI	\$ 48.935.00	co.546.86 \$	
1.4 Traffic of 1.5 Right of 1.7 Demobil 2.0 Dry Barrel R Dry Barrel R Ordrant 2.1 location OFCI, Ov barrel fill bolts. The con breakav	1.3 Permit application fee				1	LS	8 17, 325.00	\$ 17,325.00	
1.5 Right of 1.7 Demobil 2.0 Dry Barrel R Dry Barrel R hydrant 2.1 location OFCI, Ov barrel fill bolts. The con	ontrol				1	SJ	8 10.500.00	\$ 10.500 .00	
2.0 Dry Barrel R Dry Barrel R entire ey hydrant 2.1 location OFCI, Ov barrel fill bolts.	1.5 Right of Way Confirmation				1	SJ	\$ 4,500.00	\$ 4,500.00	
2.0 Dry Barrell R Dry Barrell R entire ey hydrant 2.1 location Wet Bar OFCI, Ov barrel fill bolts. The con breakaw	ization				1	SJ	y 12, 955.50	\$ 13 950 50	
Dry Barre entire ey hydrant 2.1 location Wet Bar OFCI, Ov barrel fill bolts. The con breakay	eplacement		4	77.7				The same of the sa	
entire ey hydrant 2.1 location Wet Bar OFCI, Ov barrel fill bolts. The con breakav	Dry Barrel Fire Hydrant Removal: Excavate, expose, remove and dispose the	ioval: Excavate, ex	pose, remove and	dispose the					
Wet Bar Wet Bar OFCI, Ov barrel fill bolts. The con breakav		hydrant assemblic	es from the above	grade fire					
2.1 location  Wet Bar  OFCI, Ov  barrel fil  bolts.  The con'	hydrant barrel to the main p	ipe connection pol	pipe connection point (See index of hydrant	/drant			<b>.</b>		
Wet Bar OFCI, Ov barrel fi bolts. The con					78	each	\$ 2,100.00	\$ 163,800 .00	$\exists$
OFCI, Over Darrel fine bolts.  The control breakav	indicated the bottom of the second second	9		7					
OFCI, Over the control of the contro	reii riie ukulaiir iii)			·					
barrel fir bolts. The con breakav	OFCI, Owner Furnished Contractor installed; GWA will furnished the wet	ractor installed; G	WA will turnished t	ine wet					
bolts. The conf	barrel fire hydrant body, flange end with 6 holes complete with nuts and	ige end with 6 hole	es complete with n	uts and					
The conf breakaw				<u>.</u>					
breakaw		nd install the addit	ind install the additional materials from the	m the	Vien C				
	breakaway flange, 6" DIP or I	PVC C-900 restrain	PVC C-900 restrained joints vertical leg (flange	eg (flange					
end 6 hc	end 6 holes with bolts and nuts), 6"X6" 90 degree elbow, hydrant spool pipe	uts), 6"X6" 90 degr	ree elbow, hydrant	spool pipe					
6" DIP o	6" DIP or PVC C-900 pipe with restrained joints, 6" gate valve, valve box,	h restrained joints	, 6" gate valve, val	ve box,					
valve bo	valve box frame and cover, to	apping sleeve (MJ	tapping sleeve (MJ Connection), tapping valve	ing valve					
valve (N	valve (MJXMJ), hydrant connection for water main with MJ Tee, DIP Nipple,	ection for water n	nain with MJ Tee, [	OIP Nipple,					
gatevalv	gatevalve (MJXMJ), tie rods and 8"X6" reducer as needed, complete in	and 8"X6" reducer	as needed, comple	ete in					
placed w	placed with base, sub-based preparation, basecourse, bedding	l preparation, base	course, bedding						
sand,cor	sand, compaction and compaction test complete in place. To include all	ıction test complet	te in place. To inclu	rde all			1		
2.2 governn	2.2 government engineer, inspector and maintenance crew overtime.	ctor and maintena	nce crew overtime		78	each	\$ 8,408.00	\$ 655,824.00	

it	51, 212,670:02				TOTAL AMOUNT OF BID
ib					
hi	\$ 22,000.00	8 22,000.00	each	1	3.5 Asbestos: Removal, handling, hauling and disposal
X	\$ 79,905.00	\$ 79.905.00	SJ	F	3.4 Testing: Conduct fire flow test for each hydrant and disinfection.
E	\$ 8,000.00	\$ 8,000.00	SI	1	Incidental work: Flowable fill concrete and temporary steel plate cover as 3.3 needed.
\	\$ 57, 260.00	St. 300-00	รา	1	3.2 course, compaction and compaction test complete in placed as needed.
	•	}			complete with base and sub-based preparation, backfil materials, base
					Permanent Road Restoration, asphalt or concrete paving to match existing
7	\$ 70,000.00	\$ 10,000.00	รา	1	3.1 Concrete Repair: Sidewalk, curb and gutter concrete repair.
			**		3.0 Project Completion
=	co·04/1 \$	\$ 15.00	Each	78	2.8 Fire Hydrant Name Tag
\	\$ 1,560.00	\$ 20.00	each	78	2.7 as per DPW Standard.
					Blue Pavement Markers: Install blue pavement reflector as hydrant locator
52,500,24	\$ 52,500.00	J 673. 08	each	78	2.6 complete in placed with concrete foundation as per standards.
				2.00	(1/8" Wall thickness), 6-65/8" diameter with two silver reflective tape
					Bollards: Pipe bollards 4 pcs. each hydrant; 6" outside diameter steel pipe filled with solid concrete complete with Dome Top Reflective Bollard Covers
44,999,76	\$ 45,000.00	\$ 576.92	each	78	2.5 complete in place.
					Top slab: 4" to 6" at finished grade below the breakline of the hydrant
\ \	\$ 15,000.00	S 15,000.00	รา	П	2.4 work complete in placed.
					point, including 16"X16"X4" bottom concrete slab for 90 degree elbow, all
					undisturbed earth to support 90 degree elbow, 6" gate alve and connection
					Concrete Thrust Blocks: Approximate 2'X2'X3' to be poured against
\	\$ 23,400.00	\$ 23,400.00	SI	1	2.3 with 1" top filler.
					complete with #10; 6/6 WWF rebar and 1/2" premolded expansion joint
					hydrant's center line when not located within sidewalk or concrete area,
					Concrete Pad: 3'X3'X6" Square Concrete Pad to be constructed around fire

Total Amount of Bid:

(in words)

B (4 of 7)

# Exhibit B (5 of 7)

Bidder acknowledges that estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all unit price Bid items will be based on actual quantities, determined as provided in the Contract Documents. Bidder also acknowledges that each unit price includes an amount considered by Bidder to be adequate to cover Bidder's overhead and profit for each separately identified item.

### TIME OF COMPLETION

Bidder agrees that the furnishing of Goods and Special Services will conform to the schedule set forth in Article 5 of the Agreement.

Bidder accepts the provisions of the Agreement as to liquidated damages.

### ATTACHMENTS TO THIS BID

The following documents are attached to and made a condition of this Bid:

Required Bid security in the form of 15% of the Total Bid Amount 1, 242,670 - 00

List of Proposed Major Suppliers;

Required Bidder Qualification Statement with Supporting Data.

### **DEFINED TERMS**

The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

### **BID SUBMITTAL**

This	Bid submitted by:
	If Bidder is:
	An Individual
	Name (typed or printed):
	Ву:
	(Individual's signature)
	Doing business as:
	Business address:
	Phone:Facsimile:
	E-mail address:
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# Exhibit B (6 of 7)

<u>A Partnership</u>	
Partnership Name:(SI	EAL)
By:	
By:(Signature of general partner - attach evidence of authority to sign)	
Name (typed or printed):	
Business address:	
Phone:Facsimile:	
E-mail address:	
A Corporation	
Corporation Name: MEGA UNITED (DRPORATION	
State of Incorporation: GYAM	
Type (General Business, Professional, Service, other): LORPORATION	
Ву:	
(Signature - attach evidence of authority to sign)	
Name (typed or printed): 24mw 24AN6 DOW	-
Title: PRESIDENI	4 -1
Attest (CORPORATE SEAL) (Signature of Corporate Secretary)	il .
Business address: /XORA INDUSTRIAL PARK	
215 ROJAS OF JUINE 208 HARMON GUAM 969/3	
Phone: 689 3293 Facsimile: 649 0387	
Phone: US9 3293 Facsimile: 649 0387 E-mail address: WMh @ netpo: Com	
A Limited Liability Company (LLC)	
LLC Name:State in which organized:	
By:(Signature - attach evidence of authority to sign)	
Name (typed or printed):	
Title:	
Dualifead dudi ead.	
Phone:Facsimile:	
E-mail address:	
EJCDC P-400, Suggested Bid Form for Procurement Contracts.	
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# Exhibit B (7 of 7)

A Joint Venture	
First Joint Venturer Name:(SEAL	.)
By:(Signature - attach evidence of authority to sign)	<del></del>
Name (typed or printed):	
Title:	
Business address:	
Phone:Facsimile:	
E-mail address:	
Second Joint Venturer Name:(SEAL	)
By:(Signature - attach evidence of authority to sign)	
Name (typed or printed):	
Business address:	
Phone:Facsimile:	
E-mail address:	
Phone and Facsimile Number, and Address for receipt of official communications to Joint Vent	ure:
(Each joint venturer must sign. The manner of signing for each individual, partnership, corpora and limited liability company that is a party to the joint venture should be in the manner indica above.)	

EJCDC P-400, Suggested Bid Form for Procurement Contracts.

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### **Issues for Decision**

### Resolution No. 39-FY2019

Relative to Approval of the Contract with Total Chemical Resources, Inc. and JMI Edison for the Purchase of Wastewater Chemicals for Wastewater Treatment Plants.

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

The objective is to provide wastewater treatment chemicals to the Northern District and Hagåtña WWTPs for chemically enhanced primary treatment as required by USEPA and specified in § II A Paragraphs 2 and 5 of the 2011 Court Order, and to the Agat-Santa Rita Wastewater Treatment Plants for secondary treatment to ensure the reduction of solids and the discharge of effluent complying with permits for those facilities.

### Where is the location?

Northern District, Hagåtña and Agat-Santa Rita Wastewater Treatment Plants.

### How much will it cost?

Two Million Six Hundred Twenty-Seven Thousand Five Hundred Thirty-Six Dollars and Fifty-Six Cents (\$2,627,536.56) for Inorganic Coagulant for three years based on an estimated annual consumption of 803,528 at \$1.09 per pound with Total Chemical Resources, Inc. and One Million Sixty-Four Thousand Fifty-Three Dollars and Fifty-Three Cents (\$1,064,053.53) for Anionic Polymer for three years based on the annual consumption of 111,763 at \$1.16 per pound and Cationic Polymer at an annual consumption of 138,061 at \$1.63 per pound with JMI Edison.

GWA management is also seeking a ten percent (10%) contingency in the amount of \$262,753.66 for the contract with Total Chemicals bringing the total authorized funding to Two Million Eight Hundred Ninety Thousand Two Hundred Ninety Dollars and Twenty-Two Cents (\$2,890,290.22) and an amount of \$106,405.35 for the contract with JMI Edison which would bring the total authorized funding to One Million One Hundred Seventy Thousand Four Hundred Fifty-Eight Dollars and Eighty-Eight Cents (\$1,170,458.88).

### When will it be completed?

Three (3) years with two (2) one (1) year options to renew.

### What is the funding source?

O & M

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

9 downloaded

2 submitted

Total Chemical Resources, Inc was awarded the bid for Inorganic Coagulant ("ACH") JMI Edison was awarded the bid for Anionic Polymer and Cationic Polymer.



### CONSOLIDATED COMMISSION ON UTILITIES

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

### **RESOLUTION NO. 39-FY2019**

# RELATIVE TO APPROVAL OF THE CONTRACT WITH TOTAL CHEMICAL RESOURCES, INC. AND JMI-EDISON FOR THE PURCHASE OF WASTEWATER CHEMICALS FOR WASTEWATER TREATMENT PLANTS

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 2011 Court Order ("CO") Projects, including system upgrades at the Northern District Wastewater Treatment Plant (NDWWTP) and the Hagåtña Wastewater Treatment Plant (HWWTP) to use Chemically Enhanced Primary Treatment as specified in § II A Paragraphs 2 and 5 of the CO; and

**WHEREAS**, GWA has completed the system upgrades of both WWTPs to use Chemical Enhanced Primary Treatment and is now operating the plants as specified in the CO; and

**WHEREAS**, the Chemically Enhanced Primary Treatment requires the purchase of chemicals for the application of the treatment process at the NDWWTP, and the HWWTP; and

WHEREAS, the secondary treatment process employed at GWA's newest treatment plant, the Agat-Santa Rita Wastewater Treatment Plant (ASRWWTP), will also require the use of these chemicals; and

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WHEREAS, GWA issued Bid Number 2019-17 to solicit bid proposals from experienced and responsive bidders to provide chemicals necessary to continue to operate the Northern District WWTP, the Hagåtña WWTP and the Agat-Santa Rita WWTP in compliance with the Court Order; and

WHEREAS, there were two responsive and responsible bidders who offered chemicals meeting the requirements in IFB 2019-17 (see Exhibit A); and

WHEREAS, the IFB 2019-17 offers were evaluated by GWA's review committee who determined that the best offer for Inorganic Coagulant ("ACH") (for sludge dewatering) was made by Total Chemical Resources, Inc. ("Total Chemicals"); and

WHEREAS, the committee also determined that the best offer for Anionic and Cationic Polymer was made by JMI-Edison ("JMI"); and

WHEREAS, GWA accepted Total Chemical's bid proposal (see Exhibit B) of \$1.09/lb. to supply Inorganic Coagulant for an estimated annual cost of Eight Hundred Seventy-Five Thousand Eight Hundred Forty-Five Dollars and Fifty-Two Cents (\$875,845.52), and for a three (3) year contract totaling Two Million Six Hundred Twenty-Seven Thousand Five Hundred Thirty-Six Dollars and Fifty-Six Cents (\$2,627,536.56);

WHEREAS, GWA also accepted JMI Edison's bid proposal (see Exhibit C) of \$1.16/lb. for Anionic Polymer at an estimated annual cost of One Hundred Twenty-Nine Thousand Six Hundred Forty-Five Dollars and Eight Cents (\$129,645.08), and for a three (3) year contract in the amount of Three Hundred Eighty-Eight Thousand Nine Hundred Thirty-Five Dollars and Twenty-Four Cents (\$388,935.24), and Cationic Polymer at 1.63/lb. for an estimated annual cost of Two Hundred Twenty-Five Thousand Thirty-Nine Dollars and Forty-Three Cents (\$225,039.43), for a three (3) year contract in the amount of Six Hundred Seventy-Five Thousand One Hundred Eighteen Dollars and Twenty-Nine Cents (\$675,118.29), which brings the grand total to One Million Sixty-Four Thousand Fifty-Three Dollars and Fifty-Three Cents (\$1,064,053.53); and

WHEREAS, GWA Management seeks CCU approval of Total Chemical's Contract in the amount of Two Million Six Hundred Twenty-Seven Thousand Five Hundred Thirty-Six Dollars and Fifty-Six Cents (\$2,627,536.56) for the purchase of Inorganic Coagulant ("ACH"), plus a ten percent (10%) contingency totaling Two Million Eight Hundred Ninety Thousand Two Hundred Ninety Dollars and Twenty-Two Cents (\$2,890,290.22) for three (3) years, with the option to renew an additional two (2) one (1) year term; and

WHEREAS, GWA Management further seeks CCU approval of JMI Edison's Contract in the amount of One Million Sixty-Four Thousand Fifty-Three Dollars and Fifty-Three Cents (\$1,064,053.53) for the purchase of Anionic Polymer and Cationic Polymer, plus a ten percent (10%) contingency with a total cost of One Million One Hundred Seventy Thousand Four Hundred Fifty-Eight Dollars and Eighty-Eight Cents (\$1,170,458.88) for a three (3) year contract, with the option to renew for an additional two (2) one (1) year term; and

**WHEREAS**, the source of funding for the purchase of wastewater chemicals will be from the GWA Operations and Maintenance Budget (revenue funds).

**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 hereby finds that the terms of the bid proposals submitted by Total Chemical Resources, Inc and JMI Edison are fair and reasonable.
- 3. The CCU hereby authorizes the management of GWA to proceed based on the notice of award to Total Chemical Resources, Inc. attached hereto as Exhibit D, and the notice of award to JMI Edison attached hereto as Exhibit E both of which are incorporated into this Resolution in its entirety.
- 4. The CCU hereby further authorizes the management of GWA to enter into a contract with Total Chemical Resources, Inc. to purchase chemicals in the amount of Two Million Eight Hundred Ninety Thousand Two Hundred Ninety Dollars and Twenty-Two Cents (\$2,890,290.22) for three (3) years, with the option to renew an additional two (2) one (1) year terms.

1	5. The CCU hereby further authorizes the management of GWA to enter into a
2	Contract with JMI Edison to purchase chemicals in the amount of One
3	Million One Hundred Seventy Thousand Four Hundred Fifty-Eight Dollars
4	and Eighty-Eight Cents (\$1,170,458.88) for three (3) years, with the option to
5	renew an additional two (2) one (1) year terms.
6	6. GWA Management is hereby authorized to seek PUC approval as required
7	by Docket No. 00-04.
8	RESOLVED, that the Chairman certified and the Board Secretary attests to the
9	adoption of this Resolution.
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12	DULY AND REGULARLY ADOPTED, this 23rd day of July, 2019.
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14	Certified by: Attested by:
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16	JOSEPH T. DUENAS MICHAEL T. LIMTIACO
17	Chairperson Secretary
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1	SECRETARY'S CERTIFICATE
2	
3	I, Michael T. Limtiaco, Board Secretary of the Consolidated Commission on Utilities as evidenced by my signature above do hereby certify as follows:
5 6 7	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:
8	
9	AYES:
11	NAYS:
12 13	ABSTENTIONS:
14	ABSENT:
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### **GUAM WATERWORKS AUTHORITY**

"Better Water. Better Lives." Gloria B. Nelson Public Services Building 688 Route 15, Mangilao, Guam 96913

### MEMORANDUM

TO:

General Manager

VIA:

Supply Management Administrator

FROM:

**Evaluation Committee Members** 

SUBJECT: Invitation to Bid No. GWA 2019-17

Ref: Wastewater Treatment Chemicals (IDQ)

REF:

Recommendation of Award

DATE:

July 3, 2019

Invitation for Bid No: GWA 2019-17 was officially announced and advertised in the Pacific Daily News, Guam Daily Post and Guam Waterworks Authority Website on April 17, 2019, subject bid opened as scheduled on June 11, 2019 @ 2:00 pm. Nineteen (19) prospective bidder expressed interest, namely:

### **Bidders Register:**

- 1. Guam Pacific Enterprise
- 2. JMI Edison
- 3. Frontier Supply Company
- 4. Total Chemical Resources
- 5. Gulbrandsen Technologies India PVT LTD
- 6. Jacobs Engineering Group
- 7. Indigo Piping System
- 8. EOSI
- 9. Thatcher Company Inc
- 10. Evoqua Water Technologies
- 11. Shay Enterprises
- 12. Dubois Chemicals Inc
- 13. Deltek Inc
- 14. MD Wholesale
- 15. Megha
- 16. BIB
- 17. Pryzm Consulting
- 18. Light Source
- 19. Carbon Activated Corporation

Ref: IFB 2019-17 Wastewater Treatment Chemicals

Of the Nineteen (19) only Two (2) submitted their bid package, namely:

- JMI Edison Guam
- Total Chemical Resources

An evaluation committee convene on June 21, 2019 @ 10:00, thereby determined JMI Edison Guam and Total Chemical Resources bid proposal deemed responsive and complied with all requirements set for in the IFB cost proposals as follows:

JMI Edison, submitted the lowest cost on Line Item Nos: 2 and 3

Total Chemical Resources, submitted the lowest cost Line Item No: 1

### BID FORM FOR CHEMICALS FOR GWA'S NDWWTP, HWWTP & ASRWWTP

### JMI Edison cost submittal

Item No. 2: Coagulant Aid (e.g. anionic polymer)

Price per pound delivered CIF: \$1.16

Product Label Name: Hydrex 6104 Anionic Emulsion Polymer

\$1.16 x 125,789 lbs. = \$145,915.24 (Annual Cost)

 $145,915.24 \times 3 \text{ years} = 437,745.72$ 

Item No. 3: Cationic Polymer

Price per pound delivered CIF: \$1.63

Product Label Name: Hydrex 6402 Cationic Emulsion Polymers

\$1.63 x 138,061 lbs. = \$225,039.43 (Annual Cost)

\$225,039.43 x 3 years = \$675,118.29

### Total Chemical Resources cost submittal:

Item No. 1: Inorganic Coagulant

Product <u>ACH Powder (ACHIEVE D1012)</u>
Price per pound delivered CIF: <u>\$1.09</u>

Product Label Name: ACHIEVE D1012 ACH POWDER

\$1.09 x 803,528 lbs. = \$875,845.52 (Annual Cost)

 $875,845.52 \times 3 \text{ years} = 2,627,536.56$ 

Grand Total: \$1,246,800.19 (Annually)

Three (3) Year Contract: \$3,740,400.57

### **End of Evaluation:**

NOTE: Subject for CCU and PUC approval.

Ref: IFB 2019-17 Wastewater Treatment Chemicals

Ref: IFB 2019-17 Wastewater Treatment Chemicals

Concurred and accepted by the committee member	ers:
Port Ily 07/08/	2019
Paul Kemp, Assistant General Manager	
Dave Fletcher, Wastewater Treatment Manager	
Dans 4- N 7/8/19	
Daniel Aguon, Wastewater Treatment Supervisor	<del></del>
	34 ·
Antonio C. Camacho, Buyer II	
RL	
Roland F. Lumon sud, Buyer II	
	$\alpha$
	Your approval is greatly appreciated.
	MADAMA MAAQ
	Mary D. Torres
	7
Reviewed by legal:	

In consideration of the foregoing, please indicate your approval of this recommendation by your signature below.

CONCURRED [ ] UNCONCURRED

VINCENT ED. GUERRERO, SMA

[ APPROVED [ ] DISAPPROVED

MIGUEL C. BORDALLO, P.E. GENERAL MANAGER

# **EXHIBIT B**

### GWA IFB 2019-17

BID FORM FOR CHEMICALS FOR GWA'S NDWWTP AND HWWTP (TO BE PLACED IN A SEALED ENVELOPE AND DELIVERED WITH TECHNICAL PROPOSAL)

Place of Origin: Naperville, Illinoisl U.S.A>  Time of first Delivery: 45 days After Receipt of Purchase Order  Reorder lead time: 30 days Upon Receipt of Purchase Order	\$ 2.26 per pound Estmated Annual Consumption: 111,763 lbs x \$ 2.26 = \$ 252,584.38
Time of first Delivery: 60 days (days)  After Receipt of Purchase Order  Reorder lead time: 30 days (days)  Upon Receipt of Purchase Order  2. Coagulant Aid (e. g. anionic polymer) Price per pound delivered CII  Manufacturer: NALCO An Ecolab Company  Product Label Name: NALCLEAR 7767 Anionic Flocculant  Place of Origin: Naperville, Illinoisl U.S.A>  Time of first Delivery: 45 days (days)  After Receipt of Purchase Order  Reorder lead time: 30 days (days)  Upon Receipt of Purchase Order	Estmated Annual Consumption: 111,763 lbs x \$ 2,26 =
After Receipt of Purchase Order  Reorder lead time:  30 days Upon Receipt of Purchase Order  2. Coagulant Aid (e. g. anionic polymer) Price per pound delivered CII  Manufacturer: NALCO An Ecolab Company  Product Label Name: NALCLEAR 7767 Anionic Flocculant  Place of Origin: Naperville, Illinoisl U.S.A>  Time of first Delivery:  45 days After Receipt of Purchase Order  Reorder lead time:  30 days Upon Receipt of Purchase Order	Estmated Annual Consumption: 111,763 lbs x \$ 2,26 =
Upon Receipt of Purchase Order  2. Coagulant Aid (e. g. anionic polymer) Price per pound delivered CII  Manufacturer: NALCO An Ecolab Company  Product Label Name: NALCLEAR 7767 Anionic Flocculant  Place of Origin: Naperville, Illinoisl U.S.A>  Time of first Delivery: 45 days (days)  After Receipt of Purchase Order  Reorder lead time: 30 days (days)  Upon Receipt of Purchase Order	Estmated Annual Consumption: 111,763 lbs x \$ 2,26 =
Manufacturer: NALCO An Ecolab Company  Product Label Name: NALCLEAR 7767 Anionic Flocculant  Place of Origin: Naperville, Illinoisl U.S.A>  Time of first Delivery: 45 days (days)  After Receipt of Purchase Order  Reorder lead time: 30 days (days)  Upon Receipt of Purchase Order	Estmated Annual Consumption: 111,763 lbs x \$ 2,26 =
Product Label Name: NALCLEAR 7767 Anionic Flocculant  Place of Origin: Naperville, Illinoisl U.S.A>  Time of first Delivery: 45 days	111,763 lbs x \$ 2.26 =
Place of Origin: Naperville, Illinoisl U.S.A>  Time of first Delivery: 45 days After Receipt of Purchase Order  Reorder lead time: 30 days Upon Receipt of Purchase Order	\$ 252,584.38
Time of first Delivery: 45 days (days)  After Receipt of Purchase Order  Reorder lead time: 30 days (days)  Upon Receipt of Purchase Order	
After Receipt of Purchase Order  Reorder lead time: 30 days (days)  Upon Receipt of Purchase Order	
Upon Receipt of Purchase Order	
3. Cationic Polymer Price per pound delivered CIF\$ 3.1	
	0 per pound
Manufacturer: NALCO An Ecolab Company	Estimated Annual Consumption:
Product Label Name: OPTIMER 7194 Cationic Flocculant	138,061 lbs x \$ 3.10 = \$ 427,989.10
Place of Origin: Naperville, Illinois U.S.A.	
Time of first Delivery: 45 days (days)  After Receipt of Purchase Order	
Reorder lead time: 30 days (days)	
Upon Receipt of Purchase Order	
15 Jen e	Jon 06/10
Jerry A. Flores Chief Financial Of	Date

### **EXHIBIT C**

assay.

- 6. Products must be compatible with GWA's installed chemical handling equipment.
- 7. Award may be made on a line by line basis. Each item in this bid will be evaluated individually and may be awarded accordingly.
- Bidder shall provide documentation verifying compliance with the above specifications for each chemical.
- 9. Purchase Orders under this Procurement will not be issued for delivery of chemical prior to January 1, 2020.

# BID FORM FOR CHEMICALS FOR GWA'S NDWWTP, HWWTP & ASRWWTP (TO BE PLACED IN A SEALED ENVELOPE AND DELIVERED WITH TECHNICAL PROPOSAL)

2.	Coagulant Aid (e. g. anionic polymer) Price per pound delivered CIF_\$1.16 per lb.
Ma	nufacturer: Veolia Water Solutions & Technologies
Pro	duct Label Name: Hydrex 6104 Anionic Emulsion Polymer
Pla	ce of Origin: Korea
Γin	ne of first Delivery: As per GWA requirements (days)  After Receipt of Purchase Order

Reorder lead time: As per GWA requirements (days) Upon Receipt of Purchase Order								
3. Cationic Polymer Price per pound delivered CIF \$1.63 per lb.								
Manufacturer: Veolia Water Solutions & Technologies								
Product Label Name: Hydrex 6402 Cationic Emulsion Polymer								
Place of Origin: Korea								
Time of first Delivery: As per GWA requirements (days) After Receipt of Purchase Order								
Reorder lead time: As per GWA requirements (days) Upon Receipt of Purchase Order								

### II. GENERAL SPECIFICATIONS:

This is an "Indefinite Quantity Bid" created pursuant to the Guam Procurement Regulations. The quantities computed in the bid are estimated requirements only and not guaranteed minimums. The amounts computed in this bid are GWA's best estimate of its annual needs and such estimates do not relate to chemicals not yet tested or used by GWA. Quantities may increase or decrease thru the duration of the contract because of variable flow rates through the NDWWTP, HWWTP & ASRWWTP and continued purchase is subject to the availability of funds. No commitment is made to vendors in terms of purchasing quantity.

### A. AUTHORITY.

This Invitation for Bids is issued subject to all of the provisions of the Guam Procurement Act and the Guam Procurement Regulations. The bid requires all parties involved in the preparation, negotiation, performance, or administration of contracts to act in good faith. Failure on the part of any bidder to act in good faith shall serve as a basis for voiding a bid or shall constitute a material breach of any contract entered into between GWA and any bidder which shall allow GWA to immediately terminate the contract.

### B. EXPLANATION TO BIDDERS.

Except as otherwise provided herein, no oral explanation in regard to the meaning of any provision of this Bid will be made and no oral instructions will be given before the award of

### **EXHIBIT D**



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

### NOTICE OF CONDITIONAL AWARD

Date:

JUL 1 2 2019

Total Chemical Resources P.O. Box 20730 GMF, Barrigada, Guam 96921-0730 Phone- #671-646.4742 Fax- #671-649.0447

Re: Invitation for Bid Number: GWA IFB-2019-17

For: Wastewater Treatment Chemicals

Hafa Adai Mr. Glenn Canovas,

The Guam Waterworks Authority ("GWA") has considered the bid submitted by Total Chemical Resources, for the above described reference in response to its Advertisement for Bids dated April 17, 2019 you are hereby notified of your bid offer on Item Number 1 been accepted by GWA. Please be advised that you must now deliver all other documents required by the bid, including, but not limited to:

- Proof of Insurance: (if applicable/required part of the bid requirements.)
- Performance and Payment Bond: (if applicable/required part of the bid requirements.)

(Which must remain in full force and effect until all performance has ended, which includes all warranty periods).

You are also advised that any obligation incurred by your firm prior to execution of the contract is entirely at your own risk and GWA shall have no obligation to reimburse costs incurred prior to execution of the contract.

Please note this Notice of Award is conditional on obtaining the approval of the Guam Consolidated Commission on Utilities for any award over \$750,000 and the approval of the Guam Public Utilities Commission where the total value over the life of the contract could exceed \$1M. Also, award is conditional upon providing any documents such as proof of licensure, proof of insurance or other documents required to be submitted to GWA under the Bid or Guam law.

/

You are required to return an acknowledged copy of this Conditional Notice of Award to GWA Procurement Office.

Sincerely,

General Manager

### ACCEPTANCE OF CONDITIONAL NOTICE OF AWARD

Receipt of the above Notice of Conditional Award for GWA IFB No. GWA 2019-17 is hereby acknowledged

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Title: SALES MANAGEN\_
(Please Print)

Dated this 15th day of Luly , 2019.

\*\*\*\*\* END OF CONDITIONAL NOTICE OF AWARD \*\*\*\*\*\*



## **GUAM WATERWORKS AUTHORITY**

Gloria B. Nelson Public Service Building 688 Route 15, Mangilao GU 96913 "Better Water. Better Lives." Gloria B. Nelson Public Services Building 688 Route 15, Mangilao, Guam 96913

### **BID STATUS**

Date: JUL 1 2 2019

Total Chemical Resources P.O. Box 20730 GMF, Barrigada, Guam 96921-0730 Tel: 671-646-4742

Fax: 671-649-0447

Bid Invitation No. GWA IFB 2019-17									
Description: Wastewater Treatment Chemicals									
The following is the result of the above-mentioned bid. Refer to the items checked below.									
Cancelled (in its entirety), or partially cancelled due to:									
[ ] Insufficient funds [ ] Change of specifications [ ] Insufficient number of bidders  Not Awarded base on the following:									
Late submission of bid     No bid security or insufficient bid security amount submitted as required by Section 11 of the General Terms and Conditions     Not meeting the delivery requirement as stated in the IFB     Non-conformance with the specifications     Inability to provide future maintenance and services to the equipment     High price     Bid is recommended for award to:									
JMI Edison: for Line Items 2.0, 3.0									
Remarks: Thank you for your participation.									
E-G/ENN (MNOUNE Miguel C. Boptaillo, PE General Manager 7-15-19									

0.171.1735





# Gloria B. Nelson Public Service Building

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

### NOTICE OF CONDITIONAL AWARD

Date: JUL 1 2 2019

JMI Edison 125 North Marine Drive P.O. Box 6577 Tamuning, Guam 96931 Phone-#671-646.6400 Fax-#671-649.4835

Re: Invitation for Bid Number: GWA IFB-2019-17

For: Wastewater Treatment Chemicals

Hafa Adai Mr. Romeo Oriondo,

The Guam Waterworks Authority ("GWA") has considered the bid submitted by JMI Edison, for the above described reference in response to its Advertisement for Bids dated April 17, 2019 you are hereby notified of your bid offer on Item Number (s) 2 and 3 been accepted by GWA. Please be advised that you must now deliver all other documents required by the bid, including, but not limited to:

- Proof of Insurance: (if applicable/required part of the bid requirements.)
- Performance and Payment Bond: (if applicable/required part of the bid requirements.)

(Which must remain in full force and effect until all performance has ended, which includes all warranty periods).

You are also advised that any obligation incurred by your firm prior to execution of the contract is entirely at your own risk and GWA shall have no obligation to reimburse costs incurred prior to execution of the contract.

Please note this Notice of Award is conditional on obtaining the approval of the Guam Consolidated Commission on Utilities for any award over \$750,000 and the approval of the Guam Public Utilities Commission where the total value over the life of the contract could exceed \$1M. Also, award is conditional upon providing any documents such as proof of licensure, proof of insurance or other documents required to be submitted to GWA under the Bid or Guam law.

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/	
You are required to return an acknowledged copy of this Procurement Office.	Conditional Notice of Award to GWA
	Sincerely,
	Minoriff
	Miguel C. Bordallo. P.E. General Manager
ACCEPTANCE OF CONDITIONAL N	OTICE OF AWARD
Receipt of the above Notice of Conditional Award for Gacknowledged	WA IFB No. GWA 2019-17 is hereby
By: Signature Title: Open	erations Mgg. lease Print)
Dated this 12 day of, 2	2019.
****** END OF CONDITIONAL NOTIO	TE OF AWARD ******

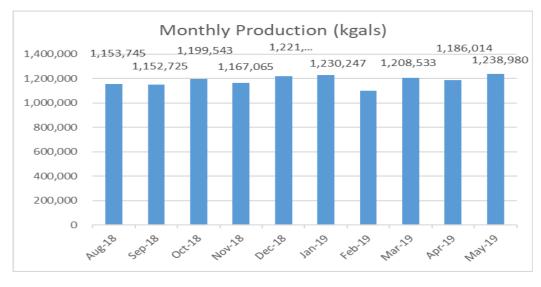


# Management Report GWA CCU Work Session, July 16, 2019

# Operations Update

Production (May 2019)

Monthly Prod						
Deep Wells			36.5	MGD		
Active wells =	102	of 120				
Avg days in operation =	31	days				
Total Production =	1,131,672	Kgals				
Springs			0.17	MGD	DW Status as of	5/31/2019
	31	days			Active	102
Total Production =	5409	Kgals			Grounded motor	_
Ugum Surface Water Plant			2.3	MGD	or Pump Failure	5
Avg days in operation =	31	days			Out of commission	8
Total Production =	71,736	Kgals			Secured, PFOs	2
Tumon Maui Well			0.97	MGD	Temporarily	
Avg days in operation =	31	days			Secured	1
Total Production =	30,163	Kgals			Standby	2
	1,238,980	Kgals	40.0	MGD	TOTAL	120

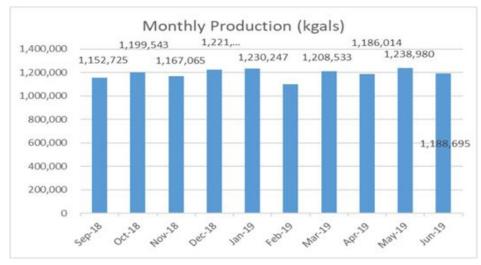


# Operations Update

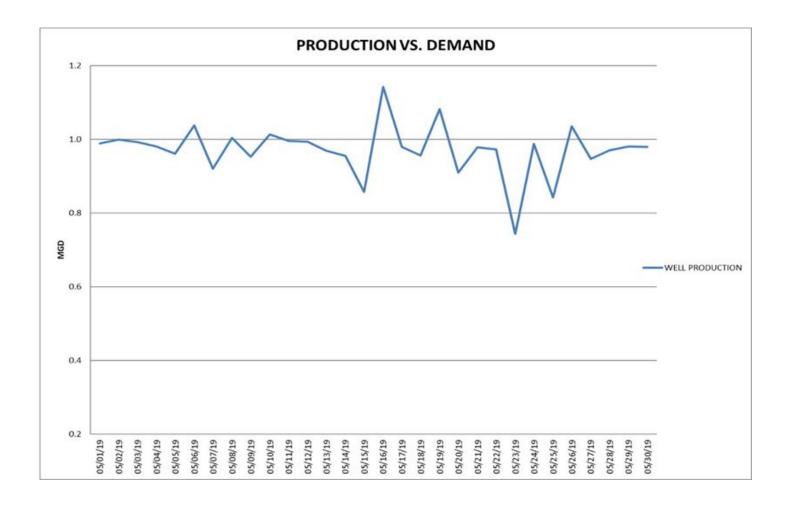
Production (June 2019)

Monthly Produ	uction Summa	ry - June	2019	
Deep Wells			36.0	MGD
Active wells =	103	of 120		
Avg days in operation =	30	days		
Total Production =	1,079,487	Kgals		
Springs			0.19	MGD
Avg days in operation =	30	days	*placed o	n standby
Total Production =	5828	Kgals		
Ugum Surface Water Plant			2.4	MGD
Avg days in operation =	30	days		
Total Production =	71,489	Kgals		
Tumon Maui Well			0.97	MGD
Avg days in operation =	30	days		
Total Production =	29,210	Kgals		
	1,186,014	Kgals	39.5	MGD

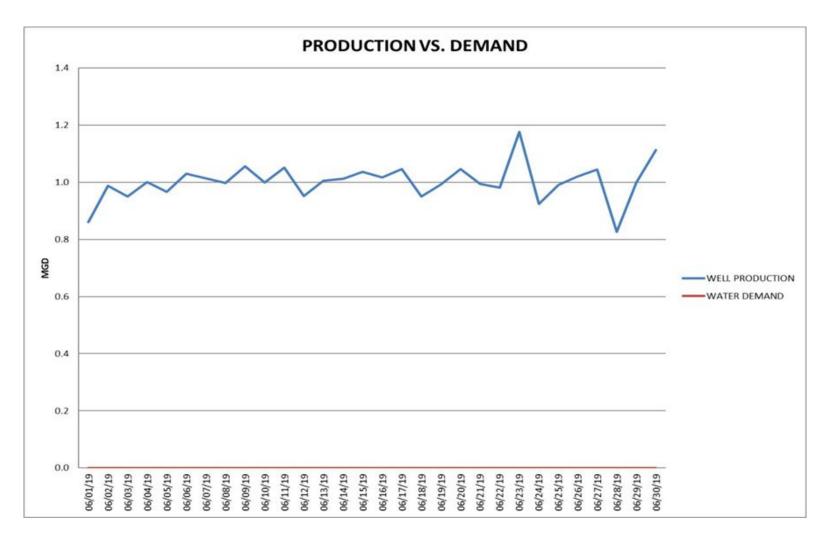
	DW Status as of	6/30/2019
	Active	97
	Grounded motor	
ı	or Pump Failure	6
Ī		
1	Out of commission	8
	Secured, PFOs	2
	Standby	7
	TOTAL	120



# Tumon Maui Well Production (May 2019)



# Tumon Maui Well Production (June 2019)



# Distribution (May 2019)

	Monthly Distribution Summary - May 2019								
Wate	Water Booster Pump Stations								
	District	No. of	Total	Pumps	%				
		Stations	Pumps	Operating	Operational				
	Northern	11	20	18	90.0%				
	Central	7	15	15	100.0%				
	Southern	7	15	14	93.3%				
		25	50	47	94.0%				

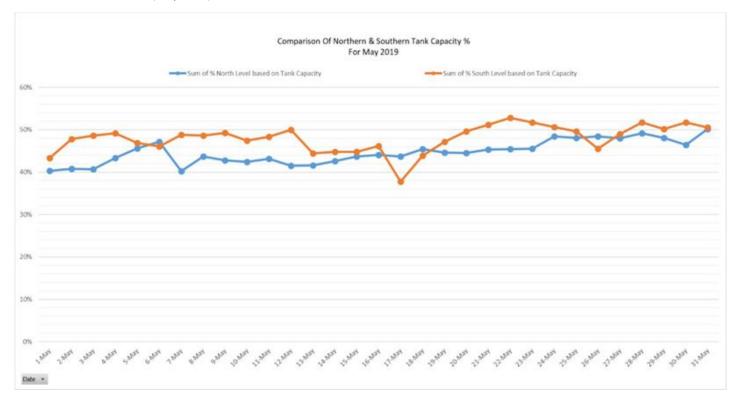


# Distribution (June 2019)

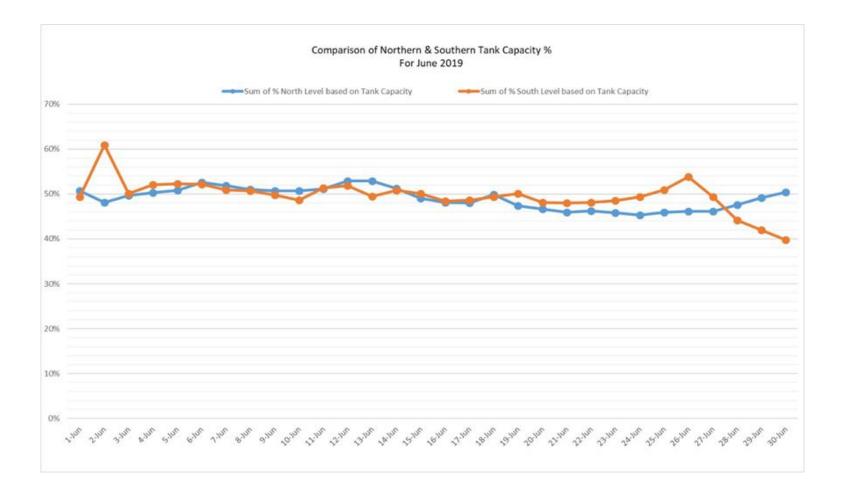
	Monthly Distribution Summary - June 2019								
Wate	Water Booster Pump Stations								
	District	No. of	Total	Pumps	%				
	DISTILL	Stations	Pumps	Operating	Operational				
	Northern	11	20	18	90.0%				
	Central	7	15	15	100.0%				
	Southern	7	15	15	100.0%				
		25	50	48	96.0%				



# Distribution – Tank Levels (May 2019)

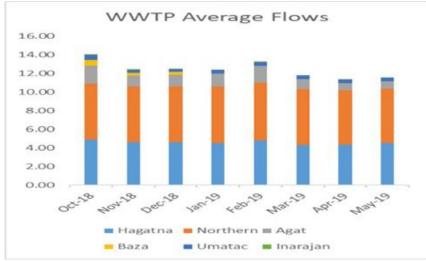


## Distribution – Tank Levels (June 2019)



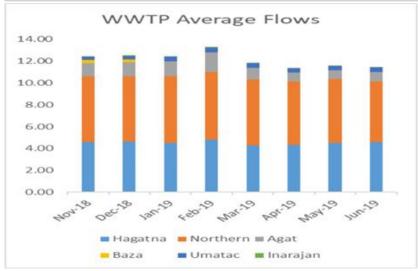
# Wastewater Treatment (May 2019)

	Monthly Wastewater Treatment Summary - May 2019							
WW T	NW Treatment Plants - Flows							
	Facility	Avg. Daily Flows (MGD)	Sludge (lbs)	Sludge Disp. (\$)				
	Hagatna	4.49	316,320	\$ 28,469				
	Northern	5.87	1,351,300	\$ 121,617				
	Agat	0.8						
	Baza	0						
	Umatac	0.39						
	Inarajan	0.05						
		11.60	1,667,620	\$ 150,086				

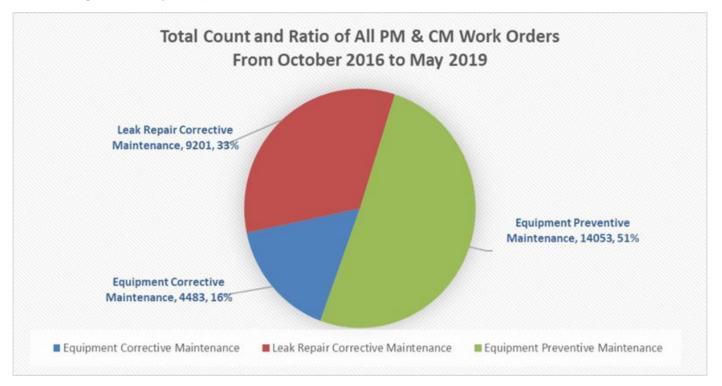


# Wastewater Treatment (June 2019)

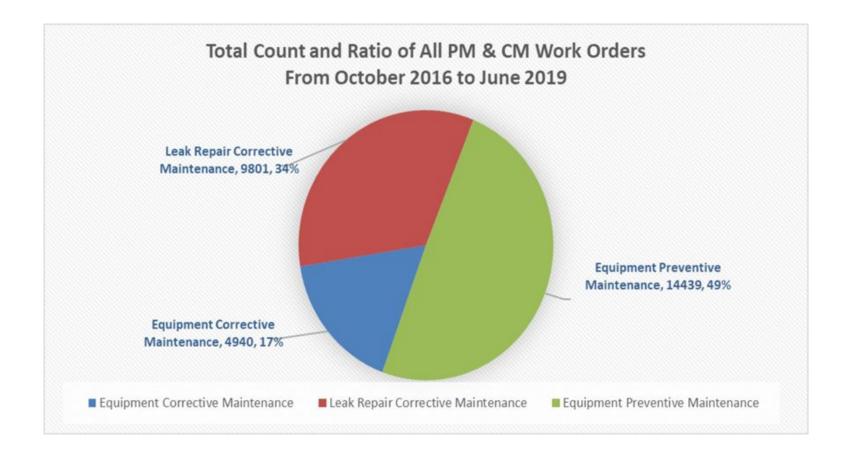
	Monthly Wastewater Treatment Summary - June 2019						
WW T	VW Treatment Plants - Flows						
	Facility	Avg. Daily Flows (MGD)	Sludge (lbs)	Sludge Disp. (\$)			
	Hagatna	4.59	564,640	\$ 50,818			
	Northern	5.56	736,660	\$ 66,299			
	Agat	0.87					
	Baza	0					
	Umatac	0.39					
	Inarajan	0.04					
		11.45	1,301,300	\$ 117,117			



# Asset Management (May 2019)



# Asset Management (June 2019)



### **Operational Issues**

### **Production & Distribution**

- Well Y-9: pump and motor recovery completed; contractor's ingenuity and tenacity contributed to success in recovering pump/motor and column previously thought lost down-hole.
  - Yigo reservoir levels have recovered
- Ugum WTP:
  - SCADA system upgrade and hardware replacement was completed
  - Testing & final commissioning revealed some issues with UPS and programming; troubleshooting is on-going
  - Connection/integration of raw water intake pumps is on-going
  - CIP in planning stages

### Wastewater Collection & Treatment

- We have a new O&M Manager Jason Tudela is taking over the reigns of WW Collection
- Pump stations
  - Critical spares and replacements procurement orders released; pending arrival
- Collection System:
  - o Harmon: Smoke testing and CCTV in Harmon Industrial Park conducted to identify sources of I&I affecting Harmon Pump Station
    - 1. Parking lot storm drain positive for smoke located in vicinity of Quality Distributors (see Figure 1)
    - 2. Sabana Condominiums- positive for smoke at cracked concrete structure attached to wall (see Figure 2)
    - 3. Hillside Apartments three locations positive for smoke-potentially defective sewer line (Figure 2)
    - 4. Total Chemical Resources-cleanout with shower drain cover positive for smoke (see Figure 3)
    - 5. 3-4-inch uncapped cleanout located on Harmon Industrial Park Road open- positive of smoke (Figure 4)
    - 6. Green Market parking lot storm drain located positive for smoke (Figure 5)
    - 7. Proline storm drain & pavement crack butting on side of building positive for smoke (Figure 6)
    - 8. Large open cleanout on unknown road across JL Baker positive for smoke (Figure 7)
    - 9. Open cleanout (2 each) on unknown road along to Guam mini-storage /Giant Corp positive for smoke (Figure 8)
    - 10. Open Cleanout on intersection of Harmon Ind Rd & Rojas street positive for smoke (Figure 9)
    - 11. Two discovered MHs not on GIS/As-built one with inlet coming from direction of ponding basin extent of lines could not be determined using smoke machine. Guerrero street & Haguit streets (Figure 10)
    - 12. Unmapped sewer segment including a (potentially private pump station) on Pangelinan Blas street (Figure 11)
    - 13. Customer Billing Accounts GIS shows inconsistency in sewered and unsewered customers (see Figure 12)

# Location of Smoke Machine\_Harmon Industril Park\_ Harmon Pumpstation sub-basin



Red dot-smoke machine location (12 sites)

Red rectangle- corresponds to figure number below in "significant & incidental findings

# Meters from January 2017 through June 2019

COMPLETED FIELD ACTIVITY JAN 2017 THRU JUNE 2019 (POSTED IN CIS)	2047			<b>5</b> 1 40					TOTAL	COMPLETED FIELD ACTIVITIES (IN PROCESS) TO BE POSTED IN CIS
, ,	2017	2018	Jan-19	Feb-19	Mar-19	•	May-19		TOTAL:	
GWA - Test Meter	5206	12191	1330	759	717	1317	664	703	22887	110
GWA - Meter Exchange	6487	13353	158	140	444	1583	1212	922	24299	152
TOTAL:	11693	25544	1488	899	1161	2900	1876	1625	47186	262
# OF METERS TESTED AS PER METER TEST FACILITY REPORTS:	6079	12259	937	730	518	1231	1135	621	23510	
# OF BACKBILLINGS APPLIED AS PER FINANCE REPORTS:	746	4272	1188	n/a	787	519	45	305	7862	\$ 3,047,224.00
# OF FIELD CREW PERFORMING CHANGE OUTS:	19.4	16.1	1	1	10	8	7	7		
# OF ADMIN STAFF TO CREATE AND POST FIELD ACTIVITIES IN CIS	10	6.3	0	0	4	9	6	6		
# OF SUPPLY STAFF TO ISSUE MATERIALS AND PROGRAM NEW METERS:	2	2	0	0	2	2	2	2		
# OF TEST FACILITY PERSONNEL TESTING METERS:	3	2	2	2	2	2	3	3		
# OF ACCOUNTANTS CALCULATING BACK BILLS:	2	3	5	5	3	2	1	3		
TOTAL:	36.4	29.4	8	8	21	23	19	21		

Project resumed : March 22 2019

REMAINING ACTIVE BADGER LP MODELS AS OF June 30, 2019:

Stock #	Size	Meter Description	New Meters	Passed Field Meters	ММР	Meters Available	Meters at MTF	Total Count
60484	3/4"	METER, Badger AMR 5/8" X 3/4" RCDL Model M25 Disc Meter	74	0	0	74	18	92
74131	3/4"	METER, Badger AMR 5/8" x 3/4" **WARRANTY** RCDL Model M25	0	0		0	4	4
65293	3/4"	METER,Badger 5/8"x3/4" NSF61-G RCDL M25LL Disc Meter Integral	501	2	0	503	0	503
74131	3/4"	METER, Badger AMR 5/8" x 3/4" RCDL Model M25 ***RMI***	0			0	13	13
84769	3/4"	METER, Badger E-SERIES 5/8"X3/4" ULTRASONIC	980			980	193	980

8561

### One Guam Update

- Santa Rosa Tank
  - GWA submitted brief on operational and system improvements, resiliency and system performance for AAFB consideration; AAFB acknowledged receipt but has not responded.
  - o GWA to proceed with Santa Rosa Tank project with intertie up to AF property no delay to the GWA project
- OEA Projects
  - Observation Wells
    - All well sites finally received Navy and AAFB site approvals; proceeding with Archaeological and Biological Assessments.
- Property Transfers
  - Transfer of BPM-1
    - Navy requested pre-title inspection report slow going
  - Transfer of Navy Laterals at Murray Road to GWA
    - Title research on-going
    - GWA Engineering evaluating which lines we should receive and which we should not
    - NBG PW to send the letter of release of easements & laterals
  - Nimitz Hill Booster Station
    - Confirmed DOD's easement is 50' wide; GWA Engineering is working on easement request for GWA WBPS improvements.
- Other
  - Cabras Island Water Lines
    - Upgrade project is about to begin
    - Navy preparing documents for release after upgrades completed.
  - Data Sharing SOP/MOU
    - Under AAFB review
  - o Route 16
    - No movement; Navy upgrade still planned

## Court Order

	Items	On-time Items Completed/Continuous	Items Delayed	Completed Late	Items on Schedule	Performance %
Court order total	93	78	2	12	1	97.8%



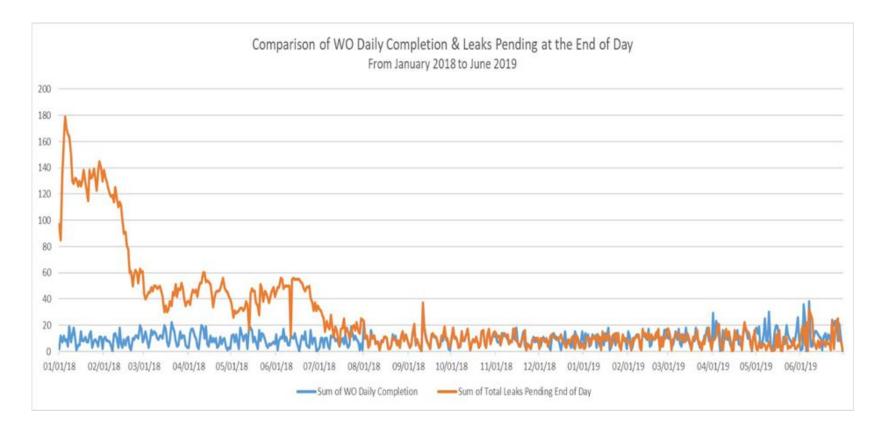
### Status Information

- 2 items delayed
  - Water Reservoir Repair. Replacement or Relocation program, CO II C 29(b)(6)(i) (10 additional tanks by 7<sup>th</sup> CO anniversary). (Affects final date of the Court Order.)
  - Umatac-Merizo Wastewater Treatment Plant July/August 2019
- Final Date to complete all Court Order items may be delayed past December 31, 2020. [CO 29(b) has been expanded by 31% beyond the original Court Order Requirements (General Counsel is reviewing filing requirements and content).]
- Overflow or Bypass events reported to USEPA:
  - o 06-11-19, Taitano Apartments sewer back up (FOG)
  - o 06-27-19 Southern Link Pump Station failure (moisture in controls)
  - o (Note: due to special security checking by GWA Safety Staff, break-ins and wire theft have been intercepted and or prevented.)

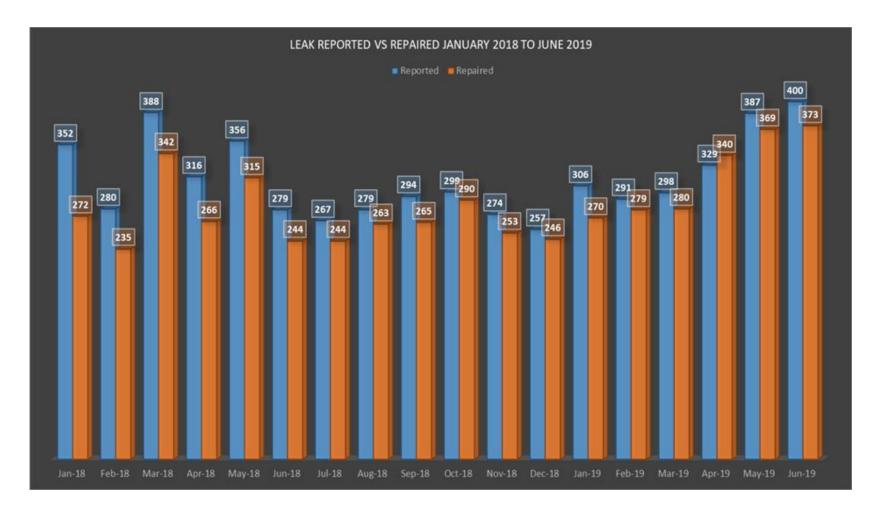
# Land Acquisition Summary

GWA Facility	Location	Gov. or Private Property	Land Acquisition Status
	Ugum	Private	Land acquisition completed and filed under GWA ownership 03/29/2019.
Tanks	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 <sup>nd</sup> follow up sent on 09/12/18. 3rd follow up sent on 04/10/19. Retracement Survey Property Map with DLM for review 03/06/19. Retracement Survey Property Map with DLM for final approval 06/05/19.
	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 <sup>nd</sup> Adjacent Property to Southern Link	Private	Court Approved sale of a portion of Lot 5036-3, Dededo 04/24/19. DCS submitted Survey Fee Proposal for GWA review and approval 06/18/19.
Asan Springs	Asan	Federal	License Agreement for Asan Springs facility that fall on Dept. of Park Services property currently under DOI review.

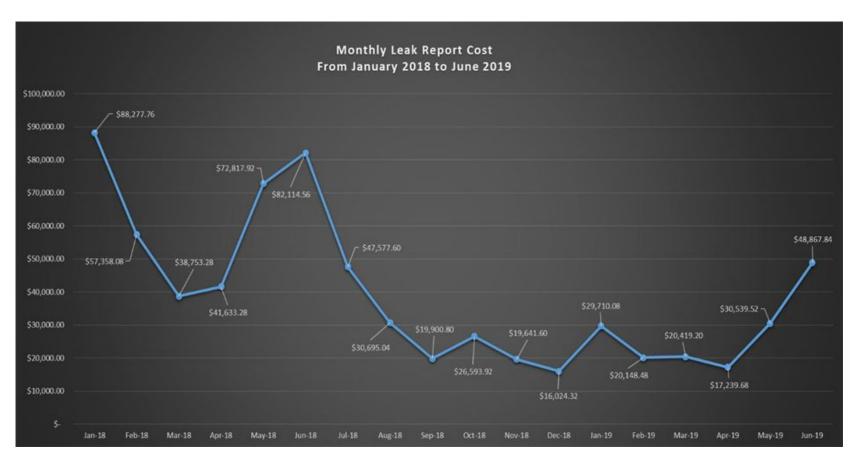
# Leak Repair Summary (May and June 2019)



# Comparison of Leaks Reported vs. Leaks Repaired (May and June 2019)



# Monthly Leak Report Cost (May and June 2019)



# Assumptions:

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

2011 Court Order Performance Report Card / Dashboard as of 06/20/2019



# **Court Order Performance Report Card**

	Items	On-time Items		Completed	Items on	Performance
		Completed/Continuous	Delayed	Late	Schedule	%
Court order total	93	78	2	12	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
I CIIOW GIEEH	Counted under Completed

### 2011 Court Order Performance Report Card / Dashboard as of 06/20/2019

Name	SO#	No	Project	GWA SO	Due to	Status
				Timeline	EPA	
Northern District	2	1	Interim Primary Treatment Improvements Complete	09/30/2012	@EPA	Done Construction completed 12/13/2012
WWTP Primary Treatment Upgrades.	3(a)	2	Interim Effluent to meet Table 1	09/30/2012 monitoring started	@EPA	Done Table 1 compliance beginning January 9, 2013.  Done 3(a)(1) Application to increase to 7.5 MGD Approved 08/13/2017
Treatment opgrades.	3(a)(1)	3	PE Review (Application for 7.5 MGD pending)	3 months after compliance with 3(a)	@EPA	
	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	5	11	Primary Treatment Plant Upgrades	06/30/2013	@EPA	Done. CEPT is operational and routine.
Measures.	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  Done Old outfall decommissioned (plugged) 06/25/2013
	6	23	Effluent Back Surge Plan	12/30/2011	@EPA	Done Old oddail decommissioned (plugged) 06/25/2015
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 Done Reported 04/25/2013
	8(a)	26	Flow and rainfall data	N/A	@EPA	Done Reported 04/25/2013  Done Reported 04/25/2013
	8(b)	27	I/I Southern	540 days	@EPA	<u> </u>
	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
Agat / Santa Rita,	9(a)	32	By Pass Report	60 days	@EPA	Done Reported 01/04/2012
	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 09/292014.
	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  Done Late CCU approval 08/26/2014. NTP was issued on 10/13/2014
	11(a)	40	System Upgrades design	06/30/2014-NTP 10/13/2014	@EPA	Done Late NTP Ph.1 issued 10/02/2015 - NTP Ph.2 due 01/04/2016
	11(b)	41	System Upgrades notice to proceed	06/30/2015-NTP 10/02/2015	@EPA	<u>                                     </u>
Baza Gardens	12(a)	42	Interim Measures Evaluation (Independent PE)	180 days	@EPA	Done Reported 05/07/2012, PMO task
	12(b)	43 44	Interim Measures Complete	540 days	@EPA	Done Reported 05/01/2013 PMO task
	12(c)		Evaluation Bio Solids Report	180 days	@EPA	Done-EPA Approval 08/28/2014 Done Reported 03/21/2013
	12(d)	45	Complete Bio Solids	360 days	@EPA	II · · · · · · · · · · · · · · · · · ·
	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  Done Late Linked to new Agat WWTP NTP DCA 02/05/2016
	14(a)	48	System Upgrades, Design Starts	10/31/2015 NTP DCA 02/05/2016	@EPA	Done Late Finished 12/31/2018.
	14(b)	49	System Upgrades Construction (started on time)	10/31/2016	@EPA	2010 Edit 1 11101104 12/01/2010.

### 2011 Court Order Performance Report Card / Dashboard as of 06/20/2019

Name SO # No Project GWA SO Due to EPA Status						
			. 19,001	Timeline	240 10 217	
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 guarterly reports)	2017-2022 Goal set: Complete Every 5 years	@EPA	Ongoing 1st 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
ссти	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	22	59	Plan	180 days	@EPA	Done Reported 09/94/2012
Monitors	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	24	66	Construction complete	One year	@EPA	Done Reported 11/09/2012
Treatment Plant	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	28(a)	71	Existing Construction Complete	180 days	@EPA	Done Reported 12/23/2011
Transmission Line	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	29(a) 1	78	Plan hydraulic analysis	90 days	@EPA	Done Reported 11/09/2012
Rehabilitation and	29(a) 2	79	Hydraulic analysis	540 days	@EPA	Done EPA No Further Comment 08/26/2014
Replacement Program.	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	540 days 5 years (11/10/2016)	@EPA	Done DCA contract task
	29(b) 4 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	Done – 11 tanks
	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	31(a)(1)	88	Quarterly Report	Jan., April, July, Sept. Continuous	@EPA	Ongoing Due by the 30 <sup>th</sup> of the specified months
REPORTING	31(a)(1) 31(a)(2)	89	Reports on Non Compliance	Within 30 days from determination of delay	@EPA	Ongoing As determined by GWA
REQUIREMENTS	31(a)(2) 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

GWA Utility Services Division Monthly Status Report Month ending June 30, 2019

10. Payment Arrangement

	WEEKLY	MAY 2019	WEEK	WEEK	WEEK	WEEK	WEEKLY	JUNE 2019
UTILITY SERVICES DIVISION ACTIVITIES:	AVERAGE	MONTHLY		ENDING:	ENDING:	ENDING:	AVERAGE	MONTHLY
OTILITY SERVICES DIVISION ACTIVITIES.	MAY 2019	TOTAL	6/8/2019	6/15/2019	6/22/2019	6/29/2019	JUNE 2019	TOTAL
Collections Unit								
I. Number of accounts cut for nonpayment:	81	404	74	62	56	46	60	238
II. Number of accounts restored for nonpayment:	70	348	60	69	55	32	54	216
III. Number of No water reports responded to:	2	9	0	3	4	3	3	10
IV. Number of Secure/Unsecure valve reports responded to:	3	14	1	2	2	0	1	5
<ul><li>V. Number of Verify reads responded to:</li><li>VI. Number of new pay plans negotiated for active accounts:</li></ul>	0 166	0 831	0 190	0 264	0 137	0 159	0 188	750
VII. Number of active pay plans negotiated and ongoing :	2071	031	1832	2060	2092	2201	2046	730
VIII.Number of inactive accounts with a payment arrangement:	0		0	0	0	0	0	
IX. Number of broken payment plans:	67	336	100	36	105	50	73	291
Customer Service Unit								
I. Service Delivery Points:								
a. GBN Public Service Building – Fadian     i. Total Customers Assisted :	242	1211	279	263	229	283	264	1054
ii. Total Abandoned Requests :	7	36	12	19	8	9	12	48
iii. Average Wait Time:	10 minutes	30	9 minutes	8 minutes	7 minutes	5 minutes	7 minutes	40
iv. Average Service Time:	11 minutes		15 minutes	13 minutes	14 minutes	16 minutes	15 minutes	
v. Breakdown by request type:								
<ol> <li>Apply for water</li> </ol>	51	254	69	61	56	79	66	265
<ol><li>Restore water cut for non payment</li></ol>	18	89	14	10	11	5	10	40
Terminate Water	14	71	20	21	21	28	23	90
4. Copy of Bill	29	144	24	36	26	29	29	115
<ul><li>5. Billing Dispute</li><li>6. Billing Dispute follow up</li></ul>	57 5	286 23	69 5	66 4	56 1	59 7	63	250 17
7. General Questions & Other	37	186	38	32	31	40	35	141
8. Report a water leak	1	4	3	2	1	2	2	8
9. Report water theft	0	0	0	0	0	0	0	0
10. Payment Arrangement	26	130	39	33	29	33	34	134
b. Julale Satellite Office – Hagatna	20	130	33	33	23	- 33	54	134
i. Total Customers Assisted :	252	1258	332	278	237	265	278	1112
ii. Total Abandoned Requests :	19	93	21	17	16	28	21	82
iii. Average Wait Time:	8 minutes	33	7 minutes	3 minutes	3 minutes	6 minutes	5 minutes	02
iv. Average Service Time:	10 minutes		6 minutes	7 minutes	7 minutes	8 minutes	7 minutes	
v. Breakdown by request type:	-							
<ol> <li>Apply for water</li> </ol>	48	241	59	55	49	58	55	221
<ol><li>Restore water cut for non payment</li></ol>	14	72	18	16	15	9	15	58
Terminate Water	23	117	36	23	13	21	23	93
4. Copy of Bill	61	303	93	64	70	76	76	303
<ol> <li>Billing Dispute</li> <li>Billing Dispute follow up</li> </ol>	57 2	283 12	65 5	56 4	45 2	54 1	55 3	220 12
7. General Questions & Other	20	98	18	24	20	19	20	81
8. Report a water leak	2	12	1	2	2	4	2	9
9. Report water theft	0	1	0	0	0	0	0	0
10. Payment Arrangement	34	172	54	49	28	39	43	170
c. Upper Tumon Satellite Office – Upper Tumon					-			-
i. Total Customers Assisted :	338	1690	406	382	330	361	370	1479
ii. Total Abandoned Requests :	6	29	12	23	12	7	14	54
iii. Average Wait Time: iv. Average Service Time:	14 minutes		13 minutes 11 minutes	13 minutes 10 minutes	11 minutes 10 minutes	10 minutes 8 minutes	12 minutes 10 minutes	
v. Breakdown by request type:	11 minutes		11 minutes	10 minutes	10 minutes	8 minutes	10 minutes	
Breakdown by request type.  1. Apply for water	77	386	86	92	76	93	87	347
Restore water cut for non payment	21	105	20	33	15	13	20	81
Terminate Water	33	165	27	34	20	49	33	130
4. Copy of Bill	73	367	88	78	70	70	77	306
5. Billing Dispute	94	472	134	84	86	81	96	385
6. Billing Dispute follow up	3	15	4	3	4	2	3	13
7. General Questions & Other	51	257	59	64	66	91	70	280
8. Report a water leak	4	18	4	3	2	3	3	12
Report water theft	1	3	0	1	0	1	1	2
10 Payment Arrangement								

GWA Utility Services Division Monthly Status Report Month ending June 30, 2019

TILITY SERVICES DIVISION ACTIVITIES:	WEEKLY AVERAGE MAY 2019	MAY 2019 MONTHLY TOTAL	WEEK ENDING: 6/8/2019	WEEK ENDING: 6/15/2019	WEEK ENDING: 6/22/2019	WEEK ENDING: 6/29/2019	WEEKLY AVERAGE JUNE 2019	JUNE 2019 MONTHLY TOTAL
d. Customer Call Center								
<ul><li>i. Calls Recieved:</li><li>ii. Calls Immediately Answered:</li></ul>	1155 677	5777 3385	1720 766	1755 819	998 650	1073 732	1387 742	5546 2967
iii. Calls Abandoned	47	234	62	69	30	0	40	161
iv. Calls Handled by Voice mail:	431	2153	891	867	318	311	597	2387
v. Average duration of calls answered	5 minutes	2133	6 minutes	5 minutes	6 minutes	5 minutes	6 minutes	2507
vi. Breakdown by request type:								
Apply/Terminate info.	26	131	18	20	38	39	29	115
2. Automated Telphone Call	1	3	37	53	10	22	31	122
Balance Inquiry	89	445	122	105	86	127	110	440
4. Call Back	28	140	61	14	7	17	25	99
5. Dispatch	25	126	21	34	8	26	22	89
6. Dispute	1	6	0	1	0	0	0	1
7. Follow up	71	353	74	40	32	34	45	180
General Questions & Other     GWA Staff	134 92	672	116 90	121	133 74	167 68	134	537
10. No Water	18	460 89	18	66 31	8	26	75 21	298 83
11. Online/Phone App Help	27	137	24	13	14	11	16	62
12. Pay by Phone	152	759	175	91	95	155	129	516
13. Pay Plan	50	250	84	85	60	45	69	274
14. Restore Non-payment	15	76	15	7	5	9	9	36
15. Secure/Unsecure Valve	9	44	6	18	6	10	10	40
16. Voice Mail	39	193	105	109	37	42	73	293
17. Water leak	8	38	6	8	7	11	8	32
e. Customer Emails: i. Emails Recieved:								
customers@guamwaterworks.org	36	179	44	38	31	39	38	152
Breakdown by request type (email):	1	7	1	0	2	2	1	-
a. Apply for water b. Terminate Water	3	13	4	3	2	2	3	5 11
c. Copy of Bill	1	5	1	1	2	1	1	5
d. Billing Dispute & follow up	6	29	8	9	2	4	6	23
e. General Questions & Other	16	81	20	19	14	20	18	73
f. Report a water leak	3	14	3	1	3	5	3	12
g. Report water theft	0	0	0	0	0	1	0	1
h. Online services inquiry	6	28	7	5	5	5	6	22
<ol><li>gwaservesme@guamwaterworks.org (realtors and prop mg</li></ol>	0	2	0	0	0	0	0	0
ii. Emails Replied (both):	33	166	28	15	37	30	28	110
	AVERAGE		6/8/2019	6/15/2019	6/22/2019	6/29/2019	AVERAGE	
f. Saturday Services: 9AM TO 1PM ONLY	36		38	29	52	33	38	
i. VISITS: Breakdown by request type: 1. Apply for water	6	1	5	1	9	7	6	
Apply for water     Restore water cut for non payment	2		5	0	1	1	2	
Terminate Water	3		0	1	6	4	3	
4. Copy of Bill	11		13	6	13	7	10	
5. Billing Dispute	6		6	10	11	7	9	
6. Billing Dispute follow up	0		0	0	1	0	0	
7. General Questions & Other	2		4	6	7	4	5	
8. Report a water leak	0		0	0	0	0	0	
<ol><li>Report water theft</li></ol>	0		0	0	0	0	0	
10. Payment Arrangement	5		5	5	4	3	4	
	# OF CUSTOMERS SERVED - SATURDAYS ONLY JUNE 2019 60 52				ONLY			
		50	38	_			33	
		40 30		29				
		20 10						
		0	6/8/2019	6/15/20	19 6/22/	2019 6/2	9/2019	
			0,0,2013	0, 13/20	0/22/	0/2	-,	

**GWA Utility Services Division Monthly Status Report** Month ending June 30, 2019

	WEEKLY	MAY 2019	WEEK	WEEK	WEEK	WEEK	WEEKLY	JUNE 2019
LITH ITV CEDVICES DIVISION ACTIVITIES.	AVERAGE	MONTHLY	ENDING:	ENDING:	ENDING:	ENDING:	AVERAGE	MONTHLY
UTILITY SERVICES DIVISION ACTIVITIES:	MAY 2019	TOTAL	6/8/2019	6/15/2019	6/22/2019	6/29/2019	JUNE 2019	TOTAL

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

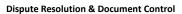
	00	82	70	91							
	".05	CALLE TO CAL	L CENTED CA	TUDD AVC OA							
	# OF	CALLS TO CAL	L CENTER-SA	I URDAYS ON	ILY						
	JUNE 2019										
		82	70		31						
100	- 66		/ (	,	_						
EO											

6/22/2019

6/29/2019

6/8/2019

6/8/2019 6/15/2019 6/22/2019 6/29/2019



- I. Dispute Resolution:
  - a. Number of disputed accounts resolved:
  - b. Number of disputed accounts under review:
- II. Document Control:
  - a. Number of field activities posted :
  - b. Number of field activities pending:

### **Disconnect/Reconnect Unit**

- I. Number of field activities received:
- II. Number of field activities completed:
- III. Number of field activities pending field action:

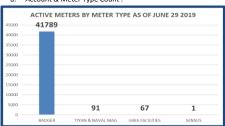
### **Meter Reading Unit**

- I. Number of meters read:
  - a. Electronically Read Meters:
  - b. Manually Read Meters:
    - i. Unread meters (Meters scheduled to be read but not read):
    - ii. Number of data logs received:
    - iii. Number of data logs retrieved:
    - iv. Number of data logs pending field action:
    - v. Communication Errors/Reprogramming requests:
    - vi. Number of estimated readings (for the week):
    - vii. Reasons for Estimations:
      - 1. Cant locate meter:
      - 2. Temporary Obstruction
      - 3. Vicious Dog
      - 4. Flooded meter
      - 5. Corrective action requested (database corrections needed)
      - 6. Possible changed out meter:
      - 7. Communication/Programming error (code 92's):
      - 8. Other:
      - 1. Leaks detected on customer's private line:
      - 2. Reverse Flow Detected 3. No Usage Detected

      - 4. Tamper Code
  - c. Electronic Read Percentage:

### **Revenue Protection Unit**

- I. Number of Inactive Still Consuming Reports rec'd & investigated:
- $\label{linear} \textbf{II.Number of Illegal Connection reports rec'd \& investigated:}$
- III. Meter Replacement Project Post 2010 Metron Farnier & Sensus Status Report:
  - a. Account & Meter Type Count :



		0/0/2019	0/13/2019	0/22/2019	0/25/2015		
26	132	13	16	37	29	24	95
1793	8967	1827	1844	1814	1815	1825	7300
537	2684	575	491	562	471	525	2099
493	2466	418	515	460	615	502	2008

6/9/2010 6/15/2010 6/22/2010 6/20/2010

261	1305	322	265	239	303	282	1129
267	1337	372	289	243	322	307	1226
4	18	10	2	3	5	5	20

		6/8/2019	6/15/2019	6/22/2019	6/29/2019		
8943	44716	10284	12181	11781	7789	10509	42035
50	249	30	37	28	54	37	149
13	65	10	7	6	5	7	28
27	133	25	26	15	32	25	98
34	172	28	18	21	39	27	106
0.4	2	0	0	0	2	0.5	2
3	15	2	0	3	0	1.25	5
		40	35	42	31	37	148
1	3	0	0	1	0	0	1
1	4	3	1	0	1	1	5
0	1	n	n	Λ	Λ	n	0

1	3	0	0	1	0	0	1
1	4	3	1	0	1	1	5
0	1	0	0	0	0	0	0
0	2	2	0	0	1	1	3
28	139	27	24	34	21	27	106
10	52	7	6	5	5	6	23
1	3	0	2	2	3	2	7
2	11	1	2	0	0	1	3
1161	5804	1495	1943	1636	927	1500	6001
130	650	48	64	97	46	64	255
414	2069	396	403	524	451	444	1774
10	48	16	18	12	18	16	64
99%		99.7%	99.7%	99.8%	99.3%	99.6%	

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

# GUAM WATERWORKS AUTHORITY JUNE 30, 2019 FINANCIAL AND RELATED REPORTS TABLE OF CONTENTS

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### GUAM WATERWORKS AUTHORITY Balance Sheet June 30, 2019

SCHEDULE A

June 30, 2019			
ASSETS AND DEFERRED OUTFLOWS of RESOURCES	Unaudited June 30, 2019	Audited September 30, 2018	Increase (Decrease)
<u>Current Assets</u>			
Cash Unrestricted (Schedule F)	5,378,739	3,094,379	2,284,360
Restricted Funds (Schedule F)	86,897,934	84,228,994	2,668,940
Accounts Receivable Trade, Net of Allowance for Doubtful Receivables of \$7,148,677 at Jun 30, 2019 and \$5,516,077 at Sep 30, 2018	13,135,160	16,610,663	(3,475,503)
Federal Receivable	521,313	3,837,146	(3,315,833)
Other Receivable Materials & Supplies Inventory, Net of Allowance for Obsolescence	1,891,728 3,245,358	1,330,800 3,342,557	560,927 (97,199)
of \$64,131 at Jun 30, 2019 and \$64,131 at Sep 30, 2018 Total Current Assets	111,070,233	112,444,539	(1,374,307)
	111,070,200	112,444,000	(1,074,007)
Property, Plant and Equipment			
Utility plant in service Water system	368,674,905	348,812,303	19,862,601
Wastewater system	300,407,082	300,053,427	353,655
Non-utility property	22,065,728	21,720,023	345,705
Total property	691,147,714	670,585,753	20,561,961
Less Accumulated Depreciation Land	(318,851,032) 3,861,120	(303,019,447) 3,681,120	(15,831,585) 180,000
Construction Work in Progress	215,996,889	178,443,926	37,552,963
Property, Plant and Equipment, net	592,154,691	549,691,352	42,463,339
Other noncurrent assets			
Restricted cash (Schedule F) Investments (Schedule F)	125,162,887	159,753,667	(34,590,780) 10,784,383
Other Prepaid Expenses	53,882,296 812,276	43,097,913 677,828	134,449
Total other noncurrent assets	179,857,459	203,529,408	(23,671,948)
Total Assets	883,082,383	865,665,299	17,417,084
Deferred outflows of resources			
Debt defeasance due to bond refunding	12,184,982	12,810,787	(625,805)
Deferred outflows from pension	4,233,575	4,220,075	13,500
Deferred outflows from OPEB  Total Assets and Deferred Outflows of Resources	9,070,814 908,571,754	9,070,814 <b>891,766,975</b>	16,804,778
LIABILITIES, DEFERRED INFLOWS of RESOURCES AND NET ASSETS <u>Current Liabilities</u>			
Current maturities of long-term debt	4 000 000	4 000 000	
Series 2010 Bond Series 2014 Refunding	1,800,000 3,620,000	1,800,000 3,620,000	-
Series 2017 Refunding	295,000	295,000	- -
Notes Payable	3,047,502	3,203,870	(156,367)
Accounts Payable -Trade	3,365,231	5,442,000	(2,076,769)
Interest Payable Accrued Payroll and Employee Benefits	12,826,707 1,129,899	6,427,669 1,608,219	6,399,039 (478,320)
Accrued Annual Leave	1,059,161	1,059,161	-
Current portion of employee annual leave	607,382	607,382	-
Contractors' Payable	14,551,822	25,680,792	(11,128,970)
Customer and Other Deposits Other Liabilities	2,335,611 73,086	2,131,242 106,997	204,369 (33,911)
Total Current Liabilities	44,711,403	51,982,331	(7,270,929)
Lana Tarra Dabi lana surrant meturitian	, , , , , , , , , , , , , , , , , , , ,	- , ,	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Long Term Debt, less current maturities 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 Unamortized Bond Premium/Discount	107,365,000 32,223,238	107,365,000 33,300,619	(1,077,380)
Notes Payable	90,252	2,325,154	(2,234,902)
Net pension liability	45,451,352	45,451,352	-
Net OPEB obligation	88,950,661	88,950,661	-
Employee Annual Leave, Less Current Portion	822,821	822,821	<del></del>
Total Liabilities	706,349,727	716,932,938	(10,583,211)
Deferred inflows of resources:			
Deferred inflows from pension Deferred inflows from OPEB	1,870,114 8,741,900	1,857,164 8,741,900	12,950
Total Liabilities and Deferred Inflows of Resources	716,961,741	727,532,002	(10,570,261)
Net Assets	191,610,013	164,234,973	27,375,040
Total Liabilities, Deferred Inflows of Resources and Net Assets	908,571,754	891,766,975	16,804,778

### GUAM WATERWORKS AUTHORITY Statement of Operations and Retained Earnings Comparative Budget vs. Actual for the period ending June 30, 2019

SCHEDULE B

	Month to	Variance		
	Budget June-19	Actual (Unaudited) June-19	Favorable / (Unfavorable)	
OPERATING REVENUES			(0)	
Water Revenues Wastewater Revenues	5,813,246 3,247,265	5,646,006 3,046,430	(167,240) (200,835)	
Legislative Surcharge	294,667	282,666	(12,000)	
Other Revenues	38,254	146,631	108,377	
System Development Charge	97,773	104,797	7,025	
Total Operating Revenues OPERATING AND MAINTENANCE EXPENSES	9,491,205	9,226,531	(264,674)	
Water Purchases	491,577	485,164	6,413	
Power Purchases	1,342,315	1,342,115	200	
Total Utility Costs	1,833,892	1,827,280	6,613	
Salaries and Wages	1,782,365	1,469,941	312,424	
Pension and Benefits	562,238	458,463	103,775	
Total Salaries and Benefits	2,344,603	1,928,404	416,199	
Capitalized Labor and Benefits	(308,333)	(308,333)	(0)	
Net Salaries and Benefits	2,036,269	1,620,071	416,199	
Administrative and General Expenses Sludge removal	99,271	97,242	2,029	
Chemicals	270,801	270,352	450	
Materials & Supplies	195,606	194,509	1,096	
Transportation	57,648	56,992	655	
Communications Claims	18,554 8,417	18,347 3,006	208 5,410	
Insurance	79,461	77,860	1,601	
Training & Travel	30,417	27,519	2,898	
Advertising	25,500	25,059	441	
Miscellaneous Regulatory Expense	68,632 25,029	67,935 22,988	697 2,041	
Bad Debts Provision	180,148	179,479	669	
Total Administrative and General Expense	1,059,483	1,041,288	18,195	
Depreciation Expense	1,759,065	1,759,065	(0)	
Contractual Expense Audit & Computer Maint.	73,283	72,800	483	
Building rental	38,361	35,211	3,150	
Equipment rental	88,480	88,007	473	
Legal	4,512	4,438	75	
Laboratory Other	20,362 200,958	18,489 175,535	1,873 25,423	
Total Contractual Expense	425,956	394,479	31,477	
Retiree Supp. Annuities and health care costs	249,871	239,069	10,802	
Contribution to Government of Guam Total Retiree Benefits	51,975 301,846	50,000 289,069	1,975 12,777	
Total Operating Expenses	7,416,512	6,931,251	485,260	
Earnings (Loss) from Operations	2,074,693	2,295,280	220,587	
Interest Income-2010/13/14/16/17 Series Bond	84,943	355,724	270,781	
Interest Income-Other Funds Interest Income-SDC	13,856 2,072	77,212 11,657	63,356 9,586	
Interest Expense- 2010/13/14/16/17 Series Bond	(2,387,785)	(2,137,785)	250,000	
Interest Expense- ST BOG	(19,762)	(15,194)	4,568	
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	-	- F 240	- 5.40	
Prior Year Adjustment Total non-operating revenues (expenses)	(1,183,369)	5,316 (495,588)	5,316 687,781	
Net Income (Loss) before capital contributions	891,324	1,799,692	908,368	
Capital Contributions				
Grants from US Government	5,533,205	584,537	(4,948,669)	
Grants from GovGuam & Others Total Capital Contributions	5,533,205	17,468 602,004	17,468 (4,931,201)	
Change in Net Assets	6,424,529	2,401,696	(4,022,833)	
•				
Debt Service Calculation				
Earnings From Operations System Development Charge	2,074,693	2,295,280		
Retiree COLA	(97,773) 51,975	(104,797) 50,000		
Interest/Investment Income	13,856	77,212		
Depreciation  Balance Available for Debt Service per Section 6.12	1,759,065	1,759,065		
Working Capital Reserve Available for Debt Service	3,801,817	4,076,759 958,951		
Transfer to Working Capital- Debt Service Reserve	934,811	900,901 -		
Transfer to Working Capital- O&M Reserve		<u> </u>		
Balance Available for Debt Service inclusive of reserves	4,736,628	5,035,710		
Debt Service	476.050	476.050		
Principal Interest	476,250 2,137,785	476,250 2,137,785		
Total	2,614,035	2,614,035		
Debt Service Coverage (1.25X)- per Section 6.12 (Indenture)	1.45	1.56		
Debt Service Coverage (1.75X) inclusive of reserves (PUC)	1.81	1.93		

### GUAM WATERWORKS AUTHORITY Statement of Operations and Retained Earnings Comparative for the period ending June 30, 2019 and 2018

SCHEDULE C

	Month to Actual (Unaudited) June-19	Date Actual (Audited) June-18	Variance Increase / (Decrease)
OPERATING REVENUES	•		. ,
Water Revenues	5,646,006	5,531,297	114,709
Wastewater Revenues	3,046,430	3,191,784	(145,354)
Legislative Surcharge Other Revenues	282,666	289,209	(6,542)
Other Revenues System Development Charge	146,631 104,797	43,294 89,249	103,337 15,549
Total Operating Revenues	9,226,531	9,144,833	81,698
OPERATING AND MAINTENANCE EXPENSES	0,220,001	0,144,000	01,000
Water Purchases	485,164	723,748	(238,584)
Power Purchases	1,342,115	1,223,874	118,242
Total Utility Costs	1,827,280	1,947,622	(120,342)
Octobra and Manage	4 400 044	4 404 400	5.540
Salaries and Wages Pension and Benefits	1,469,941	1,464,423 376,266	5,518 82,197
Total Salaries and Benefits	458,463 1,928,404	1,840,689	87,715
Capitalized Labor and Benefits	(308,333)	(296,147)	(12,186)
Net Salaries and Benefits	1,620,071	1,544,542	75,529
Administrative and General Expenses			
Sludge removal	97,242	125,638	(28,396)
Chemicals	270,352	182,625	87,726
Materials & Supplies	194,509	180,995	13,514
Transportation	56,992	64,001 14,756	(7,009) 3,591
Communications Claims	18,347 3,006	10,803	(7,797)
Insurance	77,860	76,005	1,855
Training & Travel	27,519	22,652	4,866
Advertising	25,059	14,226	10,833
Miscellaneous	67,935	84,564	(16,629)
Regulatory Expense	22,988	22,121	867
Bad Debts Provision	179,479	180,246	(767)
Total Administrative and General Expense	1,041,288	978,632	62,656
Depreciation Expense Contractual Expense	1,759,065	1,606,687	152,378
Audit & Computer Maint.	72,800	58,815	13,985
Building rental	35,211	36,603	(1,392)
Equipment rental	88,007	89,207	(1,200)
Legal	4,438	-	4,438
Laboratory	18,489	34,441	(15,952)
Other	175,535	200,655	(25,120)
Total Contractual Expense	394,479	419,721	(25,242)
Retiree Supp. Annuities and health care costs	239,069	662,581	(423,512)
Contribution to Government of Guam Total Retiree Benefits	50,000 289,069	49,833 712,414	(423,345)
Total Operating Expenses	6,931,251	7,209,618	(278,367)
Earnings (Loss) from Operations	2,295,280	1,935,214	360,065
Interest Income-2010/13/14/16/17 Series Bond	355,724	255,374	100,350
Interest Income-Other Funds	77,212	45,645	31,567
Interest Income-SDC	11,657	13,852	(2,194)
Interest Expense- 2010/13/14/16/17 Series Bond	(2,137,785)	(2,177,468)	39,683
Interest Expense- ST BOG	(15,194)	(30,702)	15,508
Federal Expenditures Loss on Asset Disposal	-	(62,220)	62,220 162,136
AFUDC	1,157,306	(162,136) 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	-	32,592	(32,592)
Prior Year Adjustment	5,316	13,219	(7,903)
Total non-operating revenues (expenses)	(495,588)	(1,134,813)	639,225
Net Income (Loss) before capital contributions	1,799,692	800,402	999,290
Capital Contributions	504 527	4 044 740	(000 475)
Grants from US Government Grants from GovGuam & Others	584,537 17,468	1,244,712 22,681	(660,175) (5,213)
Total Capital Contributions	602,004	1,267,392	(665,388)
Change in Net Assets	2,401,696	2,067,794	333,902
			3
Debt Service Calculation			
Earnings From Operations	2,295,280	1,935,214	
System Development Charge	(104,797)	(89,249)	
Retiree COLA	50,000	49,833	
Interest/Investment Income	77,212	45,645	
Depreciation  Balance Available for Debt Service per Section 6.12	1,759,065	1,606,687	
Working Capital Reserve Available for Debt Service	4,076,759 958,951	3,548,131 945,164	
Transfer to Working Capital- Debt Service Reserve	-	343,104	
Transfer to Working Capital- O&M Reserve	-	-	
Balance Available for Debt Service inclusive of reserves	5,035,710	4,493,295	
Debt Service			
Principal	476,250	433,333	
Interest	2,137,785	1,794,910	
Total  Dobt Service Coverage (1.25Y), per Section 6.12 (Indenture)	2,614,035	2,228,243	
Debt Service Coverage (1.25X)- per Section 6.12 (Indenture) Debt Service Coverage (1.75X) inclusive of reserves (PUC)	1.56	1.59	
Debt dervice Coverage (1.73A) inclusive of reserves (PUC)	1.93	2.02	

### GUAM WATERWORKS AUTHORITY Statement of Operations and Retained Earnings Comparative Budget vs. Actual for the period ending June 30, 2019

SCHEDULE D

	Year to D	Variance		
	Budget A June-19	ctual (Unaudited) June-19	Favorable / (Unfavorable)	
OPERATING REVENUES				
Water Revenues	52,319,218	50,284,853	(2,034,365)	
Wastewater Revenues Legislative Surcharge	29,225,385 2,652,001	28,967,919 2,626,732	(257,466) (25,270)	
Other Revenues	344,285	521,218	176,934	
System Development Charge	879,953	655,509	(224,444)	
Total Operating Revenues	85,420,841	83,056,231	(2,364,611)	
OPERATING AND MAINTENANCE EXPENSES	0.400.405	4 000 000		
Water Purchases Power Purchases	6,103,195	4,609,083	1,494,112	
Total Utility Costs	11,166,836 17,270,031	11,165,974 15,775,057	862 1,494,974	
•			, - ,-	
Salaries and Wages Pension and Benefits	16,041,286	14,573,095	1,468,191	
Total Salaries and Benefits	5,060,140 21,101,425	4,621,746 19,194,841	438,394 1,906,584	
Capitalized Labor and Benefits	(2,775,000)	(2,775,000)	-	
Net Salaries and Benefits	18,326,425	16,419,841	1,906,584	
Administrative and General Expenses				
Sludge removal	1,118,942	1,104,701	14,240	
Chemicals	1,672,213	1,543,410	128,803	
Materials & Supplies Transportation	1,361,450 457,828	1,260,793 455,774	100,657 2,054	
Communications	135,487	111,859	23,628	
Claims	75,750	44,432	31,318	
Insurance	715,148	681,845	33,302	
Training & Travel	273,750	179,021	94,729	
Advertising	112,500	100,804	11,696	
Miscellaneous	833,686	757,343	76,342	
Regulatory Expense	225,261	137,850	87,411	
Bad Debts Provision  Total Administrative and General Expense	1,633,334 8,615,348	1,632,509 8,010,342	825 605,006	
Depreciation Expense	15,831,585	15,831,585	(0)	
Contractual Expense	10,001,000	10,001,000	(0)	
Audit & Computer Maint.	529,051	510,109	18,942	
Building rental	345,249	316,897	28,352	
Equipment rental	874,817	873,980	837	
Legal	11,609	10,754	855	
Laboratory	306,762	197,412	109,349	
Other Total Contractual Expense	1,921,118 3,988,604	1,871,210 3,780,362	49,908 208,243	
Retiree Supp. Annuities and health care costs	2,248,838	2,137,223	111,615	
Contribution to Government of Guam	467,775	450,000	17,775	
Total Retiree Benefits	2,716,613	2,587,223	129,390	
Total Operating Expenses	66,748,605	62,404,409	4,344,196	
Earnings (Loss) from Operations	18,672,236	20,651,822	1,979,586	
Interest Income-2010/13/14/16/17 Series Bond	764,487	3,091,290	2,326,803	
Interest Income-Other Funds Interest Income-SDC	124,706 18,646	628,576 130,946	503,870 112,299	
Interest Expense- 2010/13/14/16/17 Series Bond	(21,490,061)	(19,240,061)	2,250,000	
Interest Expense- ST BOG	(177,858)	(159,415)	18.442	
Federal Expenditures		-	· -	
Loss on Asset Disposal	-	-	-	
AFUDC	10,415,750	10,415,750	0	
Amortization of Discount, Premium and Issuance Costs	(160,181)	1,077,380	1,237,561	
Defeasance due to bond refunding Deferred outflows from pension	(145,809)	(625,805)	(479,996)	
Prior Year Adjustment	-	(279,392)	(279,392)	
Total non-operating revenues (expenses)	(10,650,320)	(4,960,733)	5,689,587	
Net Income (Loss) before capital contributions	8,021,916	15,691,089	7,669,173	
Capital Contributions				
Grants from US Government	49,798,846	11,605,172	(38,193,674)	
Grants from GovGuam & Others		78,779	78,779	
Total Capital Contributions Change in Net Assets	49,798,846 57,820,762	11,683,951 27,375,040	(38,114,895) (30,445,722)	
Change in Not Assets	01,020,102	27,070,040	(00,440,722)	
Debt Service Calculation				
Earnings From Operations	18,672,236	20,651,822		
System Development Charge	(879,953)	(655,509)		
Retiree COLA	467,775	450,000		
Interest/Investment Income Depreciation	124,706 15,831,585	628,576 15,831,585		
Balance Available for Debt Service per Section 6.12	34,216,349	36,906,474		
Working Capital Reserve Available for Debt Service	8,413,300	8,630,559		
Transfer to Working Capital- Debt Service Reserve	-	-		
Transfer to Working Capital- O&M Reserve	<u> </u>			
Balance Available for Debt Service inclusive of reserves	42,629,649	45,537,033		
Debt Service	4 000 050	4 200 250		
Principal	4,286,250 19,240,061	4,286,250		
Interest Total	19,240,061 23,526,311	19,240,061 23,526,311		
Debt Service Coverage (1.25X)- per Section 6.12 (Indenture)	1.45	1.57		
Debt Service Coverage (1.75X) inclusive of reserves (PUC)	1.81	1.94		
- · · · · · · · · · · · · · · · · · · ·		_		

### GUAM WATERWORKS AUTHORITY Statement of Operations and Retained Earnings Comparative for the period ending June 30, 2019 and 2018

SCHEDULE E

Comparative for the period ending Jui	ne 30, 2019 and 2018	SCHEDULE E	
	Year to D	Variance	
	Actual (Unaudited)	Actual (Audited)	Increase /
	June-19	June-18	(Decrease)
OPERATING REVENUES  Water Revenues	50,284,853	49,781,673	503,180
Wastewater Revenues	28,967,919	28,726,054	241,865
Legislative Surcharge	2,626,732	2,602,881	23,851
Other Revenues	521,218	389,647	131,571
System Development Charge	655,509	803,239	(147,730)
Total Operating Revenues OPERATING AND MAINTENANCE EXPENSES	83,056,231	82,303,493	752,738
Water Purchases	4,609,083	6,513,731	(1,904,648)
Power Purchases	11,165,974	11,014,865	151,109
Total Utility Costs	15,775,057	17,528,595	(1,753,538)
0.1.1	44.570.005	40 470 040	4 000 005
Salaries and Wages Pension and Benefits	14,573,095 4,621,746	13,179,810 3,386,394	1,393,285 1,235,352
Total Salaries and Benefits	19,194,841	16,566,204	2,628,637
Capitalized Labor and Benefits	(2,775,000)	(2,665,323)	(109,677)
Net Salaries and Benefits	16,419,841	13,900,881	2,518,960
Administrative and General Expenses			
Sludge removal	1,104,701	1,130,740	(26,039)
Chemicals Materials & Supplies	1,543,410	1,643,629	(100,219)
Materials & Supplies Transportation	1,260,793 455,774	1,628,954 576,008	(368,161) (120,233)
Communications	111,859	132,800	(20,941)
Claims	44,432	97,231	(52,799)
Insurance	681,845	684,045	(2,200)
Training & Travel	179,021	203,869	(24,848)
Advertising	100,804	128,032	(27,227)
Miscellaneous	757,343 137,850	761,077 199,091	(3,733) (61,241)
Regulatory Expense Bad Debts Provision	1,632,509	1,622,212	10,297
Total Administrative and General Expense	8.010.342	8,807,687	(797,345)
Depreciation Expense	15,831,585	14,460,187	1,371,398
Contractual Expense			
Audit & Computer Maint.	510,109	529,335	(19,226)
Building rental	316,897	329,427	(12,530)
Equipment rental Legal	873,980 10,754	802,861	71,118 10,754
Laboratory	197,412	309,972	(112,560)
Other	1,871,210	1,805,894	65,316
Total Contractual Expense	3,780,362	3,777,489	2,873
Retiree Supp. Annuities and health care costs	2,137,223	5,963,225	(3,826,003)
Contribution to Government of Guam	450,000	448,500	1,500
Total Retiree Benefits  Total Operating Expenses	2,587,223 62,404,409	6,411,725 64,886,564	(3,824,503) (2,482,155)
Earnings (Loss) from Operations	20,651,822	17,416,929	3,234,893
Interest Income-2010/13/14/16/17 Series Bond	3,091,290	2,298,368	792,922
Interest Income-Other Funds	628,576	410,804	217,772
Interest Income-SDC	130,946	124,666	6,280
Interest Expense- 2010/13/14/16/17 Series Bond	(19,240,061)	(19,597,210)	357,149
Interest Expense- ST BOG Federal Expenditures	(159,415)	(276,320) (559,983)	116,905 559,983
Loss on Asset Disposal	-	(1,459,222)	1,459,222
AFUDC	10,415,750	9,375,897	1,039,853
Amortization of Discount, Premium and Issuance Costs	1,077,380	(384,221)	1,461,601
Defeasance due to bond refunding	(625,805)	(558,391)	(67,414)
Deferred outflows from pension	(070.000)	293,328	(293,328)
Prior Year Adjustment  Total non-operating revenues (expenses)	(279,392) (4,960,733)	118,971 (10,213,314)	(398,364) 5,252,581
Net Income (Loss) before capital contributions	15,691,089	7,203,615	8,487,474
Capital Contributions	10,001,000	7,200,010	0,101,111
Grants from US Government	11,605,172	11,202,406	402,766
Grants from GovGuam & Others	78,779	204,125	(125,346)
Total Capital Contributions	11,683,951	11,406,531	277,420
Change in Net Assets	27,375,040	18,610,145	8,764,894
Debt Service Calculation			
Earnings From Operations	20,651,822	17,416,929	
System Development Charge	(655,509)	(803,239)	
Retiree COLA	450,000	448,500	
Interest/Investment Income	628,576	410,804	
Depreciation  Balance Available for Debt Service per Section 6.12	15,831,585 36,906,474	14,460,187 31,933,181	
Working Capital Reserve Available for Debt Service	8,630,559	8,506,475	
Transfer to Working Capital- Debt Service Reserve	-	-	
Transfer to Working Capital- O&M Reserve		<u> </u>	
Balance Available for Debt Service inclusive of reserves	45,537,033	40,439,656	
Debt Service			
Principal	4,286,250	3,900,000	
Interest Total	19,240,061 23,526,311	16,154,190 20,054,190	
Debt Service Coverage (1.25X)- per Section 6.12 (Indenture)	1.57	1.59	
Debt Service Coverage (1.75X) inclusive of reserves (PUC)	1.94	2.02	

### GUAM WATERWORKS AUTHORITY Restricted and Unrestricted Cash Summary FY2019

SCHEDULE F

Description	Unaudited June 30, 2019	Audited September 30, 2018	Increase (Decrease)
UNRESTRICTED	•	•	,
Change Fund	2,000	2,000	-
Petty Cash	5,000	5,000	-
BOG Deposit Accounts	5,371,740	3,087,379	2,284,360
Sub-total Unrestricted	5,378,739	3,094,379	2,284,360
RESTRICTED			
ANZ Bank	134	(0)	134.24
Bank Pacific	14,002	11,864	2,137
Bank of Hawaii	221,454	189,144	32,309
Community First FCU	1,517	4,392	(2,875)
First Hawaiian Bank	14,811	22,105	(7,294)
Bank Pacific Surcharge	683,769	298,898	384,871
Bank Pacific Escrow Deposit	836,130	660,254	175,877
BOG Customer Refunds	1,873,595	1,860,120	13,475
BOG Emergency Reserve Fund	6,235	6,229	6
BOG Sewer Hookup Revolving Fund	66,608	65,499	1,109
BOG Subordinate Security Fund	859,233	859,233	-
BOG Operation and Maintenance Fund	3,083,482	3,083,482	-
BOG OMRRRF Fund	17,423,213	17,423,213	-
BOG Revenue Trust	296,995	360,569	(63,574)
BOG Revenue Trust Fund	8,092,125	6,535,779	1,556,346
BOG Capital Improvement Revenue Fund	6,332,642	1,582,278	4,750,364
BOG O & M Reserve	13,865,457	13,666,109	199,348
BOG Debt Service Reserve	11,507,412	11,341,967	165,445
BOG CapEx Fund	11,543,583	16,073,011	(4,529,428)
<del>-</del>	76,722,395	74,044,146	2,678,248
BOG - SDC Deposit	2,925,539	2,934,848	(9,309)
BOG - SDC CDs	7,250,000	7,250,000	-
Total SDC	10,175,539	10,184,848	(9,309)
Total Restricted	86,897,934	84,228,994	2,668,940
Reserve Funds			
BOG Series 13 Construction Fund	19,866,135	36,222,062	(16,355,927)
BOG Series 14 Refunding Construction Fund	322,067	741,895	(419,828)
BOG Series 16 Construction Fund	98,200,001	116,036,000	(17,835,999)
BOG Series 17 Refunding Construction Fund	6,774,683	6,753,709	20,974
Total Restricted - Held by Trustee	125,162,887	159,753,667	(34,590,780)
USB Series 2013 Debt Service Fund	4,730,484	2,360,451	2,370,033
USB Series 2013 Debt Service Reserve Fund	12,031,688	12,031,688	-
USB Series 2014 Refunding Debt Service Fund	5,488,068	1,833,235	3,654,833
USB Series 2014 Refunding Debt Service Reserve Fund	7,912,929	7,972,243	(59,314)
USB Series 2016 Debt Service Fund	3,625,335	1,805,556	1,819,779
USB Series 2016 Debt Service Reserve Fund	7,592,000	7,594,603	(2,603)
USB Series 2010 Debt Service Fund	1,914,774	503,751	1,411,023
USB Series 2017 Refunding Debt Service Reserve Fund	7,566,460	7,566,460	-
USB Series 2017 Debt Service Fund	3,020,558	1,429,927	1,590,631
Total Investments	53,882,296	43,097,913	10,784,383
Total Restricted and Unrestricted Cash	271,321,856	290,174,953	(18,853,097)

### Guam Waterworks Authority Accounts Receivable - Government June 30, 2019

SCHEDULE G

June 30, 2019						AGING						
Customer Name	No of Accounts	Current		31-60 days	,	61-90 days	91	I-120 days	Ov	ver 120 days		Total
Guam Int'l Airport Authority			18 \$	48,710		26,077		24,844		261.879	\$	418.258
Guam Power Authority	24	159,02		0	Ψ	20,077	Ψ	2-1,0-1-1	Ψ	201,010	Ψ	159,027
Guam Memorial Hospital Authority	3	40,12		2,055		_		_		_		42,178
Guam Community College	3	3.52		2,411		_		_		_		5,935
Guam Housing & Urban Renewal Authority	9	36		2,711		_		_		_		366
Port Authority of Guam	5	30		_		_		_		_		302
Total Autonomous Agencies	52			53,176	\$	26,077	\$	24,844	\$	261,879	\$	626,066
Department of Education	53	\$ 235,83	31 \$	212,632	\$	334,081	\$	71,356	\$	43,127	\$	897,027
Department of Public Health & Social Services	8	1,67	70	968		797		384		103,661		107,481
Mayors Council of Guam	60	14,45	53	3,173		22,170		40,221		32		80,049
Department of Parks & Recreation	17	29,87	76	1,302		733		· -		-		31,911
Department of Public Works	11	15,11	3	3,206		-		-		-		18,319
Guam Fire Department	11	11,28	39	3,535		-		-		-		14,824
Office of the Governor	2	9,63	34	2,076		-		-		-		11,710
Department of Chamorro Affairs	7	7,42	21	-		-		-		-		7,421
Sanctuary Inc	1	5,40	9	-		-		-		-		5,409
Department of Agriculture	6	2,08	38	-		-		-		-		2,088
Department of Military Affairs/GUARNG	1	1,94	16	-		-		-		-		1,946
Guam Police Department	7	99	99	-		-		-		-		999
Division of Senior Citizens, DPH&SS	2	47	<b>7</b> 5	195		155		-		-		826
Department of Mental Health	2	29	98	306		-		-		-		604
Guam Public Library	6	58	37	-		-		-		-		587
Office of Civil Defense	2	51	9	-		-		-		-		519
Guam Veterans Affairs Office	2	37	70	-		-		-		-		370
Department of Administration	2	30	9	-		-		-		-		309
Guam Enviromental Protection Agency	2	27	<b>7</b> 6	-		-		-		-		276
Guam Energy Office	1	24	10	-		-		-		-		240
The Office of the Dededo Mayor	1	16	35	-		-		-		-		165
Merizo Mayor	1	6	60	68		-		-		-		128
Department of Corrections	8	10	)7	-		-		-		-		107
Vietnam Veterans of America	1	2	28	-		-		-		-		28
Total Line Agencies	214	\$ 339,16	52 \$	227,461	\$	357,936	\$	111,961	\$	146,821	\$	1,183,341
Total as of June 30, 2019	266	\$ 599,25	52 \$	280,637	\$	384,012	\$	136,805	\$	408,700	\$	1,809,407
Total as of September 30, 2018	326	\$ 793,94	18 \$	424,797	\$	324,413	\$	190,444	\$	975,977	\$	2,709,580
% Change	-18%	-25	5%	-34%	)	18%		-28%		-58%		-33%

### Guam Waterworks Authority System Development Charges Project Status As of June 30, 2019

SCHEDULE H

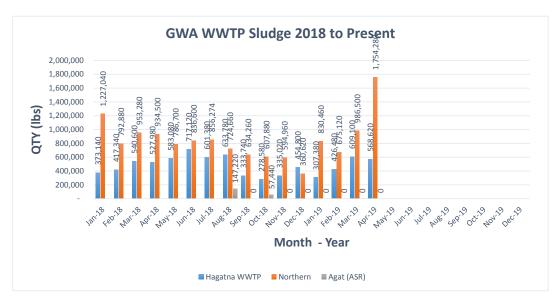
PROJECT NAME	Available oject Funds	ı	Total Expenditures	Total Outstanding incumbrances	Total spenditures and Encumbrances	,	Total Jnobligated Funds
SDC - Water Central Guam Reservoirs Line Replacement Phase IV South Paulino Heights Waterline Upgrade			- - 56,568	280,040 256,937 4,135	280,040 256,937 60,703		
	\$ 5,948,220	\$	56,568	\$ 541,112	\$ 597,680	\$	5,350,540
SDC - Wastewater Agat-Santa Rita Wastewater Treatment Plant Replacement Baza Gardens Wastewater Cross Island Pumping & Conveyance Route 4 Relief Sewerline Rehab & Replacement Northern WWTP (Land Purchase) Talofofo Sewer Improvement			486,196 668,575 - 1,000,000 -	1,133,847 472,701 399,869 - 241,142	1,620,043 1,141,276 399,869 1,000,000 241,142		
	\$ 6,088,186	\$	2,154,770	\$ 2,247,559	\$ 4,402,329	\$	1,685,857
Grand Totals	\$ 12,036,406	\$	2,211,338	\$ 2,788,671	\$ 5,000,009	\$	7,036,397

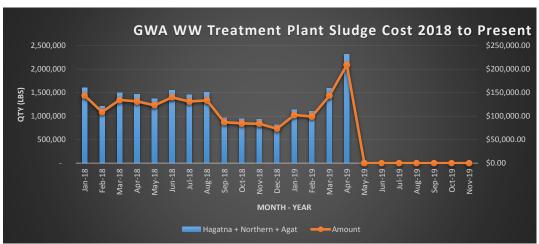
Future planned projects	2019
Water Wells	\$ 1,850,000
Water Dist Sys Pipe Replacement & Upgrades	1,850,000
WWTP Priority 1 Upgrades	1,000,000
Umatac Merizo STP Replacement	1,000,000
Wastewater Sewer System Expansion	1,000,000
	\$ 6,700,000

	ASR \	WWTP	North	nern	Hagatna an	d Northern
2018	Qty	Amount	Qty	Amount	Qty	Amount
Month- Yr	lbs	\$	lbs	\$	lbs	\$
Jan-18	247,440	\$22,269.60	1,283,000	\$115,470.00	1,530,440	\$137,739.60
Feb-18	282,180	\$25,396.20	920,480	\$82,843.20	1,202,660	\$108,239.40
Mar-18	497,660	\$44,789.40	880,780	\$79,270.20	1,378,440	\$124,059.60
Apr-18	577,246	\$51,952.14	796,560	\$71,690.40	1,373,806	\$123,642.54
May-18	660,840	\$59,475.60	859,260	\$77,333.40	1,520,100	\$136,809.00
Jun-18	505,160	\$45,464.40	913,760	\$82,238.40	1,418,920	\$127,702.80
Jul-18	462,420	\$41,617.80	1,423,168	\$128,085.12	1,885,588	\$169,702.92
Aug-18	694,420	\$62,497.80	690,200	\$62,118.00	1,384,620	\$124,615.80
Sep-18	341,020	\$30,691.80	981,280	\$88,315.20	1,322,300	\$119,007.00
Oct-18	474,020	\$42,661.80	846,180	\$76,156.20	1,320,200	\$118,818.00
Nov-18	500,020	\$45,001.80	968,260	\$87,143.40	1,468,280	\$132,145.20
Dec-18	584,809	\$52,632.81	810,960	\$72,986.40	1,395,769	\$125,619.21
Grand Total	5827235	\$524,451.15	11373888	\$1,023,649.92	17201123	\$1,548,101.07

	Hagatr	na WWTP	North	nern	Agat (	(ASR)	Hagatna + I	Northern + Agat
2018	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount
Month- Yr	lbs	\$	lbs	\$	lbs	\$	lbs	\$
Jan-18	373,140	\$33,582.60	1,227,040	\$110,433.60			1,600,180	\$144,016.20
Feb-18	417,340	\$37,560.60	792,880	\$71,359.20			1,210,220	\$108,919.80
Mar-18	540,600	\$48,654.00	953,280	\$85,795.20			1,493,880	\$134,449.20
Apr-18	527,980	\$47,518.20	934,500	\$84,105.00			1,462,480	\$131,623.20
May-18	583,080	\$52,477.20	786,700	\$70,803.00			1,369,780	\$123,280.20
Jun-18	717,120	\$64,540.80	836,600	\$75,294.00			1,553,720	\$139,834.80
Jul-18	601,380	\$54,124.20	856,274	\$77,064.66			1,457,654	\$131,188.86
Aug-18	633,780	\$57,040.20	724,660	\$63,469.35	147,220	\$12,894.25	1,505,660	\$133,403.80
Sep-18	333,740	\$30,036.60	634,260	\$57,083.40	0	\$0.00	968,000	\$87,120.00
Oct-18	278,580	\$25,072.20	607,880	\$54,709.20	57,440	\$4,992.61	943,900	\$84,774.01
Nov-18	335,020	\$30,151.80	594,960	\$53,546.40	0	\$0.00	929,980	\$83,698.20
Dec-18	454,800	\$40,932.00	360,620	\$32,455.80	0	\$0.00	815,420	\$73,387.80
Grand Total	5,796,560	\$521,690.40	9,309,654	\$836,118.81	204,660	\$17,886.86	15310874	###########

	Hagatr	na WWTP	North	nern	Agat (	(ASR)	Hagatna + N	lorthern + Agat
2019	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount
Month- Yr	lbs	\$	lbs	\$	lbs	\$	lbs	\$
Jan-19	307,380	\$27,664.20	830,460	\$74,741.40	0	\$0.00	1,137,840	\$102,405.60
Feb-19	426,480	\$38,383.20	675,120	\$60,760.80	0	\$0.00	1,101,600	\$99,144.00
Mar-19	609,100	\$54,819.00	986,500	\$88,785.00	0	\$0.00	1,595,600	\$143,604.00
Apr-19	568,620	\$51,175.80	1,754,280	\$157,885.20	0	\$0.00	2,322,900	\$209,061.00
May-19		\$0.00		\$0.00		\$0.00	-	\$0.00
Jun-19		\$0.00		\$0.00		\$0.00	-	\$0.00
Jul-19		\$0.00		\$0.00		\$0.00	-	\$0.00
Aug-19		\$0.00		\$0.00		\$0.00	-	\$0.00
Sep-19		\$0.00		\$0.00		\$0.00	-	\$0.00
Oct-19		\$0.00		\$0.00		\$0.00	-	\$0.00
Nov-19		\$0.00		\$0.00		\$0.00	-	\$0.00
Dec-19		\$0.00		\$0.00		\$0.00	-	\$0.00
<b>Grand Total</b>	1,911,580	\$172,042.20	4,246,360	\$382,172.40	-	\$0.00	6157940	\$554,214.60



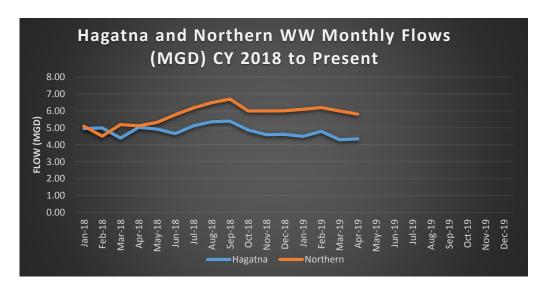


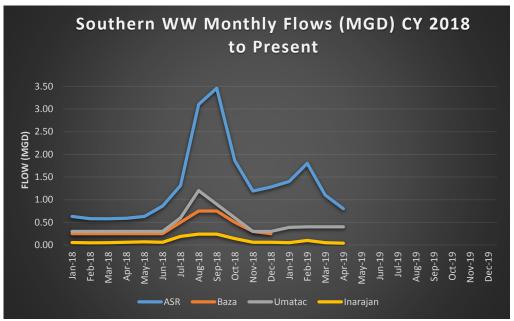
#### Wastewater Treatment Plant Average Monthy Flows Million Gallons Per Day

2017	Hagatna	Northern	ASR	Baza	Umatac	Inarajan
Jan-17	6.00	5.69	0.89	0.31	0.35	0.09
Feb-17	6.00	5.61	0.76	0.24	0.30	0.09
Mar-17	6.00	5.62	0.78	0.24	0.30	0.06
Apr-17	6.00	5.58	0.95	0.24	0.30	0.08
May-17	5.59	5.26	0.86	0.25	0.30	0.06
Jun-17	6.00	5.36	0.77	0.23	0.30	0.05
Jul-17	5.94	5.33	0.74	0.25	0.30	0.05
Aug-17	6.57	5.77	1.16	0.29	0.30	0.08
Sep-17	6.23	5.84	2.08	0.25	0.30	0.12
Oct-17	6.82	5.96	2.05	0.25	0.30	0.23
Nov-17	6.01	5.78	0.85	0.25	0.30	0.07
Dec-17	5.49	5.79	0.73	0.25	0.30	0.06
2017 Average MGD	6.05	5.63	1.05	0.25	0.30	0.09
2017 Total MGY	2,210	2,056	384	93	111	32

2018	Hagatna	Northern	ASR	Baza	Umatac	Inarajan
Jan-18	4.96	5.10	0.63	0.25	0.30	0.05
Feb-18	5.00	4.51	0.58	0.25	0.30	0.05
Mar-18	4.40	5.20	0.58	0.25	0.30	0.05
Apr-18	5.03	5.12	0.59	0.25	0.30	0.06
May-18	4.93	5.32	0.63	0.25	0.30	0.07
Jun-18	4.67	5.78	0.86	0.25	0.30	0.06
Jul-18	5.12	6.18	1.31	0.50	0.60	0.19
Aug-18	5.36	6.49	3.10	0.75	1.20	0.24
Sep-18	5.40	6.70	3.46	0.75	0.90	0.24
Oct-18	4.87	6.00	1.86	0.50	0.60	0.14
Nov-18	4.60	6.00	1.19	0.30	0.30	0.06
Dec-18	4.62	6.01	1.28	0.25	0.30	0.06
2018 Average MGD	4.91	5.70	1.34	0.38	0.48	0.11
2018 Total MGY	1,793	2,081	489	138	173	39

2019	Hagatna	Northern	ASR	Baza	Umatac	Inarajan
Jan-19	4.50	6.10	1.40		0.39	0.05
Feb-19	4.80	6.20	1.80		0.40	0.10
Mar-19	4.30	6.00	1.10		0.40	0.05
Apr-19	4.35	5.81	0.80		0.40	0.04
May-19						
Jun-19						
Jul-19						
Aug-19						
Sep-19						
Oct-19						
Nov-19						
Dec-19					·	
2018 Average MGD	4.49	6.03	1.28		0.40	0.06
2018 Total MGY	1,638	2,200	465	-	145	22



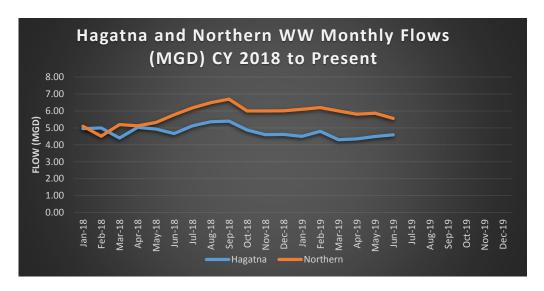


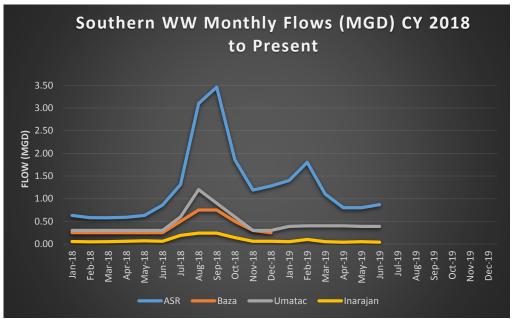
### Wastewater Treatment Plant Average Monthy Flows Million Gallons Per Day

2017	Hagatna	Northern	ASR	Baza	Umatac	Inarajan
Jan-17	6.00	5.69	0.89	0.31	0.35	0.09
Feb-17	6.00	5.61	0.76	0.24	0.30	0.09
Mar-17	6.00	5.62	0.78	0.24	0.30	0.06
Apr-17	6.00	5.58	0.95	0.24	0.30	0.08
May-17	5.59	5.26	0.86	0.25	0.30	0.06
Jun-17	6.00	5.36	0.77	0.23	0.30	0.05
Jul-17	5.94	5.33	0.74	0.25	0.30	0.05
Aug-17	6.57	5.77	1.16	0.29	0.30	0.08
Sep-17	6.23	5.84	2.08	0.25	0.30	0.12
Oct-17	6.82	5.96	2.05	0.25	0.30	0.23
Nov-17	6.01	5.78	0.85	0.25	0.30	0.07
Dec-17	5.49	5.79	0.73	0.25	0.30	0.06
2017 Average MGD	6.05	5.63	1.05	0.25	0.30	0.09
2017 Total MGY	2,210	2,056	384	93	111	32

2018	Hagatna	Northern	ASR	Baza	Umatac	Inarajan
Jan-18	4.96	5.10	0.63	0.25	0.30	0.05
Feb-18	5.00	4.51	0.58	0.25	0.30	0.05
Mar-18	4.40	5.20	0.58	0.25	0.30	0.05
Apr-18	5.03	5.12	0.59	0.25	0.30	0.06
May-18	4.93	5.32	0.63	0.25	0.30	0.07
Jun-18	4.67	5.78	0.86	0.25	0.30	0.06
Jul-18	5.12	6.18	1.31	0.50	0.60	0.19
Aug-18	5.36	6.49	3.10	0.75	1.20	0.24
Sep-18	5.40	6.70	3.46	0.75	0.90	0.24
Oct-18	4.87	6.00	1.86	0.50	0.60	0.14
Nov-18	4.60	6.00	1.19	0.30	0.30	0.06
Dec-18	4.62	6.01	1.28	0.25	0.30	0.06
2018 Average MGD	4.91	5.70	1.34	0.38	0.48	0.11
2018 Total MGY	1,793	2,081	489	138	173	39

2019	Hagatna	Northern	ASR	Baza	Umatac	Inarajan
Jan-19	4.50	6.10	1.40		0.39	0.05
Feb-19	4.80	6.20	1.80		0.40	0.10
Mar-19	4.30	6.00	1.10		0.40	0.05
Apr-19	4.35	5.81	0.80		0.40	0.04
May-19	4.49	5.87	0.80		0.39	0.05
Jun-19	4.59	5.56	0.87		0.39	0.04
Jul-19						
Aug-19						
Sep-19						
Oct-19						
Nov-19						
Dec-19						
2018 Average MGD	4.51	5.92	1.13		0.40	0.06
2018 Total MGY	1,644	2,162	412	-	144	20

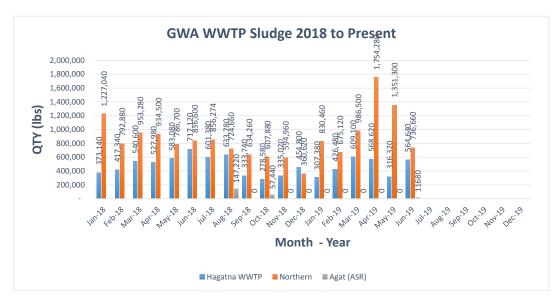


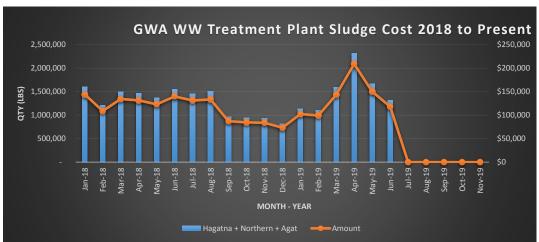


	Hagatna	WWTP	WTP Northe		Hagatna and	Northern
2017	Qty	Amount	Qty	Amount	Qty	Amount
Month- Yr	lbs	\$	lbs	\$	lbs	\$
Jan-17	247,440	\$22,270	1,283,000	\$115,470.0	1,530,440	\$137,740
Feb-17	282,180	\$25,396	920,480	\$82,843.2	1,202,660	\$108,239
Mar-17	497,660	\$44,789	880,780	\$79,270.2	1,378,440	\$124,060
Apr-17	577,246	\$51,952	796,560	\$71,690.4	1,373,806	\$123,643
May-17	660,840	\$59,476	859,260	\$77,333.4	1,520,100	\$136,809
Jun-17	505,160	\$45,464	913,760	\$82,238.4	1,418,920	\$127,703
Jul-17	462,420	\$41,618	1,423,168	\$128,085.1	1,885,588	\$169,703
Aug-17	694,420	\$62,498	690,200	\$62,118.0	1,384,620	\$124,616
Sep-17	341,020	\$30,692	981,280	\$88,315.2	1,322,300	\$119,007
Oct-17	474,020	\$42,662	846,180	\$76,156.2	1,320,200	\$118,818
Nov-17	500,020	\$45,002	968,260	\$87,143.4	1,468,280	\$132,145
Dec-17	584,809	\$52,633	810,960	\$72,986.4	1,395,769	\$125,619
Grand Total	5827235	\$524,451	11373888	\$1,023,649.9	17201123	\$1,548,101

	Hagatr	na WWTP	North	nern	Agat (	(ASR)	Hagatna + Northern + Agat		
2018	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount	
Month- Yr	lbs	\$	lbs	\$	lbs	\$	lbs	\$	
Jan-18	373,140	\$33,583	1,227,040	\$110,434			1,600,180	\$144,016	
Feb-18	417,340	\$37,561	792,880	\$71,359			1,210,220	\$108,920	
Mar-18	540,600	\$48,654	953,280	\$85,795			1,493,880	\$134,449	
Apr-18	527,980	\$47,518	934,500	\$84,105			1,462,480	\$131,623	
May-18	583,080	\$52,477	786,700	\$70,803			1,369,780	\$123,280	
Jun-18	717,120	\$64,541	836,600	\$75,294			1,553,720	\$139,835	
Jul-18	601,380	\$54,124	856,274	\$77,065			1,457,654	\$131,189	
Aug-18	633,780	\$57,040	724,660	\$63,469	147,220	\$12,894	1,505,660	\$133,404	
Sep-18	333,740	\$30,037	634,260	\$57,083	0	\$0	968,000	\$87,120	
Oct-18	278,580	\$25,072	607,880	\$54,709	57,440	\$4,993	943,900	\$84,774	
Nov-18	335,020	\$30,152	594,960	\$53,546	0	\$0	929,980	\$83,698	
Dec-18	454,800	\$40,932	360,620	\$32,456	0	\$0	815,420	\$73,388	
Grand Total	5,796,560	\$521,690	9,309,654	\$836,119	204,660	\$17,887	15310874	\$1,375,696	

	Hagatr	na WWTP	North	nern	Agat (	ASR)	Hagatna +	Northern + Agat
2019	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount
Month- Yr	lbs	\$	lbs	\$	lbs	\$	lbs	\$
Jan-19	307,380	\$27,664	830,460	\$74,741.4	0	\$0	1,137,840	\$102,406
Feb-19	426,480	\$38,383	675,120	\$60,760.8	0	\$0	1,101,600	\$99,144
Mar-19	609,100	\$54,819	986,500	\$88,785.0	0	\$0	1,595,600	\$143,604
Apr-19	568,620	\$51,176	1,754,280	\$157,885.2	0	\$0	2,322,900	\$209,061
May-19	316,320	\$28,469	1,351,300	\$121,617.0	0	\$0	1,667,620	\$150,086
Jun-19	564,640	\$50,818	736,660	\$66,299.4	11680	\$1,051	1,312,980	\$118,168
Jul-19		\$0		\$0.0		\$0	-	\$0
Aug-19		\$0		\$0.0		\$0	-	\$0
Sep-19		\$0		\$0.0		\$0	-	\$0
Oct-19		\$0		\$0.0		\$0	-	\$0
Nov-19		\$0		\$0.0		\$0	-	\$0
Dec-19		\$0		\$0.0		\$0	-	\$0
<b>Grand Total</b>	2,792,540	\$251,329	6,334,320	\$570,088.8	11,680	\$1,051	9138540	\$822,469



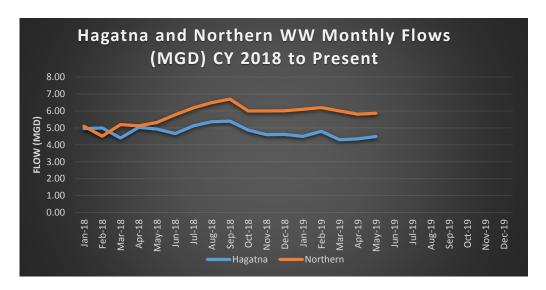


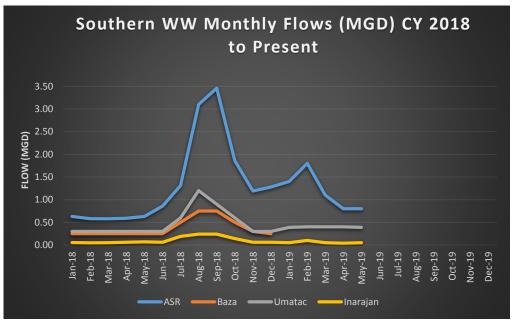
### Wastewater Treatment Plant Average Monthy Flows Million Gallons Per Day

2017	Hagatna	Northern	ASR	Baza	Umatac	Inarajan
Jan-17	6.00	5.69	0.89	0.31	0.35	0.09
Feb-17	6.00	5.61	0.76	0.24	0.30	0.09
Mar-17	6.00	5.62	0.78	0.24	0.30	0.06
Apr-17	6.00	5.58	0.95	0.24	0.30	0.08
May-17	5.59	5.26	0.86	0.25	0.30	0.06
Jun-17	6.00	5.36	0.77	0.23	0.30	0.05
Jul-17	5.94	5.33	0.74	0.25	0.30	0.05
Aug-17	6.57	5.77	1.16	0.29	0.30	0.08
Sep-17	6.23	5.84	2.08	0.25	0.30	0.12
Oct-17	6.82	5.96	2.05	0.25	0.30	0.23
Nov-17	6.01	5.78	0.85	0.25	0.30	0.07
Dec-17	5.49	5.79	0.73	0.25	0.30	0.06
2017 Average MGD	6.05	5.63	1.05	0.25	0.30	0.09
2017 Total MGY	2,210	2,056	384	93	111	32

2018	Hagatna	Northern	ASR	Baza	Umatac	Inarajan
Jan-18	4.96	5.10	0.63	0.25	0.30	0.05
Feb-18	5.00	4.51	0.58	0.25	0.30	0.05
Mar-18	4.40	5.20	0.58	0.25	0.30	0.05
Apr-18	5.03	5.12	0.59	0.25	0.30	0.06
May-18	4.93	5.32	0.63	0.25	0.30	0.07
Jun-18	4.67	5.78	0.86	0.25	0.30	0.06
Jul-18	5.12	6.18	1.31	0.50	0.60	0.19
Aug-18	5.36	6.49	3.10	0.75	1.20	0.24
Sep-18	5.40	6.70	3.46	0.75	0.90	0.24
Oct-18	4.87	6.00	1.86	0.50	0.60	0.14
Nov-18	4.60	6.00	1.19	0.30	0.30	0.06
Dec-18	4.62	6.01	1.28	0.25	0.30	0.06
2018 Average MGD	4.91	5.70	1.34	0.38	0.48	0.11
2018 Total MGY	1,793	2,081	489	138	173	39

2019	Hagatna	Northern	ASR	Baza	Umatac	Inarajan
Jan-19	4.50	6.10	1.40		0.39	0.05
Feb-19	4.80	6.20	1.80		0.40	0.10
Mar-19	4.30	6.00	1.10		0.40	0.05
Apr-19	4.35	5.81	0.80		0.40	0.04
May-19	4.49	5.87	0.80		0.39	0.05
Jun-19						
Jul-19						
Aug-19						
Sep-19						
Oct-19						
Nov-19						
Dec-19						
2018 Average MGD	4.49	6.00	1.18		0.40	0.06
2018 Total MGY	1,638	2,189	431	-	145	21

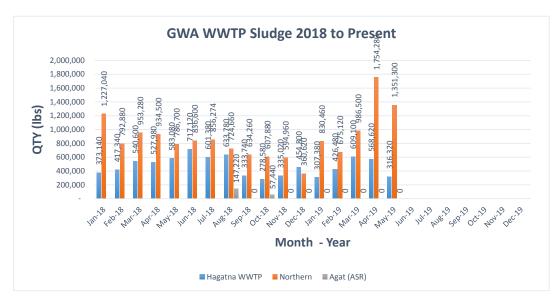


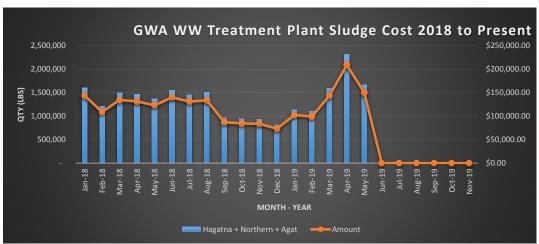


	ASR \	WWTP	Norti	nern	Hagatna and	d Northern
2018	Qty	Amount	Qty	Amount	Qty	Amount
Month- Yr	lbs	\$	lbs	\$	lbs	\$
Jan-18	247,440	\$22,269.60	1,283,000	\$115,470.00	1,530,440	\$137,739.60
Feb-18	282,180	\$25,396.20	920,480	\$82,843.20	1,202,660	\$108,239.40
Mar-18	497,660	\$44,789.40	880,780	\$79,270.20	1,378,440	\$124,059.60
Apr-18	577,246	\$51,952.14	796,560	\$71,690.40	1,373,806	\$123,642.54
May-18	660,840	\$59,475.60	859,260	\$77,333.40	1,520,100	\$136,809.00
Jun-18	505,160	\$45,464.40	913,760	\$82,238.40	1,418,920	\$127,702.80
Jul-18	462,420	\$41,617.80	1,423,168	\$128,085.12	1,885,588	\$169,702.92
Aug-18	694,420	\$62,497.80	690,200	\$62,118.00	1,384,620	\$124,615.80
Sep-18	341,020	\$30,691.80	981,280	\$88,315.20	1,322,300	\$119,007.00
Oct-18	474,020	\$42,661.80	846,180	\$76,156.20	1,320,200	\$118,818.00
Nov-18	500,020	\$45,001.80	968,260	\$87,143.40	1,468,280	\$132,145.20
Dec-18	584,809	\$52,632.81	810,960	\$72,986.40	1,395,769	\$125,619.21
Grand Total	5827235	\$524,451.15	11373888	\$1,023,649.92	17201123	\$1,548,101.07

	Hagatr	na WWTP	North	nern	Agat (	(ASR)	Hagatna + I	Northern + Agat
2018	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount
Month- Yr	lbs	\$	lbs	\$	lbs	\$	lbs	\$
Jan-18	373,140	\$33,582.60	1,227,040	\$110,433.60			1,600,180	\$144,016.20
Feb-18	417,340	\$37,560.60	792,880	\$71,359.20			1,210,220	\$108,919.80
Mar-18	540,600	\$48,654.00	953,280	\$85,795.20			1,493,880	\$134,449.20
Apr-18	527,980	\$47,518.20	934,500	\$84,105.00			1,462,480	\$131,623.20
May-18	583,080	\$52,477.20	786,700	\$70,803.00			1,369,780	\$123,280.20
Jun-18	717,120	\$64,540.80	836,600	\$75,294.00			1,553,720	\$139,834.80
Jul-18	601,380	\$54,124.20	856,274	\$77,064.66			1,457,654	\$131,188.86
Aug-18	633,780	\$57,040.20	724,660	\$63,469.35	147,220	\$12,894.25	1,505,660	\$133,403.80
Sep-18	333,740	\$30,036.60	634,260	\$57,083.40	0	\$0.00	968,000	\$87,120.00
Oct-18	278,580	\$25,072.20	607,880	\$54,709.20	57,440	\$4,992.61	943,900	\$84,774.01
Nov-18	335,020	\$30,151.80	594,960	\$53,546.40	0	\$0.00	929,980	\$83,698.20
Dec-18	454,800	\$40,932.00	360,620	\$32,455.80	0	\$0.00	815,420	\$73,387.80
Grand Total	5,796,560	\$521,690.40	9,309,654	\$836,118.81	204,660	\$17,886.86	15310874	###########

	Hagatna WWTP		North	nern	Agat (	ASR)	Hagatna + N	lorthern + Agat
2019	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount
Month- Yr	lbs	\$	lbs	\$	lbs	\$	lbs	\$
Jan-19	307,380	\$27,664.20	830,460	\$74,741.40	0	\$0.00	1,137,840	\$102,405.60
Feb-19	426,480	\$38,383.20	675,120	\$60,760.80	0	\$0.00	1,101,600	\$99,144.00
Mar-19	609,100	\$54,819.00	986,500	\$88,785.00	0	\$0.00	1,595,600	\$143,604.00
Apr-19	568,620	\$51,175.80	1,754,280	\$157,885.20	0	\$0.00	2,322,900	\$209,061.00
May-19	316,320	\$28,468.80	1,351,300	\$121,617.00	0	\$0.00	1,667,620	\$150,085.80
Jun-19		\$0.00		\$0.00		\$0.00	-	\$0.00
Jul-19		\$0.00		\$0.00		\$0.00	-	\$0.00
Aug-19		\$0.00		\$0.00		\$0.00	-	\$0.00
Sep-19		\$0.00		\$0.00		\$0.00	-	\$0.00
Oct-19		\$0.00		\$0.00		\$0.00	-	\$0.00
Nov-19		\$0.00		\$0.00		\$0.00	-	\$0.00
Dec-19		\$0.00		\$0.00		\$0.00	-	\$0.00
<b>Grand Total</b>	2,227,900	\$200,511.00	5,597,660	\$503,789.40	-	\$0.00	7825560	\$704,300.40







### **Guam Waterworks Authority**

# VEHICLE FLEET STATUS 5/13/2019

	EQUII	PMENT ST	TATUS					SUMMARY			
Description	Number of Equipment	Number of Equipment Available	Number of Equipment Not Available	Percentage	Operational	Operational w/Rprs Pending	Not in Operation- Accident (Docs Pending)	Not in Operation- Assessment Pending	Not in Operation- Repairs Pending	Not in Operation- Vendor Repairs	Recommend Survey
Backhoe	4	1	3	25%	1	0	0	0	0	2	1
Bobcat	1	0	1	0%	0	0	0	0	0	0	1
Boom Truck	2	1	1	50%	1	0	0	0	0	0	1
Crane	1	1	0	100%	0	1	0	0	0	0	0
Dump Truck	3	1	2	33%	1	0	0	0	0	0	2
Flat Bed	0	0	0	#DIV/0!	0	0	0	0	0	0	0
Forklift	6	6	0	100%	6	0	0	0	0	0	0
Fuel Tanker	1	1	0	100%	1	0	0	0	0	0	0
Heavy Duty	8	7	1	88%	7	0	0	0	0	0	1
Hoist Rig	1	0	1	0%	0	0	0	1	0	0	0
Light	155	111	44	72%	106	5	0	1	8	9	26
Mini Backhoe	4	2	2	50%	2	0	0	0	0	2	0
Pumper Truck	1	1	0	100%	1	0	0	0	0	0	0
Skidster	1	0	1	0%	0	0	0	0	1	0	0
Sludge Truck	5	3	2	60%	3	0	0	0	0	2	0
Tow	0	0	0	0%	0	0	0	0	0	0	0
Tractor	2	2	0	100%	1	1	0	0	0	0	0
Tractor Mower	1	1	0	100%	1	0	0	0	0	0	0
Trailer	15	10	5	67%	10	0	0	0	3	1	1
Trencher	1	1	0	100%	1	0	0	0	0	0	0
Vaccon	1	1	0	100%	1	0	0	0	0	0	0
Vacuum Truck	2	0	2	0%	0	0	0	0	0	2	0
Water Buffalo	2	2	0	100%	2	0	0	0	0	0	0
Water Tanker	4	4	0	100%	4	0	0	0	0	0	0
Compressor	1	1	0	100%	1	0	0	0	0	0	0
Total	252	176	65		176	7	0	2	12	18	33



### **Guam Waterworks Authority**

## VEHICLE FLEET STATUS 6/29/2019

	EQUII	PMENT ST	TATUS					SUMMARY			
Description	Number of Equipment	Number of Equipment Available	Number of Equipment Not Available	Percentage	Operational	Operational w/Rprs Pending	Not in Operation- Accident (Docs Pending)	Not in Operation- Assessment Pending	Not in Operation- Repairs Pending	Not in Operation- Vendor Repairs	Recommend Survey
Backhoe	4	1	3	25%	1	0	0	0	0	2	1
Bobcat	1	0	1	0%	0	0	0	0	0	0	1
Boom Truck	2	1	1	50%	1	0	0	0	0	0	1
Crane	1	1	0	100%	0	1	0	0	0	0	0
Dump Truck	3	1	2	33%	1	0	0	0	0	0	2
Flat Bed	0	0	0	#DIV/0!	0	0	0	0	0	0	0
Forklift	6	6	0	100%	6	0	0	0	0	0	0
Fuel Tanker	1	1	0	100%	1	0	0	0	0	0	0
Heavy Duty	8	6	2	75%	6	0	0	0	1	0	1
Hoist Rig	1	0	1	0%	0	0	0	1	0	0	0
Light	155	109	46	70%	101	8	1	1	9	9	26
Mini Backhoe	4	2	2	50%	2	0	0	0	0	2	0
Pumper Truck	1	1	0	100%	1	0	0	0	0	0	0
Skidster	1	0	1	0%	0	0	0	0	1	0	0
Sludge Truck	5	3	2	60%	2	1	0	0	0	2	0
Tow	0	0	0	0%	0	0	0	0	0	0	0
Tractor	2	2	0	100%	1	1	0	0	0	0	0
Tractor Mower	1	1	0	100%	1	0	0	0	0	0	0
Trailer	15	10	5	67%	10	0	0	0	4	0	1
Trencher	1	1	0	100%	1	0	0	0	0	0	0
Vaccon	1	1	0	100%	1	0	0	0	0	0	0
Vacuum Truck	3	1	2	33%	1	0	0	0	0	2	0
Water Buffalo	2	2	0	100%	2	0	0	0	0	0	0
Water Tanker	4	4	0	100%	4	0	0	0	0	0	0
Compressor	1	1	0	100%	1	0	0	0	0	0	0
Total	252	176	68		176	11	1	2	15	17	33

Guam Waterwork	s Authori	ity	Date:	5/15/2019
			Time:	
	RE'	VIEWS		
TOTAL PUMPS INSTALLED	50	OVERA	AVERAGE	94%
TOTAL PUMPS OPERATIONAL	47	% OF OPER	ATING PUMPS	94%
TOTAL BOOSTER PUMP STATIONS	25			



No	orthern District												
NO:	FACILITY	PUMP HORSEPOWE R	NO OF INSTALLED PUMPS	NO OF OPERATIONAL PUMPS	PUMP AVAILABILITY %	GENERATOR OPERATIONAL FAULT	ATS MANUAL/AUTO	PUMP UNIT REMARKS	WORK ORDER NO:	VALVES, ELECTRICAL,STRUCTURAL REMARKS	WORK ORDER NO:	ESTIMATED REPAIR DATE	PUMP AND MOTOR INVENTORY
1	Gayinero	20	2	2	100%	OP	Α						
2	Mataguac	25	2	2	100%	OP	A						
3	Santa Rosa	15	2	2	100%	OP	Α						
4	Hyundai	40	2	1	50%	OP	A	Pump # 1 requires pump and motor. Station undergoing renovation with new pumps installed.				Estimate completion for pump station renovation September 2019. New pumps will be installed.	
5	Access	60	2	2	100%	OP	A						
6	Chln. Palauan	5	2	1	50%	N/A		Pump # 2 offline, replacement required.				Estimated May 31st for completion.	
7	Nimitz Hill	7.5	2	2	100%	N/A							
8	Adawag	1.5	1	1	100%	N/A							
9	Pale Kiren	1	1	1	100%	N/A							
	Ulloa/Untalan	1	2	2	100%	OP	A						
	Latte Heights	15	2	2	100%	OP	A			·			
	TOTAL = 11		20	18	90%								
pum	availability =no of	f operational pur	nps/no of pumps	*100%									

Ce	ntral District												
NO:	FACILITY	PUMP HORSEPOWE R	NO OF INSTALLED PUMPS	NO OF OPERATIONAL PUMPS	PUMP AVAILABILITY %	GENERATOR OPERATIONAL FAULT	ATS MANUAL/AUTO	PUMP UNIT REMARKS	WORK ORDER NO:	VALVES, ELECTRICAL,STRUCTURAL REMARKS	WORK ORDER NO:	ESTIMATED REPAIR DATE	UPDATES
	Pago	150 / 100	3	3	100%	0P	A	All pumps operational.					
2	Brigade	60	3	3	100%	OP	A						
3	Windward Hills	200 / 75	3	3	100%	OP	A	All pumps operational.					
4	Santa Rita Spring	40	2	2	100%	OP	A						
5	Santa Ana (Lower)	25	2	2	100%	N/A		Pump # 1 is operational on manual.		Check vavle for pump #1 not working properly.		Estimated completion for valve replacement is Mid June.	
	Camacho	1	1	1	100%	N/A							
7	Tenorio	1.5	1	1	100%	N/A		•					•
	Total=7		15	15	100%			•					·
pum	p availability =no of	operational pun	nps/no of pumps	*100%									

Sc	uthern Distri	ict											
NO	FACILITY	PUMP HORSEPOWE R	NO OF INSTALLED PUMPS	NO OF OPERATIONAL PUMPS	PUMP AVAILABILITY %	GENERATOR OPERATIONAL FAULT	ATS MANUAL/AUTO	PUMP UNIT REMARKS	WORK ORDER NO:	VALVES, ELECTRICAL,STRUCTURAL REMARKS	WORK ORDER NO:	ESTIMATED REPAIR DATE	UPDATES
1	Malojloj Line	125 / 50	3	3	100%	OP	A	All pumps operational.					
2	Geus	25	2	1	50%	OP	A	needs new timer		electrical sourcing parts		Estimated completion May 31st.	
3	Pigua	7.5	2	2	100%	N/A							
4	Toguan	25	2	2	100%	OP	Α	Pump #1 barings starting to make unusual noise. Need to make assessments				Inspection and removal scheduled for week of May 27th.	
5	WBP-2	25	2	2	100%	OP	A						
6	WBP-1	5	2	2	100%	OP	A						
7	Malojloj Elevated	15	2	2	100%	OP	A						
	Total=7		15	14	93%								
pun	p availability =no of	availability =no of operational pumps/no of pumps*100%											

Guam Waterworks	s Author	Date:	6/29/2019
		Time:	
	RE	VIEWS	
TOTAL PUMPS INSTALLED	50	OVERAL AVERAGE	97%
TOTAL PUMPS OPERATIONAL	48	% OF OPERATING PUMPS	96%
TOTAL BOOSTER PUMP STATIONS	25		



No	orthern District												
NO:	FACILITY	PUMP HORSEPOWE R	NO OF INSTALLED PUMPS	NO OF OPERATIONAL PUMPS	PUMP AVAILABILITY %	GENERATOR OPERATIONAL FAULT	ATS MANUAL/AUTO	PUMP UNIT REMARKS	WORK ORDER NO:	VALVES, ELECTRICAL,STRUCTURAL REMARKS	WORK ORDER NO:	ESTIMATED REPAIR DATE	PUMP AND MOTOR INVENTORY
1	Gayinero	20	2	2	100%	OP	A						
2	Mataguac	25	2	2	100%	OP	A						
3	Santa Rosa	15	2	2	100%	OP	A						
4	Hyundai	40	2	1	50%	OP	A	Pump # 1 requires pump and motor. Station undergoing renovation with new pumps installed.				Estimate completion for pump station renovation September 2019. New pumps will be installed.	
5	Access	60	2	2	100%	OP	A						
6	Chin. Palauan	5	2	1	50%	N/A		Pump # 2 offline, replacement required.  Motor in stock, additional piping work required.					
7	Nimitz Hill	7.5	2	2	100%	N/A							
	Adawag	1.5	1	1	100%	N/A			İ		İ		
	Pale Kiren	1	1	1	100%	N/A			İ		İ		
	Ulloa/Untalan	1	2	2	100%	OP	Α		İ		İ		
11	Latte Heights	15	2	2	100%	OP	A						
	TOTAL = 11		20	18	90%								
pump	availability =no o	f operational pur	nps/no of pumps	*100%						•			•

Ce	entral District												
NO	FACILITY	PUMP HORSEPOWE R	NO OF INSTALLED PUMPS	NO OF OPERATIONAL PUMPS	PUMP AVAILABILITY %	GENERATOR OPERATIONAL FAULT	ATS MANUAL/AUTO	PUMP UNIT REMARKS	WORK ORDER NO:	VALVES, ELECTRICAL,STRUCTURAL REMARKS	WORK ORDER NO:	ESTIMATED REPAIR DATE	UPDATES
1	Pago	150 / 100	3	3	100%	0P	A						
2	Brigade	60	3	3	100%	OP	Α						
3	Windward Hills	200 / 75	3	3	100%	OP	A						
4	Santa Rita Spring	40	2	2	100%	OP	A						
5	Santa Ana (Lower)	25	2	2	100%	N/A		Pump # 1 is operational on manual.		Check vavle for pump #1 not working properly.		Estimated completion for valve replacement is Mid June.	
6	Camacho	1	1	1	100%	N/A							
7	Tenorio	1.5	1	1	100%	N/A							
	Total=7		15	15	100%			•					
pun	p availability =no of	operational pur	ps/no of pumps	*100%									

So	Southern District													
NO:	FACILITY	PUMP HORSEPOWE R	NO OF INSTALLED PUMPS	NO OF OPERATIONAL PUMPS	PUMP AVAILABILITY %	GENERATOR OPERATIONAL FAULT	ATS MANUAL/AUTO	PUMP UNIT REMARKS	WORK ORDER NO:	VALVES, ELECTRICAL,STRUCTURAL REMARKS	WORK ORDER NO:	ESTIMATED REPAIR DATE	UPDATES	
1	Malojloj Line	125 / 50	3	3	100%	OP	Α							
2	Geus	25	2	2	100%	OP	A			Replaced timer for electrical.				
3	Pigua	7.5	2	2	100%	N/A								
4	Toguan	25	2	2	100%	OP	A	Pump #1 barings starting to make unusual noise. Need to make assessments				Pending purchase order for bearings.		
5	WBP-2	25	2	2	100%	OP	A							
6	WBP-1	5	2	2	100%	OP	A							
7	Malojloj Elevated	15	2	2	100%	OP	A							
	Total=7		15	15	100%									
pum	pump availability =no of operational pumps/no of pumps*100%													