

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 8:00 a.m., Tuesday, October 19, 2021

AGENDA *AMENDED

- 1. CALL TO ORDER
- 2. * INTRODUCTION OF GEDA INVESTMENT BANKER / UNDERWRITER
- 3. ISSUES FOR DECISION
 - 3.1 Relative to Approval of Creation of Plant Instrument Technician Supervisor Position Guam Waterworks Authority Job Classification Standard / Resolution No. 01-FY2022
 - 3.2 Relative to Approval of Change Order No. 5 For the Groundwater Production Meter Replacement Project GWA Project No. W19-001-BND / Resolution No. 02-FY2022
 - 3.3 Relative to Approval of Change Order No. 2 for the Tai Road/S-13 and Canada-Toto Loop/Blas Street Waterline Replacement Project / Resolution No. 03-FY2022
 - 3.4 Relative to Approval of Amendment for the Indefinite Delivery/Indefinite Quantity Professional Project/Construction Management Services Contract / Resolution No. 04-FY2022
- 4. GM REPORT
 - 4.1 **Operations**
 - 4.2 Compliance
 - 4.3 Engineering / Capital Improvement Program
 - 4.4 Administration
 - 4.5 Financial
 - 4.6 Other
- 5. OTHER DISCUSSION
 - 5.1 CCU Rules Update
- 6. ANNOUNCEMENTS
 - 6.1 Next CCU Meetings: GPA Work Session: Oct. 21; CCU Regular Monthly Mtg.: Oct. 26
- 7. EXECUTIVE SESSION
 - 7.1 Litigation Matter
- 8. ADJOURNMENT







Finance Team Meeting Tuesday, October 19, 2021 @ 8:00 am ChST /Monday, October 18, 2021 @ 3:00 pm PT

Agenda

- 1. Introductions
- 2. Update on Rate Case
- 3. Update on CIP Plan
- 4. Update on legislation
- 5. Update on Consent Decree
- 6. Overview of commercial paper program
- 7. Next Steps

Zoom Dial-in Information

Time: 8:00 am ChST / 3:00 pm PT

Meeting URL: https://citi.zoom.us/j/5816458164?pwd=QUFsVnREZFJZMUJzZEpKcXpBUjdNdz09

Meeting ID: 581 645 8164

Password: 581645





"Better Water, Better Lives."

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

Tel: (671) 300-6846

Issues for Decision

Resolution No. 01-FY2022

Relative to the Creation of the Plant Instrument Technician Supervisor Position at the Guam Waterworks Authority (GWA).

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

Objective is to create the Plant Instrument Technician Supervisor – GWA job standards and salary range is based on the 20th market percentile, 2017 market data.

The creation of the Plant Instrument Technician Supervisor position is for the efficient and effective performance of duties and functions of the Guam Waterworks Authority's Plant Instrument Technician Section. The creation of this position is necessary to explicitly identify utility-based job specifications for the existing Plant Instrument Technician series of positions. This position is necessary to supervise Plant Instrument Technicians and to participate in the installation, maintenance and repair of the electrical and control system, electrical equipment, instruments and components of an industrial utility plant, including System Control and Data Acquisition (SCADA) systems and components.

The Authority does not currently employ a Plant Instrument Technician Supervisor, thus limiting the GWA's ability to establish a clear and concise path and structure for the Plant Instrument Technician levels within the agency. The creation of the Plant Instrument Technician Supervisor position will allow for the proper staffing and workforce planning to increase competence, productivity and efficiency. Currently there is no Supervisor position in the Organizational Chart, and the ranking goes from a Leader position to a Superintendent, resulting in gaps in responsibility and leadership from one level to the other.

Upon approval of this creation, the position will be added to GWA's Drug and Alcohol-Free Workplace Policy as a Testing Designated Position (TDP) list, subject to random drug testing.

Where is the location?

The Plant Instrument Technician Supervisor – GWA position will be organizationally located within the Plant Instrument Technician Section.

How much will it cost?

There is no cost to create the position; however, the proposed salary range to fill the position is a minimum of \$73,395 per annum and a maximum of \$76,375.00 per annum.

When will it be completed?

Public Law 28-159, Section 7.0.3 (c) requires GPA and GWA to post a petition on their websites for ten (10) days (not including Saturdays, Sundays and government of Guam holidays). GWA has met the posting requirements and the position creation can be acted upon the CCU at the October 26, 2021, Board Meeting.

What is the funding source?

GWA will certify funding for the position available for the filling and retention of its certified, technical and professional newly created position. The funding of this position does not have an impact on the General Fund.

The RFP/BID responses (if applicable):

N/A

2.5

CONSOLIDATED COMMISSION ON UTILITIES

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

RESOLUTION NO. 01-FY2022

APPROVAL OF THE CREATION OF THE PLANT INSTRUMENT TECHNICIAN SUPERVISOR – GUAM WATERWORKS AUTHORITY JOB CLASSIFICATION STANDARD

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

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

WHEREAS, the GWA General Manager requests the CCU to approve the creation of the Plant Instrument Technician Supervisor position in the classified status (Attachment A);

WHEREAS, the GWA General Manager requests the CCU to approve the job classification standards of the Plant Instrument Technician Supervisor position in the classified status; and

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

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

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

- 1. The recitals set forth above hereby constitute the findings of the CCU.
- 2. The creation of the job classification standard for the Plant Instrument Technician Supervisor position in the classified status is hereby approved and attached herein as Attachment A.
- 3. The Plant Instrument Technician Supervisor position is hereby added to the certified, technical and professional (CTP) list of positions and Drug and Alcohol-Free Workplace Policy testing designated positions (TDP) list at GWA, subject to random drug testing.

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

DULY AND REGULARLY ADOPTED, this 26th day of October 2021.

Certified by:

Attested by:

JOSEPH T. DUENAS
Chairperson

MICHAEL T. LIMTIACO
Secretary

SECRETARY'S CERTIFICATE I, Michael T. Limtiaco, Board Secretary of the Consolidated Commission on Utilities as evidenced by my signature above do hereby certify as follows: The foregoing is a full, true and accurate copy of the resolution duly adopted at a regular meeting by the members of the Guam Consolidated Commission on Utilities, duly and legally held at a place properly noticed and advertised at which meeting a quorum was present and the members who were present voted as follows: AYES: NAYS: ABSENT: ABSTAIN: ///

Plant Instrument Technician Supervisor (PROPOSED)

NATURE OF WORK IN THIS CLASS

Supervises and participates in the installation, maintenance and repair of the electrical and control systems, electrical equipment, instruments and components of an industrial utility plant, including System Control and Data Acquisition (SCADA) systems and components.

Supervises the programs and activities in the repair and maintenance of the Guam Waterworks Authority's plant facilities, electronic industrial control equipment and other related electrical systems.

Supervises the daily activities performing repairs and preventive maintenance in accordance with utility standards.

<u>ILLUSTRATIVE EXAMPLES OF WORK:</u> (Any one position may not include all the duties listed, nor do the examples cover all the duties which may be performed.)

Supervises and performs work in the test operation of instruments; analyzes defects and makes recommendation of necessary repairs on mechanical, electrical and pneumatic instruments.

Supervises and participates in the maintenance and repair of mechanical, electrical, and pneumatic instrumentation and control systems, electrical equipment, instruments and SCADA system components.

Coordinates, monitors and evaluates SCADA work performed by contracted vendors

Performs repair tasks requiring a high degree of skill in the electrical trade.

Implements agency policies for personnel, training, and safety.

Trains and instructs subordinates in work methods and procedures, proper use of tools and equipment, safety practices and regulations, work policies and electrical codes and standards.

Schedules, assigns, plan and monitor the work of the electrical shop personnel performing a variety of electrical and instrument projects.

Prioritizes tasks, schedules and distributes work assignments and ensures that personnel are completing work on schedule. Monitors and maintains the CMMS or other related software for information.

Reviews plans for future systems upgrade and installation to insure compatibility with existing electrical codes and maintenance standards.

Prepares material, labor estimates and monitors the acquisition and use of materials; ensures budgeting guidelines are met; prioritizes shop expenditures to stay within budget and assists in preparation of capital and operating budgets.

Maintains records and prepares reports.

ATTACHMENT A - page 1of 3

Performs other related work as required.

MINIMUM KNOWLEDGE, ABILITIES AND SKILLS

Knowledge of the standard principles, methods, practices, techniques, tools and test equipment used in the installation, maintenance and repair of mechanical, electrical and pneumatic instruments, and data monitoring, acquisition and control systems of an industrial utility plant.

Knowledge in the interpretation of electrical diagrams, wiring diagrams, electrical and electronic schematics. Knowledge of system functions of an industrial utility plant.

Knowledge of supervisory and personnel principles, practices and techniques an supervise the work of others.

Ability to make work decisions in accordance with laws, rules and regulations and to apply agency's policies.

Ability to apply and enforce safe work practices on the job.

Ability to read, interpret and work from blueprints, sketches and wiring diagrams.

Ability to prepare time and material cost estimates of work projects.

Ability to effectively work and communicate both verbally and in writing with the public and employees.

Ability to creates work orders and generates reports using the utility's work generating and reporting software or other related software used.

Ability to perform arduous physical tasks, including climbing, stooping, lifting of tools and equipment and working in strained and awkward positions.

Ability to maintain records and prepare reports.

Skill in the use and care of tools and equipment of the trade.

MINIMUM EDUCATION AND TRAINING

- A). Successful completion of a vocational technical training apprenticeship program in applied electrical, electronics and instrumentation technology **AND** four (4) years of experience in electrical-electronic repair, installation and maintenance of electrical plant control system, electrical equipment, instruments and components of an industrial utility plant; **AND** twenty-four (24) months of experience at the journeyman level or higher in the related field; **OR**
- B). Associates Degree of Science, in applied electrical, electronics or instrumentation technology **AND** three (3) years of experience in electrical-electronic repair, installation and maintenance of electrical plant control system, electrical equipment, instruments and components of an industrial utility plant AND eighteen (18) months of experience at the journeyman level or higher in the related field; **OR**

C). Six (6) years of experience at the skilled level or higher in electrical-electronic repair, installation or maintenance of electrical plant control system, electrical equipment, instruments and components of an industrial utility plant or related field.

NECESSARY SPECIAL QUALIFICATIONS:

Possess a valid Guam Driver's License.

PREFFERED CERTIFICATION

Certification in SCADA, PLCs, Automation or System Integration

Established: September 2021

JDE Points: 911

Implementation Range: Minimum: L6-D \$73,395/annum; \$35.29/hour

Maximum: L7-D \$76,375/annum; \$36.72/hour

JOSEPH T. DUENAS, Chairman Consolidated Commission on Utilities

ATTACHMENT A - page 3 of 3



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Tel: (671) 300-6846

Issues for Decision

Resolution No. 02- FY2022

Relative to Approval of change Order No. 5 for the Groundwater Production Meter Replacement Project

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

The intent of the original project scope is to replace the **faulty flow meters** and to standardize well head discharge piping for **60 critical production wells** thus improving the measurement of the volume of groundwater produced from the wells and mitigating the under-or-over reported total production. Completion of this project is critical to improving GWA's water loss control program and is aligned with the overall water loss control objectives. Due to funding constraints, only the 30 deep wells listed in the Basic Bid Schedule were awarded. This change order will include the 15 deep wells listed in Additive Bid No. 1 which is in line with intent of the project.

Where is the location?

The 15 additional deep wells are located in the villages of Agana Heights, Chalan Pago, Mangilao, Dededo, and in Finegayan-Route 3 area.

How much will it cost?

The cost of this change order No.5 is **\$741,744.65** including price escalation of \$53,784.65 requested by the Contractor to cover for the increase in price of ductile iron pressure pipe, fittings, and related materials from the bidding in September 2019 to September 2021.

When will it be completed?

The change order is estimated to be completed within 215 calendar days from the approval date of this change order.

What is the funding source?

The funding for this change order will be from Bond Funds under the line items **MP-PW-Misc-02** (Master Meter Implementation and Ongoing Meter Replacement and **PW 05-07** (Meter Replacement Program).

The RFP/BID responses (if applicable):

Not Applicable



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GWA RESOLUTION NO. 02-FY2022

RELATIVE TO APPROVAL OF CHANGE ORDER NO. 5 FOR THE GROUNDWATER PRODUCTION METER REPLACEMENT PROJECT GWA PROJECT NO. W19-001-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 retained Brown and Caldwell to develop bid-ready plans and specifications to replace faulty flow meters and to correct and standardize well head discharge piping for improvement in metering accuracy for **60 critical production wells**; and

WHEREAS, in anticipation of funding shortfall, the bid schedule was divided into Basic Bid, Additive Bid No.1 and Additive Bid No.2 (See Exhibit C); and

WHEREAS, the bid schedule states in the event the lowest responsive and responsible Bid exceeds the available budget, GWA may reject individual Bid items until the Bid amount fits within the available budget. If additional funding is obtained after the contract is executed, any or all deleted Bid items may be restored via Change Order (See Exhibit C); and

WHEREAS, on October 29, 2019, the CCU approved Resolution 04-FY2020 (See Exhibit D) authorizing GWA Management to enter into a contract with Giant Construction Corporation to provide construction services for the replacement of the above-ground discharge piping and meter for 30 critical production wells to improve measurement of the volume of

groundwater that is produced from the wells and mitigate the under-or-over reported total production; and

WHEREAS, the above noted resolution approved the funding of One million Three Hundred Seventy-Nine Thousand Four Hundred Five Dollars (\$1,379,405.00), along with a ten percent (10%) contingency of One Hundred Thirty-Seven Thousand Nine Hundred Forty Dollars and Fifty Cents (\$137,940.50) to bring the total authorized funding amount to One Million Five Hundred Seventeen Thousand Three Hundred Forty-Five Dollars and Fifty Cents (\$1,517,345.50); and

WHEREAS, to address construction and material supply issues related to the initial Basic Bid scope, GWA Management has subsequently approved Change Order Nos. 1, 2, and 3 (See Exhibit E) with Giant Construction Corporation having an aggregate cost of Sixty-Four Thousand Four Dollars and Forty-Three Cents (\$64,004.43) which increased the total authorized contract value from One million Three Hundred Seventy-Nine Thousand Four Hundred Five Dollars (\$1,379,405.00) to One Million Four Hundred Forty Three Thousand Four Hundred Nine Dollars and Forty Three Cents (\$1,443,409.43), and adjusted the balance of the authorized contingency from One Hundred Thirty-Seven Thousand Nine Hundred Forty Dollars and Fifty Cents (\$137,940.50) to Seventy-Three Thousand Nine Hundred Thirty Six Dollars and Seven Cents (\$73,936.07); and

WHEREAS, due to operational issues on isolating the wells that has been delaying the Contractor's work progress, GWA has replaced two production wells listed in the Basic Bid Schedule with two other production wells with same wellhead size and similar length of the above-ground discharge piping, and is processing a no-cost Change Order no. 4 to reflect the changes (See Exhibit E); and

WHEREAS, Giant Construction Corporation to date has substantially completed the replacement of the above-ground discharge piping and meter for the 30 critical production wells that include 28 production wells listed in the Basic Bid Schedule; and

WHEREAS, GWA Management seeks to continue replacement of the above-ground discharge piping and meter to meet the original intent of the project; and

WHEREAS, GWA Management seeks to change order the existing contract scope with Giant Construction Corporation by adding the 15 critical production wells listed in Additive Bid No. 1; and

WHEREAS, GWA Management seeks CCU approval of Change Order No. 5 (See Exhibit A) with Giant Construction Corporation for Additive Bid No. 1 at the bid price of Six Hundred Eighty-Seven Thousand Nine Hundred-Sixty Dollars (\$687,960.00) plus an escalation cost of Fifty Three Thousand Seven Hundred Eighty-Four Dollars and Sixty Five Cents (\$53,784.65) which will bring the total change order amount to Seven Hundred Forty-One Thousand Seven Hundred Forty-Four Dollars and Sixty Five Cents (\$741,744.65) (See Exhibit B); and

WHEREAS, the escalation cost claimed by Giant Construction Corporation accounts for the increase in price of ductile iron pressure pipe, fittings, and meters from suppliers and are considered reasonable bringing the bid price dated September 27, 2019 to current; and

WHEREAS, the current total authorized amount of One Million Five Hundred Seventeen Thousand Three Hundred Forty-Five Dollars and Fifty Cents (\$1,517,345.50), which consists of the current total contract value of One Million Four Hundred Forty Three Thousand Four Hundred Nine Dollars and Forty Three Cents (\$1,443,409.43) and an adjusted contingency balance of Seventy Three Thousand Nine Hundred Thirty Six Dollars and Seven Cents (\$73,936.07), plus the proposed Change Order No. 5 amount of Seven Hundred Forty-One Thousand Seven Hundred Forty-Four Dollars and Sixty Five Cents (\$741,744.65) will bring the total authorized funding amount to Two Million Two Hundred Fifty Nine Thousand Ninety Dollars and Fifteen Cents (\$2,259,090.15); and

WHEREAS, funding for Change Order no. 5 will be PW 05-07 (Meter Replacement Program) and MP-PW-Misc-02 (Master Meter Implementation and Ongoing Meter Repl.); and

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

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

- 1. The recitals set forth above hereby constitute the findings of the CCU.
- 2. The CCU finds that the terms of the conditions set by GWA relative to commencement of work activities are fair and reasonable and serve as a measure of Quality Assurance/Quality Control (QA/QC).
- 3. The CCU hereby authorizes the management of GWA to accept the change order proposal from "Giant Construction Corporation." attached hereto as Exhibit A and which is incorporated into this Resolution in its entirety.
- 4. The CCU hereby further authorizes the management of GWA to execute the Change Order No. 5 with "Giant Construction Corporation" in the amount Seven Hundred Forty-One Thousand Seven Hundred Forty-Four Dollars and Sixty-Five Cents (\$741,744.65).
- 5. The CCU hereby further approves the funding of the current authorized amount of One Million Five Hundred Seventeen Thousand Three Hundred Forty-Five Dollars and Fifty Cents (\$1,517,345.50) plus the Change Order No. 5 amount of Seven Hundred Forty-One Thousand Seven Hundred Forty-Four Dollars and Sixty-Five Cents (\$741,744.65) to bring the total authorized funding amount to Two Million Two Hundred Fifty-Nine Thousand Ninety Dollars and Fifteen Cents (\$2,259,090.15).
- The CCU hereby further approves the funding for this Change Order No. 5
 from the 2020 Bond MP-PW-Misc-02 (Master meter Implementation and
 Ongoing Meter Replacement) and 2013 Bond PW 05-07 (Meter Replacement
 Program).
- 7. The CCU hereby further authorizes the management of GWA to petition the PUC's approval of the Change Order No. 5.

	RESOLVED, that the Chairman	certified and the Board Secretary attests to the
ado	option of this Resolution.	certified and the Board Secretary attests to the
	•	
	DULY AND REGULARLY ADO	PTED , this 26th day of October 2021.
	Certified by:	Attested by:
	JOSEPH T. DUENAS Chairperson	MICHAEL T. LIMTIACO Secretary
	SECRETA	RY'S CERTIFICATE
	I, Michael T. Limtiaco, Bo	oard Secretary of the Consolidated Commission on
	Utilities as evidenced by my signatu	ure above do hereby certify as follows:
	The foregoing is a full, true	ure above do hereby certify as follows: and accurate copy of the resolution duly adopted at a
	The foregoing is a full, true regular meeting by the members of	and accurate copy of the resolution duly adopted at a of the Guam Consolidated Commission on Utilities,
	The foregoing is a full, true regular meeting by the members of duly and legally held at a place p	are above do hereby certify as follows: and accurate copy of the resolution duly adopted at a of the Guam Consolidated Commission on Utilities, properly noticed and advertised at which meeting a
	The foregoing is a full, true regular meeting by the members of duly and legally held at a place p	and accurate copy of the resolution duly adopted at a of the Guam Consolidated Commission on Utilities,
	The foregoing is a full, true regular meeting by the members of duly and legally held at a place p	are above do hereby certify as follows: and accurate copy of the resolution duly adopted at a of the Guam Consolidated Commission on Utilities, properly noticed and advertised at which meeting a
	The foregoing is a full, true regular meeting by the members of duly and legally held at a place program was present and the members.	are above do hereby certify as follows: and accurate copy of the resolution duly adopted at a of the Guam Consolidated Commission on Utilities, properly noticed and advertised at which meeting a
	The foregoing is a full, true regular meeting by the members of duly and legally held at a place p quorum was present and the member AYES:	are above do hereby certify as follows: and accurate copy of the resolution duly adopted at a of the Guam Consolidated Commission on Utilities, properly noticed and advertised at which meeting a
	The foregoing is a full, true regular meeting by the members of duly and legally held at a place program was present and the member AYES: NAYS: ABSENT:	are above do hereby certify as follows: and accurate copy of the resolution duly adopted at a of the Guam Consolidated Commission on Utilities, properly noticed and advertised at which meeting a
	The foregoing is a full, true regular meeting by the members of duly and legally held at a place program was present and the member AYES: NAYS:	are above do hereby certify as follows: and accurate copy of the resolution duly adopted at a of the Guam Consolidated Commission on Utilities, properly noticed and advertised at which meeting a
///	The foregoing is a full, true regular meeting by the members of duly and legally held at a place program was present and the member AYES: NAYS: ABSENT:	are above do hereby certify as follows: and accurate copy of the resolution duly adopted at a of the Guam Consolidated Commission on Utilities, properly noticed and advertised at which meeting a
///	The foregoing is a full, true regular meeting by the members of duly and legally held at a place program was present and the member AYES: NAYS: ABSENT:	are above do hereby certify as follows: and accurate copy of the resolution duly adopted at a of the Guam Consolidated Commission on Utilities, properly noticed and advertised at which meeting a
	The foregoing is a full, true regular meeting by the members of duly and legally held at a place program was present and the member AYES: NAYS: ABSENT:	are above do hereby certify as follows: and accurate copy of the resolution duly adopted at a of the Guam Consolidated Commission on Utilities, properly noticed and advertised at which meeting a
///	The foregoing is a full, true regular meeting by the members of duly and legally held at a place program was present and the member AYES: NAYS: ABSENT:	are above do hereby certify as follows: and accurate copy of the resolution duly adopted at a of the Guam Consolidated Commission on Utilities, properly noticed and advertised at which meeting a
	The foregoing is a full, true regular meeting by the members of duly and legally held at a place program was present and the member AYES: NAYS: ABSENT:	are above do hereby certify as follows: and accurate copy of the resolution duly adopted at a of the Guam Consolidated Commission on Utilities, properly noticed and advertised at which meeting a
	The foregoing is a full, true regular meeting by the members of duly and legally held at a place program was present and the member AYES: NAYS: ABSENT:	are above do hereby certify as follows: and accurate copy of the resolution duly adopted at a of the Guam Consolidated Commission on Utilities, properly noticed and advertised at which meeting a

EXHIBIT A



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

CHANGE ORDER NO. 5

Project Title:	GROUNDWATER PRO	DUCTION M	ETER REPLACEME	NT		
Project No.:	W19-001-BND	IFB No. 0	5-ENG-2019			
Contractor:	GIANT CONSTRUCTION	ON CORPORA	ATION		NT	P Date: APRIL 29,2020
TO: GIANT CON	STRUCTION CORPORA	TION				
	make changes noted belo		iect contract. The ch	anges are accen	ted by:	
Tou are unected to i	make changes noted bei	JW III tile Subj	ect contract. The cr	lariges are accep	ieu by.	
			PREPARED BY	: <u></u>		_
Contractor Repres	entative (PRINT)			Ernesto Villa		Date
				Project Engine	er, GWA	
			REVIEWED BY	-		
			NEVIEWED D1	Barbara Cru	z, P.E.	Date
				Senior Engine	er Supervi	isor, GWA
0 - 1 - 1 - 1 - 1			RECOMMEND			
Contractor Represe	ntative (SIGNATURE)	Date	APPROVAL	: Brett E. Ra	lov D.E	Date
				Acting Chief E		
	252			7 totaling Officer E		
NATURE OF CHAN						
1. Scope of Change	es: all the 30 deep wells inclu	ided in projec	t scope have been s	uhstantially comp	leted The	hid scope of work
	wn and Caldwell was inte					
	. In anticipation of a fund					
Additive Bid No.	1 for 15 wells, and (3) Ad	ditive bid No.	. 2 for another 15 we	lls. The bid sche	dule has a	provison that states
	lowest responsive and re					
	ount fits within the availab		additional funding is o	obtained after the	contract is	executed, any and all
	s may be restored via cha nal intent of the project to		surement of volume	of aroundwater th	nat is produ	uced from the wells
	under-or-over reported to	•		-	•	
wells listed in Ad			,		5 p,-,-	
2. Net Change in C	Cost - \$741,744.65					
		daya frana tha	annual of the abov	an order		
	xtension - 215 calendar o					
THE CHANGES RE	SULT IN THE FOLLOW	ING ADJUST	MENT OF CONTRA	CT PRICE:		
Contract price prior	to this Change Order				\$	1,443,409.43
Net INCREASE fro	m this Change Order				\$	741,744.65
Revised contract pri	ce after this Change Ord	er			\$	2,185,154.08
THE CHANCES DE	SULT IN THE FOLLOW	INC AD ILIET	MENT OF CONTRA	CT TIME.		
				CI IIIVIE:	604	Onlanda Dana
	o this Change Order, with				624	Calendar Days
Net INCREASE fro	m this Change Order wi	th breakdown given	below (subject to approved ter	ms and conditions)"	215	CD after CO Approval
Revised contract tim	ne after this Change Orde	er			To be ad	justed after CO Approval
Revised Contract Ex	xpiration Date after this C	hange Order			To be adj	justed after CO Approval
CERTIFIED FUNDS	AVAII ARI F					
	18155					
	832-OS					
	2013 BOND PW 05-07 & M	MP-PW-MISC-0	12			
	W344.105321.420000		-	Taling M. Taitano	CPA CG	FM Date
	\$741,744.65			Chief Financial O		TWI Date
7 tillount.	Ψ1 + 1,1 + +.00			Offici i mariciai O	illoci	
APPROVED AS TO	FORM:			APPROVED:		
			-			
Theresa G. Rojas	Date			Miguel C. Bordall		Date
Legal Counsel, GW	A			General Manager	:, GWA	

EXHIBIT B



Sep. 22, 2021

Miguel C. Bordallo, P.E. General Manager Guam Waterworks Authority Gloria B. Nelson Public Service Building 688 Route 15 Mangilao, Guam 96913

Attention :

Barbara C. Cruz P.E. / Acting Chief Engineer

Project:

Groundwater Well Production Meter Replacement

GWA Project No. W19-001-BND

Subject: Change Order No. 04 - Additive Bid No. 01

Dear Ms. Cruz,

Hafa Adai! As a result of several communications between GWA and Giant Construction Corp. about the subject matter, we are pleased to submit our cost proposal to complete the 15 deep wells listed in Additive Bid No. 01 (See attached bid proposal).

Our bid price for Additive Bid No. 01 was \$687,960.00. On july 7, 2021, we advised GWA of the \$53,784.65 price escalation for piping materials from the bidding date on September 27, 2019 to July 7, 2021, thus increasing the Additive Bid No. 01 price to \$741,744.65.

At your request, we are confirming that Giant Construction Corp. will hold-on the escalated price of \$741,744.65 until November 30, 2021, and that any price increases from the date of this letter up to November 30, 2021 will be absorbed by Giant Construction Corp..

We plan to complete the 15 deep wells included in Additive Bid No. 01 within 210 days from approval date of this change order as shown in the attached work schedule. Please note that actual replacement of the above ground discharge piping will take only 15 weeks for us to complete due experience gained from the original contract.

Your approval of the change order is greatly appreciated. Should you have any question, please feel free to contact me at 489-2713.

Sincerely yours,

Vice Preisdent



E-mail: giantconst@gmail.com

July 7, 2021

Guam Waterworks Authority

Mr. Miguel Bordalio P.E. General Manager Gloria B. Nelson Public Service Building 688 Route 15 Mangila, Guam 96913

Atten: Mr. Ernie Villarin/Project Manager

Project: GWA Project No. W19-001-BND, Additive Bid No. 1

Subject: Material Price Increase for Groundwater Well Production Meter Replacement Project

Dear Mr Villarin!

Giant Construction Corp. kindly requests that GWA reflects the increased material price to the Additive Bid No. 1 for 15 EA deep wells.

The price of materials has changed since the original quotation due to Covid-19. The total cost of Additive Bid No. 1 of 15 deep wells would be \$326,748.38. For your reference, please see the following price changes

ITEM	Original	Additive 1	Difference
1. DI Spool & Fitting	\$51,227.32	\$82,745.12	\$31,517.80
Check valve & Butterfly valve etc.,	\$97,973.67	\$96,462.21	-\$1,511.46
HDG valve and Fitting	\$12,412.27	\$13,925.60	\$1,513.33
PVC pipe and Fitting	\$3,782.53	\$5,642.78	\$1,860.25
5. Pipe support	\$19,454.69	\$24,393.14	\$4,938.45
6. Freight	\$14,643.25	\$15,049.53	\$406.28
7. Water Flow meter15 ea	\$73,470.00	\$88,530.00	\$15,060.00
TOTAL of Well 15 ea	\$272,963.73	\$326,748.38	\$53,784.65

Your kind consideration will be greatly appreciated. Should you have any questions, please feel free to contact us.

Sincerely yours,

Inchul Chung/Vice-President

Sep. 22, 2021

Guam Waterworks Authority

Project: Groundwater Well Production Meter Replacement Subject: Sequence of construction and work schedule

		PRO.	ECT TITLE	- GROUNDW	ΙAΤ	ER I	WELL	PRO	DUC	TION	MET	ER	REF	PLAC	EMI	ENT	PR	OJE	CT													- 3
		9	SEQUEN	ICE OF C	10	VST	RU	CTI	ON	IAN	ND N	WC	DR	K S	СН	ED	U	LE														
ITEMS	TASKS	START	END	DURATION			-21	I		n-22				-22	I		/lar-		I	Ap	r-22			May	-22		Ju	ın-22	2	J	ul-22	2
1	Submitaals/shop Drawing	12.06.21	12.20.21	WORK DAYS	6	13	20 2	7 3	10	17	22 31	7	14	21	28	7	14	21 2	8	11	18	25	2	9 1	23	30	6 1	3 20	27	4 1	1 18	25
2	Permits	12.06.21	2.06.22	62	100							Н		H	+	+	+	+	+	+		Н	+	+	+	Н	+	+	+	+	+	+
3	Ordering of Materials	12.20.21	03.20.22	90	130			т				Н			1			+	+	+		Н	+	+	+	Н	+	+	Н		+	+
4	Meter Testing at GWA/MTF	03.21.22	04.03.21	13	H	+		+							1	+			+	+	\vdash	Н	+	+	+	Н	+	+	Н		+	+
5	Assemble material for Pressure Testing	03.21.22	04.17.22	28	H	+	\vdash	+	Н	+	+	+		H	+	+						Н	+	+	+	\vdash	+	+	Н		+	+
6	Pressure Test and Disinfection	04.04.22	5.01.22	27	H	+	\vdash	+	Н	+	+	+		H	+	+	+			a Di	100		+	+	+	+	+	+	Н		+	+
7	Field installation	10.11.21	12.27.21	77	H	†	\vdash	$^{+}$	Н	\forall	+	t		H	+	†	\pm	+	-	т			+	+	+	\dashv	+	+	Н	+	+	+
7-1	Well A-15	05.02.22	05.08.22	6	t	\top	\vdash	$^{+}$	П	\top		\vdash		H	+	†	+	+	+	+	\vdash	Н		+	+	\dashv	+	+	Н	\vdash	+	+
7-2	Well F-16	05.02.22	05.08.22	6	Г	Т	\vdash	$^{+}$	П	\top	\top	\vdash		Н	7	\forall	†	$^{+}$	$^{+}$	T		Н		+	1	\neg	+	+	Н	\vdash	+	+
7-3	Well D-19	05.09.22	05.15.22	7	Г	Т		$^{+}$		Т		Т		П	\forall	\forall	\forall	\top	$^{+}$	+		П				\dashv	$^{+}$	+	Н	\vdash	+	+
7-4	Well M-23	05.09.22	05.15.22	7	Г			†		П		Т		П	7	\top	\top	$^{+}$	$^{+}$	\top		Н			+	\dashv	+	+	Н	\top	$^{+}$	+
7-5	Well A-21	05.16.22	05.22.22	7	Г			†	П	T		Т	П	П	7	7	T		T	T		П		1		\neg	\top	+	Н	\vdash	+	+
7-6	Well EX-11	05.16.22	05.22.22	7	Г			T		П		Т		П	†	\top	\top	\top	+	T		П	\top			\neg	\top	T	Н	\vdash	+	+
7-7	Well A-08	05.23.22	05.29.22	7		П		T	П	П		Т		П	7	T	T	\top	1	T		П	\top			\neg	\top	\top	Н	\Box	1	$^{+}$
7-8	Well D-15	05.23.22	05.29.22	7	Г			Т				Г		П	\forall	\top	\top	\top	\top	Т		П	T	\top	100			\top	П	\vdash		\top
7-9	Well F-19	05.30.22	06.05.22	7	Г	П		T				Г		П	\forall	T	T			Т		П					\top	\top	П	\top		\vdash
7-10	Well F-20	05.30.22	06.05.22	7	Г			\top	П	\Box		Г		П	✝	T	T	\top	1	T		П	T	\top					П	\Box		\vdash
7-11	Well M-21	06.06.22	06.12.22	7	Г			\top				Г	П		7	\top		\top	\top	\top		П	\top	\top			15	\top	П	\Box		\top
7-12	Well D-28	06.06.22	06.12.22	7	Г										\forall	\top	\top		†	\top		П	\top	\top				\top	П	\Box		\vdash
7-13	Well D-07	06.13.22	06.19.22	7	Г			\top						П	\forall	\top	\top	\top	1	\top		П	\top						П	\Box	\top	\top
7-14	Well D-06	06.13.22	06.19.22	7	Г	П		T							1	1			T	T			\top						П			
7-15	Well D-02	06.20.22	06.23.22	4											\forall	\top		\top	1										П			
8	Fianl Clean up	06.24.22	07.04.22	10	Г							Г			T		\top	\top	T	T		П	T	\top		\Box						\top

Submitted By:

Chung, In Chail

EXHIBIT C

Addendum No. 1

	Groundwater \		duction Me No. W19-00	Margarata and San	nt
		ВА	SIC BID		
Item No.	Description	Unit	Est. Quantity	Unit Price	Bid Price
1	Mobilization and Demobilization (Maximum of 5% of the sum of Bid Price Items 2 thru 31)	LS	1	\$ 64.9at	\$ 64.901.00
2	Well Y-15	LS	1	\$ 43.800.00	\$ 43.800,00
3	Well Y-07	LS	1	\$ <u>444. 800</u> 00	\$ 44.800.00
4	Well Y-20	LS	1	\$ 43,800,00	\$ 43,800,00
5	Well Y-19	LS	1	\$ 43.800.00	\$ 43.800.00
6	Well AG-02A	LS	1	\$ 43.800.00	\$ 43,800.00
7	Well Y-09	LS	1	\$ 43.800.00	\$ 43.800.00
8	Well HGC-2	LS	1	\$ 43,800 vo	\$ 43,800.00
9	Well F-15	LS	1	\$ 44 Boo bo	\$ 44.800.00
10	Well H-01	LS	1	\$ 49,800,00	\$ 49.800.00
11	Well Y-14	LS	1	\$ 44.200 8	\$ 44,200,00
12	Well D-25	LS	1	\$ 39.500.00	\$ 39.500.00
13	Well D-27	LS	1	\$ 44.200.00	\$ 44,200.00
14	Well F-13	LS	1	\$ 444.200.00	\$ 44.200.W
15	Well Y-21A	LS	1	\$ <u>43.200,</u> w	\$
16	Well M-18	LS	1	\$ 44,200,00	\$ 44, 200,00
17	Well Y-22	LS	1	\$ 43.200,m	\$ 43.200.W
18	Well Y-23	LS	1	\$ 41.500,00	\$ 41.500.00

Section 00 41 00 Bid Form

19	Well Y-17	LS	1	\$ <u>44.500</u> .00	\$ 44,500.00
20	Well D-01	LS	1	\$ 49.800.00	\$ 49.800.00
21	Well EX-05	LS	1	\$ 40. BUD. 00	\$ 40,800,00
22	Well Y-18	LS	1	\$ 43,600,00	\$ 43.600.00
23	Well AG-01	LS	1	\$ <u>39.800,</u> 60	\$ 39. Bov. 00
24	Well Y-10	LS	1	\$ 40.500,00	\$ 40,500,00
25	Well D-26	LS	1	\$ 42.600.00	\$ 42,600.00
26	Well A-04	LS	1	\$ <u>49. 400,</u> 10	\$ 49.400.00
27	Well F-17	LS	1	\$ 39,100,60	\$ 39,500,00
28	Well F-18	LS	1	\$ 39,500.W	\$ 39.500.10
29	Well A-13	LS	1	\$ 48.810.00	\$ 48,800,00
30	Well Y-12	LS	1	\$ 39, (00,00	\$ 39.500.00
31	Well A-10	LS	1	\$ 49, 800.00	\$ 49.800.00
				TOTAL BASE BID	\$ 1.379,405,00

	Groundwater Well Production Meter Replacement GWA Project No. W19-001-BND											
		ADDITIV	E BID NO.	1								
Item No.	Description	Unit	Est. Quantity	Unit Price	Bid Price							
1	Mobilization and Demobilization (Maximum of 5% of the sum of Bid Price Items 2 thru 16)	LS	1	\$ 32.760.00	\$ 32.760.00							
2	Well A-15	LS	1	\$ 48,800,00	\$ 48,800.00							
3	Well F-16	LS	1	\$ 40,500.00	\$ 40,500.00							
4	Well D-19	LS	1	\$ 47.800.00	\$ 47.800.00							
5	Well M-23	LS	1	\$ 40.500.00	\$ 40,500,60							
6	Well A-21	LS	1	\$ 42.200.60	\$ 42,200,00							
7	Well EX-11	LS	1	\$ 42,200.00	\$ 42,200.60							
8	Well A-08	LS	1	\$ 47.800.00	\$ 47,800.00							
9	Well D-15	LS	1	\$ 42.200 W	\$ 42,700.00							
10	Well F-19	LS	1	\$ 42,200,00	\$ 42, 2N, W							
11	Well F-20	LS	1	\$ 42,200,00	\$ 42,200,00							
12	Well M-21	LS	1	\$ 40 720 W	\$ 40,500,00							
13	Well D-28	LS	1	\$ 42,200,00	\$ 42,200.00							
14	Well D-07	LS	1	\$ 40,5000	\$ 40,500,00							
15	Well D-06	LS	1	\$ 47.800,00	\$_41, POV, NO							
16	Well D-02	LS	1	\$ 49,800,00	\$ 47.800.00 \$ 687.960.00							
			TOTAL AD	DITIVE BID NO. 1	\$ 687.960.00							

Section 00 41 00 Bid Form Page 6

A CONTRACTOR OF THE PERSON NAMED IN	Groundwater W GWA I		duction Met	MINE VALUE	nt
		ADDITIV	/E BID NO.	2	
Item No.	Description	Unit	Est. Quantity	Unit Price	Bid Price
1	Mobilization and Demobilization (Maximum of 5% of the sum of Bid Price Items 2 thru 16)	LS	1	\$ <u>33,265</u> ,00	\$ 33,265.00
2	Well M-02	LS	1	\$ 49.300,00	\$ 49,300.00
3	Well D-24	LS	1	\$ 43,200,00	\$ 43.200.00
4	Well M-03	LS	1	\$ 48.800 w	\$ 48,800,00
5	Well M-05	LS	1	\$ 40.500,00	\$ 40,500,00
6	Well M-07	LS	1	\$ 40,500,00	\$ 46 100.00
7	Well F-07	LS	1	\$ 43.2000	\$ 43,200,00
8	Well F-06	LS	1	\$ 43,200,00	\$ 43,200,00
9	Well F-08	LS	1	\$ 43.200.00	\$ 43,200,00
10	Well F-11	LS	1	\$ 43,700,00	\$ 43,200.00
11	Well A-14	LS	1	\$ 40,500	\$ 40,500,00
12	Well F-04	LS	1	\$ 40.500.00	\$ 40,500,00
13	Well F-02	LS	1	\$ 40,800,00	\$ 40.800.00
14	Well M-01	LS	1	\$ 48,800,00	\$ 48,800.00
15	Well X-XX	LS	1	\$ 49. Boo. 10	\$ 49.800.00
16	Well X-XX	LS	1	\$ 49.800,00	\$ 49,800,00
			TOTAL AD	DDITIVE BID NO. 2	\$ 698,565.00

Section 00 41 00 Bid Form Page 7

Groundwater Well Production Meter Replaceme GWA Project No. W19-001-BND	nt
BID SUMMARY	
TOTAL BASIC BID AMOUNT	\$ 1,379,005.00
TOTAL ADDITIVE BID NO. 1	\$ 687,960.00
TOTAL ADDITIVE BID NO. 2	\$ 698,585.00
GRAND TOTAL (BASIC BID + ADDITIVE BID 1 + ADDITIVE BID 2) Two Millian Seven Hundred Sixty Films Thousand Lyne Hundred Thirty Only (Price in Words)	\$ 2,765,930.00

(If the Total Base Bid is within the amount of funds available, then the award will be made to the responsive and responsible bidder submitting the lowest Base Bid Price. In the event the lowest responsive and responsible Bid exceeds the available budget, GWA may reject individual Bid Items until the Bid Amount fits within the available budget. If additional funding is obtained after the contract is executed, any or all deleted Bid items may be restored via Change Order.)

EXHIBIT D



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

RESOLUTION NO. 04-FY2020

RELATIVE TO APPROVAL OF GROUNDWATER PRODUCTION METER REPLACEMENT PROJECT GWA PROJECT NO. W19-001-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 operates approximately 100 groundwater production wells that range in production capacity from 50 to 755 gallons per minute and given GWA's efforts to better account for water system losses, the measured volume of the ground water production wells will play an important role in the water audit; and

WHEREAS, GWA is working to improve measurement the volume of groundwater that is produced from the wells through properly functioning flow meters to ensure under-or-over reported total production volumes are mitigated; and

WHEREAS, these deficiencies affect non-revenue water calculations, making it difficult to track distribution system losses; and

WHEREAS, replacement of production meters will require unobstructed, straight run, and full pipe for the length of three or more pipe diameters upstream of the meter and two or more diameters downstream to be accurate; and

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WHEREAS, the condition of well head discharge piping at many well sites are also in poor condition due to excessive corrosion; and

WHEREAS, well head discharge piping needs to be standardized to reduce the number of meters, valves, fittings, and accessories to be stored resulting to cost savings; and

WHEREAS, in June 2017, GWA retained Brown and Caldwell (BC) to field test 60 existing wellhead flowmeters and to develop bid-ready plans and specifications to replace faulty flowmeters and to standardize well head discharge piping; and

WHEREAS, results of Brown and Caldwell (BC) meter tests using clamp on meter showed gpm values were generally less than the existing meter's gpm values, with some reading by 50 gpm or more; and

WHEREAS, GWA has advertised on August 2019 the Invitation For Bids (IFB-05-ENG-2019) for Groundwater Production Meter Replacement Project wherein GWA is soliciting bid proposals from experienced and responsive bidders for construction of the project; and

WHEREAS, this phase of work consists of furnishing all labor, tools, equipment and materials including coordination with GWA Water Production Operations and Engineering to construct all components described in the final design drawings and technical specifications which include but are not limited to replacement of water meter and above ground well discharge piping for 60 critical wells; and

WHEREAS, the bid schedule was divided into Basic Bid, Additive Bid No.1 and Additive Bid No.2 due availability of funds; and

WHEREAS, the bid schedule states if the total Basic Bid is within the amount of funds available, then award will be made to the responsive and responsible bidder submitting the lowest Basic Bid Price and in the event the lowest responsive and responsible Bid exceeds the available budget, GWA may reject individual Bid items until the Bid Amount fits within the

 available budget, and if additional funding is obtained after the contract is executed, any or all deleted Bid items may be restored via Change Order; and

WHEREAS, IFB packages were picked up by seven (7) interested parties, from which GWA received bid proposal from one (1) of the seven (7) (SEE EXHIBIT A – Abstract of Bids) before the bid proposals deadline of September 27, 2019; and

WHEREAS, GWA Engineering analyzed the bid proposal received and determined that the bid package submitted by Giant Construction Corporation, the sole bidder, was responsive and responsible, and met all the bid requirements set forth by GWA (SEE EXHIBIT B – Bid Evaluation); and

WHEREAS, GWA Management finds Giant Construction Corporation Basic Bid Price acceptable and now seeks CCU approval of the bid proposal amount of One Million Three Hundred Seventy-Nine Thousand Four Hundred Five Dollars (\$1,379,405.00) attached hereto (SEE EXHIBIT C – Bid Proposal); and

WHEREAS, GWA Management further seeks CCU approval of a ten percent (10%) contingency to the Basic Bid proposal amount or One Hundred Thirty-Seven Thousand Nine Hundred Forty Dollars and Fifty Cents (\$137,940.50) to bring the total authorized funding amount to One Million Five Hundred Seventeen Thousand Three Hundred Forty-Five Dollars and Fifty Cents (\$1,517,345.50); and

WHEREAS, GWA Management further seeks CCU approval to petition the Public Utilities Commission approval of the contract 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 be from the CIP Line Item PW 05-07 Meter Replacement Program, IFCIP or any other CIP line item applicable to the project intent; and

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

- 1. The recitals set forth above hereby constitute the findings of the CCU.
- The CCU finds that the terms of the conditions set by GWA relative to commencement of work activities are fair and reasonable and serve as a measure of Quality Assurance/Quality Control (QA/QC).
- The CCU hereby authorizes the management of GWA to accept the bid proposal from "Giant Construction Corporation." attached hereto as Exhibit C and which is incorporated into this Resolution in its entirety.
- 4. The CCU hereby further authorizes the management of GWA to enter into a contract with "Giant Construction Corporation" in the amount One Million Three Hundred Seventy-Nine Thousand Four Hundred Five Dollars (\$1,379,405.00).
- 5. The CCU hereby further approves the funding total of One Million Three Hundred Seventy-Nine Thousand Four Hundred Five Dollars (\$1,379,405.00) plus a ten percent (10%) contingency of One Hundred Thirty-Seven Thousand Nine Hundred Forty Dollars and Fifty Cents (\$137,940.50) for a total funding amount of One Million Five Hundred Seventeen Thousand Three Hundred Forty-Five Dollars and Fifty Cents (\$1,517,345.50).
- 6. The CCU hereby further approves funding for this project to be from the CIP Line Item PW 05-07 "Meter Replacement Program", IFCIP or any other CIP line item applicable to the project intent

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

DULY AND REGULARLY ADOPTED, this 29th day of October 2019.

Certified by: Attested by:

JOSEPH T. DUENAS MICHAEL T. LIMTIACO

Chairperson Secretary

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SECRETARY'S CERTIFICATE

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

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



EXHIBIT E CO#1, CO#2, CO#3, & CO#4 (DRAFT)



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

CHANGE ORDER NO. **Project Title: GROUNDWATER PRODUCTION METER REPLACEMENT** Project No.: W19-001-BND IFB No. 05-ENG-2019 Contractor: GIANT CONSTRUCTION CORPORATION NTP Date: APRIL 29,2020 GIANT CONSTRUCTION CORPORATION You are directed to make changes noted below in the subject contract. The changes are accepted by: PREPARED BY: to Villarin Engineer, GWA REVIEWED BY: Barbara Cruz, P.E. Date Senior Engineer Supervisor, GWA RECOMMEND Contractor Representative (SIGNATURE APPROVAL Barbara Cruz, P.E. Date Acting Chief Engineer, GWA **NATURE OF CHANGES:** Changed water meter Output/Input option from 2x Pulse/Switch Output, 1x Status Input, to GSM, Antenna Remote + cable 2x Pulse/Switch Output, 1x Status input. This would allow wireless communication with the meter in the absence of SCADA. (Additive -2. In coordination with Operations, some fittings were deleted without affecting the system's function. (Deductive - \$14,365.83) NET CHANGE IN COST (Additive - \$21,802.27). THE CHANGES RESULT IN THE FOLLOWING ADJUSTMENT OF CONTRACT PRICE: Contract price prior to this Change Order 1.379.405.00 21,802.27 Net INCREASE from this Change Order Revised contract price after this Change Order 1,401,207.27 THE CHANGES RESULT IN THE FOLLOWING ADJUSTMENT OF CONTRACT TIME: Contract time prior to this Change Order, with breakdown given below. 365 Calendar Days Net INCREASE from this Change Order with breakdown given below (subject to approved terms and conditions) 0 Calendar Days Revised contract time after this Change Order 365 Calendar Days Revised Contract Expiration Date after this Change Order Thursday, April 29, 2021 CERTIFIED FUNDS AVAILABLE: Vendor No.: 18155 Contract No.: 832-OS Funding Source: 2016 BOND PW 05-07 & SDC 9/21/2020 W344.105321.420000 G.L. NO.: 1/WCTaling M. Taitano, CPA, CGFM Date Amount: \$21,802.27 Chief Financial Officer

APPROVED:

Miguel C. Bordallo, P.E

General Manager, GWA

Date



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

CHANGE ORDER NO. 2

Drainet Title:	CROUNDWATER RR		TED DEDLACEME	NIT .	
Project Title: Project No.:	GROUNDWATER PRO W19-001-BND		ENG-2019	IN I	
Contractor:	GIANT CONSTRUCTI			N	TP Date: APRIL 29,2020
					71 THE 23,2020
	DNSTRUCTION CORPOR		-4 4 - - Th t-		
You are directed	to make changes noted be	low in the subject	ct contract. The ch	anges are accepted by:	
Contractor Rep	esentative (PRINT)		PREPARED BY :	Erzesto Villarin Project Engineer, GWA	04/22/21 Date
	12		REVIEWED BY:	Barbara Cruz, P.E.	04 22 202 Date
Dlenes	ust A	282112	RECOMMEND	Senior Engineer Super	visor, GWA
Contractor Repre	esentative (SIGNATURE)	Date	APPROVAL :	Mauryn McDonald, P. B Acting Chief Engineer,	
NATURE OF CH	ANGES:				
	contract time due to the foll	owing:			
Septembe arrival of v (165 days	negotiated on September er 21, 2020. Contractor wa water meters on February 4) after arrival of complete r	s able to asseml 4, 2021. Per Con naterials.	ole the discharge p ntractor's original so	iping for pressure testing a chedule, project will be con	and disinfection after the
b. This time	extension will extend the co	ontract time from	April 29, 2021 to J	uly 25, 2021.	:
2. NET CHANG	E IN COST - There is no c	ost adjustment ir	nvolved in this char	ge order.	
THE CHANGES	RESULT IN THE FOLLOV	VING ADJUSTM	ENT OF CONTRA	CT PRICE:	
Contract price pri	ior to this Change Order			\$	1,401,207.27
	from this Change Order			\$	-
Revised contract	price after this Change Or	der		\$	1,401,207.27
THE CHANGES	RESULT IN THE FOLLOV	VING ADJUSTM	ENT OF CONTRA	CT TIME:	
	or to this Change Order, wi			365	Calendar Days
	from this Change Order	_		ms and conditions); 87 165	Calendar Days
	time after this Change Ord			452530	Calendar Days
	t Expiration Date after this			Mo	nday, July 25, 2021
CERTIFIED FUN	IDS AVAILABLE:				
Vendor No.:					
Contract No.:	832-OS				
Funding Source:	2016 BOND PW 05-07	& SDC		N/A	
G.L. NO.:	W344.105321.420000		7	Taling M. Taitano, CPA, C	GFM Date
Amount:	\$0.00			Chief Financial Officer	

APPROVED:

Miguel C. Bordallo, P.E.

General Manager, GWA

Date



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

CHANGE ORDER NO. 3

Project Title:	GROUNDWATER PRODUCTI	ON METER REPLACE	MENT		
Project No.:	W19-001-BND IFB N	o. 05-ENG-2019			
Contractor:	GIANT CONSTRUCTION COR	RPORATION		NTI	Date: APRIL 29,2020
TO: GIANT CO	NSTRUCTION CORPORATION				
You are directed t	o make changes noted below in th	e subject contract. Th	e changes are acc	epted by:	
Contractor Repre	esentative (PRINT)	•21 PREPARED I	Ernesto	Gille in gineer, GWA	06/15/2) Date
Contractor Repres	sentative (SIGNATURE) Da	REVIEWED B RECOMMEN APPROVAL	Barbara C Senior Eng D Mauryn M	ruz, P.E. ineer Supervi	6/16/202 Date
NATURE OF CHA	ANGES:				
above grou concrete the b. The last fitt be change	Im length required for standardizat und discharge piping by excavating nrust block and backfill. Additional ting (45 degree bend) before enter d to flange type which is the stand pipe support for the bypass line fo	g portion of the exit pipe cost = \$26,662.16 incl ing the ground for dee ard for above-ground f	e, replace existing uding Item b below well AG-02 is of itting connections.	diagonal pipe w.	and fittings, install
2. Net Change in	Cost - \$42,202.16.				
3. Contract Time	Extension - 93 calendar days.				
THE CHANGES F	RESULT IN THE FOLLOWING AD	JUSTMENT OF CON	RACT PRICE:		
	or to this Change Order			\$	1,401,207.27
	from this Change Order ··· ···			\$	42,202.16
Revised contract	price after this Change Order			\$	1,443,409.43
THE CHANGES F	RESULT IN THE FOLLOWING AD	JUSTMENT OF CON	RACT TIME:		
Contract time prio	r to this Change Order, with break	down given below.		452	Calendar Days
Net INCREASE	from this Change Order with breakdo	wn given below (subject to approv	ed terms and conditions)"	93	Calendar Days
Revised contract	time after this Change Order			545	Calendar Days
Revised Contract	Expiration Date after this Change	Order		Wednes	day, October 27, 2021
Vendor No.: Contract No.: Funding Source: G.L. NO.: Amount:	18155 832-OS 2013 BOND PW 05-07 W344.105321.420000 \$42,202.16	(Taling M. Taita Chief Financia	ano, CPA, CG	7/22/2021 FM Date
	APPROV	/ED: - /			- ,

Miguel C. Bordallo, P.E. General Manager, GWA

GUAM WATERWORKS AUTHORITY

DRAFT

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

CHANGE ORDER NO. 4

Project Title:	GROUNDWATER PRO	ODUCTION M	ETER REPLACEME	NT		
Project No.:	W19-001-BND	IFB No. 0	5-ENG-2019			
Contractor:	GIANT CONSTRUCTION	ON CORPORA	ATION		NTP	Date: APRIL 29,2020
TO: GIANT CONS	STRUCTION CORPORA	ATION				
	make changes noted be	-	ect contract. The ch	nanges are accept	red by:	
rod aro arrodod to r	nako onangoo notoa bo	1011 111 1110 0010)	oor continuot. The of	iangee are accept	ou by.	
			PREPARED BY			
Contractor Represe	entative (PRINT)			Ernesto Villa		Date
				Project Engine	ei, GWA	
			REVIEWED BY			
				Barbara Cruz		Date
			RECOMMEND	Senior Engine	er Superviso	or, GWA
Contractor Represer	ntative (SIGNATURE)	Date	APPROVAL	:		
•	,			Brett E. Rai	ley, P.E.	Date
				Acting Chief E	ngineer, GW	/A
NATURE OF CHAN	GES:					
Scope of Change						
7	, there were 3 deep wel		. ,	•		
	s hampered by operation					
	Contractor was allowed ep wells AG-01 and A-0					
	greed to replace deep w					
02 and F-04	was based on having sa	me size of we	II head and similar le	ength of the above	e-ground disc	charge piping.
b. Engineering i	s working on a change	order that will i	nclude the 15 deep	wells listed in Add	litive Bid No.	1 to the scope of
	This change order will r	•				•
	e contract completion da	ate to January	14, 2022, to allow ti	mely execution of	the proposed	d change order
within the cor	•					
2. Net Change in C	ost - \$0.00					
Contract Time Ex	xtension - 79 calendar d	ays.				
THE CHANGES RE	SULT IN THE FOLLOW	ING ADJUST	MENT OF CONTRA	CT PRICE:		
Contract price prior t	to this Change Order				\$	1,443,409.43
	m this Change Order				\$	· · · · · · · · · · · · · · · · · · ·
	ce after this Change Ord				\$	1,443,409.43
Revised Contract phi	se after this Change Of				Ψ	1,443,409.43
THE CHANGES RE	SULT IN THE FOLLOW	ING ADJUST	MENT OF CONTRA	CT TIME:		
Contract time prior to	this Change Order, wit	th breakdown (given below		545 C	Calendar Days
Net INCREASE fro	m this Change Order v	vith breakdown given	below (subject to approved te	rms and conditions)"	79 C	Calendar Days
Revised contract tim	e after this Change Ord	er			624 C	Calendar Days
Revised Contract Ex	xpiration Date after this (Change Order			Friday.	January 14, 2022
						, ,
CERTIFIED FUNDS						
	18155					
	832-OS					
	2013 BOND PW 05-07					
	W344.105321.420000			Taling M. Taitano		M Date
Amount: S	\$0.00			Chief Financial Of	ificer	
APPROVED AS TO	FORM:			APPROVED:		
Theresa G. Rojas	Date		•	Miguel C. Bordallo	o, P.E.	Date
Legal Counsel, GWA	A			General Manager	, GWA	



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

Issues for Decision

Resolution No. 03-FY2022

Relative to Approval of Change Order No. 2 for the Tai Road/S-13 and Canada-Toto Loop/Blas Street Waterline Replacement Project

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

The objective of this additional work is to resolve flow and pressure issues experienced by residents on Taison Road, who have service connections at Canada-Toto Loop. The existing revenue meters for residence of Taison Road are all located at the Canada-Toto Loop/Taison Road intersection leading to long runs of 1 to 1¼-inch galvanized pipe to the houses further down Taison Road. Residents located along Taison Road are experiencing water flow and pressure issues that will not be resolved by the original contract scope. The scope of work for Change Order No. 2 is to replace the existing 1 to 1¼-inch galvanized pipes along Taison Road with approximately 1,052 LF of new 6-inch diameter PVC pipe. The work includes the relocation of existing meters from the entrance of the road to the front of each house, installation of fire hydrants for fire protection, disconnection from the existing 6-inch asbestos pipe and connection of the new 6-inch diameter PVC pipe to the existing 12-inch water main along Canada-Toto Loop. This change order is necessary to improve the water distribution system in this area, correct problematic service laterals and resolve the recurring water flow and pressure issues affecting residents on Taison Road.

Where is the location?

The Taison Road is a branch road connected to Canada-Toto Loop in Mongmong-Toto-Maite village.

How much will it cost?

The final cost estimate for the change order is Five Hundred Fifty-Eight Thousand One Hundred Thirty-Five Dollars (\$558,135.00).

When will it be completed?

The contractor is expected to complete the Change Order No. 2 scope of work within 110 calendar days.

What is the funding source?

2020 Bond under the MP-PW-Pipe-12 Rehabilitation and Replacement Program funds.

The RFP/BID responses (if applicable):

Not Applicable

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

GWA RESOLUTION NO. 03-FY2022

RELATIVE TO CHANGE ORDER NO. 2 CONTRACT APPROVAL FOR THE TAI ROAD/S-13 AND CANADA-TOTO LOOP/BLAS STREET WATERLINE REPLACEMENT PROJECT; GWA PROJECT NO. M19-001-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 intends to continue the waterline replacement program as part of GWA's efforts to reduce non-revenue water and make improvements to the system where service delivery has been below standard; and

WHEREAS, on April 27, 2021, the CCU approved via Resolution 19-FY2021 for GWA management to enter into contract with Giant Construction Corporation to construct the Tai Road/S-13 and Canada-Toto Loop/Blas Street Waterline Replacement project to upgrade and replace existing old and leaking waterlines of various diameters, lengths, and locations to reduce water loss in the water distribution system; and

WHEREAS, the above noted resolution approved the funding total of One Million Nine Hundred Forty-Five Thousand Seven Hundred Twenty Dollars (\$1,945,720.00), along with a ten percent (10%) contingency of One Hundred Ninety-Four Thousand Five Hundred Seventy-Two Dollars (\$194,572.00) to bring the total authorized funding amount to Two Million One Hundred Forty Thousand Two Hundred Ninety-Two Dollars (\$2,140,292.00); and

WHEREAS, one of the line replacement locations included as part of Giant
Construction's scope of work is the arterial Canada-Toto Loop Road which calls for branch
waterlines, service connections and other water appurtenances to be disconnected from the
existing and breakage-prone 6-inch diameter asbestos cement pipe (ACP) and reconnected to
an existing 12-inch diameter polyvinyl chloride (PVC) watermain; and

WHEREAS, Taison Road, a branch road connected to the Canada-Toto Loop having existing revenue meters all located at the intersection of Canada-Toto/Taison Road connected to the existing 6-inch ACP line and leading to long runs of 1 to 1 1/4-inch galvanized pipe to the houses further down the road; and

WHEREAS, this configuration of service lateral connections for residents along Taison Road results in water flow and pressure issues which will not be improved by the original scope of construction for the waterline replacement at Canada-Toto Loop; and

WHEREAS, GWA management seeks to change order the existing contract scope with Giant Construction Corporation to replace the existing 1 to 1 ¹/₄-inch galvanized pipe along Taison Road with new 6-inch diameter PVC pipes, install fire hydrants for fire protection, and relocate existing service water meters from the entrance of Taison Road to the front of each house; and

WHEREAS, Dueñas, Camacho & Associates, Inc. (DCA), the Construction Management (CM) consultant firm overseeing the construction of the project negotiated with Giant Construction Corporation to replace the existing 1 to 1 1/4-inch galvanized waterline to 6inch PVC pipe (See Exhibit A) along Taison Road; and

WHEREAS, GWA Management seeks CCU approval of the Change Order No. 2 with Giant Construction Corporation to replace the existing 1 to 1 1/4-inch diameter waterline along Taison Road with 6-inch diameter PVC pipes complete in place at a cost of Five Hundred Fifty-Eight Thousand One Hundred Thirty-Five Dollars (\$558,135.00); and

WHEREAS, GWA Management previously approved the Change Order No. 1 for Giant Construction Corporation to obtain the services of an archaeological firm to prepare the archaeological research design for Tai Road and Blas Street/Canada-Toto Loop intersection as required by the Department of Parks and Recreation – State Historic Preservation Office ((DPR-SHPO) at a cost of Sixteen Thousand Three Hundred Eighteen Dollars (\$16,318.00) which brought the total construction contract value to One Million Nine Hundred Sixty Two Thousand Thirty Eight Dollars (\$1,962,038.00) (See Exhibit B); and

WHEREAS, the adjusted total authorized contract value of One Million Nine Hundred Sixty-Two Thousand Thirty-Eight Dollars (\$1,962,038.00) plus the proposed Change Order No. 2 amount of Five Hundred Fifty-Eight Thousand One Hundred Thirty-Five Dollars (\$558,135.00) will bring the total authorized contract amount to Two Million Five Hundred Twenty Thousand One Hundred Seventy-Three Dollars (\$2,520,173.00); and

WHEREAS, funding for the proposed Change Order No. 2 will utilize 2020 Bond under the MP-PW-Pipe-12 Rehabilitation and Replacement Program funds; and

WHEREAS, GWA Management further seeks CCU approval to petition the Public Utilities Commission's approval of the Change Order No. 2 as may be required under the Contract Review Protocol requirements for GWA projects.

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

- 1. The recitals set forth above hereby constitute the findings of the CCU.
- 2. The CCU finds that the terms of the conditions set by GWA relative to commencement of subsequent 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 Change Order proposal from "Giant Construction Corp." attached hereto as Exhibit A, and which is incorporated into this Resolution in its entirety.

- 4. The CCU hereby further authorizes GWA management to execute the Change Order No. 2 with "Giant Construction Corp.", in the amount of Five Hundred Fifty-Eight Thousand One Hundred Thirty-Five Dollars (\$558,135.00).
- 5. The CCU hereby further approves the increase contract value of One Million Nine Hundred Sixty-Two Thousand Thirty-Eight Dollars (\$1,962,038.00) plus the Change Order No. 2 amount of Five Hundred Fifty-Eight Thousand One Hundred Thirty-Five Dollars (\$558,135.00) to bring the total authorized contract amount to Two Million Five Hundred Twenty Thousand One Hundred Seventy-Three Dollars (\$2,520,173.00);
- 6. The CCU hereby approves the funding for the Change Order No. 2 will be from the 2020 Bond proceeds under the MP-PW-Pipe-12 "Rehabilitation and Replacement Program".
- 7. The CCU hereby further approves GWA management to petition the PUC's approval of the Change Order No. 2 as may be required under the Contract Review Protocol.

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

DULY AND REGULARLY ADOPTED, this 26th day of October 2021.

Certified by:	Attested by:
JOSEPH T. DUENAS	MICHAEL T. LIMTIACO
Chairperson	Secretary

	GWA WORK Session - October 19, 2021 - ISSUES FOR DECISION
1	SECRETARY'S CERTIFICATE
2	I, Michael T. Limtiaco, Board Secretary of the Consolidated Commission on Utilities as evidenced by my signature above do hereby certify as follows:
4 5 6	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:
7	AYES:
9	NAYS:
10 11	ABSENT:
12	ABSTAIN:
13	
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15 16	
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20 21	
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EXHIBIT - A

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

August 16, 2021

Miguel C. Bordallo, P.E.

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

Attn: Gloria Bensan, Project Manager, Guam Waterworks Authority

Via: Email: gpbensan@guamwaterworks.org

Ref: Tai Road/S-13 and Canada-Toto Loop/Blas Street Waterline Replacement

Project No. M19-001-BND

Subject: Change Order Recommendation for New 6-inches Waterline at Taison Road

Sir / Ma'am,

This letter is in referenced to the review and analysis performed by Duenas Camacho and Associates, Inc. to the latest cost proposal submitted by GIANT Construction Corporation dated August 13, 2021. The proposal is in response to Guam Waterworks Authority's additional requirement under Project No M19-001-BND to install new 6-inches waterline along Taison Road (see Attachment) and replace the existing 2-inches waterline. Comparison and analysis was done in referenced to Additive Bid #01 wherein the same scope of work at S-13 Road was submitted and being part of the existing contract. Pricing on a couple of line items such as mobilization and installation of new 6-inches PVC line that shows significant unit cost increase was discussed with the Contractor. Reasonable explanation that clarifies the Resident Project Representatives' (RPR) concern leads to the acceptance of the said change proposal which also includes the cost to cover the design aspect.

Recommendations:

DCA, Inc. recommends that Change Order #02 be awarded to the Contractor with the total lump sum amount of *Five Hundred Fifty Eight Thousand One Hundred Thirty Five and 00/100 Dollars* (\$558,135.00) that includes Tax, Bonds & Insurance, and Contractor's Fees. The total project cost is summarized below:

\$16,318.00 \$1,962,038.00
\$1,962,038.00
\$558,135.00
\$2,520,173.00
_

August 24, 2021

Time Extension Request:

Contractor did not include any time extension request related to this additive Change Order. Hence, project duration to substantial completion remains at 365 Calendar Days from issued date of notice to proceed. Should the Contractor later request for such time extension with supporting justification, evaluation will be done and separate recommendation will be submitted to the Owner for further review and acceptance.

Regards,

Kenneth M. Rekdahl, PE Dueñas, Camacho and Associates Resident Project Representative

Cc: Rodolfo Gasal, DCA Editha B. Thompson, DCA



GIANT CONSTRUCTION CORP.

P.O. Box 9578 Tamuning, Guam 96931 Tel.: (671) 649-6472 • Fax.: (671) 646-3693

E-mail: giantconst@gmail.com

Aug. 13, 2021

Guam Waterworks Authority

Mr. Miguel Bordallio General manager P.O. Box 3010 Hagatna, Guam 96913

Attention: Mr. Mauryn McDonald P.E. / Acting Chief Engineer

Project: Tai Road/S-13 and Canada-Toto Loop/Blas Street Water line Replacement

GWA Project No. M19-001-BND

Subject: Proposal of Taison Road 6 inch PVC water line and serice lateral and connection work

GUAM WATERWORKS AUTHORITY TAI ROAD/5-13 AND CANADA/TOTO LOOP/BLAS STREET WATERLINE REPLACEMENT GWA Project No. M19-001-BND

UNIT PRICE of Additional work in Taison Road

Additional Work Order Taison Road breakdown

Work consists of replacing an existing linch and 2 inch water line to a new 6 inch PVC water line along the Taison Road and reconnecting all service connections,. New 6 inch water line connect to existing 12" main line on the Canada-Toto Loops.

Item No	Description	Unit	Unit Price	Qty	Bid Amount
1	Mobilization and Demobilization (For additional costs associated with bonding, insurance and permits for this additive bid)	Lump Sum	\$ 78,000.00	1	\$ 78,000.00
2	Erosion Control Measures (Includes silt fence and all other required temporary best management practices necessary to control sediment runoff)	Lump Sum	\$ 8,400.00	1	\$ 8,400.00
3	6" PVC Pressure Pipe Class 235 psi (DR 18) (Includes excavation, bedding, pipe, backfill and any necessary asphalt or grass replacement)	Lin. Ft	\$ 175.00	1,052	\$ 184,100.00
4	1" Service Line	Lin. Ft	\$ 105.00	325	\$ 34,125.00
5	Reconnection of 3/4" Single Meter installation on 6-inch Water Main (Includes Service Saddle and all Fittings necessary to make the	EA	\$ 2,900.00	24	\$ 69,600.00
6	Fire Hydrant Assembly (Includes 5 LF of 6 inch PVC lateral service line and all pipe, bends and thrust blocks nessary to complete the installation)	EA	\$ 7,000.00	2	\$ 14,000.00
7	2" Permanent Blowoff Assembly in Valut (Complete in Place)	Lump	\$ 5,200.00	1	\$ 5,200.00
8	Combination Air Release Valve in valve box	Lump Sum	\$ 5,500.00	1	\$ 5,500.00

-	Additional work Proposal of Taison Road(TOT		L thro	ugh 17, inclus	ive)	\$ 558,135.00
17	Design work include survey work	Lump	\$	20,000.00	1	\$ 20,000.00
16	As-Builts drawings	Lump Sum	\$	5,000.00	1	\$ 5,000.00
15	Existing service water meter relocate near house	EA	\$	1,400.00	9	\$ 12,600.00
14	Disconnect the existing water line form existing 12" water line on Canada-Toto Loop road	LS	\$	4,000.00	1	\$ 4,000.0
13	2" HDPE pipe	LF	\$	98.00	670	\$ 65,660.0
12	12" x 6" Connection Tapping work (Wet Tapping)	LS	\$	13,500.00	1	\$ 13,500.00
11	Traffic Control including traffic control work, flagman, all traffic control devices, placement and removal fo devices and detours, cleanup, restoration, and incidentals.	Lump Sum	\$	20,000.00	1	\$ 20,000.00
10	Fittings and thrust block	EA	\$	8,500.00	0.7	\$ 5,950.00
9	Pressure Testing and Disinfection of New Waterline (Taison Road)	Lump Sum	\$	12,500.00	1	\$ 12,500.00

Chung, In Chul

Giant Construction Corp.



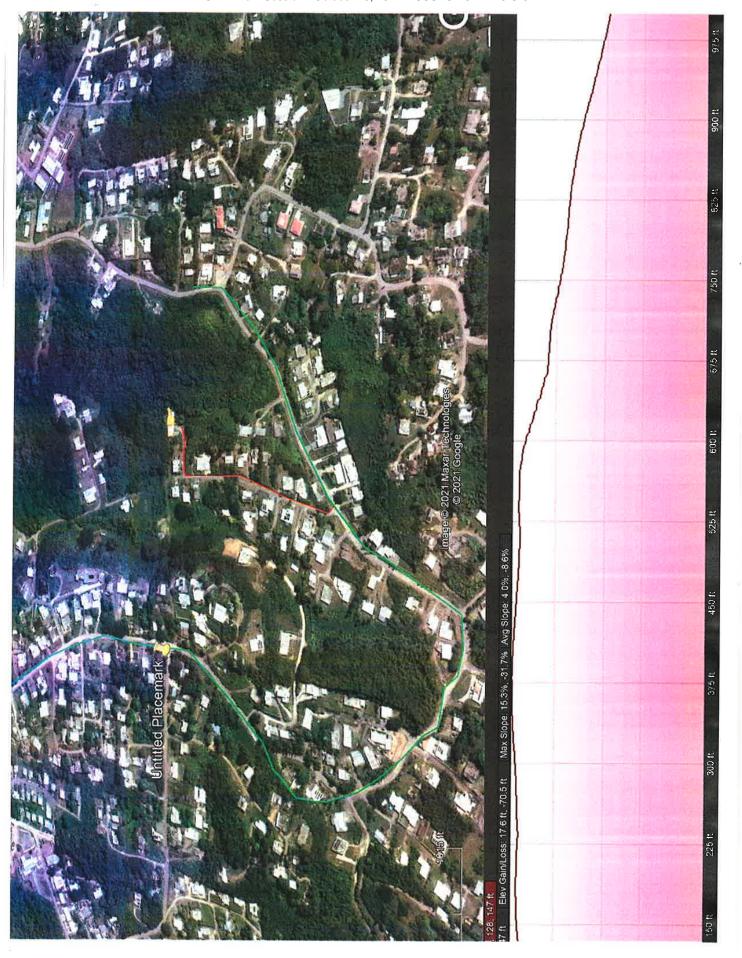


EXHIBIT B



2nd Floor Gib ia B. Nelson Public Service Bldg. 688 Route 15. Mang lad Giram 95013

CHANGE ORDER NO. 01

	M19-001-BND TAI ROAD/S-13 AND CAN	CANADA-TOTO LOOP/BLAS STREET WATERLINE REPLACEMENT		
Contractor: Giant Construction Corporation		Original Contract Approved: May 1	<u>2, 2021</u>	
TO: Glant C	onstruction Corporation			
You are directed to ma	ke changes noted below in the subject contrac	t. The changes are accepted by:		
Giant Construction Cor	peration:	Prepared by:		
Mount	2/4	Gloria P Bensan Digitally signed by Gloria P Bensan Date: 2021.08.16 08:49:48 + 1000		
IN-CHUL CHUNG,	Vice President	GLORIA P. BENSAN		
(Name an		Project Manager Date		
//	1	,		
W				
Duenas, Camacho		Recommend Approval:		
ouenas, camacno	a Assoc CM	Digitally signed by 8:		
Fund Source: Bond 202	0 MP-PW-Pipe-12	Date: 2021.08.16 14:1 BARBARA C. CRUZ, P.E.	2:41 +10'00'	
Contract No.:	3008 OS	Acting Chief Engineer Date		
Vendor No.:	22557	Training annot trigineer butter		
A	A4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
Amount:	\$16,318.00			
Amount:				
	To obtain services of Archaeological consu	Itant to prepare background research for Blas St.		
	To obtain services of Archaeological consu and Tai Road, preparation of draft and fina	I monitoring plans, analysis of recovered artifacts,		
	To obtain services of Archaeological consu and Tai Road, preparation of draft and fina preparation of draft and final reports, and	Il monitoring plans, analysis of recovered artifacts, curation of recovered archaeological materials as		
	To obtain services of Archaeological consu and Tai Road, preparation of draft and fina	Il monitoring plans, analysis of recovered artifacts, curation of recovered archaeological materials as		
Nature of Changes:	To obtain services of Archaeological consuand Tai Road, preparation of draft and final preparation of draft and final reports, and required by the Department of Parks and I	al monitoring plans, analysis of recovered artifacts, curation of recovered archaeological materials as Recreation (DPR).		
Nature of Changes: Enclosures:	To obtain services of Archaeological consu and Tai Road, preparation of draft and fina preparation of draft and final reports, and required by the Department of Parks and I Copy of original contract, archaeological fe	al monitoring plans, analysis of recovered artifacts, curation of recovered archaeological materials as Recreation (DPR). The proposal and scope of work.		
Nature of Changes: Enclosures: The changes result in th	To obtain services of Archaeological consu and Tai Road, preparation of draft and fina preparation of draft and final reports, and required by the Department of Parks and I Copy of original contract, archaeological fe re following adjustment of contract price and	al monitoring plans, analysis of recovered artifacts, curation of recovered archaeological materials as Recreation (DPR). The proposal and scope of work. The proposal and scope of work.		
Nature of Changes: Enclosures: The changes result in the Contract amount prior to	To obtain services of Archaeological consu and Tai Road, preparation of draft and fina preparation of draft and final reports, and required by the Department of Parks and I Copy of original contract, archaeological fe to following adjustment of contract price and o this Change Order	al monitoring plans, analysis of recovered artifacts, curation of recovered archaeological materials as Recreation (DPR). The proposal and scope of work. The time: \$1.94	5,720.00	
Nature of Changes: Enclosures: The changes result in the Contract amount prior to Net (increase)	To obtain services of Archaeological consu and Tai Road, preparation of draft and fina preparation of draft and final reports, and required by the Department of Parks and I Copy of original contract, archaeological fe to following adjustment of contract price and o this Change Order from this Change Order	al monitoring plans, analysis of recovered artifacts, curation of recovered archaeological materials as Recreation (DPR). The proposal and scope of work. The time: \$1,94 terms and conditions)	6,318.00	
Nature of Changes: Enclosures: The changes result in the Contract amount prior to Net (increase)	To obtain services of Archaeological consu- and Tai Road, preparation of draft and final preparation of draft and final reports, and required by the Department of Parks and I Copy of original contract, archaeological fe copy of original contract, archaeological fe to this Change Order from this Change Order (subject to approved	al monitoring plans, analysis of recovered artifacts, curation of recovered archaeological materials as Recreation (DPR). The proposal and scope of work. The time: \$1,94 terms and conditions)		
Nature of Changes: Enclosures: The changes result in the Contract amount prior to the Contract price in Contract time prior to the Contract time prior	To obtain services of Archaeological consuland Tai Road, preparation of draft and final preparation of draft and final preparation of draft and final reports, and required by the Department of Parks and I Copy of original contract, archaeological feater following adjustment of contract price and to this Change Order from this Change Order (subject to approved according this Change Order ais Change Order	al monitoring plans, analysis of recovered artifacts, curation of recovered archaeological materials as Recreation (DPR). The proposal and scope of work. The time: \$1,94 terms and conditions) \$1,96	6,318.00	
Nature of Changes: Enclosures: The changes result in the Contract amount prior to the Contract price in Contract time prior to the Net (increase)(decrease)	To obtain services of Archaeological consuland Tai Road, preparation of draft and final preparation of draft and final preparation of draft and final reports, and required by the Department of Parks and in Copy of original contract, archaeological feater following adjustment of contract price and to this Change Order (subject to approved according this Change Order also	al monitoring plans, analysis of recovered artifacts, curation of recovered archaeological materials as Recreation (DPR). The proposal and scope of work. The time: \$1,94 terms and conditions) \$1,96	6,318.00	
Nature of Changes: Enclosures: The changes result in the Contract amount prior to least the contract price in Contract time prior to the let (increase)(decrease) (decrease)	To obtain services of Archaeological consuland Tai Road, preparation of draft and final preparation of draft and final preparation of draft and final reports, and required by the Department of Parks and I Copy of original contract, archaeological feater following adjustment of contract price and to this Change Order (subject to approved acluding this Change Order nis Change Order	al monitoring plans, analysis of recovered artifacts, curation of recovered archaeological materials as Recreation (DPR). The proposal and scope of work. The time: St.,94 terms and conditions) \$1,96 dar days from original completion.	6,318.00	
Enclosures: The changes result in the Contract amount prior to let (increase) (decrease) Current contract price in Contract time prior to the let (increase) (decrease) Current contract time increase) (decrease)	To obtain services of Archaeological consuland Tai Road, preparation of draft and final preparation of draft and final preparation of draft and final reports, and required by the Department of Parks and I Copy of original contract, archaeological feate following adjustment of contract price and to this Change Order from this Change Order (subject to approved acluding this Change Order nis Change Order	al monitoring plans, analysis of recovered artifacts, curation of recovered archaeological materials as Recreation (DPR). The proposal and scope of work. The time: St.,94 terms and conditions) \$1,96 dar days from original completion.	6,318.00	
Enclosures: The changes result in the Contract amount prior to let (increase)(decrease) Current contract price in Contract time prior to the let (increase) (decrease) Current contract time incontract time.	To obtain services of Archaeological consuland Tai Road, preparation of draft and final preparation of draft and final preparation of draft and final reports, and required by the Department of Parks and I Copy of original contract, archaeological feate following adjustment of contract price and to this Change Order (subject to approved acluding this Change Order also Ch	al monitoring plans, analysis of recovered artifacts, curation of recovered archaeological materials as Recreation (DPR). The proposal and scope of work. The time: St.,94 terms and conditions) \$1,96 dar days from original completion.	6,318.00	
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"Better Water, Better Lives."

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

Tel: (671) 300-6846

Issues for Decision

Resolution No. 04-FY2022

Relative to approval of funding and contract amount increase for the Indefinite Delivery/Indefinite Quantity (IDIQ) Professional Project/Construction Management Services Contract, to enable execution for multiple task orders, to include the following:

- 1. Project Management/Construction Management for Phase 3 Tank Inspection and Repairs
- 2. Project Management/Construction Management of District Metering Area (DMA) and Pressure Zone Realignment (PZR) Construction
- 3. Construction Management of Deep Wells A-23 and A-25 GAC System Installation
- 4. Construction Management Services for Groundwater Wells A-02, A-12, D-05, and F-03 Rehabilitation Construction
- 5. Construction Management for Waterline Replacement Construction; and

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

GWA currently has an IDIQ contract with Duenas, Camacho, and Associates (DCA). The amendment will increase funding to issue task orders for the projects listed above to perform project management and construction management services. The projects cited are necessary in that they are in accordance with the CCU-approved 5-Year Capital Improvement Program (CIP) to address EPA and other regulatory compliance priorities.

The projects listed are critical:

- Phase 3 Tank Inspection and Repairs: Schedule and perform inspections to all storage reservoirs in GWA's inventory. GWA's plan is to develop an inspection program and schedule to evaluate reservoir condition and repairs required. Inspection team will include licensed professional civil engineer, licensed structural engineer, and API-653 inspector. Inspection will include concrete and steel reservoirs.
- 2. District Metering (DMA) and Pressure Zone Realignment (PZR): Perform construction management for the construction of meter and PRVs vaults. DMAs allow for monitoring supplied and consumed in specific zones, tracking and reducing Non-Revenue Water, and improving quality and consistency of the water supply.
- 3. Deep Wells A-23 and A-25 GAC System Installation: Perform construction management for installation of the GAC system. The GAC system will allow for Deep Well A-23 and A-25 to be placed back into service and increase water supply.
- 4. Deep Wells A-02, A-12, D-05, and F-03 Rehabilitation: Perform construction management for the rehabilitation of Deep Wells A-02, A-12, D-05, and F-03. Rehabilitation of the wells will allow for the wells to be placed into service and increase water supply.
- 5. Waterline Replacement: Perform construction inspections for waterline installation at various sites to address replacement of 2 in water lines, aged lines, and other lines identified by the Master Plan and the water loss study.

The current IDIQ contract value is \$846,164.00 for Task Order 1 Construction Management services for Tank Repairs and Bypass, Task Order 2 Construction Management services for Tai

Road/S-13 and Toto-Canada/Blas Street Waterline Replacement, Task Order 3 Project Management and Construction Management Services for Ugum Water Treatment Plant Rehabilitation, and Task Order 4 Construction Management for Yigo Sewer Pump Station Flood Mitigation and Facility Rehabilitation.

GWA's plan is to issue an amendment to increase the contract total to \$2,846,164.00. The increase in the contract amount will allow GWA to issue multiple task orders as described above.

Where is the location?

Island-wide.

How much will it cost?

Estimated cost for each task order as follows:

- Project Management and Construction Management for Phase 3 Tank Inspection and Repairs:
 - a. \$600,000.00
- 2. Project Management and Construction Management of District Metering Area (DMA) and Pressure Zone Realignment (PZR):
 - a. \$200,000.00
- 3. Construction Management of Deep Wells A-23 and A-25 GAC System Installation:
 - a. \$200.000.00
- 4. Construction Management for Groundwater Wells A-02, A-12, D-05, and F-03 Rehabilitation:
 - a. \$650,000.00
- 5. Construction Management for Waterline Replacement Construction:
 - a. \$200,000.00
- 6. Contingency:
 - a. \$150,000.00

Total: \$2,000,000.00

When will it be completed?

All task orders shall be completed by the IDIQ contracting period.

What is the funding source?

The funding source will be from GWA Bonds.

The RFP/BID responses (if applicable):

The original solicitation for this IDIQ contract for professional engineering services was under RFP-04-ENG-2019. There were seven (7) total proposals received. The proposals were evaluated and ranked, with the top two (2) respondents selected. DCA was found to be one of the two most qualified for the requested services.

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. 04-FY2022

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

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

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

WHEREAS, GWA awarded an Indefinite Delivery – Indefinite Quantity (ID-IQ) contract to Duenas, Camacho, and Associates, Inc. for Project Management/Construction Management services in the maximum amount of Seven Hundred Fifty Thousand Dollars (\$750,000.00) and has issued three (3) task orders (TO) for TO-1 Construction Management services for Tank Repairs and Bypass project; TO-2 Construction Management services for Tai Road/S-13 and Toto-Canada/Blas Street Waterline Replacement project; and TO-3 Project Management and Construction Management Services for Ugum Water Treatment Plant Rehabilitation (Exhibit A); and

WHEREAS, GWA amended the Duenas, Camacho, and Associates, Inc. IDIQ for Project Management/Construction Management services under Amendment No. 1 to increase funding by Ninety-Six Thousand Seven Hundred Fifty-Four Dollars (\$96,754.00), for a new total contract amount of Eight Hundred Forty-Six Thousand One Hundred Sixty-Four Dollars (\$846,164.00) to execute TO-4 Construction Management for Yigo Sewer Pump Station Flood Mitigation and Facility Rehabilitation (Exhibit B); and

WHEREAS, in accordance with the CCU-approved 5-year Capital Improvement Program addressing the 2011 Court Order, upcoming EPA compliance requirements, and other regulatory priorities, GWA continues to make improvements to the water system by issuing projects that will improve water supply, reduce water loss, create pressure zones, repair/maintain water storage reservoirs, and install new waterlines; and

WHEREAS, GWA Management seeks CCU approval to increase the authorized funding by Two Million Dollars (\$2,000,000.00), for a total authorized amount of Two Million Eight Hundred Forty-Six Thousand One Hundred Sixty-Four Dollars (\$2,846,164.00) to enable

for Phase 3 Tank Inspection and Repairs; Project Management/Construction Management of District Metering Area (DMA) and Pressure Zone Realignment (PZR) Construction; Construction Management of Deep Wells A-23 and A-25 GAC System Installation; Construction Management for Groundwater Wells A-02, A-12, D-05, and F-03 Rehabilitation Construction, and Construction Management for Waterline Replacement Construction; and

execution of multiple task orders, to include Project Management and Construction Management

and Construction Management for Waterline Replacement Construction; and

WHEREAS, GWA Management seeks CCU approval to amend the maximum contract in the amount not-to-exceed of Two Million Eight Hundred Forty-Six Thousand One Hundred Sixty-Four Dollars (\$2,846,164.00); and

WHEREAS, funding for the Amendment will be from GWA Bonds.

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

- 1. The recitals set forth above hereby constitute the findings of the CCU.
- 2. The CCU hereby approves the total funding by Two Million Dollars (\$2,000,000.00), for a total authorized amount of Two Million Eight Hundred Forty-Six Thousand One Hundred Sixty-Four Dollars (\$2,846,164.00) to enable execution of multiple task orders, to include Project Management and Construction Management for Phase 3 Tank Inspection and Repairs; Construction Management of District Metering Area (DMA) and Pressure Zone Realignment (PZR) Construction; Construction Management of Deep Wells A-23 and A-25

GAC System Installation; Construction Management for Groundwater Wells A-02, A-12, D-05, and F-03 Rehabilitation Construction, and Construction Management for Waterline Replacement Construction; and

- The CCU hereby further approves to amend the maximum amount for the IDIQ contract with Duenas, Camacho, and Associates, Inc. in the amount not-to-exceed of Two Million Eight Hundred Forty-Six Thousand One Hundred Sixty-Four Dollars (\$2,846,164.00) (Exhibit B); and
- 4. The CCU hereby further approves management to pursue PUC approval for a contract exceeding One Million Dollars (\$1,000,000.00) that will be amendment(s) funded by GWA Bond money. as may be required under the PUC's Contract Review Protocol.

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

DULY AND REGULARLY ADOPTED, this 26th day of October, 2021.

Certified by: Attested by:

JOSEPH T. DUENAS MICHAEL T. LIMTIACO

JOSEPH T. DUENAS MICHAEL T. LIMTIACO
Chairperson Secretary

	GWA WORK Session - October 19, 2021 - ISSUES FOR DECISION
1	SECRETARY'S CERTIFICATE
2	
3	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	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 an legally held at a place properly noticed and advertised at which meeting a quorum wa
7	present and the members who were present voted as follows:
9	
10	AYES:
11 12	NAYS:
13	ABSENT:
14	ABSTAIN:
15	
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18 19	
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31 32	
	4

Exhibit A, pg. 1 of 30

TASK ORDER FORM

This is Task Order No. 1, consisting of 6 pages.

Task Order

In accordance with Paragraph 1.01 of the Agreement Between Owner and Engineer for Professional Services – Task Order Edition, dated June 17, 2019 ("Agreement"), Owner and Engineer agree as follows:

1. Background Data

2	Effective Date of Task Order:	Fohruane	2021
a.	Effective Date of Task Order:	February	.2021

b. Owner: Guam Waterworks Authority

c. Engineer: Duenas, Camacho & Associates, Inc.

d. Specific Project (title): Indefinite Delivery/Indefinite Quantity (ID/IQ) for Professional

Project/Construction Management Services

e. Specific Project (description): Construction Management Services for Tank Repairs and Bypass

2. Services of Engineer

A. The specific services to be provided or furnished by Engineer under this Task Order are:

SCOPE OF WORK:

This task will be performed by Duenas, Camacho & Associates, Inc., herein referred to as "Engineer," under the GWA ID/IQ Project Management/Construction Management contract.

CONSTRUCTION PHASE

Task 1: Administrative Services

- a. General Contract Administration: Act as the authorized agent for GWA to administer the contract for construction of the project;
- b. Arrange, conduct, and represent GWA at meetings with contractor(s) to discuss any subjects or resolve any problems related to the construction of the project improvements. The meetings may be scheduled as frequently as biweekly as acceptable to GWA.
- c. Hold meetings with GWA (at the request of GWA or DCA) to discuss contract administration policies, progress of construction, problems, or any pertinent matters.
- d. Prepare and distribute project correspondence and reports as required for proper management of the construction of project improvements.

Task Order Form

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- e. Secure and transmit to GWA or the Contractor (whichever is appropriate) required certificates, waivers, affidavits, releases and other pertinent documents.
- f. Prepare a detailed periodic construction status report acceptable to GWA.
- g. Enforce compliance by the contractor with all applicable contract requirements specifically related to the conduct of construction work.
- h. Set up and maintain a construction filing system acceptable to GWA.
- i. After acceptance of the construction of improvements, DCA will arrange and turn over to GWA all files and records relevant to project construction

Task 1.1: Review and Processing of Payment Estimates

- a. Review monthly payment requests submitted by the contractor to assure that payment estimates are in proper format and reflect actual completed work, and that appropriate sums are retained as required by the contract documents.
- b. Assure that payment estimates show work completed and payment due.
- c. Recommend approval or disapproval of payment of construction pay requests.

Task 1.2: Processing of Contract Changes

- a. Notify GWA of conditions during construction or problems with the prosecution of work that may lead to any changes in the cost or completion period. Submit recommendations on how to deal with these potential changes.
- b. Review and evaluate any changes requested by GWA or the contractor and make recommendations on how to deal with the changes.
- c. Estimate the cost of the changes and corresponding adjustments to the contract completion period, negotiate tentatively approved changes with the contractor on behalf of GWA and submit the negotiated change order request to GWA for final approval.
- d. Administer approved change orders and record costs of all change orders

Task 1.3: Claims and Disputes

- a. Notify GWA of any conditions during construction or problems in the prosecution of the work that may lead to claims by or a dispute with the contractor and prepare and present recommended solutions for GWA review and analysis.
- b. Review any claims or disputes by the contractor and submit recommendations.
- c. Maintain accurate records of claim facts, materials, labor and equipment.
- d. Assist GWA in settling claims or disputes with the Contractor.

Task 1.4: Engineering Support

Compliance Documents, Shop Drawings & Materials Submittals Review: DCA will review Compliance Documents, Shop Drawings and Material Submittals required by the contract provisions as well as the technical specifications to assure conformance with the intent of the design of improvements and contract documents. Compliance with cited construction standards will be checked.

Task 1.5: Material or Equipment Substitutions

DCA shall notify GWA of equipment or material substitutions proposed by the contractor and recommend approval or disapproval. After approval by GWA, administer the substitutions.

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Task 1.6: Construction Schedule Review

- a. Evaluate the contractor's work schedule and direct the contractor, as appropriate, to make changes if required to assure that the schedule is correct, realistic and shows a sequence of construction work which conforms to the approved contract.
- b. Enforce contractor compliance with the approved schedule as may be updated.
- c. Have the contractor update or revise his schedule as required during construction of improvements.

CONSTRUCTION INSPECTION, QUALITY CONTROL & CLOSE-OUT SERVICES

Task 2: Construction Inspection

- a. Construction Inspection:
 - Inspect the construction of improvements to assure that work is done according to the
 construction documents and work schedule. DCA shall provide qualified personnel to
 properly inspect every phase of the construction of project improvements.
 - Strictly enforce all provisions of the contract specifications dealing with the prosecution of work and contractor compliance with local and federal laws.
 - Issue stop work orders for a portion of or the entire project as may be required without
 prior notice to GWA when conditions of work or actions by the contractor threaten the
 health and safety of the contractor's workers, inspectors or the public or with prior notice
 to and approval from GWA when actions by the contractor are in violation of the
 approved construction documents.
 - Direct changes to the contractor's operations if needed to minimize inconvenience to and protect the safety of the public as permitted by the specifications.
 - Maintain a daily detailed record of the progress of construction work with daily upload to project website.
 - Schedule and conduct pre-final and final inspections under each task order with representatives of GWA and others (as appropriate), and record the results in detail.
 - Secure written acceptance of the project from appropriate government agencies.
 - Periodic inspection will be conducted. Specifically during major repairs and times where GWA engineering deems it is needed. DCA will at a minimum will provide spot inspections and reports at least twice weekly once and when construction is underway.
- b. Quality Control: The requirements set for the project will be implemented by all DCA project personnel this also includes:
 - Strictly enforce all provisions of the contract specifications dealing with material testing and quality of workmanship.
 - Schedule, witness and approve or reject as appropriate all tests required to be performed by the contractor and obtain certificates and/or written verification of the test results.
 - Assure that all construction work conforms to the requirements of the construction documents, all applicable codes, and to good construction practices.

c. Survey Control

- Check the contractor's layout of project boundaries and work limits.
- Check the accuracy of all work in progress or completed to assure conformance to the contract documents. To this end, DCA will check location and elevations of project

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Improvements to assure conformance with the intent of the approved construction contract documents. This work is extremely crucial as construction blunders can go unnoticed or undetected if construction check surveys are not conducted.

d. Close Out

 Project Closeout: Upon the completion and GWA acceptance of the construction of improvements, DCA will turn over all record drawings (originals and electronic files), project files and other relevant project documents.

B. Other Services

Engineer shall also provide the following services: Training for tank inspection related works as requested by owner

C. All of the services included above comprise Basic Services for purposes of Engineer's compensation under this Task Order.

3. Additional Services

- A. Additional Services that may be authorized or necessary under this Task Order are:
- □ N/A

4. Owner's Responsibilities

Owner shall have those responsibilities set forth in Article 2 of the Agreement and in Exhibit B.

5. Task Order Schedule

In addition to any schedule provisions provided in Exhibit A or elsewhere, the parties shall meet the following schedule:

Not Applicable, services based on 300 calendar day construction Period

<u>Party</u>	Action	Schedule
Engineer	Construction Management Services for Tank Repairs and Bypass	Based on 300 calendar day construction period.

6. Payments to Engineer

A. Owner shall pay Engineer for services rendered under this Task Order as follows:

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Description of Service	Amount	Basis of Compensation
Basic Services (Section 2.A)		
a. Task 1 through task 2 – Construction Phase	\$276,869	Lump Sum
b. Other Services (see 2.B above)	\$20,208	Direct Labor
AL COMPENSATION (lines 1.a-d)	\$297,077	
	Basic Services (Section 2.A) a. Task 1 through task 2 – Construction Phase b. Other Services (see 2.B above)	Basic Services (Section 2.A) a. Task 1 through task 2 – Construction Phase \$276,869 b. Other Services (see 2.B above) \$20,208

^{*}Based on a 10 -month continuous construction period.

Compensation items and totals based in whole or in part on Hourly Rates or Direct Labor are estimates only. Lump sum amounts and estimated totals included in the breakdown by phases incorporate Engineer's labor, overhead, profit, reimbursable expenses (if any), and Consultants' charges, if any. For lump sum items, Engineer may alter the distribution of compensation between individual phases (line items) to be consistent with services actually rendered, but shall not exceed the total lump sum compensation amount unless approved in writing by the Owner.

- B. The terms of payment are set forth in Article 4 of the Agreement and in the applicable governing provisions of Exhibit C.
- 7. Consultants retained as of the Effective Date of the Task Order: DCA has retained EMCE for Electrical Engineering Support
- 8. Other Modifications to Agreement and Exhibits: None
- 9. Attachments: None
- 10. Other Documents Incorporated by Reference: None

Task Order Form

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Page 5

11. Terms and Conditions

Execution of this Task Order by Owner and Engineer shall make it subject to the terms and conditions of the Agreement (as modified above), which Agreement is incorporated by this reference. Engineer is authorized to begin performance upon its receipt of a copy of this Task Order signed by Owner.

The Effective Date of this Task Order is 3.3.702	_
OWNER:	ENGINEER:
Ву:	By:
Print Name:Miguel C. Bordallo, PE	Print Name: Kenneth M. Rekdahl, PE
Title: General Manager	Title: Vice-President
	Engineer License or Firm's
	Certificate No. (if required): 252 State of:
DESIGNATED REPRESENTATIVE FOR TASK ORDER:	DESIGNATED REPRESENTATIVE FOR TASK ORDER:
Name:	Name:
Title:	Title:
Address:	Address:
E-Mail Address:	E-Mail Address:
Phone:	Phone:
CERTIFICATION OF FUNDS:	
Task Order Amount: \$297,077.00 - Bond 2016 PW 09-11	
Manufuro 3/3/2021	
Caling M. Taitano, CPA, CGFM, CGMA	
Chief Financial Officer	
Tool O	ladas Passa

Task Order Form

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PROJECT OVERVIEW

(TASK ORDER NO. 2 - PM/CM SERVICES)

Project: INDEFINITE DELIVERY/INDEFINITE QUANTITY (ID/IQ) FOR

PROFESSIONAL PROJECT MANAGEMENT/CONSTRUCTION

MANAGEMENT SERVICES

Project Number: M19-001-BND

Consultant: Dueñas, Camacho & Associates, Inc.

Task Order No.: 02

Construction Management for Tai Road/S-13 and Toto-Canada

Road/Blas Street Waterline Replacement Project

Task Order No. 2 Amount: \$189,729.00

Fund Source: 2020 Bond PW 09-03 Water Distribution System Pipe Replacement and

Upgrades

Original Contract Approved: June 17, 2019 Approved Contract Amount: \$750,000.00

Approved Task Order No. 1: - \$297,077.00 (2016 Bond PW 09-11)

Current Contract Balance: \$452,923.00

Prepared by:

Digitally signed by Gloria P. Bensan
Date: 2021.04.16 08:45:28
+10'00' Gloria P.

Bensan

GLORIA P. BENSAN



TASK ORDER

This is Task Order **No. 2**, consisting of 6 pages.

Task Order

In accordance with Paragraph 1.01 of the Agreement Between Owner and Engineer for Professional Services – Task Order Edition, dated June 17, 2019 ("Agreement"), Owner and Engineer agree as follows:

1. Background Data

a. Effective Date of Task Order: April _____, 2021

b. Owner: Guam Waterworks Authority

c. Engineer: Duenas, Camacho & Associates, Inc.

d. Specific Project (title): Indefinite Delivery/Indefinite Quantity (ID/IQ) for Professional

Project/Construction Management Services

e. Specific Project (description): Construction Management Services for Tai Road/S-13 and

Canada-Toto Loop/Blas Street Waterline Replacement

GWA Project No. M19-001-BND

2. Services of Engineer

A. The specific services to be provided or furnished by Engineer under this Task Order are:

1. PRE-CONSTRUCTION PHASE

Construction Management Plan

DCA will prepare and submit to GWA a construction management plan. This management plan will help define the roles of the CM, Owner and Contractor.

2. CONSTRUCTION PHASE

2.1. Administrative Services

- a. General Contract Administration: Act as the authorized agent for GWA to administer the contract for construction of the project;
- b. Arrange, conduct, and represent GWA at meetings with contractor(s) to discuss any subjects or resolve any problems related to the construction of the project improvements. The meetings may be scheduled as frequently as biweekly as acceptable to GWA.
- Hold meetings with GWA (at the request of GWA or DCA) to discuss contract administration policies, progress of construction, problems, or any pertinent matters.

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- d. Prepare and distribute project correspondence and reports as required for proper management of the construction of project improvements.
- e. Secure and transmit to GWA or the Contractor (whichever is appropriate) required certificates, waivers, affidavits, releases and other pertinent documents.
- f. Prepare a detailed periodic construction status report acceptable to GWA.
- g. Enforce compliance by the contractor with all applicable contract requirements specifically related to the conduct of construction work.
- h. Set up and maintain a construction filing system acceptable to GWA.
- i. After acceptance of the construction of improvements, DCA will arrange and turn over to GWA all files and records relevant to project construction.

2.2. Review and Processing of Payment Estimates

- a. Review monthly payment requests submitted by the contractor to assure that payment estimates are in proper format and reflect actual completed work, and that appropriate sums are retained as required by the contract documents.
- b. Assure that payment estimates show work completed and payment due.
- c. Recommend approval or disapproval of payment of construction pay requests.

2.3. Processing of Contract Changes:

- a. Notify GWA of conditions during construction or problems with the prosecution of work that may lead to any changes in the cost or completion period. Submit recommendations on how to deal with these potential changes.
- b. Review and evaluate any changes requested by GWA or the contractor and make recommendations on how to deal with the changes.
- c. Estimate the cost of the changes and corresponding adjustments to the contract completion period, negotiate tentatively approved changes with the contractor on behalf of GWA and submit the negotiated change order request to GWA for final approval.
- d. Administer approved change orders and record costs of all change orders.

2.4. Claims and Disputes

- a. Notify GWA of any conditions during construction or problems in the prosecution of the work that may lead to claims by or a dispute with the contractor and prepare and present recommended solutions for GWA review and analysis.
- b. Review any claims or disputes by the contractor and submit recommendations.
- c. Maintain accurate records of claim facts, materials, labor and equipment.

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d. Assist GWA in settling claims or disputes with the Contractor.

2.5. Engineering Support

Compliance Documents, Shop Drawings & Materials Submittals Review: DCA will review Compliance Documents, Shop Drawings and Material Submittals required by the contract provisions as well as the technical specifications to assure conformance with the intent of the design of improvements and contract documents. Compliance with cited construction standards will be checked.

2.6. Material or Equipment Substitutions

DCA shall notify GWA of equipment or material substitutions proposed by the contractor and recommend approval or disapproval. After approval by GWA, administer the substitutions.

2.7. Construction Schedule Review

- a. Evaluate the contractor's work schedule and direct the contractor, as appropriate, to make changes if required to assure that the schedule is correct, realistic and shows a sequence of construction work which conforms to the approved contract.
- b. Enforce contractor compliance with the approved schedule as may be updated.
- c. Have the contractor update or revise his schedule as required during construction of improvements.

2.8. As-Built /Record Drawings

- a. Assure that the contractor prepares "As-Built" drawings as the work progresses.
- b. Review and approve the as-built drawings for content and accuracy.
- Transfer all as-built information onto the original construction drawings at the conclusion of the project and create both a hard copy and electronic copy of the drawings.

2.9. Construction Inspection, Quality Control & Close-Out Services

a. CONSTRUCTION INSPECTION:

- Inspect the construction of improvements to assure that work is done according to the construction documents and work schedule. DCA shall provide qualified personnel to properly inspect every phase of the construction of project improvements.
- Strictly enforce all provisions of the contract specifications dealing with the prosecution of work and contractor compliance with local and federal laws.
- Issue stop work orders for a portion of or the entire project as may be required without prior notice to GWA when conditions of work or actions by the contractor threaten the health and safety of the contractor's workers, inspectors or the public or with prior notice to and approval from GWA when actions by the contractor are in violation of the approved construction documents.
- Direct changes to the contractor's operations if needed to minimize inconvenience to and protect the safety of the public as permitted by the specifications.
- Maintain a daily detailed record of the progress of construction work with daily upload to project website.
- Schedule and conduct pre-final and final inspections under each task order with representatives
 of GWA and others (as appropriate), and record the results in detail.

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- Secure written acceptance of the project from appropriate government agencies.
- Periodic inspection will be conducted. Specifically during major repairs and times where GWA
 engineering deems it is needed. DCA will at a minimum will provide spot inspections and reports
 at least twice weekly once and when construction is underway.
- b. QUALITY CONTROL: The requirements set for the project QA plan will be implemented by all DCA project personnel this also includes:
 - Strictly enforce all provisions of the contract specifications dealing with material testing and quality of workmanship.
 - Schedule, witness and approve or reject as appropriate all tests required to be performed by the contractor and obtain certificates and/or written verification of the test results.
 - Assure that all construction work conforms to the requirements of the construction documents, all applicable codes, and to good construction practices.

c. SURVEY CONTROL

- Check the contractor's layout of project boundaries and work limits.
- Check the accuracy of all work in progress or completed to assure conformance to the contract
 documents. To this end, DCA will check location and elevations of project Improvements to
 assure conformance with the intent of the approved construction contract documents. This work
 is extremely crucial as construction blunders can go unnoticed or undetected if construction
 check surveys are not conducted.

d. CLOSE OUT

- Project Closeout: Upon the completion and GWA acceptance of the construction of improvements, DCA will turn over all record drawings (originals and electronic files), project files and other relevant project documents.
- B. Resident Project Representative (RPR) Services
- C. Other Services

Engineer shall also provide the following services: N/A

D. All of the services included above comprise Basic Services for purposes of Engineer's compensation under this Task Order.

3. Additional Services

A.	Additional Services that may be authorized or necessary under this Task Order are:
	N/A

4. Owner's Responsibilities

Owner shall have those responsibilities set forth in Article 2 of the Agreement and in Exhibit B.

5. Task Order Schedule

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In addition to any schedule provisions provided in Exhibit A or elsewhere, the parties shall meet the following schedule: as specified in the Scope of Work

6. Payments to Engineer

A. Owner shall pay Engineer for services rendered under this Task Order based on the attached approved Task Order No. 2 fee proposal:

Description of Service	Amount	Basis of Compensatio			
Basic Services (Section 2)					
a. Pre-Construction Services	\$3,174.34	Lump Sum			
 b. Construction Phase Services 	\$170,952.31	Lump Sum			
c. Post Construction Services	\$8,340.01	Lump Sum			
d. Other Services	\$7,262.25	T&M			
TOTAL COMPENSATION (lines 1.a-d)	\$189,728.91				
	say \$189,729				

^{*}Based on a 13 -month continuous construction period.

Compensation items and totals based in whole or in part on Hourly Rates or Direct Labor are estimates only. Lump sum amounts and estimated totals included in the breakdown by phases incorporate Engineer's labor, overhead, profit, reimbursable expenses (if any), and Consultants' charges, if any. For lump sum items, Engineer may alter the distribution of compensation between individual phases (line items) to be consistent with services actually rendered, but shall not exceed the total lump sum compensation amount unless approved in writing by the Owner.

- B. The terms of payment are set forth in Article 4 of the Agreement and in the applicable governing provisions of Exhibit C.
- 7. Consultants retained as of the Effective Date of the Task Order: None
- 8. Other Modifications to Agreement and Exhibits: None

[Supplement or modify Agreement and Exhibits, if appropriate.]

- 9. Attachments: Negotiated Fee Proposal
- 10. Other Documents Incorporated by Reference:

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11. Terms and Conditions

Funding Source: 2020 Bond PW 09-03

Execution of this Task Order by Owner and Engineer shall make it subject to the terms and conditions of the Agreement (as modified above), which Agreement is incorporated by this reference. Engineer is authorized to begin performance upon its receipt of a copy of this Task Order signed by Owner.

O TT ITEIL.	Guam Waterworks Authority	ENGINEER: D	ueñas, Camacho & Associates, Inc.
Ву:	mony	Ву:	16
Print Name:	MIGUEL C. BORDALLO, P.E.	Print Name:	KENNETH M. REKDAHL, P.E.
Title:	General Manager	Title:	Vice President
		Engineer Lice Certificate No State of:	nse or Firm's No. 252 . (if required): No. 252 Territory of Guam
DESIGNA ⁻	TED REPRESENTATIVE FOR TASK ORDER:		EPRESENTATIVE FOR TASK ORDER:
Name:	Gloria P. Bensan	Name:	•
Title:	Project Manager	Title:	
Address:	Gloria B. Nelson Public Service Bldg.	Address:	
	688 Route 15		
	688 Route 15		
E-Mail		E-Mail Address:	
E-Mail Address:	688 Route 15 Mangilao, Guam 96913		
E-Mail Address: Phone:	688 Route 15 Mangilao, Guam 96913 gpbensan@guamwaterworks.org	Address:	
E-Mail Address: Phone: CERTIFIED	688 Route 15 Mangilao, Guam 96913 gpbensan@guamwaterworks.org 671-300-6042	Address:	
E-Mail Address: Phone: CERTIFIED By:	688 Route 15 Mangilao, Guam 96913 gpbensan@guamwaterworks.org 671-300-6042 FUNDS AVAILABLE:	Address:	

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TASK ORDER

This is Task Order No. 3, consisting of 10 pages.

Task Order

In accordance with Paragraph 1.01 of the Agreement Between Owner and Engineer for Professional Services – Task Order Edition, dated June 17, 2019 ("Agreement"), Owner and Engineer agree as follows:

I. BACKGROUND DATA

A. Effective Date of Task Order: May _____ 2021

B. Owner: Guam Waterworks Authority

C. Engineer: Duenas, Camacho & Associates, Inc.

D. Specific Project (title): Indefinite Delivery/Indefinite Quantity (ID/IQ) for

Professional Project/Construction Management Services

E. Specific Project (description): Project Management, Procurement, and Construction

Management for Ugum Water Treatment Plant

Rehabilitation

II. SERVICES OF ENGINEER

The task order services will consist of preparation of plans, specifications, and estimates, which includes assessment report, construction schedule, procurement documents, relevant permit, construction bid support service, and response to request for interpretation/information. construction management services during construction will also be provided.

The specific services to be provided or furnished by Engineer under this Task Order are:

A. PROJECT MANAGEMENT

A review of existing reports, plans, and conditions of the Ugum WTP in order to ascertain site replacement item. In addition to the assessment, DCA will assist GWA in the coordination with manufacture engineers schedule to conduct conditions assessments of the site. DCA assessment will focus on all plant items to include but not limited to: Raw water process, headworks, contact and sedimentation basins, sludge settling /neutralization systems, thickening and dewatering systems, chemical feed and plant water systems. In addition, the site safety, security, and civil works will be reviewed.

DCA will assess alternatives to the handling of the membrane repairs currently done across the operations building. The intent is to perform membrane repairs above the blower room concrete roof. These alternatives will include any structural modifications/upgrades needed.

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B. PROCUREMENT SUPPORT

DCA will prepare at least three packages that will be used for: existing equipment/system replacement and future upgrade/design needs. As part of this service DCA will support the procurement process and assist GWA in coordinating with local and national vendors/suppliers

C. ASSESSMENTS

1. Preliminary Assessment

Define assessment objectives, design criteria, and methodology that shall be used to prepare the assessment report.

- Perform site investigation to determine existing condition and system configuration, consisting of the following:
 - i. Existing site conditions and facilities
 - ii. Existing site operation
 - iii. Propose improvements
 - iv. Demolition requirements
 - v. Piping and valving requirements
 - vi. Operational requirements
 - vii. Electrical power supply
 - viii. Future expandability
- b. Provide surveying services of the property boundary including topographic survey necessary for fencing work.
- c. Unexpected conditions may be encountered during the assessment given that the site is existing and in operation. A time and material fee will be provided. This fee is an executed and will only be used if the owner approves.

2. Procurement Support

a. Develop Procurement Report.

The Procurement Report at the minimum shall address the following:

- i. Site security requirements
- ii. Replacement of sludge collection at contact basin #2, recycle basin #2, and other equipment in relation to continuity of operation during repair or replacement.
- iii. All items listed in section 3.
- b. Prepare plans, specifications, cost estimates, construction schedule, and all other documents necessary for the project completion.
 - i. The consultant will prepare and submit the following:
 - Draft and Final procurement plans. One procurement plan will cover the replacement of existing equipment/systems and the other will provide for future design/upgrade needs

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- Specifications at draft and final completion levels, which will include front end documents and technical specifications applicable to the indicated completion levels.
 The consultant shall propose any changes to GWA's front end documents for Legal Counsel review.
- Construction cost estimate update at draft and final completion level. All costs will be in current dollars and escalated to the estimated midpoint of construction.
- The design consultant shall coordinate with relevant agencies such as Guam Environmental Protection Agency and other relevant agencies at the draft submittals.
 This includes submitting documents (full size plans and specifications at each phase) and maintaining communication throughout the duration of the project and incorporating any relevant regulation requirements in the design.
- Deliverables to GWA will be provided in accordance with the following:
 - 1. Assessment report
 - a. 3 hard copies of the Basis of Design documents
 - b. Digital copy
 - 2. Draft procurement package
 - a. 3 hard copies
 - b. Digital copy
 - 3. Final Procurement package
 - a. 3 hard copies
 - b. Digital copy of the final documents

Specific Items of Work

Treatment Plant

- a. Gate and Fence
 - Install automated security gate at the treatment plant entrance.
 - Replace fence (damaged by typhoon) along the retaining wall at the southern side of administration building and operations building.
 - iii. Install chain link fence along the property line beginning at the thickener tank and ending at the neutralization tank.
 - iv. Install chain link fence along the property line beginning at neutralization tank and ending at the existing chain link post located northeast of the property.
- b. Administration Building
 - Relocate existing eyewash adjacent to laboratory room outside the building with access from laboratory room.
 - ii.. Repair three (3) restrooms.
 - iii. Relocate air-conditioner located in the kitchen to the floor below.
- c. Operation Building
 - Furnish and install two (2) 1-ton chlorine vessel container inside the chlorine room.

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- ii. Furnish and install a pH meter at hypochlorite generation tank.
- iii. Furnish and install a flow meter at sodium hydroxide.
- iv. Provide and install double swing access gate to the lift openings at the ground floor and second floor.
- v. Replace existing sludge feed (piping) including pumps and motors.
- vi. Rebuild and servicing of the existing centrifuge by replacing oils, seals, and bearings.
- vii. Instrumentation, electrical, and mechanical works.
- viii. Evaluate alternative for sodium hypochlorite generation
- ix. Evaluate alternatives for dewatering
- x. Replace existing elevate/lift system

d. Thickener Tank

- i. Refurbish rake and mixer.
- ii. Replace thickener feed pumps and motors.

e. Backwash (Holding Tank)

i. Install handrailing.

f. Sludge Tank

i. Install handrailing.

g. Control Room

i. Repair leak from roof hatch.

h. Membrane Cells

- i. Provide detachable railing (fall protection) on all open sides.
- Provide concrete landing (suspended slab) with railing at southern edge of the cell level to the future work area (west of cell).

i. Flocculation Tanks

 Furnish and install two (2) sluice gates with pneumatic actuator, instrumentation and electrical works,

j. Sedimentation Tanks

- i. Replace sludge collection system at contact basin #2 and recycle basin #2.
- ii. Furnish and install eight (8) sluice gates with pneumatic actuator and SCADA ready.
- iii. Replace lighting with solar panels.

k. Filter Pipe Gallery Room

- Replace steel door and jamb.
- Install access platform that can mitigate fall hazards and provide safe access to elevated valves and fittings and hard to reach areas.

I. Generator Room

i. Replace steel door.

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4. Procurement Bid Support Services

- Assist with preparing answers to questions regarding the bid packages during the bidding phase.
- b. Assist with the Pre-Bid Conference and respond to technical question involving design and specifications that prospective bidders may have at the Pre-Bid Conference, including the preparation of meeting minutes and providing formal responses to technical questions.
- c. Assist with preparation of bid addenda.
- d. Assist with reviewing construction proposals received. This shall include a bid analysis, review of bid proposal prices, and conformance with contract requirements and the Guam Procurement Code. A letter of recommendation of award shall be prepared.

D. CONSTRUCTION MANAGEMENT

Construction Management Plan

DCA will prepare and submit to GWA a construction management plan. This management plan will help define the roles of the CM, Owner and Contractor.

E. CONSTRUCTION PHASE

1. Administrative Services

- General Contract Administration: Act as the authorized agent for GWA to administer the contract for construction of the project;
- b. Arrange, conduct, and represent GWA at meetings with contractor(s) to discuss any subjects or resolve any problems related to the construction of the project improvements. The meetings may be scheduled as frequently as biweekly as acceptable to GWA.
- Hold meetings with GWA (at the request of GWA or DCA) to discuss contract administration policies, progress of construction, problems, or any pertinent matters.
- d. Prepare and distribute project correspondence and reports as required for proper management of the construction of project improvements.
- e. Secure and transmit to GWA or the Contractor (whichever is appropriate) required certificates, waivers, affidavits, releases and other pertinent documents.
- f. Prepare a detailed periodic construction status report acceptable to GWA.
- g. Enforce compliance by the contractor with all applicable contract requirements specifically related to the conduct of construction work.
- h. Set up and maintain a construction filing system acceptable to GWA.

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 After acceptance of the construction of improvements, DCA will arrange and turn over to GWA all files and records relevant to project construction.

2. Review and Processing of Payment Estimates

- a. Review monthly payment requests submitted by the contractor to assure that payment estimates are in proper format and reflect actual completed work, and that appropriate sums are retained as required by the contract documents.
- b. Assure that payment estimates show work completed and payment due.
- c. Recommend approval or disapproval of payment of construction pay requests.

Processing of Contract Changes:

- a. Notify GWA of conditions during construction or problems with the prosecution of work that may lead to any changes in the cost or completion period. Submit recommendations on how to deal with these potential changes.
- b. Review and evaluate any changes requested by GWA or the contractor and make recommendations on how to deal with the changes.
- c. Estimate the cost of the changes and corresponding adjustments to the contract completion period, negotiate tentatively approved changes with the contractor on behalf of GWA and submit the negotiated change order request to GWA for final approval.
- d. Administer approved change orders and record costs of all change orders.

4. Claims and Disputes

- a. Notify GWA of any conditions during construction or problems in the prosecution of the work that may lead to claims by or a dispute with the contractor and prepare and present recommended solutions for GWA review and analysis.
- b. Review any claims or disputes by the contractor and submit recommendations.
- c. Maintain accurate records of claim facts, materials, labor and equipment.
- d. Assist GWA in settling claims or disputes with the Contractor.

5. Engineering Support

a. Compliance Documents, Shop Drawings & Materials Submittals Review: DCA will review Compliance Documents, Shop Drawings and Material Submittals required by the contract provisions as well as the technical specifications to assure conformance with the intent of the design of improvements and contract documents. Compliance with cited construction standards will be checked.

6. Material or Equipment Substitutions

 DCA shall notify GWA of equipment or material substitutions proposed by the contractor and recommend approval or disapproval. After approval by GWA, administer the substitutions.

7. Construction Schedule Review

- a. Evaluate the contractor's work schedule and direct the contractor, as appropriate, to make changes if required to assure that the schedule is correct, realistic and shows a sequence of construction work which conforms to the approved contract.
- b. Enforce contractor compliance with the approved schedule as may be updated.
- Have the contractor update or revise his schedule as required during construction of improvements.

8. As-Built /Record Drawings

- a. Assure that the contractor prepares "As-Built" drawings as the work progresses.
- b. Review and approve the as-built drawings for content and accuracy.
- Transfer all as-built information onto the original construction drawings at the conclusion of the project and create both a hard copy and electronic copy of the drawings.

Construction Inspection, Quality Control & Close-Out Services

a. Construction Inspection:

- i. Inspect the construction of improvements to assure that work is done according to the construction documents and work schedule. DCA shall provide qualified personnel to properly inspect every phase of the construction of project improvements.
- Strictly enforce all provisions of the contract specifications dealing with the prosecution of work and contractor compliance with local and federal laws.
- iii. Issue stop work orders for a portion of or the entire project as may be required without prior notice to GWA when conditions of work or actions by the contractor threaten the health and safety of the contractor's workers, inspectors or the public or with prior notice to and approval from GWA when actions by the contractor are in violation of the approved construction documents.
- iv. Direct changes to the contractor's operations if needed to minimize inconvenience to and protect the safety of the public as permitted by the specifications.
- v. Maintain a daily detailed record of the progress of construction work with daily upload to project website.
- vi. Schedule and conduct pre-final and final inspections under each task order with representatives of GWA and others (as appropriate), and record the results in detail.
- vii. Secure written acceptance of the project from appropriate government agencies.
- viii. Periodic inspection will be conducted. Specifically, during major repairs and times where GWA engineering deems it is needed. DCA will at a minimum will provide spot inspections and reports at least twice weekly once and when construction is underway.
- b. Quality Control: The requirements set for the project QA plan will be implemented by all DCA project personnel this also includes:
 - Strictly enforce all provisions of the contract specifications dealing with material testing and quality of workmanship.
 - Schedule, witness and approve or reject as appropriate all tests required to be performed by the contractor and obtain certificates and/or written verification of the test results.

 Assure that all construction work conforms to the requirements of the construction documents, all applicable codes, and to good construction practices.

c. Survey Control

- i. Check the contractor's layout of project boundaries and work limits.
- ii. Check the accuracy of all work in progress or completed to assure conformance to the contract documents. To this end, DCA will check location and elevations of project Improvements to assure conformance with the intent of the approved construction contract documents. This work is extremely crucial as construction blunders can go unnoticed or undetected if construction check surveys are not conducted.

d. Close Out

- Project Closeout: Upon the completion and GWA acceptance of the construction of improvements, DCA will turn over all record drawings (originals and electronic files), project files and other relevant project documents.
- F. Resident Project Representative (RPR) Services: see above DCA Scope of Services
- G. Other Services: Engineer shall also provide the following services: N/A
- H. All of the services included above comprise Basic Services for purposes of Engineer's compensation under this Task Order.

1. Additional Services

Additional Services that may be authorized or necessary under this Task Order are:

□ N/A

2. Owner's Responsibilities

Owner shall have those responsibilities set forth in Article 2 of the Agreement and in Exhibit B.

3. Task Order Schedule

In addition to any schedule provisions provided in Exhibit A or elsewhere, the parties shall meet the following schedule: as specified in the Scope of Work

<u>Party</u>	Action	<u>Schedule</u>
Engineer	Furnish 3 review copies of the Report and other Study and Report Phase deliverables to Owner.	Within 150 days of the Effective Date of the Task Order.
Owner	Submit comments regarding Report and other Study and Report Phase deliverables to Engineer.	Within 14 days of the receipt of Report and other Study and Report Phase deliverables from Engineer.
Engineer	Furnish 3 copies of the revised Report and other Study and Report Phase	Within 30 days of the receipt of Owner's comments regarding the Report and other

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Page 8

deliverables to Owner.	Study and Report Phase deliverables.

I. Payments to Engineer

1. Owner shall pay Engineer for services rendered under this Task Order based on the attached approved Task Order No. 3 fee proposal:

Description of Service	Amount	Basis of Compensation
Basic Services (Section 2)		,
a. Assessment	\$84,156.07	Lump Sum
b. Procurement Package	\$89,334.14	Lump Sum
c. Post Procurement Services	\$5,120.17	Lump Sum
d. Other Services	\$11,213.78	T&M
Construction Management Services		
e. Pre-Construction Services	\$910.85	Lump Sum
f. Construction Phase	\$69,670.41	Lump Sum
g. Post Construction Phase	\$2,199.11	Lump Sum
OTAL COMPENSATION (lines 1.a-g)	\$262,604.54	
	Say \$262,604	

^{*}Based on a 3-month continuous construction period after the arrival of imported materials.

Compensation items and totals based in whole or in part on Hourly Rates or Direct Labor are estimates only. Lump sum amounts and estimated totals included in the breakdown by phases incorporate Engineer's labor, overhead, profit, reimbursable expenses (if any), and Consultants' charges, if any. For lump sum items, Engineer may alter the distribution of compensation between individual phases (line items) to be consistent with services actually rendered, but shall not exceed the total lump sum compensation amount unless approved in writing by the Owner.

- 2. The terms of payment are set forth in Article 4 of the Agreement and in the applicable governing provisions of Exhibit C.
- J. Consultants retained as of the Effective Date of the Task Order: EMCe
- K. Other Modifications to Agreement and Exhibits: None

[Supplement or modify Agreement and Exhibits, if appropriate.]

- L. Attachments: Negotiated Fee Proposal
- M. Other Documents Incorporated by Reference:

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N. Terms and Conditions

Execution of this Task Order by Owner and Engineer shall make it subject to the terms and conditions of the Agreement (as modified above), which Agreement is incorporated by this reference. Engineer is authorized to begin performance upon its receipt of a copy of this Task Order signed by Owner.

The Effect	ive Date of this Task Order is	2021.		
OWNER:	Guam Waterworks Authority	ENGINEER: C	Dueñas, Camacho & Asso	ciates, Inc.
Ву:	Moral	By:	11	
Print Name:	MIGUEL C. BORDALLO, P.E.	Print Name:	KENNETH M. REKDAH	IL, P.E.
Title:	General Manager	Title:	Vice President	
			o. (if required):	No. 252
		State of:	Territory of Guam	
DESIGNAT	ED REPRESENTATIVE FOR TASK ORDER:	DESIGNATED R	EPRESENTATIVE FOR TA	SK ORDER:
Name:	Ernesto Villarin	Name:		
Title:	Project Manager	Title:	1422-202	
Address:	Gloria B. Nelson Public Service Bldg.	Address:		
	688 Route 15			
	Mangilao, Guam 96913			
E-Mail Address:	eviliarin@guarnwaterworks.org	E-Mail Address:		-
Phone:	671-300-6063	Phone:		
CERTIFIED	FUNDS AVAILABLE:	APPROVED AS	TO FORM:	1
9	MUMMIN	4	79	
Ву:	10.00	By:		9
/ /////	ALING M. TAITANO, CPA, CGFM WA Chief Financial Officer	KELLY O. GWA Ge	. CLARK eneral Counsel	· · · · · · · · · · · · · · · · · · ·

Task Order Amount: \$262,604.00 Funding Source: MP-PW-SWTP-03



TASK ORDER

This is Task Order **No. 4**, consisting of 6 pages.

Task Order

In accordance with Paragraph 1.01 of the Agreement Between Owner and Engineer for Professional Services – Task Order Edition, dated June 17, 2019 ("Agreement"), Owner and Engineer agree as follows:

I. BACKGROUND DATA

A. Effective Date of Task Order: June ____, 2021

B. Owner: Guam Waterworks Authority

C. Engineer: Duenas, Camacho & Associates, Inc.

D. Specific Project (title): Indefinite Delivery/Indefinite Quantity (ID/IQ) for

Professional Project/Construction Management Services

E. Specific Project (description): Construction Management for Yigo Sewer Pump Station

Flood Mitigation and Facility Rehabilitation

II. SERVICES OF ENGINEER

The task order services will consist of construction management services during construction.

The specific services to be provided or furnished by Engineer under this Task Order are:

A. CONSTRUCTION MANAGEMENT

1. Construction Management Plan

DCA will prepare and submit to GWA a construction management plan. This management plan will help define the roles of the CM, Owner and Contractor.

E. CONSTRUCTION PHASE

1. Administrative Services

- a. General Contract Administration: Act as the authorized agent for GWA to administer the contract for construction of the project.
- b. Arrange, conduct, and represent GWA at meetings with contractor(s) to discuss any subjects or resolve any problems related to the construction of the project improvements. The meetings may be scheduled as frequently as biweekly as acceptable to GWA.

- c. Hold meetings with GWA (at the request of GWA or DCA) to discuss contract administration policies, progress of construction, problems, or any pertinent matters.
- d. Prepare and distribute project correspondence and reports as required for proper management of the construction of project improvements.
- e. Secure and transmit to GWA or the Contractor (whichever is appropriate) required certificates, waivers, affidavits, releases and other pertinent documents.
- f. Prepare a detailed periodic construction status report acceptable to GWA.
- g. Enforce compliance by the contractor with all applicable contract requirements specifically related to the conduct of construction work.
- Set up and maintain a construction filing system acceptable to GWA.
- After acceptance of the construction of improvements, DCA will arrange and turn over to GWA all files and records relevant to project construction.

2. Review and Processing of Payment Estimates

- a. Review monthly payment requests submitted by the contractor to assure that payment estimates are in proper format and reflect actual completed work, and that appropriate sums are retained as required by the contract documents.
- b. Assure that payment estimates show work completed and payment due.
- c. Recommend approval or disapproval of payment of construction pay requests.

3. Processing of Contract Changes:

- a. Notify GWA of conditions during construction or problems with the prosecution of work that may lead to any changes in the cost or completion period. Submit recommendations on how to deal with these potential changes.
- b. Review and evaluate any changes requested by GWA or the contractor and make recommendations on how to deal with the changes.
- c. Estimate the cost of the changes and corresponding adjustments to the contract completion period, negotiate tentatively approved changes with the contractor on behalf of GWA and submit the negotiated change order request to GWA for final approval.
- d. Administer approved change orders and record costs of all change orders.

4. Claims and Disputes

- a. Notify GWA of any conditions during construction or problems in the prosecution of the work that may lead to claims by or a dispute with the contractor and prepare and present recommended solutions for GWA review and analysis.
- b. Review any claims or disputes by the contractor and submit recommendations.

- c. Maintain accurate records of claim facts, materials, labor and equipment.
- d. Assist GWA in settling claims or disputes with the Contractor.

5. Engineering Support

a. Compliance Documents, Shop Drawings & Materials Submittals Review: DCA will review Compliance Documents, Shop Drawings and Material Submittals required by the contract provisions as well as the technical specifications to assure conformance with the intent of the design of improvements and contract documents. Compliance with cited construction standards will be checked.

6. Material or Equipment Substitutions

a. DCA shall notify GWA of equipment or material substitutions proposed by the contractor and recommend approval or disapproval. After approval by GWA, administer the substitutions.

7. Construction Schedule Review

- a. Evaluate the contractor's work schedule and direct the contractor, as appropriate, to make changes if required to assure that the schedule is correct, realistic and shows a sequence of construction work which conforms to the approved contract.
- b. Enforce contractor compliance with the approved schedule as may be updated.
- Have the contractor update or revise his schedule as required during construction of improvements.

8. As-Built /Record Drawings

- a. Assure that the contractor prepares "As-Built" drawings as the work progresses.
- b. Review and approve the as-built drawings for content and accuracy.

Construction Inspection, Quality Control & Close-Out Services

a. Construction Inspection:

- i. Inspect the construction of improvements to assure that work is done according to the construction documents and work schedule. DCA shall provide qualified personnel to properly inspect every phase of the construction of project improvements.
- ii. Strictly enforce all provisions of the contract specifications dealing with the prosecution of work and contractor compliance with local and federal laws.
- iii. Issue stop work orders for a portion of or the entire project as may be required without prior notice to GWA when conditions of work or actions by the contractor threaten the health and safety of the contractor's workers, inspectors or the public or with prior notice to and approval from GWA when actions by the contractor are in violation of the approved construction documents.
- iv. Direct changes to the contractor's operations if needed to minimize inconvenience to and protect the safety of the public as permitted by the specifications.

- Maintain a daily detailed record of the progress of construction work with daily upload to project website.
- vi. Schedule and conduct pre-final and final inspections under each task order with representatives of GWA and others (as appropriate), and record the results in detail.
- vii. Secure written acceptance of the project from appropriate government agencies.
- viii. Periodic inspection will be conducted. Specifically, during major repairs and times where GWA engineering deems it is needed. DCA will at a minimum will provide spot inspections and reports at least twice weekly once and when construction is underway.
- b. Quality Control: The requirements set for the project QA plan will be implemented by all DCA project personnel this also includes:
 - Strictly enforce all provisions of the contract specifications dealing with material testing and quality of workmanship.
 - Schedule, witness and approve or reject as appropriate all tests required to be performed by the contractor and obtain certificates and/or written verification of the test results.
 - iii. Assure that all construction work conforms to the requirements of the construction documents, all applicable codes, and to good construction practices.

c. Survey Control

- i. Check the contractor's layout of project boundaries and work limits.
- ii. Check the accuracy of all work in progress or completed to assure conformance to the contract documents. To this end, DCA will check location and elevations of project Improvements to assure conformance with the intent of the approved construction contract documents. This work is extremely crucial as construction blunders can go unnoticed or undetected if construction check surveys are not conducted.

d. Close Out

- Project Closeout: Upon the completion and GWA acceptance of the construction of improvements, DCA will turn over all record drawings (originals and electronic files), project files and other relevant project documents.
- F. Resident Project Representative (RPR) Services: see above DCA Scope of Services
- G. Other Services: Engineer shall also provide the following services: N/A
- H. All of the services included above comprise Basic Services for purposes of Engineer's compensation under this Task Order.

1. Additional Services					
Addit	ional Services that	may be authorized or necessary under this Task Order are:			
	N/A				

2. Owner's Responsibilities

Owner shall have those responsibilities set forth in Article 2 of the Agreement and in Exhibit B.

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3. Task Order Schedule

In addition to any schedule provisions provided elsewhere, the parties shall meet the following schedule: as specified in the Scope of Work

<u>Party</u>	<u>Action</u>	<u>Schedule</u>
Engineer/CM	Furnish inspection reports to Owner throughout project duration.	Within 390 days of the Effective Date of the Task Order.

I. Payments to Engineer

 Owner shall pay Engineer for services rendered under this Task Order based on the attached approved Task Order No. 4 fee proposal:

Description of Service	Amount	Basis of Compensation	
Construction Management Services			
a. Pre-Construction Services	\$909.36	Lump Sum	
b. Construction Phase	\$71,546.85	Lump Sum	
c. Post Construction Phase	\$2,195.52	Lump Sum	
d. Special Inspections (Electrical)	\$22,102.50	T&M	
TOTAL COMPENSATION (lines .a-d)	\$96,754.22		
	Say \$96,754		

Compensation items and totals based in whole or in part on Hourly Rates or Direct Labor are estimates only. Lump sum amounts and estimated totals included in the breakdown by phases incorporate Engineer's labor, overhead, profit, reimbursable expenses (if any), and Consultants' charges, if any. For lump sum items, Engineer may alter the distribution of compensation between individual phases (line items) to be consistent with services actually rendered, but shall not exceed the total lump sum compensation amount unless approved in writing by the Owner.

- 2. The terms of payment are set forth in Article 4 of the Agreement and in the applicable governing provisions of Exhibit C.
- J. Consultants retained as of the Effective Date of the Task Order: EMCe
- K. Other Modifications to Agreement and Exhibits: None

[Supplement or modify Agreement and Exhibits, if appropriate.]

L. Attachments: Negotiated Fee Proposal

- M. Other Documents Incorporated by Reference:
- N. Terms and Conditions

Execution of this Task Order by Owner and Engineer shall make it subject to the terms and conditions of the Agreement (as modified above), which Agreement is incorporated by this reference. Engineer is authorized to begin performance upon its receipt of a copy of this Task Order signed by Owner.

OWNER:	Guam Waterworks Authority	ENGINEER: D	ueñas, Camacho & Associ	ates, Inc.
Ву:	Minory	Ву:	1/2/	
rint ame:	MIGUEL C. BORDALLO, P.E.	Print Name:	KENNETH M. REKDAHL	, P.E.
tle: _	General Manager	Title:	Vice President	
		Engineer Licer	nse or Firm's . (if required):	No. 252
		State of:	Territory of Guam	
ESIGNAT	TED REPRESENTATIVE FOR TASK ORDER:	DESIGNATED R	EPRESENTATIVE FOR TASK	ORDER:
ime:	Gerald Gattoc	Name:		
	Gerald Gattoc Project Manager	Name:		
le:		- NOTO -		
le:	Project Manager	Title:		
le:	Project Manager Gloria B. Nelson Public Service Bldg.	Title:		
tie: _ idress: vail	Project Manager Gloria B. Nelson Public Service Bldg. 688 Route 15	Title:		
tle: ddress: Mail idress:	Project Manager Gloria B. Nelson Public Service Bldg. 688 Route 15 Mangilao, Guam 96913	Title: Address:		
tle:ddress: Mail ldress:	Project Manager Gloria B. Nelson Public Service Bldg. 688 Route 15 Mangilao, Guam 96913 ggattoc@guamwaterworks.org	Title: Address: E-Mail Address:	TO FORM:	
	Project Manager Gloria B. Nelson Public Service Bldg. 688 Route 15 Mangilao, Guam 96913 ggattoc@guamwaterworks.org 671-300-6047	Title: Address: E-Mail Address: Phone: APPROVED AS	TO FORM:	
itle:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:ddress:	Project Manager Gloria B. Nelson Public Service Bldg. 688 Route 15 Mangilao, Guam 96913 ggattoc@guamwaterworks.org 671-300-6047 FUNDS AVAILABLE:	Title: Address: E-Mail Address: Phone:	5	

Task Order Amount: \$96,754.00 Funding Source: WW 09-01

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This is **EXHIBIT K**, consisting of 2 pages, referred to in and part of the **Agreement between Owner and Engineer for Professional Services**

			dated		
			AMENDMENT TO OWNER-ENGINEER AGREEMENT		
			Amendment No. 1		
Th	The Effective Date of this Amendment is:				
1. Background Data:		ata:			
	a.	Owner:	Guam Waterworks Authority		
	b.	Engineer:	Duenas, Camacho & Associates, Inc.		
G۷		Managem	definite Delivery/Indefinite Quantity (ID/IQ) for Professional Project/Construction ent Services M19-003-BND		
2.	Na	ture of Am	endment: [Check those that are applicable and delete those that are inapplicable.]		
			Additional Services to be performed by Engineer		
			Modifications to services of Engineer		
			Modifications to responsibilities of Owner		
		<u> </u>	Modifications of payment to Engineer		
		<u> </u>	Modifications to time(s) for rendering services		
			Modifications to other terms and conditions of the Agreement		
3.	Des	cription of	Modifications:		
und to (req Floa	ler t Dwn uire: od M	his contract er-Engineer s additional	ct amount was \$750,000. During the contract, GWA identified needs for services that have totaled \$749,410 through three Task Orders (No. 1-3). Amendment No. 1 representation of Agreement is to increase the contract amount to \$846,164. At this time, GWA services to manage and oversee the construction of the Yigo Sewer Pump Station and Facility Rehabilitation as described in Task Order No. 4 in the amount of		
in t	he a	mount of \$!	Io. 1 to the ID/IQ Owner-Engineer Agreement contract will increase contract funding 96,754.00 to allow for Task Order No. 4 to be executed. The total contract amount is, 4 through this Amendment No. 1 to the ID/IQ PM CM.		
Tas	k Or	der No. 4 is	390 days from effective date.		
		Copyright ©	Exhibit K – Amendment to Owner-Engineer Agreement. EICDC® E-500, Agreement Between Owner and Engineer for Professional Services. 2014 National Society of Professional Engineers, American Council of Engineering Companies, and American Society of Civil Engineers. All rights reserved. Page 1.		

Agreement Summary:

a. Original agreement amount: \$750,000.00 b. Net amount for Task Orders (1-3): \$749,410.00

Task Order 1: \$297,077.00 Task Order 2: \$189,729.00 Task Order 3: \$262,604.00

> c. Net change for this amendment to include Task Order 4: \$96,754.00 d. Adjusted Agreement amount:

Change in time for services (days or date, as applicable): _

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

Owner and Engineer hereby agree to modify the above-referenced Agreement as set forth in this Amendment. All provisions of the Agreement not modified by this or previous Amendments remain in effect.

OWNER:	ENGINEER:
Guam Waterworks Authority	Duenas, Camacho & Associates, Inc.
By: Print name: MIGUEL C. BORDALLO, P.E.	By: Print name: KENNETH M. REKDAHL, P.E.
Title: General Manager	Title: Chief of Special Projects
Date Signed:	Date Signed: Ass 4, 2021

CERTIFIED FUNDS AVAILABLE:

APPROVED AS TO FORM:

TALING M. TAITANO, CPA, COFM

GWA General Counsel

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Management Report GWA CCU Work Session, October 19, 2021



GWA Workforce availability as of October 15, 2021

Healthy	351	94.4%
Sick, not COVID-19 related	3	0.8%
COVID-19 Quarantined	11	3.0%
Employee with COVID-19, active case	1	0.3%
Military Leave	3	0.8%
LTD	3	0.8%
	372	100%

	Total	
Healthy/Reporting for duty at worksite	343	92.2%
Healthy/Reporting for duty - Teleworking	7	1.9%
Healthy/Reporting for duty - Part Teleworking and Part Reporting		
for duty at worksite	1	0.3%
Employee with COVID-19, active case	3	0.8%
Employee sick - symptoms unrelated to COVID-19	3	0.8%
Military Leave	5	1.3%
Employee (to be) tested for COVID-19 with results pending	3	0.8%
Employee's direct exposure to a household member with		
symptoms related to COVID-19	1	0.3%
Employee sick - symptoms related to COVID-19	2	0.5%
Employee's direct exposure to a household member - COVID-19		
confirmed case	3	0.8%
LTD/Workers Comp	1	0.3%
	372	100%

GWA Workforce Vaccine Status as of October 15, 2021

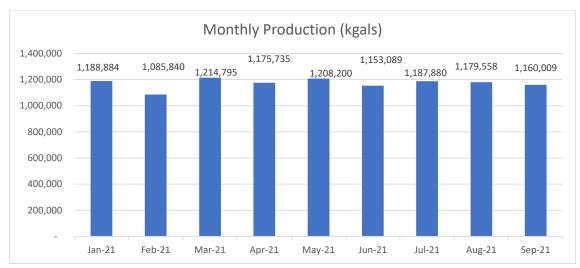
One Shot Remaining	9	2.42%
Fully Vaccinated	325	87.37%
Did Not Receive Shot	38	10.22%
	372	100%

Operations Update

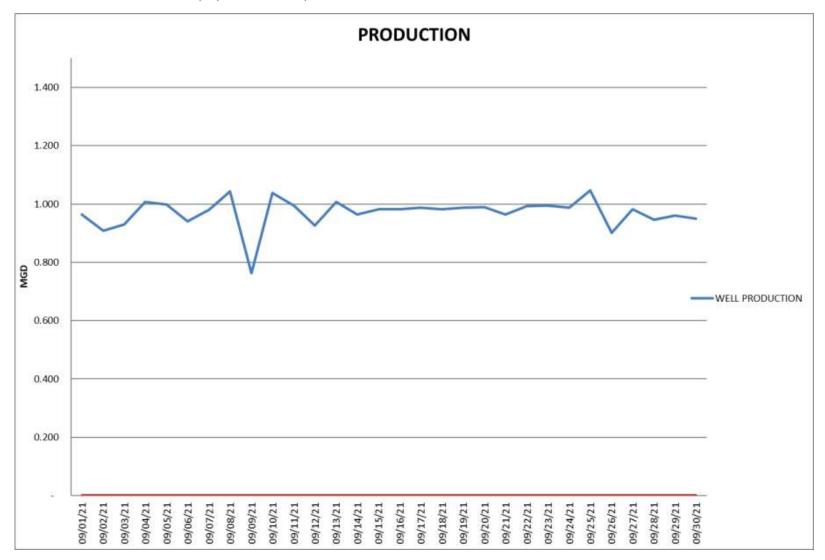
Production (September 2021)

Monthly Production Summary - September 2021								
Deep Wells			35.4	MGD				
Active wells =	89	of 120						
Avg days in operation =	30	days						
Total Production =	1,060,735	Kgals						
Springs			0.26	MGD				
Avg days in operation =	30	days						
Total Production =	7920	Kgals						
Ugum Surface Water Plant			2.1	MGD				
Avg days in operation =	30	days						
Total Production =	62,247	Kgals						
Tumon Maui Well			0.97	MGD				
Avg days in operation =	30	days						
Total Production =	29,107	Kgals						
	1,160,009	Kgals	38.7	MGD				
Total Production = Ugum Surface Water Plant Avg days in operation = Total Production = Tumon Maui Well Avg days in operation =	7920 30 62,247 30 29,107	Kgals days Kgals days Kgals	0.97	MGD				

DW Status as of	9/30/2021	
Active	89	
Grounded Motor, Pump Failure or Temp Secured	15	F03-M12-A26-D01-D03-D18A-D26-F06-F13 Y16-Y20-F15-F07-F02-F04
Out of commission	8	A02-A07-A28-D05-D13-M14-MJ01-MJ05
Temporarily Secured - PFO	2	A23-A25
Standby	6	A29-D02-F10-M17A-Y01-Y02
TOTAL	120	



Tumon Maui Well Production (September 2021)

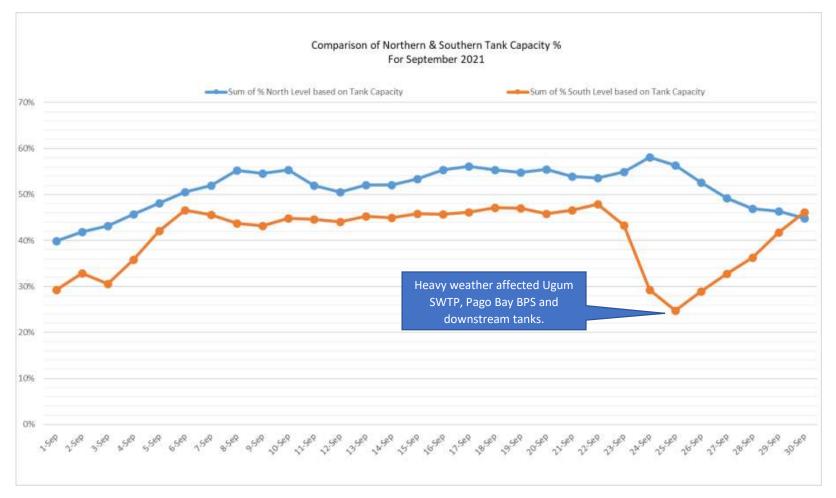


Distribution (September 2021)

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

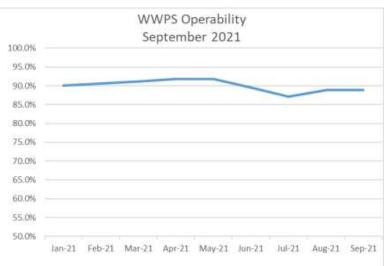


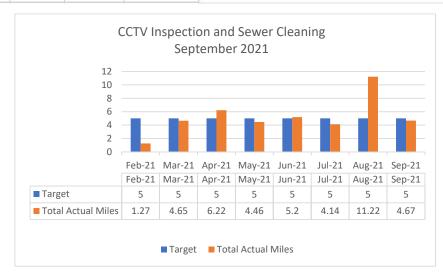
Distribution – Tank Levels (September 2021)



Wastewater Collections (September 2021)

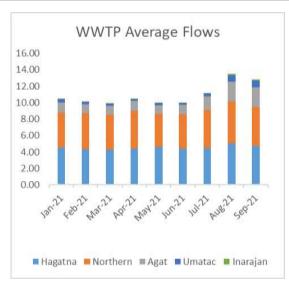
	Monthly Co	llections S	iummary -	September	r 2021		
Nastew	ater Pump S	Stations				100.0%	
	District	No. of Stations	Total Pumps	Pumps Operating	% Operational	95.0% 90.0% 85.0% 80.0% 75.0%	
	Northern	22	52	43	82.7%	70.0% 65.0%	
	Central	29	63	58	92.1%	60.0%	
	Southern	26	56	51	91.1%	55.0% 50.0%	
		77	171	152	88.9%	2000	Jan





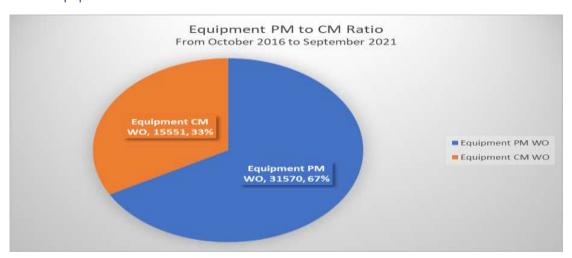
Wastewater Treatment (September 2021)

N	Monthly Wastewater Treatment Summary - September 2021								
WW T	WW Treatment Plants - Flows								
	Facility Avg. Daily Flows Sludge (lbs) (\$)								
	Hagatna	4.78	-	\$ -					
	Northern	4.66	674,200	\$ 60,678					
	Agat	2.44	156,780	\$ 14,110					
	Umatac	0.78							
	Inarajan	0.17							
		12.83	830,980	\$ 74,788					



Asset Management (through September 2021)

I. Equipment Preventive Maintenance to Corrective Maintenance *Ratio*

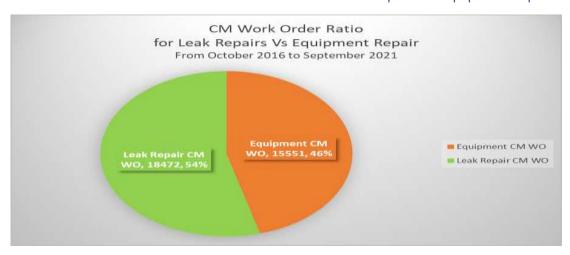


II. Equipment Preventive Maintenance to Corrective Maintenance Work Order Completion



Asset Management (through September 2021)

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



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



One Guam Update (through September 2021)

01-Tumon Maui Well

- Increase production request No update; still being reviewed.
- Next inspection date Wednesday, October 20.

• 02-AG-1 Intertie with Andersen

- o Increase production request –No update; still under review.
- Easement concern Awaiting update.

• 04-OEAProjects

- Observation Wells/NGLA
 - New Wells Contract Status GEPA permit issued; field work has started.
 - BPM-1 No update.

• 06-Strategy/Framework Discussion

- Santa Rosa Intertie No update; still being reviewed.
- o Route 16 Intertie Last update is that this project is being deliberated by Navy. Concern is method on how to be paid and how to facilitate once interconnected. Navy working on a draft of water sales agreement.

• 07-PropertyTransfers

- o Transfer of Navy Laterals at Murray Road to GWA
 - No update from Navy.
 - Temporary (ROE) access for GWA Awaiting approval (as well as for Schoeffel Heights).
- o Transfer of ACEORP
 - No update; hope to have one at next meeting.

One Guam Update (through September 2021)

• 30-Other

- o Umatac / Cetti Bay Easement
 - Will update at next meeting.
- o Easement on Marbo Property for Sewer Line
 - No update.
- o SOP for Wastewater Batch Discharges from DoD to GWA
 - Paul K. will try to complete a rough draft of the SOP by Oct. 15 as busy with fiscal year-end.
- COV-2 Testing Status
 - Paul K. stated the equipment has been ordered and, on its way, so hope to get this month; still in limbo until it arrives. Procurement handled by DPHSS. Sampling terminated because of end of grant.

Court Order Summary (September 2021 – no changes)



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

Court Order – Status Information (September 2021)

- No CO delays due to approval of CO extension.
 - o Final Date to complete CO 29(b) is June 30, 2023.
- Overflow or Bypass events reported to USEPA (for September 2021 up to October 7, 2021):
 - o SSO #474 Sept. 30, 2021 Chalan Pale San Vitores, Tumon FOG
 - o SSO #475 Sept. 30, 2021 Chalan Pale San Vitores, Tumon FOG
 - SSO #476 Sept. 30, 2021 Chagamin Lago, Inalahan PS Controller issues.
 - SSO #483 Oct. 5, 2021 Santos Street, Asan FOG.
 - o SSO #488 Oct. 6, 2021 Chagamin Lago, Inalahan WO #1238087 heavy rain
 - o SSO #493 Oct. 7, 2021 Chalan Kanton Tasi, Merizo Heavy Rain

- o SSO #491 Oct. 7, 2021 386 Joaquin LG Jesus St Asan Backflow into home heavy rain.
- o SSO #485 Oct. 7, 2021 Vietnam Veterans Memorial Highway, Barrigada Heavy Rain
- o SSO #487 Oct. 7, 2021 Serena Ave., Tamuning Heavy Rain
- o SSO #492 Oct. 7, 2021 Onward Beach Hotel, Tamuning –rocks and gravel plus Heavy Rain
- o SSO #486 Oct. 7, 2021 154 G Chalan Kalo, Ordot WO# 1238241 Backflow into home FOG.

Land Acquisition Summary (for September 2021)

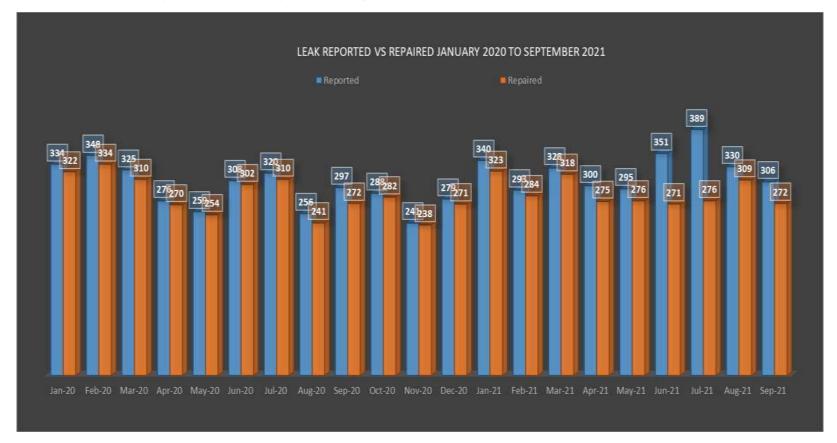
GWA Facility	Location	Gov. or Private Property	Land Acquisition Status
Tanks	Astumbo	Gov't CLTC	Petition of Land Registration package forwarded to Attorney General by DLM 11/04/19. AG pending court filing 06/30/2021. Follow up status sent to DLM 09/02/2021 and 10/06/2021.
	Piti	Private	Received final comments from DoAg. Waiting on the archaeological report before we can submit 299 form. Waiting for permission from NPS to access the lot and perform the Archeological survey.
	Airport	Private	Escrow/Title Service for land acquisition purchase opened 08/27/2021.
Deep Wells	AG-12	Dept. of Agriculture / Manhita Farms	Right of Entry Agreement sent to Dept of AG for signature 05/24/18. 2 nd follow up sent on 09/12/18. 3rd follow up sent on 04/10/19. Retracement Survey Property Map filed and recorded at DLM 7/10/19. DCA submitted parceling map to DLM for review and comments on August 18, 2021, waiting for their review comments. Follow up status email sent to DCA 10/07/2021.
Booster Pump Station	Agfayan	Private	TGE working on structural design for pump station area for L28, B19, T3734, Inalahan 11/07/19. Letter of Decision received by CLTC 06/09/2021.

(Continued on next page)

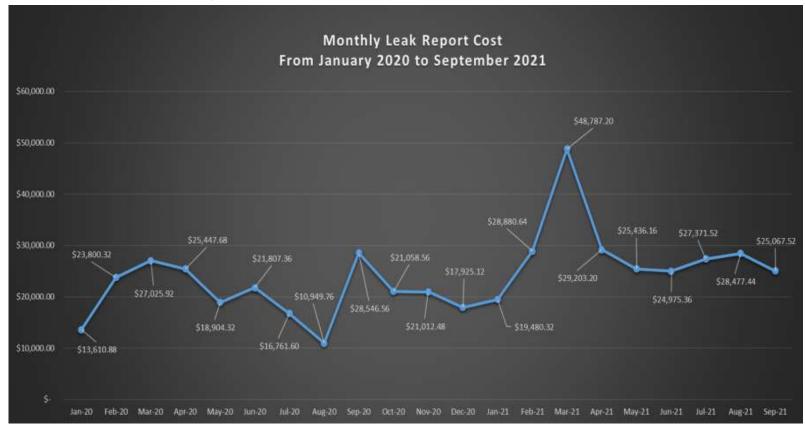
Land Acquisition Summary (for September 2021 – continuation)

GWA Facility	Location	Gov. or Private Property	Land Acquisition Status
Asan Springs	Asan	Federal	In order for NPS to issue a land ROW agreement with GWA, NPS has to complete NEPA first. GWA has HDR under contract to perform this work and an Environmental Assessment (EA) will be developed. The permit for the biological survey was submitted on 6/12/2020 and was signed by NPS on 1/22/2021. Further coordination between NPS and SHPO is pending to determine necessary approach for an archaeological survey. New Chief of Resources for War in the Pacific National Historical Park, Timothy Clark, hired. Replacing Tahzay Jones, who was previously working with us. HDR working with Tim Clark on coordinating things with NPS. Biological Survey: Fieldwork completed, 2/10/2021. Based on a preliminary finding by HDR's biologist they have found snails close to the site, and within NPS proposed ROW, and outside the proposed ROW. Draft report submitted to NPS, 4/1/2021. Comments received from NPS, 6/4/2021. Final Report submitted to NPS, 6/12/2021. NPS submitted Biological Survey to USFWS, 9/28/2021; Requested meeting with USFWS to discuss, waiting on reply.
			 DOAG Environmental Consultation Letter: HDR sent Request letter sent to DOAG (Dep of Ag) on 3/15/2021. GWA followed up with DOAG on 6/25/2021. DOAG responded on 7/1/2021, but did not reach GWA Eng. until 8/4/2021; HDR review response letter and will respond soon. SHPO Letter: Pending archaeological survey requirements from SHPO. SHPO Letter sent to NPS for review, 5/29/2021. Received first comments on letter on 7/1/2021; submitted revised letter on 7/12/2021. Received comments, 8/9/2021. Resubmitted letter to NPS, 9/15/2021; Waiting on NPS to submit to SHPO.

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



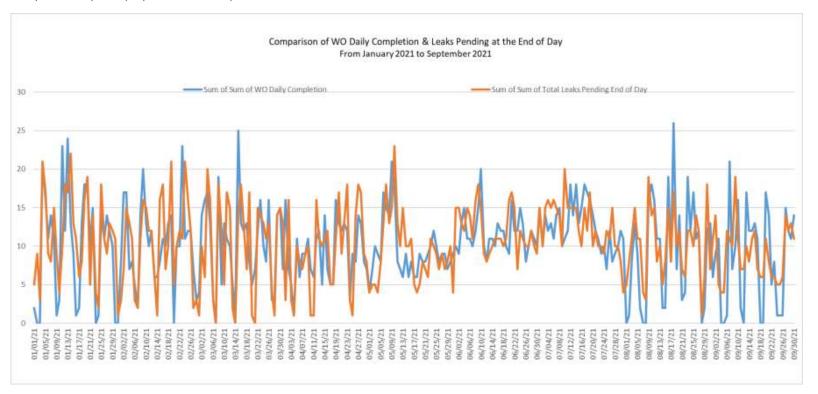
Monthly Leak Report Cost (through September 2021)



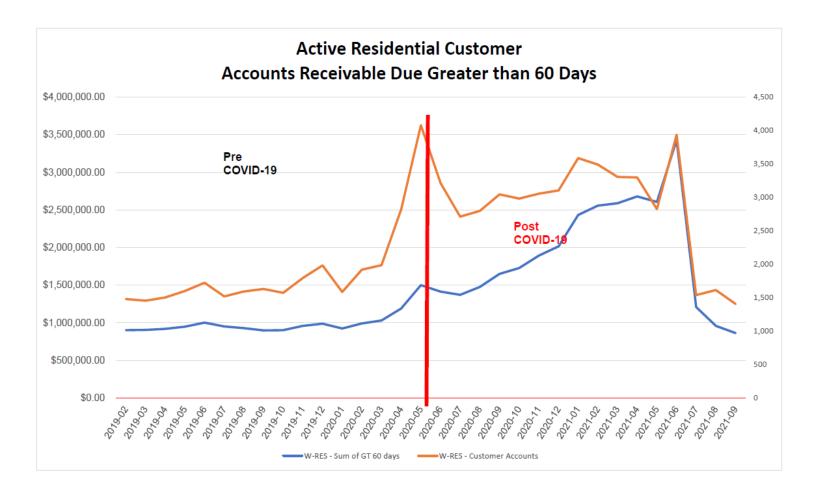
Assumptions:

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

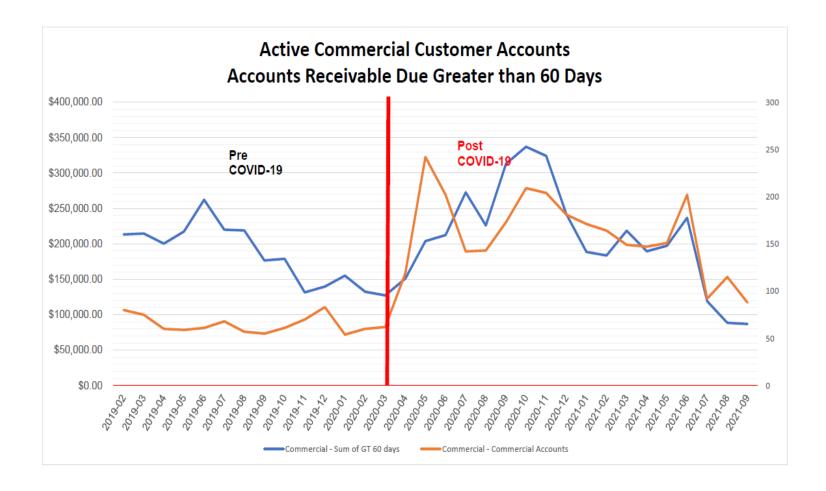
Daily Leak Repairs (September 2021)



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



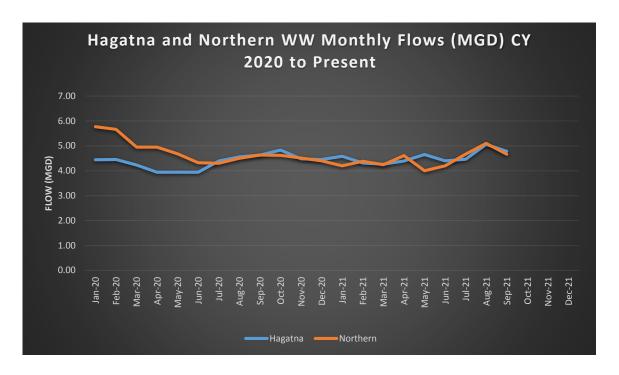
Accounts Receivables Due Greater than 60 Days (through September 2021)

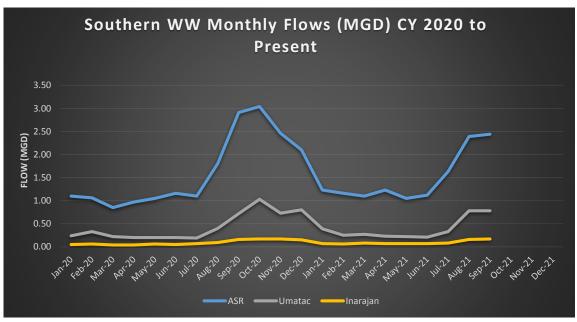


Wastewater Treatment Plant Average Monthy Flows Million Gallons Per Day

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

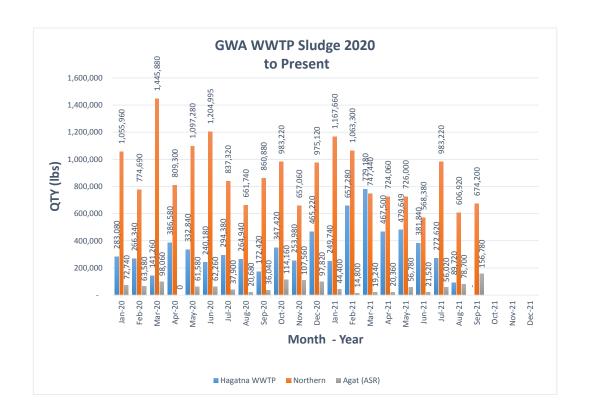
2021	Hagatna	Northern	ASR	Umatac	Inarajan
Jan-21	4.58	4.20	1.23	0.39	0.07
Feb-21	4.31	4.38	1.16	0.25	0.06
Mar-21	4.26	4.24	1.10	0.27	0.08
Apr-21	4.39	4.61	1.23	0.23	0.07
May-21	4.65	4.00	1.05	0.22	0.07
Jun-21	4.40	4.20	1.12	0.21	0.07
Jul-21	4.46	4.67	1.63	0.33	0.08
Aug-21	5.06	5.10	2.39	0.78	0.16
Sep-21	4.78	4.66	2.44	0.78	0.17
Oct-21					
Nov-21					
Dec-21					
2021 Average MGD	4.54	4.45	1.48	0.38	0.09
2021 Total MGY	1,658	1,625	541	140	34

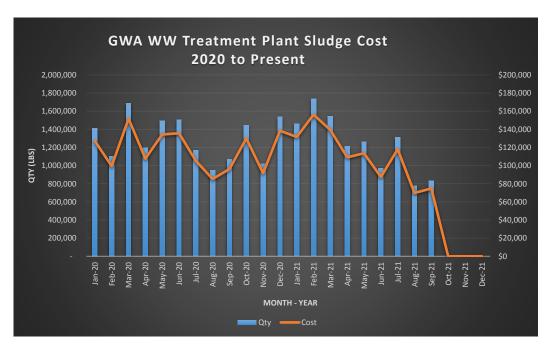




	Hagatn	a WWTP	North	nern	Aga	at (ASR)	Hagatna + Northern + Agat		
2020	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
Month- Yr	lbs	\$	lbs	\$	lbs	\$	lbs	\$	
Jan-20	283,080	\$25,477	1,055,960	\$95,036	72,740	\$6,547	1,411,780	\$127,060	
Feb-20	266,340	\$23,971	774,690	\$69,722	63,580	\$5,722	1,104,610	\$99,415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

	Hagatr	na WWTP	North	nern	Aga	at (ASR)	Hagatna + Northern + Agat			
2021	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost		
Month- Yr	lbs	\$	lbs	\$	lbs	\$	lbs	\$		
Jan-21	249,740	\$22,477	1,167,660	\$105,089	44,400	\$3,996	1,461,800	\$131,562		
Feb-21	657,280	\$59,155	1,063,300	\$95,697	14,800	\$1,332	1,735,380	\$156,184		
Mar-21	779,180	\$70,126	747,440	\$67,270	19,240	\$1,732	1,545,860	\$139,127		
Apr-21	467,500	\$42,075	724,060	\$65,165	20,360	\$1,832	1,211,920	\$109,073		
May-21	479,649	\$43,168	726,000	\$65,340	56,780	\$5,110	1,262,429	\$113,619		
Jun-21	381,840	\$34,366	568,380	\$51,154	21,520	\$1,937	971,740	\$87,457		
Jul-21	272,620	\$24,536	983,220	\$88,490	56,020	\$5,042	1,311,860	\$118,067		
Aug-21	89,720	\$8,075	606,920	\$54,623	78,700	\$7,083	775,340	\$69,781		
Sep-21	-	\$0	674,200	\$60,678	156,780	\$14,110	830,980	\$74,788		
Oct-21		\$0		\$0		\$0	-	\$0		
Nov-21		\$0		\$0		\$0	-	\$0		
Dec-21		\$0		\$0		\$0	-	\$0		
Grand Total	3,377,529	\$303,978	7,261,180	\$653,506	468,600	\$42,174	11,107,309	\$999,658		





GWA Work Session - October 19, 2021 - GM REPORT

Guam Waterwork	Guam Waterworks Authority								
	REVI	EWS							
TOTAL PUMPS INSTALLED	171	OVERAL AVERAG	BE .	89%					
TOTAL PUMPS OPERATIONAL	152	% OF OPERATING PI	JMPS	89%					
TOTAL PLIMP STATIONS	77								



WASTEWATER FACILITIES REPORT

North	ern District												
NO:	FACILITY	PRIORITY LISTED	NO OF INSTALLED PUMPS	NO OF OPERATIONAL PUMPS	PUMP AVAILABILITY %	GENERATOR OPERATIONAL FAULT	ATS MANUAL/AUTO	PUMP UNIT REMARKS	WORK ORDER NO:	VALVES, ELECTRICAL,STRUCTURAL REMARKS	WORK ORDER NO:	ESTIMATED REPAIR DATE	UPDATES
1	SOUTHERN LINK	1	4	3	75%	GPA	А	P#4: Needs Sensor @ Guam Motor		VFD#4: Awaiting Repairs		Pending new pumps which are part of the Northern Treatment Plant upgrades	
2	FUJITA	1	4	3	75%	GPA	А	P#2 was removed 10-29-20 due to bearings issues. Pump at vendor pending repairs.				vendor is pending order for mechanical seal.	
3	YPAO	1	2	2	100%	GPA	A						
4	PASEO DE ORO	1	2	1	50%	GPA	А	pump#1 removed and dropped to vendor for repairs due to defective mechanical seal as per electrician.	WO 1133294				PO500216
5	HARMON	2	2	1	50%	GPA	A	pump #2 was removed and dropped to vendor for repairs due to burnt motor	WO 1111348				PO 500238
6	ROUTE 16	1	4	3	75%	GPA	М	P#3 secured due to damaged wear plate and defective check valve.					OR 50082 check valve OR 50487 wear plate
7	LATTE DOUBLE TROUBLE	1	2	2	100%	GPA	A						
8	LATTE SUN RISE	2	2	2	100%	GPA	А						
9	LATTE SUBMARINE	2	2	2	100%	GPA	А						
10	LATTE PLANTATION	2	2	2	100%	GPA	А						
11	PGD	2	2	2	100%	GPA	А	Pump #1 was removed due to bearing issue					
12	MACHECHE	2	2	1	50%	GPA	А						
13	HAFA ADAI	2	2	1	50%	GPA	A	P2 removed due to water in the pump.	WO 1133763				PO 500312
14	YPAOPAO	1	3	2	67%	GPA	N/A	9-2-21, Pump #3 was removed due to pump was grounded.	WO 1228469				Pending OR
15	PACIFIC LATTE	2	2	2	100%	GPA	A						
16	YIGO	1	3	3	100%	GPA	А	Pump #3 on standby. No data plate to confirm FLA.					
17	ZERO DOWN	2	2	2	100%	GPA	А						
18	SANTA ANA	2	2	2	100%	GPA	А						
19	MACHANAONAO	1	2	2	100%	GPA	N/A						
20	FEMA 96	2	2	2	100%	GPA	А						
21	ASTUMBO 1	2	2	1	50%	GPA	А	Pump #2 was removed due to winding issues	WO 1222814				OR 50940 (pending PO)
22	ASTUMBO 2	2	2	2	100%	GPA	А						
Total	22		52	43	83%			<u> </u>		<u></u>			

GWA Work Session - October 19, 2021 - GM REPORT

Centr	al District												
NO:	FACILITY	PRIORITY LISTED	NO OF INSTALLED PUMPS	NO OF OPERATIONAL PUMPS	PUMP AVAILABILITY %	GENERATOR OPERATIONAL FAULT	ATS MANUAL/ AUTO	PUMP UNIT REMARKS	WORK ORDER NO:	VALVES, ELECTRICAL,STRUCTURAL REMARKS	WORK ORDER NO:	ESTIMATED REPAIR DATE	UPDATES
1	CABRAS ISLAND	1	2	2	100%	Portable	М						
2	COMMERCIAL PORT	1	3	3	100%	OP	А	P# 3 pump works, Standby					
3	PITI	1	2	2	100%	GPA	А						
4	ASAN	1	2	2	100%	GPA	А						
5	SINAJANA	2	2	2	100%	GPA	А						
6	NEW CHAOT	1	3	2	67%	OP	А	Pump #1 was secured due to water was found in pothead. Motor needs to be rebaked and seals need to be changed out.	WO #1235764				
7	ORDOT	2	2	2	100%	OP	А						
8	DERO	1	2	2	100%	OP	А						
9	CHALAN PAGO #5	2	2	2	100%	OP	А						
10	CHALAN PAGO #3	2	2	2	100%	OP	А						
11	FLORA GARDENS	2	2	2	100%	INOP	А						
12	DOUBLE SHAFT	1	3	2	67%	OP	А	Pump 2 removed due to impeller broke/Shaft worn				Bid was awarded to JMI. ETA date 4/1/22	
13	NAMU	2	1	1	100%	OP	А						
14	TAI MANGILAO	1	3	3	100%	GPA	А						
15	MANGILAO	1	2	2	100%	GPA	А			Sump pump burnt and the breaker is damaged			
16	FIDIAN	2	2	2	100%	GPA	А	Pump #1 is secured due to oring on duct foot keeps coming out.					
17	LEYANG	2	2	1	50%	OP	А	Pump #2 was removed due to seal failure.	WO 1103623				OR 50968 (pending Po
18	SAGAN BONITA 1	2	2	2	100%	OP	А						
19	SAGAN BONITA 2	2	2	2	100%	OP	А						
20	DAIRY	1	2	2	100%	INOP	А						
21	BARRIGADA	1	2	2	100%	GPA	А	Pump #1 has bearing issue. Pump is still online until PO is released.					PO500339
22	TOTO GARDENS	2	2	2	100%	INOP	А						
23	MONGMONG	2	2	2	100%	OP	А						
24	CASIMERU	2	2	2	100%	Portable	А			GPA RELOCATED GENERATOR			
25	MAITE	2	2	1	50%	GPA	А	Compressor # 2 leaking removed by maint. Pending installation of new compressor.	WO 1233984				
26	BAYSIDE	2	1	1	100%	INOP	А						
27	ALUPANG	1	2	2	100%	OP	А						
28	MAMAJANAO	1	3	3	100%	OP	А						
29	Agana Main	1	4	3	75%	OP	А	P4 is on Line # 2 /awaiting line 4 riser to be cleaned					
Total	29		63	58	92%								

GWA Work Session - October 19, 2021 - GM REPORT

South	nern District												
NO:	FACILITY	PRIORITY LISTED	NO OF INSTALLED PUMPS	NO OF OPERATIONAL PUMPS	PUMP AVAILABILITY %	GENERATOR OPERATIONAL FAULT	ATS MANUAL/AUTO	PUMP UNIT REMARKS	WORK ORDER NO:	VALVES, ELECTRICAL, STRUCTURAL REMARKS	WORK ORDER NO:	ESTIMATED REPAIR DATE	UPDATES
1	GAAN #1	1	4	2	50%	OP	MAN	Pump#2 was removed and taken to vendor due to seal failure. Pump #4 was returned to vendor due to low megger and seal failure (pump is still under warranty). Pump #5 was removed and brought to vendor due to motor grounded.	#2- WO 1222521 #4 -WO 1133299 #5-WO 1222257	#2/#5 VFDs are defective due to burnt IGBT and power cards. Currently using VFD from ASRWWTP on #2.			P#4 (PO 500215) P#2 PO 500428 P#5 PO 500391 VFDs (OR 50790 pending OQ)
2	PUMP STATION #11	2	2	2	100%	INOP	AUTO						
3	PUMP STATION #12	1	2	2	100%	OP	AUTO						
4	PUMP STATION #14	2	2	2	100%	OP	AUTO			Pumps are alternated weekly			
5	PUMP STATION #15	1	2	2	100%	INOP	AUTO			Pump #1 defective hourly meter.	20-05-1208		Generator Secured By GPA 4/18/20 due to Oi Leak.
6	PUMP STATION #16	2	2	2	100%	OP	AUTO						
7	PUMP STATION #17	2	2	2	100%	OP	AUTO						
8	PUMP STATION #18	2	2	2	100%	OP	AUTO						
9	INARAJAN MAIN	1	2	2	100%	OP	AUTO	pump #1 was removed due to cable issue. Pump also needs rewounding. New Pump was installed.	WO 1178582				OR 50782 pending OQ
10	INARAJAN LIFT	1	2	2	100%	OP	AUTO						
11	TALAFOFO	1	2	2	100%	OP	AUTO	1-17-20 Electricians determined that the sump pump is grounded and was recommended to be replaced. Entered work order into Lucity requesting maintenance to replace.	SUMP PUMP 20-01-073	6-6-19 Exhaust blower for wet well is defective and needs replacement. Requested for electricians to relocate the existing blower unit at the old Agat treatment plant wet well and install it at Talofofo.		OQ 37914 & 37915 was submitted for replacement of blower fans and ventilation duct.	Sump pumps OR 50370 (pending OQ)
12	PAGACHAO	2	2	2	100%	NONE	NA						
13	CHALIGAN	2	2	2	100%	OP	MAN			Requesting for electricians to make assessments to ventilation system to make it operational.	(Vent- 19-12- 0390)	12-23-19 Fred is working on getting a lift to be able to go to the roof top to make assessments on the motor.	
14	EJECTOR #2	2	2	2	100%	PORTABLE /INOP	NA						
15	EJECTOR #3	2	2	2	100%	PORTABLE /INOP	NA						
16	EJECTOR #4	2	2	2	100%	PORTABLE /INOP	NA						
17	EJECTOR #5	2	2	1	50%	PORTABLE/INOP	NA	11-13-20 Compressor #1 was removed and to be used at Ejector 7 for compressor #1. Compressor was installed but pending motor installation.					
18	EJECTOR #6	2	2	2	100%	PORTABLE/INOP	NA						
19	EJECTOR #7	2	2	2	100%	PORTABLE/INOP	NA						
20	NORTH REYES	2	2	2	100%	PORTABLE/INOP	NA						
21	LEYON #3 (DanDan)	2	2	2	100%	OP	MAN						
22	LEYON #4	2	2	2	100%	OP	AUTO						
23	MTL PUMP STATION	2	1	1	100%	PORTABLE/INOP	NA						
24	Baza P/S	1	3	2	67%	OP	AUTO	Unit on #1 was removed and transported to vendor for repairs due to bearing issues.	WO 1227176				PO 500426
25	Windward Hills	1	3	2	67%	OP	AUTO	Pump #1 was secured due to check valve leaking. (Defective seat)					OR 50482 (Pending OQ)
26	Aplacho	1	3	3	100%	OP	AUTO						
	26		56	51	91%								
		<u>_</u>											



Guam Waterworks Authority

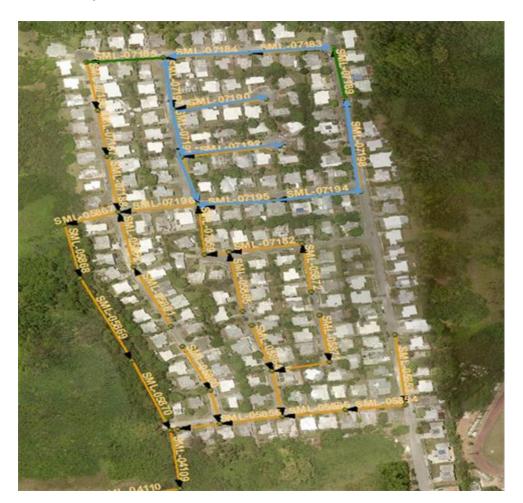
VEHICLE FLEET STATUS 10/1/2021

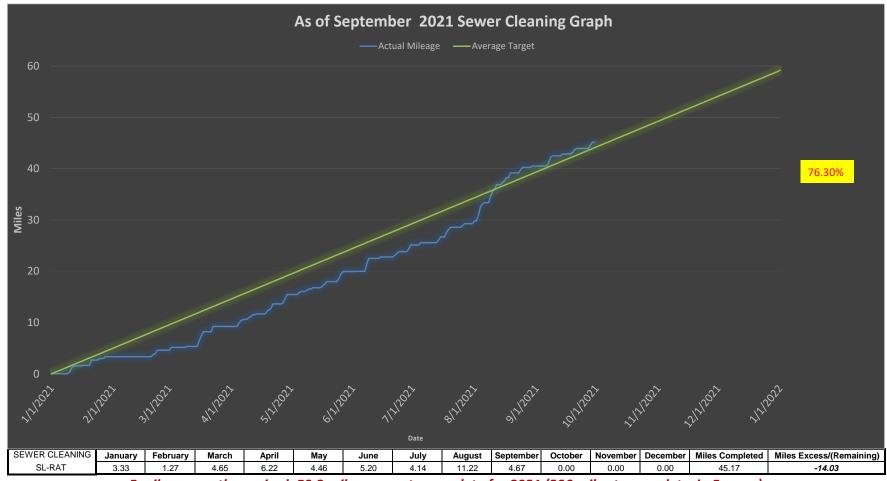
	EQUIP	MENT STA	ATUS		SUMMARY								
Description	Number of Equipment	Number of Equipment	Number of Equipment Not	Percentage	Operational	Operational w/Rprs Pending	Not in Operation- Accident (Docs	Not in Operation- Assessment Pending	Not in Operation- Repairs Pending	Not in Operation- Vendor Repairs	Recommend Survey		
Backhoe (Leased)	3	3	0	100%	3	0	0	0	0	0	0		
Dump Truck (Leased)	3	3	0	100%	3	0	0	0	0	0	0		
Trailer (Leased)	3	3	0	100%	3	0	0	0	0	0	0		
Backhoe	3	1	2	33%	0	1	0	0	1	1	0		
Boom Truck	1	0	1	0%	0	0	0	0	0	1	0		
Crane	1	1	0	100%	0	1	0	0	0	0	0		
Dump Truck	1	1	0	100%	1	0	0	0	0	0	0		
Forklift	5	3	2	60%	2	1	0	0	2	0	0		
Fuel Tanker	1	1	0	100%	1	0	0	0	0	0	0		
Heavy Duty	12	10	2	83%	10	0	0	1	0	1	0		
Hoist Rig	1	1	0	100%	1	0	0	0	0	0	0		
Jetter	1	1	0	100%	1	0	0	0	0	0	0		
Light	143	115	28	80%	110	5	1	3	11	8	5		
Mini Backhoe	4	2	2	50%	2	0	0	0	0	0	2		
Pumper Truck	1	0	1	0%	0	0	0	0	0	1	0		
Skidster	1	0	1	0%	0	0	0	0	1	0	0		
Sludge Truck	5	3	2	60%	3	0	0	0	1	1	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	16	13	3	81%	13	0	0	0	3	0	0		
Trencher	1	0	1	0%	0	0	0	0	1	0	0		
Vacuum Truck	5	4	1	80%	2	2	0	0	0	1	0		
Water Buffalo	2	2	0	100%	2	0	0	0	0	0	0		
Water Tanker	6	4	2	67%	3	1	0	0	0	2	0		
Compressor	1	1	0	100%	1	0	0	0	0	0	0		
Total	223	175	48		163	12	1	4	20	16	7		

Agat Village



Hyundai Santa Rita





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

59.2 miles x 5 years = 296 miles
296 miles / 5yrs = 59.2 miles a year required to be completed
59.2 miles /12 months = 4.93 miles a month required to be completed
4.92 miles x 5,280 = 25,977.6ft. / 4 weeks = 6,494.4ft. Per week reqired to be completed
6,494.4ft / 5 days = 1,298.8ft required to be completed daily

Guam Waterworks Authority	Date: 10/1/2021 Time:										
REVIEWS TOTAL PUMPS INSTALLED 55 OVERAL A TOTAL PUMPS OPERATIONAL 52 % OF OPERAT TOTAL BOOSTER PUMP STATIONS 27	• • • • • • • • • • • • • • • • • • • •	WATER DISTRIBUTION FACILITIES REPORT									

No	rthern Distric	ct											
NO:	FACILITY	PUMP HP	NO OF INSTALLED PUMPS	NO OF OPERATIONAL PUMPS	PUMP AVAILABILITY %	GENERATOR OPERATIONAL FAULT	ATS MANUAL/AUTO	PUMP UNIT REMARKS	WORK ORDER NO:	VALVES, ELECTRICAL,STRUCTURAL REMARKS	WORK ORDER NO:	ESTIMATED REPAIR DATE	PUMP AND MOTOR INVENTORY
	Yigo	30	3	3	100%	OP	A						
	Gayinero	20	2	2	100%	OP	A						
	Mataguac	25	2	2	100%	OP	A						
4	Santa Rosa	15	2	2	100%	OP	A						
5	Hyundai	40	2	1	50%	OP	Α	1-29-21 work still ongoing with upgrading		Electrical wires being upgraded.			
	Chln. Palauan	5	2	2	100%	N/A							
	Access	60	2	2	100%	OP	A						
8	Agana Heights	30	3	3	100%		A						
9	Nimitz Hill	7.5	2	2	100%	N/A							
	Adawag	1.5	1	1	100%	N/A							
	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 = 13		26	25	96%					·			
										·			, and the second se
numi	o availability =no of	operational pur	mps/no of pumps	*100%	1		1			·			

Ce	Central District												
NO:	FACILITY	PUMP HP	NO OF INSTALLED PUMPS	NO OF OPERATIONAL PUMPS	PUMP AVAILABILITY %	GENERATOR OPERATIONAL FAULT	ATS MANUAL/AUTO		WORK ORDER NO:	VALVES, ELECTRICAL,STRUCTURAL REMARKS	WORK ORDER NO:	ESTIMATED REPAIR DATE	UPDATES
	Pago	150 / 100	3	2	67%	0P	А	Pump 3 shaft repaired. Pump 1 VFD showing ground fault.					
2	Brigade	60 / 20	3	3	100%	OP	A						
3	Windward Hills	200 / 75	3	2	67%	OP	A	Pump 3 pending mechanical seals and rebuild kit. 10-1-21					
4	Santa Rita Spring	40	2	2	100%	OP	A						
	Santa Ana (Lower)	25	1	1	100%	N/A		1-29-21 Renovation of station started. One pump remains in service during this period. 10-1-21 Renovation still ongoing.					
6	Camacho	1	1	1	100%	N/A							
7	Tenorio	1.5	1	1	100%	N/A							
	Total=7		14	12	86%								
num	p availability =no of o	operational pur	mps/no of pumps	*100%									

So	outhern District												
NO:		PUMP HP	NO OF INSTALLED PUMPS	NO OF OPERATIONAL PUMPS	PUMP AVAILABILITY %	GENERATOR OPERATIONAL FAULT	ATS MANUAL/AUTO	PUMP UNIT REMARKS	WORK ORDER NO:	VALVES, ELECTRICAL,STRUCTURAL REMARKS	WORK ORDER NO:	ESTIMATED REPAIR DATE	UPDATES
	Malojloj Line	125 / 50	3	3	100%	OP	A						
2	Geus	25	1	1	100%	OP	A						
	Pigua	7.5	2	2	100%	N/A							
4	Toguan	25	2	2	100%	OP	A						
	WBP-2	25	2	2	100%	OP	A						
6	WBP-1	5	2	2	100%	OP	A						
7	Malojloj Elevated	15	3	3	100%	OP	A						
	Total=7		15	15	100%								
pum	p availability =no of	operational pur	mps/no of pumps	s*100%									



Engineering Monthly Report October 2021

Prepared By:

Brett E. Railey, P.E. Acting Chief Engineer

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

Potable Water

CIP#	CIP Description	2016 Bond Allotment	% Encumbered	% Available	2020 Bond Allotment	% Encumbered	% Available
PW 05-01	Ground Water Disinfection	\$ -	N/A	N/A	\$ -	N/A	N/A
	Santa Rita Springs Booster Pump Rehab Phase II	\$ -	N/A		\$ -	N/A	N/A
	"A Series Well Transmission Line	\$ -	N/A		\$ -	N/A	N/A
PW 05-06	Water Booster Pump Station	\$ - \$ 1,400,000,00	N/A		\$ 700,000.00	0.00% N/A	100.00%
	Meter Replacement Program Barrigada Tank Repair/Replacement	\$ 1,400,000.00	100.00% N/A	0.00% N/A	\$ - \$ -	N/A N/A	N/A N/A
PW 05-09	Leak Detection	\$ 100,000.00	0.00%	100.00%	\$ 400,000.00	0.00%	100.00%
	Potable Water System Planning	\$ 876,294.00	99.99%	0.01%	\$ 400,000.00	0.00%	100.00%
PW 05-11	Implement Ground Water Rule	\$ -	N/A	N/A	\$ -	N/A	N/A
	Brigade II (Ugum Lift) BPS Upgrade	\$ -	N/A	N/A	\$ -	N/A	N/A
	Deep Well Rehabilitation	\$ 250,000.00	44.01%	55.99%	\$ 350,000.00	0.00%	100.00%
	New Deep Wells at Down Hard Rehabilitation of Asan Springs	\$ 1,190,000.00 \$ -	0.00% N/A		\$ 500,000.00 \$ 550,000.00	0.00% 0.00%	100.00% 100.00%
	Master Meters	\$ 2,151,539.00	90.70%	9.30%	\$ 550,000.00 \$ -	0.00% N/A	N/A
	Ugum Water Treatment Plant Intake	\$ -	N/A	N/A	\$ 600,000.00	0.00%	100.00%
	Water Wells	\$ 2,500,000.00	6.80%	93.20%	\$ 500,000.00	0.00%	100.00%
	Water Distribution System	\$ -	N/A	N/A	\$ 2,250,000.00	100.00%	0.00%
	Pressure Zone Realignment	\$ 1,141,000.00	100.00%	0.00%	\$ -	N/A	N/A
	Central Water Distribution System 2005	\$ -	N/A	N/A	\$ -	N/A	N/A
	Mechanical/Electrical Equipment	\$ -	N/A		\$ -	N/A	N/A
	Water Reservoir Internal/External Water Reservoir Internal/External	\$ - \$ 800,000.00	N/A 100.00%	N/A 0.00%	\$ - \$ -	N/A N/A	N/A N/A
	Water System Reservoirs 2005 Improvements	\$ 58,830,170.00	97.73%	2.27%	\$ 25,900,000.00	0.00%	100.00%
	Distribution System Upgrades	\$ -	N/A	N/A	\$ -	N/A	N/A
	Ugum Water Treatment Plant Reservoir	\$ -	N/A	N/A	\$ 7,500,000.00	0.00%	100.00%
	Water Audit Program & Water Loss Control Plan	\$ 550,000.00	100.00%	0.00%	\$ -	N/A	N/A
	Production Plan / Reduce Navy Purchases	\$ -	N/A	N/A	\$ -	N/A	N/A
	Hydraulic Assessment of Tanks	\$ -	N/A	N/A	\$ -	N/A	N/A
	Agana Heights & Chaot Tanks	\$ 1,220,000.00	100.00%	0.00%	\$ -	N/A	N/A
	Tank Major Repair Yigo #1, Mangilao #2, Astumbo#1 Tank Replacement Piti & Hyundai	\$ 1,822,133.00 \$ 7,300,000.00	100.00% 100.00%	0.00%	\$ 6,500,000.00	N/A 0.00%	N/A 100.00%
	Assessment of Malojloj Elevated & Yigo Elevated	\$ 7,300,000.00	N/A	0.00% N/A	\$ -	0.00% N/A	N/A
	Public Water System Asset Inventory/ Condition Assessment	\$ -	N/A	N/A	\$ -	N/A	N/A
	Public Water System GIS & Mapping	\$ -	N/A	N/A	\$ -	N/A	N/A
PW 14-01 F	Fire Hydrant Replacement Program	\$ 1,200,000.00	99.70%	0.30%	\$ -	N/A	N/A
	Astumbo Zone Piping				\$ -	N/A	N/A
	Route 1 Astumbo Zone Piping				\$ -	N/A N/A	N/A N/A
	Harmon Cliffline Piping to Route 1 Hyundai Well Piping				\$ - \$ 500,000.00	0.00%	100.00%
	Kaiser Zone Looping				\$ 300,000.00	0.00%	100.00%
	Mangilao Pressure Zone Realignment				\$ 300,000.00	0.00%	100.00%
	Mataguac BPS Suction Piping				\$ 500,000.00	0.00%	100.00%
MP-PW-Pipe-08	Nimitz Lower BPS Piping				\$ -	N/A	N/A
MP-PW-Pipe-09	Yigo, Santa Rosa Zone Realignment				\$ -	N/A	N/A
	Miscellaneous Piping Projects Miscellaneous Piping Connections				\$ 200,000.00 \$ 200,000.00	0.00% 0.00%	100.00% 100.00%
	Rehabilitation and Replacement Program				\$ 2,000,000.00	12.79%	87.21%
	2-Inch Pipe Replacement Program				\$ 3,330,000.00	0.00%	100.00%
	Asbestos Cement Pipe Replacement Program				\$ -	N/A	N/A
MP-PW-Pipe-15	PRV Rehab and Replacement				\$ 2,050,000.00	0.00%	100.00%
	Valve Exercise, Repair, and Replacement Program				\$ 250,000.00	0.00%	100.00%
	Cross Island Highway Piping				\$ 100,000.00	0.00%	100.00%
	Existing Tank Inspections Recurring Tank Inspections				\$ 150,000.00 \$ 400,000.00	0.00% 0.00%	100.00% 100.00%
	Recurring Tank Inspections Rehabilitate and Replace BPSs				\$ 409,000.00	0.00%	100.00%
	Nimitz Hill Upper BPS				\$ 48,000.00	0.00%	100.00%
MP-PW-BPS-03	Route 15 BPS				\$ -	N/A	N/A
MP-PW-SWTP-01	Ugum SWTP River Intake Cleaning Project				\$ 380,000.00	0.00%	100.00%
	Ugum SWTP Intake Modifications				\$ 1,174,000.00	0.00%	100.00%
	Ugum SWTP Reliability Improvements				\$ 1,150,000.00	22.84%	77.16%
	Ugum SWTP 7-Year Improvement Project				\$ 3,600,000.00	N/A 0.00%	N/A 100.00%
	Well Rehabilitation Program Well Equipment Overhaul Program				\$ 3,000,000.00	0.00% N/A	100.00% N/A
	Capacity Enhancement – Well Exploration Program				\$ 500,000.00	0.00%	100.00%
	Capacity Enhancement – Well Development and Construction				\$ -	N/A	N/A
MP-PW-Well-05	Wellhead Protection Program				\$ 300,000.00	0.00%	100.00%
MP-PW-Well-06	Well Repair Program				\$ 1,200,000.00	0.00%	100.00%
	South Guam Water Supply Study				\$ 100,000.00	0.00%	100.00%
	Master Meter Implementation and Ongoing Meter Replacement				\$ 750,000.00	0.00%	100.00%
	Hydrant Condition Assessment and Maintenance OneGuam Program				\$ - \$ 100,000.00	N/A 0.00%	N/A 100.00%
	Leak Detection Assistance				\$ 150,000.00	0.00%	100.00%
					¢ .	N/A	N/A
DoD-3	Rehabilitation and New NGLA Monitoring Wells	\$ 81,331,136.00			\$ 66,291,000.00	IN/A	19/75

Wastewater

WW 0561			2016 Bond			2020 Bond		
WW 0507	CIP#	CIP Description	Allotment	% Encumbered	% Available	Allotment	% Encumbered	% Available
WW 05-01								
WW 09-09			\$ - ¢			\$ -		
WW 0566			\$ 1.714.755.00			\$ 1,050,000,00		
WW 0.600								
WW 11-05	WW 09-08	Facilities Plan/Design for Baza Gardens WWTP		N/A	N/A			N/A
WW 1-60	WW 09-10	Facilities Plan/Design for Agat-Santa Rita WWTP	\$ -					N/A
WW 1-1-06								
WWI 1520 Societies Management Plan						7		
WW 12-02								
WW 12-05								
WW 12-02 SS SSES Confined S	WW 12-03							N/A
WW 12-07 Unitarial Metrico Replacement \$ 0.052371.6 9.09.09 0.11% \$ - NA NA WV WV 12-07 Unitarial Metrico Replacement \$ 0.052371.6 9.09.09 0.11% \$ - NA NA WV WV 12-08 Waterloader System Gils & Mapping \$ - NA NA \$ - NA NA WV WV 12-09 Waterloader System Gils & Mapping \$ - NA NA \$ - NA NA WV WV 12-09 Waterloader System Gils & Mapping \$ - NA NA NA \$ - NA NA WV WV 12-09 Waterloader System Gils & Mapping \$ - NA NA NA \$ - NA NA WV WV 12-09 Waterloader Sever System Expansion \$ - NA NA NA \$ - NA NA WV VV 12-09 Waterloader Sever System Expansion \$ - NA NA NA \$ - NA NA WV VV 12-09 Waterloader Sever System Expansion \$ - NA NA NA \$ - NA NA WV VV 12-09 Waterloader Sever System Expansion \$ - NA NA NA \$ - NA NA WV VV 12-09 Waterloader Sever System Expansion \$ - NA NA NA \$ - NA NA WV VV 12-09 Waterloader Sever System Expansion \$ - NA NA NA \$ - NA NA WV VV 12-09 Waterloader Sever System Expansion \$ - NA NA NA \$ - NA NA WV VV 12-09 Waterloader Sever System Expansion \$ - NA NA WV VV 12-09 Waterloader Sever System Expansion \$ - NA NA WV VV 12-09 Waterloader Sever System Expansion \$ - NA NA WV VV 12-09 Waterloader Sever System Expansion \$ - NA NA WV VV 12-09 Waterloader Sever System Expansion \$ - NA WV VV VV 12-09 Waterloader Sever System Expansion \$ - NA WV VV	WW 12-04		\$ -					N/A
Will 12-07	WW 12-05	I&I SSES Central	\$ -	N/A	N/A	\$ -	N/A	N/A
WILLIAM Wastewater System Gis & Mapping S								N/A
Wild 19-00 Wasteward Facility Back Up Power S			\$ 20,952,871.63					N/A
WILLIA Wasteward Eyelem Asset Imentory S								
With 17-01 Materwater Sever System Expansion S								
WWY-17-22						9 -		
MP-WWP-Pipe-01 Grawly Pipe Rehabilitation/Replacement Program \$ 1,970,000.00 0.00% 100.00% MP-WWP-Pipe-03 Sarrigada Pump Station Pipe Rehabilitation/Replacement \$ 94,000.00 0.00% 100.00% MP-WWP-Pipe-05 Route 1 Pile Pipe Rehabilitation/Replacement \$ 94,000.00 0.00% 100.00% MP-WWP-Pipe-05 Agran Heights Pipe Replacement \$ 9,000.00 0.00% 100.00% MP-WWP-Pipe-05 Agran Heights Pipe Replacement Phase 1 \$ 9,000.00 0.00% 100.00% MP-WWP-Pipe-05 Agran Heights Pipe Replacement Phase 2 \$ 9,000.00 0.00% MW-WWP-Pipe-05 MW-WWP-WWP-Pipe-05 MW-WWP-WWP-Pipe-05 MW-WWP-Pipe-05 MW-WWP-WWP-Pipe-05 MW-WWP-WWP-Pipe-05 MW-WWP-WWP-Pipe-05 MW-WWP-WWP-Pipe-05 MW-WWP-WWP-Pipe-05 MW-WWP-WWP-Pipe-05 MW-WWP-WWP-Pipe-05 MW-WWP-WWP-Pipe-05 MW-WWP-WWP-Pipe-05 MW-WWW-Pipe-05	WW 17-01 WW 17-02					s -		
MP-WWP-Ppc-02			· ·	IN/A	14/7			
MP-WWP-Pipe-03 Route 1 Pit Pipe Rehabilitation/Replacement \$ 3,94,000.00 0.00% 100.00% 100.00% MP-WWP-Pipe-05 Again Heights Pipe Replacement \$ 3 -	MP-WW-Pipe-02					\$ -		N/A
MF-WW-Pipe-05 Agana Heights Pipe Replacement - Phase 1 S - NA NA NA NA NA-WW-Pipe-07 Northern District Route I Capacity Replacement - Phase 2 S - NA NA NA NA NA-WW-Pipe-07 Northern District Route I Capacity Replacement - Phase 2 S - NA	MP-WW-Pipe-03					\$ 940,000.00	0.00%	100.00%
MP-WWP-Pg-06	MP-WW-Pipe-04							100.00%
MP-WW-Ppe-07	MP-WW-Pipe-05							N/A
MP-WW-Ppe-08 Northern District Route 1 Capacity Replacement - Phase 3 S - NNA N/W-WW-Ppe-09 North Dedeot Capacity Replacement - Phase 2 S - NNA N/W-W-Ppe-10 North Dedeot Capacity Replacement - Phase 2 S - NNA N/W-W-Ppe-12 Burrigada Capacity Replacement North Power Ppe-12 S - NNA N/W-W-Ppe-12 Burrigada Capacity Replacement S - NNA N/W-W-Ppe-13 Burrigada Capacity Replacement S - NNA N/W-W-Ppe-14 Dedeot Capacity Replacement S - NNA N/W-W-Ppe-17 Narnajanac Capacity Replacement S - NNA N/W-W-Ppe-17 Narnajanac Capacity Replacement Phase 1 S - NNA N/W-W-Ppe-19 Agai-Sarta Rtta Capacity Replacement - Phase 2 S - NNA N/W-W-Ppe-19 Agai-Sarta Rtta Capacity Replacement - Phase 3 S - NNA N/W-W-Ppe-19 Agai-Sarta Rtta Capacity Replacement - Phase 3 S - NNA N/W-W-Ppe-19 Saza Cardena Capacity Replacement - Phase 3 S - NNA N/W-W-Ppe-19 Saza Cardena Capacity Replacement - Phase 3 S - NNA N/W-W-Ppe-19 Saza Cardena Capacity Replacement - Phase 3 S - NNA N/W-W-Ppe-21 Saza Cardena Capacity Replacement - Phase 3 S - NNA N/W-W-Ppe-21 Saza Cardena Capacity Replacement - Phase 3 S - NNA N/W-W-Ppe-21 Saza Cardena Capacity Replacement - Phase 3 S - NNA N/W-W-Ppe-21 Saza Cardena Capacity Replacement - Phase 3 S - NNA N/W-W-Ppe-21 Saza Cardena Capacity Replacement - Phase 3 S - NNA N/W-W-Ppe-21 Saza Cardena Capacity Replacement - Phase 3 S - NNA N/W-W-Ppe-21 Saza Cardena Capacity Replacement - Phase 3 S - NNA N/W-W-Ppe-21 Saza Cardena Capacity Replacement - Phase 3 S - NNA N/W-W-Ppe-21 Saza Cardena Capacity Replacement - Phase 3 S - NNA N/W-W-Ppe-21 Saza Cardena Capacity Replacement - Phase 3 S - NNA N/W-W-Ppe-21 Saza Cardena Capacity Replacement - Phase 3 S - NNA N/W-W-PPE-								N/A
MP-WW-Ppe-09	MP-WW-Pipe-07	Northern District Route 1 Capacity Replacement - Phase 2						
MP-WW-Pipe-10		Northern District Route 1 Capacity Replacement - Phase 3						
MP-WW-Pipe-11 Route 16 Capacity Replacement								
MP-WW-Pipe-12 Barrigada Capacity Replacement S - NA NV								N/A
MP-WW-Pipe-13								
MP-WW-Pipe-14 Dedeo Capacity Replacement S - NA N/W-WW-Pipe-17 Manajana Capacity Replacement S - NA N/W-WW-Pipe-17 Manajana Capacity Replacement - Phase 1 S - NA N/W-WW-Pipe-18 Agat-Sarta Rita Capacity Replacement - Phase 2 S - NA N/W-WW-Pipe-19 Agat-Sarta Rita Capacity Replacement - Phase 2 S - NA N/W-WW-Pipe-19 Agat-Sarta Rita Capacity Replacement - Phase 2 S - NA N/W-WW-Pipe-19 Agat-Sarta Rita Capacity Replacement - Phase 2 S - NA N/W-WW-Pipe-21 Baza Gardenc Capacity Replacement - Phase 3 S - NA N/W-WW-Pipe-21 Baza Gardenc Capacity Replacement - Phase 1 S - NA N/W-WW-Pipe-22 Baza Gardenc Capacity Replacement - Phase 3 S - NA N/W-WW-Pipe-22 Baza Gardenc Capacity Replacement - Phase 3 S - NA N/W-WW-Pipe-24 Baza Gardenc Capacity Replacement - Phase 3 S - NA N/W-WW-Pipe-24 Baza Gardenc Capacity Replacement - Phase 3 S - NA N/W-WW-Pipe-24 Baza Gardenc Capacity Replacement - Phase 3 S - NA N/W-WW-Pipe-24 Baza Gardenc Capacity Replacement - Phase 3 S - NA N/W-WW-Pipe-24 Umata-Merizo Capacity Replacement - Phase 3 S - NA N/W-WW-Pipe-25 Baza Gardenc Capacity Replacement - Phase 3 S - NA N/W-WW-Pipe-25 Umata-Merizo Capacity Replacement - Phase 3 S - NA N/W-WW-Pipe-26 Umata-Merizo Capacity Replacement - Phase 3 S - NA N/W-WW-Pipe-26 Piping New Bayide Lift Station S - NA N/W-WW-Pipe-26 Finite Drive Rehabilitation - Agat S - NA N/W-WW-Pipe-26 Finite Drive Rehabilitation - Agat S - NA N/W-WW-Pipe-26 Finite Drive Rehabilitation - Agat S - NA N/W-WW-Pipe-26 Finite Drive Rehabilitation - Agat S - NA N/W-WW-Pipe-26 Finite Drive Rehabilitation - Agat S - NA N/W-WW-Pipe-26 Finite Drive Rehabilitation - Agat S - NA N/W-WW-Pipe-26 Finite Drive Rehabilitation - Agat S - NA N/W-WW-Pipe-26 Finite Drive Rehabilitation - Agat S - NA N/W-WW-Pipe-26 Finite Drive Rehabilitation - Agat S - NA N/W-WW-Pipe-26 Finite Drive Rehabilitation - Agat S - NA N/W-WW-Pipe-26 Finite Drive Rehabilitation - Agat S - NA N/W-WW-Pip	MP-WW-Pipe-13							N/A
MP-WW-Pipe-17	MP-WW-Pipe-14						N/A	N/A
MP-WW-Pipe-18 Agait-Santa Rita Capacity Replacement - Phase 1 S - N/A N/W-PW-Pipe-29 Agait-Santa Rita Capacity Replacement - Phase 2 S - N/A N/W-PW-Pipe-20 Agait-Santa Rita Capacity Replacement - Phase 3 S - N/A N/W-PW-Pipe-21 Agait-Santa Rita Capacity Replacement - Phase 1 S - N/A N/W-PW-Pipe-21 Baza Garderis Capacity Replacement - Phase 2 S - N/A N/W-PW-Pipe-23 Baza Garderis Capacity Replacement - Phase 2 S - N/A N/W-PW-Pipe-23 Baza Garderis Capacity Replacement - Phase 2 S - N/A N/W-PW-Pipe-23 Baza Garderis Capacity Replacement - Phase 3 S - N/A N/W-PW-Pipe-23 Baza Garderis Capacity Replacement - Phase 3 S - N/A N/W-PW-Pipe-24 Umata-d-Metric Capacity Replacement Phase 3 S - N/A N/W-PW-Pipe-25 Piping Near Bayside Lill Station S - N/A N/W-PW-Pipe-26 Piping Near Bayside Lill Station S - N/A N/W-PW-Pipe-27 Piping Near Bayside Lill Station S - N/A N/W-PW-Pipe-27 Piping Near Bayside Lill Station S - N/A N/W-PW-Pipe-27 Septic/Cesspool System Reduction Program S 350,000,00 0,00% 100,00% MP-WW-Pipe-27 Septic/Cesspool System Reduction Program S 350,000,00 0,00% 100,00% MP-WW-Pipe-27 Septic/Cesspool System Reduction Program S 350,000,00 0,00% 100,00% MP-WW-Pipe-27 Septic/Cesspool System Reduction Program S 350,000,00 0,00% 100,00% MP-WW-Pipe-27 Replace Viping Lill Station Force Main S 200,000,00 0,00% 100,00% MP-WW-Pipe-27 Replace Viping Lill Station Force Main S 200,000,00 0,00% 100,00% MP-WW-Pipe-27 Replace Viping Lill Station Rehabilitation/Replacement S 2,124,000,00 0,00% 100,00% MP-WW-Pipe-27 Replace Viping Lill Station Rehabilitation/Replacement S 2,124,000,00 0,00% 100,00% MP-WW-Pipe-27 Replace Viping Lill Station Rehabilitation/Replacement S 2,000,000 0,00% 100,00% MP-WW-Pipe-27 Replace Viping Lill Station Rehabilitation/Replacement S 2,000,000 0,00% 100,00% MP-WW-Pipe-27 Replace Viping Lill Station Rehabilitation/Replacement S 2,000,000 0,000 0,00% 100,00% MP-WW-Pi								N/A
MP-WW-Pipe-19 Agat-Santa Rita Capacity Replacement - Phase 2 \$. N/A N/W NW-WW-Pipe-21 Agat-Santa Rita Capacity Replacement - Phase 3 \$. N/A N/W NW-WW-Pipe-22 Baza Gardens Capacity Replacement - Phase 1 \$. N/A N/W NW-WW-Pipe-23 Baza Gardens Capacity Replacement - Phase 2 \$. N/A N/W NW-WW-Pipe-24 \$. N/A N/W NW-WW-Pipe-25 Baza Gardens Capacity Replacement - Phase 2 \$. N/A N/W NW-WW-Pipe-26 Baza Gardens Capacity Replacement - Phase 2 \$. N/A N/W NW-WW-Pipe-26 Baza Gardens Capacity Replacement - Phase 2 \$. N/A N/W NW-WW-Pipe-26 Baza Gardens Capacity Replacement N/W NW-WW-Pipe-27 Piping Near Bayside Lift Station \$. N/A N/W NW-WW-Pipe-28 Baza Gardens Capacity Replacement N/W NW-WW-Pipe-29 Piping Near Bayside Lift Station \$. N/A N/W NW-WW-Pipe-27 Piping Near Bayside Lift Station \$. N/A N/W NW-WW-Pipe-27 Piping Near Bayside Lift Station \$. N/A N/W NW-WW-Pipe-27 Septic/Cespool System Reduction Program \$. 350,000.00								
MP-WW-Pipe-20 Baza Gardens Capacity Replacement - Phase 3 \$. N/A N/A N/A N/W-PWW-Pipe-21 Baza Gardens Capacity Replacement - Phase 1 \$. N/A N/A N/A N/W-PWW-Pipe-22 Baza Gardens Capacity Replacement - Phase 2 \$. N/A N/A N/W-PWW-Pipe-23 Baza Gardens Capacity Replacement - Phase 3 \$. N/A N/A N/W-PWW-Pipe-24 Umatac-Metrizo Capacity Replacement - Phase 3 \$. N/A N/W-PWW-Pipe-25 Baza Gardens Capacity Replacement - Phase 3 \$. N/A N/W-PWW-Pipe-26 Baza Gardens Capacity Replacement - Phase 3 \$. N/A N/W-PWW-Pipe-27 Piping Near Bayside Lift Station \$. N/A N/W-PWW-Pipe-28 Piping Near Bayside Lift Station \$. N/A N/W-PWW-Pipe-29 Piping Near Bayside Lift Station \$. N/A N/W-PWW-Pipe-27 \$. N/A N/W-PWW-Pipe-28 \$. N/A N/W-PWW-Pipe-29 \$. N/A N/W-PWW								
MP-WW-Pipe-21 Baza Gardens Capacity Replacement - Phase 1 S								
MP-WW-Pipe-22 Baza Gardens Capacity Replacement - Phase 2 S - N/A N/W-Pipe-23 Baza Gardens Capacity Replacement - Phase 3 S - N/A N/W-Pipe-25 Baza Gardens Capacity Replacement - Phase 3 S - N/A N/W-Pipe-25 Baza Gardens Capacity Replacement S - N/A N/W-Pipe-26 S - N/A N/W-Pipe-26 S - N/A N/W-Pipe-27 S - N/								
MP-WW-Pipe-23								
MP-WW-Pipe-24 Umatac-Merizo Capacity Replacement S - N/A N// N// N-WP-Pipe-25 Piping Near Bayside Lift Station S 813,000.00 0.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 10								N/A
MP-WW-Pipe-25	MP-WW-Pipe-24					\$ -	N/A	N/A
MP-WW-Pipe-27 Septic/Cesspool System Reduction Program S 350,000.00 0.00% 100,00% MP-WW-Pipe-10 Mantole Rehabilitation Program S 350,000.00 0.00% 100,00% MP-WW-FM-01 Force Main Rehabilitation/Replacement Program S 100,000.00 0.00% 100,00% MP-WW-FM-02 Replace Vigo Lift Station Force Main S 200,000.00 0.00% 100,00% 100,00% MP-WW-FM-03 Replace Vigo Lift Station Force Main Rehabilitation/Replacement S 2124,000.00 0.00% 100,00% MP-WW-PM-04 Replating WWTP Force Main Rehabilitation/Replacement S 6,600,000.00 0.00% 100,00% MP-WW-PM-04 Lift Station Rehabilitation/Replacement Program S 8,320,000.00 0.00% 100,00% MP-WW-Pump-02 Lift Station Rehabilitation/Replacement Program S 8,320,000.00 0.00% 100,00% MP-WW-Pump-02 Tumon Basin - Fujita Lift Station Analysis S 9,600,000.00 0.00% 100,00% MP-WW-Pump-03 Replacement of Former Naw Pump Station (Dont Hole) S 1,301,000.00 0.00% 100,00% MP-WW-WWTP-01 Hagatifa WWTP Primary Treatment Repair/Rehabilitation Program S - N/A	MP-WW-Pipe-25						N/A	N/A
MP-WW-MH-01								100.00%
MP-WW-FM-01 Force Main Rehabilitation/Replacement Program \$ 100,000.00 0.00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00%								
MP-WW-FM-02 Replace Yigo Lift Station Force Main S 200,000,00 0.00% 100,00% 100,00% MP-WW-FM-03 Route 1 Asan Force Main Rehabilitation/Replacement S 2,124,000,00 0.00% 100,00% MP-WW-Pump-01 Lift Station Rehabilitation/Replacement Program S 6,600,000,00 0.00% 100,00% MP-WW-Pump-01 Lift Station Rehabilitation/Replacement Program S 8,320,000,00 0.00% 100,00% MP-WW-Pump-02 Tumon Basin F- Lift Latt Station Analysis S 9,600,000,00 0.00% 100,00% MP-WW-Pump-03 Replacement of Former Naw Pump Station (Donut Hole) S 1,301,000.00 0.00% 100,00% MP-WW-WWTP-04 Hagatifa WWTP Fendary Treatment Repair/Rehabilitation Program S N/A N/4								
MP-WW-FM-03 Route 1 Asan Force Main Rehabilitation/Replacement \$ 2,124,000.00 0.00% 100.00% 100.00% MP-WW-FM-04 Hagátha WWTP Force Main Rehabilitation/Replacement \$ 6,600.000.00 0.00% 100.00% 100.00% MP-WW-Pump-01 Lift Station Rehabilitation/Replacement Program \$ 3,820,000.00 0.00% 100.00% 100.00% MP-WW-Pump-02 Tumon Basin - Fujita Lift Station Analysis \$ 9,600.000.00 0.00% 100.00% 100.00% MP-WW-Pump-03 Replacement of Former Naw Pump Station (Donut Hole) \$ 9,600.000.00 0.00% 100.00% MP-WW-PumP-04 Replacement of Former Naw Pump Station (Donut Hole) \$ 1,301.000.00 0.00% 100.00% MP-WW-WWTP-04 Hagátha WWTP Primary Treatment Repair/Rehabilitation Program \$ 1,000.00% MP-WW-WWTP-04 Hagátha WWTP Secondary Treatment Upgrade \$ - N/A								
MP-WW-Pump-01								
MP-WW-Purp-01 Lis Station Rehabilitation/Replacement Program \$ 8,320,000.00 0.00% 100.00%						\$ 6,600,000,00		
MP-WW-Pump-02 Tumon Basin - Fujita Lift Station Analysis	MP-WW-Pump-01					\$ 8,320,000.00		100.00%
MP-WW-WWTP-01 Hagátha WWTP primary Treatment Repair/Rehabilitation Program S - N/A	MP-WW-Pump-02							100.00%
MP-WW-WWTP-02 Hagátha WWTP Secondary Treatment Upgrade	MP-WW-Pump-03	Replacement of Former Navy Pump Station (Donut Hole)				\$ 1,301,000.00	0.00%	100.00%
MP-WW-WWTP-03 Inarajan WWTP Repair(Rehabilitation Program S - N/A N/A N/A WWTP-04 Pago Socio WWTP Pump Station Conversion S - N/A	MP-WW-WWTP-01							N/A
MP-WW-WWTP-05 Aga Socio WWTP Pump Station Conversion S - N/A N/A N/WWTP-05 Undata-Merizo WWTP Repair/Rehabilitation Program S - N/A N/A N/WWTP-05 Maga-Santa Rita WWTP Repair/Rehabilitation Program S - N/A N/A N/WP-WW-WWTP-06 Agat-Santa Rita WWTP Repair/Rehabilitation Program S - N/A N/W N/WTP-07 S - N/A N/W N/WTP-0								N/A
MP-WW-WWTP-05 Umatac-Merizo WWTP Repair/Rehabilitation Program S - N/A N/A N/A N/WWTP-05 Agat-Santa Rita WWTP Repair/Rehabilitation Program S - N/A N/A N/A N/WWTP-05 Agat-Santa Rita WWTP Repair/Rehabilitation Program S - N/A N/A N/A N/WWTP-05 Agat-Santa Rita WWTP Repair/Rehabilitation Program S - N/A N/A N/WWTP-05 Baza Gardens Cross Island Pipeline - Preliminary Treatment S - N/A N/A N/WWTP-05 S - N/A N/W								
MP-WW-WWTP-06 Agat-Santa Rita WWTP Repair/Rehabilitation Program \$. N/A N//								
MP-WW-WWTP-07 Baza Gardens Cross Island Pipeline - Preliminary Treatment Equipment Repair and Rehabilitation Program \$ 7,500,000.00 31.02% 68.98% MP-WW-WWTP-09 Ocean Outfall Inspection Program \$ 100,000.00 0.00% 100.00% MP-WW-Misc-01B Update Wastewater Collection System Model (Major Update) \$ 50,000.00 0.00% 100.00% MP-WW-Misc-02 Update Wastewater Collection System Model (Continued) \$ 50,000.00 0.00% 100.00% MP-WW-Misc-02 Update Wastewater Collection System Model (Continued) \$ 50,000.00 0.00% 100.00% MP-WW-Misc-02 Update Wastewater Collection System Model (Continued) \$ 50,000.00 0.00% 100.00% MP-WW-Misc-04 Size S Assessments \$ 50,000.00 0.00% 100.00% MP-WW-W-Misc-04 Size S Assessments \$ 50,000.00 0.00% 100.00%								N/A N/A
Equipment Repair and Rehabilitation Program	MP-WW-WWTP-07							N/A
MP-WW-WWTP-08 Northern District WWTP Completion \$ 7,500,000.00 31.02% 68.98% MP-WW-WWTP-09 Ocean Outfall Inspection Program \$ 100,000.00 0.00% 100.00% MP-WW-Misc-012 Update Wastewater Collection System Model (Major Update) \$ 5.000.00 0.00% 100.00% MP-WW-Misc-02 II Update Wastewater Collection System Model (Continued) \$ 50,000.00 0.00% 100.00% MP-WW-Misc-03 Miscellaneous Wastewater Improvements \$ 50,000.00 0.00% 100.00% MP-WW-Misc-04 Fats, Oils, and Grease Study \$ 50,000.00 0.00% 100.00% DoD-01 NDWWTP Secondary Treatment Capacity 12MGD \$ - N/A N/A N/A Northern Systems Wastewater System \$ - N/A N/A N/A		Equipment Repair and Rehabilitation Program						
MP-WW-Misc-01A Update Wastewater Collection System Model (Major Update) \$ - N/A N/A MP-WW-Misc-01B Update Wastewater Collection System Model (Continued) \$ 50,000.00 0.00% 100.00% MP-WW-Misc-02 If and SSES Assessments \$ 50,000.00 0.00% 100.00% MP-WW-Misc-03 Miscellaneous Wastewater Improvements \$ 50,000.00 0.00% 100.00% MP-WW-Misc-04 Fats, Oils, and Grease Study \$ 50,000.00 0.00% 100.00% DoD-01 NDWWTP Secondary Treatment Capacity 12MGD \$ - N/A N/A N/A DoD-02 Northern Systems Wastewater System \$ - N/A N/A	MP-WW-WWTP-08	Northern District WWTP Completion						
MP-WW-Misc-01B Update Wastewater Collection System Model (Continued) \$ 50,000.00 0.00% 100.00% MP-WW-Misc-02 If and SSES Assessments \$ 50,000.00 0.00% 100.00% MP-WW-Misc-03 Miscellaneous Wastewater Improvements \$ 500,000.00 0.00% 100.00% MP-WW-Misc-04 Fats, Oils, and Grease Study \$ 50,000.00 0.00% 100.00% DoD-01 NDWWTP Secondary Treatment Capacity 12MGD \$ - N/A N/A N/A DoD-02 Northern Systems Wastewater System \$ - N/A N/A								100.00%
MP-WW-Misc-02 I/I and SSES Assessments \$ 50,000.00 0.00% 100.00% MP-WW-Misc-03 Miscellaneous Wastewater Improvements \$ 500,000.00 0.00% 100.00% MP-WW-Misc-04 Fats, Oils, and Grease Study \$ 50,000.00 0.00% 100.00% DoD-01 NDWWTP Secondary Treatment Capacity 12MGD \$ 50,000.00 N/A N/A DoD-02 Northern Systems Wastewater System \$ - N/A N/A	MP-WW-Misc-01A							N/A
MP-WW-Misc-03 Miscellaneous Wastewater Improvements \$ 500,000.00 0.00% 100.00% MP-WW-Misc-04 Fats, Oils, and Grease Study \$ 50,000.00 0.00% 100.00% DoD-01 NDWWTP Secondary Treatment Capacity 12MGD \$ 5 - N/A N/A DoD-02 Northern Systems Wastewater System \$ 5 - N/A N/A								
MP-WW-Misc-04 Fats, Oils, and Grease Study \$ 50,000.00 0.00% 100.00% DoD-01 NIDWWTP Secondary Treatment Capacity 12MGD \$ - NIA NI/A DoD-02 Northern Systems Wasstewater System \$ - NIA NI/A								
DoD-01 NDWWTP Secondary Treatment Capacity 12MGD \$ - N/A N/A DoD-02 Northern Systems Wastewater System \$ - N/A N/A								
DoD-02 Northern Systems Wastewater System \$ - N/A N/A								100.00% N/A
								N/A
		,	\$ 51,563,374.19					

Electrical Engineering Support

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

Miscellaneous Engineering Support

CIP#	CIP Description	2016 Bond Allotment	% Encumbered	% Available	2020 Bond Allotment	% Encumbered	% Available
MC 05-01	Laboratory Modernization	\$ 1,127,000.00	100.00%	0.00%	\$ -	N/A	N/A
MC 05-02	Land Survey	\$ 1,260,524.00	99.35%	0.65%	\$ -	N/A	N/A
MC 09-01	General Plant Improvements	\$ 1,543,760.00	77.39%	22.61%	\$ -	N/A	N/A
MC 15-01	Information Technology Intergration Improvements	\$ 664,412.00	78.85%	21.15%	\$ -	N/A	N/A
MP-Gen-Misc-01	GWA Systems Planning				\$ 550,000.00	30.22%	69.78%
MP-Gen-Misc-02A	WRMP Update (Comprehensive Update)				\$ -	N/A	N/A
MP-Gen-Misc-02B	WRMP Update (Interim Update)				\$ 200,000.00	0.00%	100.00%
MP-Gen-Misc-03	Surveying and Property Delineation				\$ 250,000.00	0.00%	100.00%
MP-Gen-Misc-04	Information Technology Improvements				\$ 1,650,000.00	82.80%	17.20%
MP-Gen-Misc-05	GWA Infrastructure Improvements				\$ 2,500,000.00	4.59%	95.41%
MP-Gen-Misc-06	GPWA Fleet Maintenance Facility				\$ 500,000.00	0.00%	100.00%
MP-Gen-Misc-07	Mobile Equipment Replacement Program				\$ 800,000.00	0.00%	100.00%
MP-Gen-Misc-08	General Plant Improvements				\$ 1,000,000.00	0.00%	100.00%
MP-Gen-Misc-09	Security and Resilience Program				\$ 200,000.00	0.00%	100.00%
		\$ 4,595,696.00			\$ 7,650,000.00		

		2016 Bond	
			Allotment
CIP Water		\$	81,331,136
CIP Wastewater	1	\$	51,563,374
CIP Electrical	1	\$	5,455,615
CIP Miscellaneous	1	\$	4,595,696
		\$	142,945,821

2020 Bond
Allotment
\$ 66,291,000
\$ 44,989,000
\$ 4,570,000
\$ 7,650,000
\$ 123 500 000

Bond Fund	Construction Fund Amount	Estimated # months fun	d		% of fund used	Rate of Spending: (\$M)			
i dila	(\$M)	available for u	ıse	date (\$M)***		per year			
2005	\$82.930	82	*	\$82.930	100.00%	12.14			
2010	\$87.656	128	**	\$84.418	96.31%	7.91			
2013	\$140.819	90	*	\$136.929	97.24%	18.26			
2016	\$142.946	60	**	\$132.399	92.62%	26.48			
2020	\$123.590	15	**	\$6.923	5.60%	5.54			
	* Fed data Newsches 2012 via COLL Provintion OC EV2014								

^{*} End date November 2013 via CCU Resolution 06-FY2014
** Includes month of September 2021
*** Includes Expenses Only

B. Projects Procurement

Percentage Key:

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

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

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

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

RFP PW 09-02 <50% Complete	New Well Construction (Construction Management) Activities/Notes: SOW being developed	
Project Description:	The work performed under this project procureme Construction Management and Inspection Service of up to three (3) new production wells for GWA. increase source water production to improve syste allows for operating the water production wells mo overall goal of the Construction Manager (CM) is a construction process so that the project can be deprofessionally.	es for the construction GWA plans to em redundancy that ore effectively. The to manage the entire

RFP USEPA	Design of Fujita Sewage Pump Station Redundant Force Main	
<90% Complete	Activities/Notes: Negotiating fee proposal with the selected firm.	
Project Description:	The work to be performed under this project procu of identifying redundant force main options and pr the selected option. After the redundant force mai operation, investigate the condition of the original determine if repair, relocation, or replacement is n ensure force main redundancy. Identify options ar for the selected option, including potential use of 0 pump station upgrades.	ovide the design for n is placed in 14-inch force main to leeded in order to and provide the design

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

Project Description:	Work to be performed under this project consist of rehabilitating four (4)
	existing production well sites including development, testing and
	permitting of a new production well.

		I
BID PACKAGE	Deep Well Power Line Conditioner Pilot	
EE 09-02, EE 09-05	Project	
MP-PW-WELL-06		
<50% Complete	Activities/Notes:	
	Review and revisions of the design-build bid document still ongoing.	
	Lighting System specifications being updated to incorporate energy efficient lighting systems.	
	Preliminary design plans being updated to incorporate further details and some changes.	
	This bid will use the design-build bid templates under development for a different project to maintain uniformity and avoid duplication of work.	
Project Description:	The project is a pilot project to install and evaluate the effectiveness of a power line conditioner for providing "clean" incoming power for a GWA deep well. Evaluation includes transient and surge protection and suppression, under/over voltage correction and protection, phase imbalance correction and protection, and capital and operation costs/savings.	

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

C. CIP Water Section

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

DESIGN PW 05-12	Brigade II BPS Upgrade (EM Chen)	Start Date: April 2012
100% Complete (Basis of Design) 99% Complete (Design)	Activities/Notes: Design specifications submitted for review on 09/29/2021. Updated design drawings are still pending.	Completion Date: TBD
	Last follow up sent to Alan Chen on 09/29.	
N/A	Engineering design services	
Project Description:	The design project is intended to assess system water supply feed from the north as well as Ugum WTP and the water demands downstream from the Brigade BPS so as to reconfigure the piping into the BPS and resize the pumps to me system head requirements.	

DESIGN	Northern and Southern Guam Reservoir	Start Date:
PW 09-11	Design (TG Engineers)	May 2015
90% Complete	Activities/Notes: Ugum Reservoir	Completion Date: Completion will be in line with construction
	Design is at 90%. Designer is working towards 100%.	completion.
	TGE submitted cost for new instrumentation building and continuation of meetings. Engineering to discuss and negotiate change order cost.	
	Instrumentation building was requested by Ron Topasna. New building to house chlorine analyzers and TOCs equipment. Current location at bps is too small to properly house the equipment. CO no. 6 for Instrumentation	
	building under review. CO no. 7 has been submitted by the EOR to redesign CIDH to precast piles. GWA does not believe that we should be paying for the redesign. The contractor is unable to secure the drilling subcontractor MDI (hollow stem auger) due to the delay in permit	
	issuance. Furthermore, a revised plan to use a different drill rig (conventional flight auger) was submitted to EOR for review and approval. EOR approved the plan in 03/2021; however, the Geotech engineer under the EOR stated in	
	09/2021 that the conventional flight auger will not work. Ongoing discussions with the EOR, Contractor, CM, and GWA on potential options to move forward. MDI is not available until 02/2022. Contractor is currently in talks with	
	another subcontractor (APDI) on their drill rig availability. From initial talks, their rig is available but they would have to order a larger auger bit. Contractor is in active discussions with APDI. We are also waiting on the EOR to	
	answer design issues questions such a depth of CIDH piles and hole size.	

GWA and TGE are working on the SCADA modification plans and specifications to integrate new tank and processes.

Designer is having issues scheduling the Archaeologist to prepare AMDP for submission to SHPO.

Inarajan and Agfayan Booster Pump Station Biological Assessment and Archaeological report are pending.

TGE proceeding with design at both sites. Letter of interest/purchase to DLM/CLTC for Lot 28 is in process. Waiting for CLTC to inform GWA on their choice of appraisal company.

DLM/CLTC has notified GWA that they would like in-kind services rather than direct payment for the property. GWA to prepare response back to DLM/CLTC. DLM/CLTC has no responded with their choice of appraisal company.

Santa Rosa, Santa Rita, and Sinifa Reservoir Under construction. See Santa Rosa, Santa Rita, and Sinifa Construction for update.

Santa Rita Tank: The Contractor is preparing a package for submittal to GWA/GHD to perform pre cast piles in lieu CIDH. The cost for the foundation redesign shall be the responsibility of the Contractor. It is GWA's stance that any changes to the foundation, which may include additional piles, shall be borne by the Contractor.

CO 29 (b)(4)

Engineering design services

Project Description:

The design services will consist of preparation of plans, specifications, and estimates (PS&E), which includes Basis of Design, design calculations, hydraulic modeling (EPANET), computational fluid dynamic modeling (CFD), construction schedule, topographical survey, property research, property mapping, geotechnical engineering, cultural resource inventory and evaluation of historic resources, hazardous materials survey, construction documents, design drawings in Auto CAD, relevant permit, construction bid support service, and response to request for interpretation/information during construction. The tank locations are Ugum, Santa Rita, Santa Rosa, Inarajan and Sinifa.

DESIGN	Central Guam Reservoirs Design	Start Date:
PW 12-04	(GHD Inc.)	May 2015
93% Complete	Activities/Notes:	Completion Date: Completion will be in
	Tamuning No. 2 Reservoir and Tamuning	line with construction
	Booster Pump Station	completion.
	90% design submitted. Plans are under review	
	by GWA.	
	Per Bobbie, property acquisition letter for Lot 1, Block 5, Tract 1427 has been signed by GM. Property purchase is underway.	
	Parceling map is being prepared.	
	Archaeological survey is pending archaeologist schedule. Biological survey completed.	
	Designer is having issues with contacting the sub to perform the archaeological survey.	
	Need approval from GIAA/GEPA for GWA to abandon monitoring well.	
	No update from GEPA.GWA will include a separate bid item for the abandonment of the monitoring well. Once the cost has been received, the cost will be charged to GIAA via existing agreements.	
	Manenggon Reservoir and Access Booster Pump Station 100% design revision submitted. Plans is under review by GWA. Electrical/instrumentation review complete.	
	Biological Assessment report completed. Archaeological report will need to be expanded. Pending archaeologist schedule for additional site visits. GHD/SEARCH is coordinating with SHPO on what will be required. Historical artifacts found at the adjacent lot. Response received from DPR/SHPO. Designer is attempting to contact archaeologist to finish work plan. Archaeologist has been unresponsive.	
	Designer to schedule meeting with SHPO and Archaeologist to discuss revised work plan prior to resubmittal.	
	Piti Reservoir DCA and GHD are working to put the bid package together. DCA has already completed the major steel tank repair plan and	

specifications. GHD is working on site utility plan and specifications.

GWA has not submitted the Right of Way application to National Parks Services yet. GWA has received the final Dept. of Agriculture consultation response letter. Biological Assessment report has been completed. Archaeological report needs to be completed before ROW application can be submitted.

Waiting on National Park Service to allow Archaeologist to go onsite to perform survey. GWA did a follow up on this request. National Park Service sent the request to their national office for review and approval. GWA is following up with NPS on request to enter site to conduct archaeological survey.

GWA has been following up with NPS on response to enter property to conduct archaeological survey.

A23-A25 Deepwell (PFAS Treatment)
A23 and A25 MOU signed by DPW and GWA.

100% plans and specifications have been submitted to GWA. Planning/Grants is following up with US Army Corp of Engineers for their review and comment. GWA is preparing bid documents concurrently.

Tumon No. 1, Hyundai, Chaot No. 2 Reservoir Under construction. See Tumon no. 1, Hyundai, Chaot no. 2 Reservoir Construction for update.

CO 29 (b)(4)

Engineering design services

Project Description:

The design services will consist of preparation of plans, specifications, and estimates (PS&E), which includes Basis of Design, design calculations, hydraulic modeling (EPANET), computational fluid dynamic modeling (CFD), construction schedule, topographical survey, property research, property mapping, geotechnical engineering, cultural resource inventory and evaluation of historic resources, hazardous materials survey, construction documents, design drawings in Auto CAD, relevant permit, construction bid support service, and response to request for interpretation/information during construction The tank locations are Hyundai, Pulantat, Chaot #2, Tumon #2, Piti & Tumon #1.

DESIGN PW 05-15	Asan Springs Rehabilitation Design (HDR)	Start Date: August 24, 2016
82% Complete	Activities/Notes: HDR submitted a letter to NPS to coordinate the archaeological survey requirements with SHPO. HDR submitted SHPO Letter to NPS for review on 05/29/2021; first comments 07/01, submitted revised SHPO letter 07/12, additional comments 08/09, and submitted final revision 09/15; waiting on NPS (Tim Clark) to submit to SHPO. Biological survey permit from NPS issued on 01/22/2021, and completed on 02/10 at Asan Springs. Preliminary findings from HDR led to the discovery of snails around the project site. Draft of biological survey has been submitted to NPS for review as of 03/29. NPS comments received on 06/04. Final report to NPS sent on 06/12. NPS submitted Biological Survey to USFWS on 09/28. Requested meeting with USFWS, NPS and GWA to discuss; waiting on USFWS reply. Affects Section 106 Letter. Environmental Consultation request sent to DOAG and GEPA on 03/15/2021 by Designer. Sent GWA signed follow-up letter to DOAG and GEPA on 06/22. DOAG responded on 07/01, but letter did not reach GWA Engineering until 08/04. GEPA responded on 08/11. Designer reviewing now and will respond accordingly.	Completion Date: June 2022
	Engineering design services	

Project Description:	 Perform site visits and condition assessment for site conditions to determine demolition and rehabilitation requirement, process equipment condition, structural condition, and electrical system. Site condition assessment shall include all disciplines to execute the project. Review and validate the current property boundary information to confirm the available space for the project development. Perform an environmental impact study and prepare all required permits as needed. Perform an archeological and historical resources study to identify potential impact to the project, prepare all required permits as needed. Coordinate with Guam Historic Resources Division State Historic Preservation Office (SHPO) on historical resources study. Prepare all necessary reports and documents as required by SHPO. Coordinate with Guam Department of Agriculture, Division of Aquatic and Wildlife Resources (DAWR) on vegetation clearance. Prepare all necessary reports and documents required by DAWR. Identify the existing and projected service area, period of design. Identify and recommend conceptual water treatment system. Perform a Class 4 engineering cost estimate according to the American Association of Cost Engineers (AACE) International Cost Estimate Classification System for construction fee. Cost must include all disciplines, permit, construction and administration that are necessary to execute the project. All costs will be in current dollars and escalated to the estimated midpoint of construction.

CONSTRUCTION PW 09-11, PW 12-05	Yigo/Astumbo Tank Construction (Pernix)	Start Date: December 1, 2016
100% Complete	Activities/Notes: GWA and CM is working with Pernix to close out project. Final walkthrough completed. Lien Release and Warranty documents received. Spare parts received. Final invoice processed. Final retention payment has been released 07/2021. Finance is requiring a deductive change order to reflect the retention amount not released. Contractor is unresponsive.	Completion Date: October 31, 2018
	Construction Services	
Project Description:	This project will involve construction of two (2) 2MG concrete tanks and Booster Pump Station at the Yigo site and a one (1) 2MG concrete tank at the Astumbo site. Work will involve new pipe line, valves, electrical controls, pumps and motors, site drainage, paving, generator for the BPS, SCADA, etc.	

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

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

CONSTRUCTION PW 12-04, PW 12-06 AND PW 09-11	Central Tank Phase I (Chaot #2, Tumon #2, Hyundai) Construction (AIC)	Start Date: February 8, 2018
91.2% Complete	Activities/Notes: Tumon No. 1 Tumon no. 1 online – 08/20/2020.	Completion Date: TBD (Completion date has passed. Pending

Working on St. John's PRV. Final outage completed on 09/02/2021. Work remaining is pavement restoration. Originally planned for 10/09, but canceled due to weather; rescheduled for 10/23.

time extension for permit delays.)

Pale San Vitores HEP pending DPW approval. DPW shall issue permit once St. John's PRV paving has been completed.

Barrigada Heights No. 1 (Hyundai)
Barrigada Heights no. 1 online – 10/09/2020.
Booster pump skid arrived. Contractor is actively working on installing the pump skid and associated equipment.

Temporary piping installed at the Hyundai tank. Pressure testing completed. Working with Contractor and GWA Operations to put portion of line into service.

GWA Engineering has inspected the installed pump system. Contractor to rectify issues identified during inspection. Contractor to submit a commissioning plan.

Fuel tank lines have been delayed due to material and shipping shortages. ETA is December.

Working on design plan to permanently use the Steel Temp Tank. Additional funding will need to be identified for the work.

<u>Barrigada</u>

Contractor working on electrical for booster and PRSV station.

Incoming power is unbalanced. GWA to follow up with GPA if the issue has been rectified.

Chaot No. 2

Chaot No. 2 tank online - 09/02/2020.

Contractor working on A-series well, Dero Rd connection to Leo Palace line, chlorination system improvements and miscellaneous improvements.

Tank distribution and Leo Palace line has been completed.

Two more outages are needed to complete line work on main roads. Awaiting GWA operations to inform Engineering on outage schedule. Two remaining outages are for Route no. 4 valve

	changeout and disconnection of wells at Spring Lane.	
	Barrigada No. 2 DN Tanks completed internal repairs.	
	Negotiating scope and cost with Contractor to repair internal pipe coating.	
	Construction Services	
Project Description:	The work performed under this project procurement shall consist of Construction of three water reservoirs; 0.5MG Chaot #2, 1MG Tumon #2 (Nissan) and 1MG Hyundai. Some piping work off site from the reservoir is also required to ensure the reservoirs function optimally.	

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

CONSTRUCTION PW 09-11	Northern and Southern Tank Phase I (Santa Rosa, Sinifa, Santa Rita) Construction (AIC)	Start Date: October 2019
10.8% Complete (based on Contractor's latest invoice as of May 2021)	Activities/Notes: Santa Rosa: New tank foundation, retaining wall, vault, site piping, detention basin, and site piping work are ongoing. Tank wall no. 1 poured. Proceeding with wall no. 2. Vault, pipe, and other site work ongoing. Contractor has submitted CCR for the booster pump station changes. Under evaluation. Santa Rita: New tank foundation preparation, pile rebar cage, detention basin, vault, and site piping are ongoing. Contractor drilled the first pile hole. Hole experienced partial collapse at 20'. Full drill depth is 40'. Per the geotechnical engineer, the current auger machine will not work with these soil conditions. A hollow stem auger is needed. Marianas Drilling who owns a hollow stem auger is not available until January 2022. Contractor is preparing package and work plan to install pre cast piles in lieu of CIDH (cast-in-place drilled holes). See update on design section. Upper roadway to NPS property is collapsing. This may be due to heavy rainfall and excavation of new water line downhill. Design/CM team to evaluate the issue and prepare solution for contractor to execute. Sinifa: New tank foundation preparation and retaining wall work ongoing. DN Tanks have mobilized on site to prepare rebar for the tank foundation. Vault, pipe, retaining wall work ongoing.	Completion Date: Santa Rosa Final Completion — February 13, 2022 Santa Rita Final Completion — March 15, 2022 Sinifa Final Completion — January 14, 2022
Project Description:	The work performed under this project procurement shall consist of Construction Services of three water reservoirs: 1MG Santa Rosa, 1MG Sinifa and 1MG Santa Rita. Some piping work off site from the reservoir is also required to ensure the reservoirs function optimally.	

CONSTRUCTION	Pressure Zone Realignment and Tank Repair-Replacement – Phase I (Sumitomo)	Start Date: December 17, 2019 (Notification of Award)
54.2% Complete	Activities/Notes: Construction work active at Kaiser, Carnation, Ysengsong, Clara, Terao, and Okkodo PRV sites. Construction meetings are ongoing. Clara: Outage for Clara PRV line connection delayed. Outage will be rescheduled after Ops completes field investigation to secure the necessary lines. Onsite work for electrical installation, backfilling near vaults, etc still ongoing. Kaiser: Outage for the reservoir inlet connection will be scheduled for week of 10/18. Onsite work for electrical installation, pipe installation, backfilling around PRVs, painting, etc still ongoing. Carnation: Onsite electrical piping installation to	Completion Date: January 2022
	PRV 15, 11, and 76, and control room, etc still ongoing. Ysengsong: Asphalt restoration completed 10/12/21. Final site grading and clearing scheduled for 10/13/21. Okkodo: preparing for PRV 30 outage. Original outage for PRV connection was delayed due to the ongoing investigations at Clara. Terao: Excavation for PRV vault completed. Preparing the foundation for the PRV vault soon. SMCC payment no. 6 processed.	
N/A	Construction Services	
Project Description:	The work performed under this project procureme Construction Services for the installation of control PRSVs), piping, and related electrical upgrades to measure system flow between zones.	ol valves (PRVs,

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

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

DESIGN, CONSTRUCTION, CONSTRUCTION MANAGEMENT PW 09-11	Tank Repair and Bypass (DCA, AIC, GWA)	Start Date: May 1, 2020
	Activities/Notes: Construction contract effective 04/21/2020. NTP issued 05/01/2020 with modified language for work starting onsite. Agat-Umatac interior metal repair completed. Anchor bolts installed. Interior sandblasting for recoating is underway. Lead paint abatement underway for portions of tank exterior. Contractor has completed coating of Yigo no. 3 tank exterior. Interior coating is underway. Roof purlin repair completed. Internal sandblasting and recoating are ongoing. Astumbo no. 1 delayed due to presence of lead paint. Change order approved for lead abatement at tank. Scheduling Island Certs to perform further API inspection on tank wall which has active corrosion. Inspection completed. Report to be turned in 09/2021, week of 09/06. Wall plate replacement will be required. CCR has been sent to contractor to price work. Metal plate may be used to repair Windward Hills tank, which is more crucial than Astumbo. Repairs ongoing. Santa Ana bypass work is ongoing. Check valve issue has been rectified. Contractor proceeding	Completion Date: TBD (Dependent on repairs required after inspection)
	with electrical work at the Santa Ana bps.	

	Bypass may be tested without contractor's completion of the bypass.	
	Contractor's electrical work submittal needs to be resubmitted.	
	Ladda PSRV installed.	
	Pigua PSRV installed.	
	Malojloj bypass work ongoing. Valving will need to be adjusted due to shallow pipes encountered. GWA is currently trying to find valves to be able to secure the lines for the outage. Valves are buried. Gues and Togan bypass work is underway with submittals. Geus building demolished. Booster pump skids arrived. Contractor to begin work.	
Project Description:	The work to be performed under this project consi piping, valves, etc. ahead of certain tank inspectio operation of the by-pass will allow the tank inspec appropriate repairs after which the contractor will tank.	n work. The tor to determine

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

CONSTRUCTION PW 14-01	Fire Hydrant Replacement Phase I (Mega United Corporation, Ltd.)	Start Date: October 19, 2019
55% Complete	Activities/Notes: A total of 40 FH was restored and completed out of 72. Contractor is continuously doing the FH replacement work in Dededo Area. Disinfection Report no. 3 submitted on 08/4/2021: Bacteriological sampling tested	Completion Date: April 23, 2022

	negative for the 6 FH completed in August 2021.	
Project Description:	The work performed under this project consist of replacing the dry barrel fire hydrants with wet barrel type fire hydrants. The replacement will involve removal of defective fire hydrant laterals, gate valves, hydrant stem and barrel and other appurtenances necessary to complete the project.	

CONSTRUCTION PW 05-07	Groundwater Well Production Meter Replacement Project (Giant Construction)	Start Date: April 29, 2020
98.26% Complete	Activities/Notes: Contractor completed installation of above-ground discharge piping for deep wells: Y-23, Y-09, Y-17, Y-07, F-15, HGC-2, M-18, D-26, Y-20, F-18, Y-19, F-13, D-27, D-25, Y-12, Y-18, F-17, Y-14, Y-21A, Y-10, Y-22, A-13, EX-05, A-10, Y-15, H-01, D-01 AG-02, F-02, and F-04. To date, 30 deep wells were completed as required by the project scope. A 'Substantial Completion' inspection is schedule on 10/11/2021. A CO no. 4 will be processed to remove deep wells AG-01 and A-04 from scope and replaced with deep wells F-02 and F-04. The selection of the replacement was based on deep wells having the same size well head and similar length of the above-ground discharge piping. This change order will also include a time extension to prevent the contract period from expiring while GWA processes a proposed CO no. 5. GWA Management will be seeking to add 15 more critical production wells to the existing contract.	Completion Date: October 27, 2021
Droject Description:	Construction services	piot of raplacing the
Project Description:	Work to be performed under this project shall consist of replacing the production well meters and associated well head piping. Construction management is performed in-house.	

DESIGN AND CONSTRUCTION PW 09-03	Casimiru Waterline Replacement Project (Giant Construction)	Start Date: February 8, 2021
11.6% Complete	Activities/Notes: The final design drawings were approved 08/03/2021. Contractor submitted Building Permit application to DPW on 08/05. As of 09/30/2021, the only permit clearance pending is with Historic Preservation Office (HPO). All material piping materials arrived on island. The Contractor is ready to proceed with the excavation as soon as the permit is issued.	Completion Date: March 8, 2022
	Design and Construction services	
Project Description:	Work to be performed under this project shall consist of design and construction of existing ACP replacement. Approximate length of existing waterline to be replaced is 2,750 feet. Construction management is performed in-house.	

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

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

PROJECT MANAGEMENT, PROCUREMENT SUPPORT & CONSTRUCTION MANAGEMENT MP-PW-SWTP-03	Ugum Water Treatment Plant Rehabilitation (DCA)	Start Date: July 6, 2021
46.05% Complete	Activities/Notes: The draft Assessment and Procurement Report and Bid Schedule were submitted on 08/19/2021. Work on gathering more information to complete the assessment-procurement report and bid schedule is ongoing, Coordination with material suppliers has started. This coordination work is for the purpose of preparing the specifications. Draft Procurement (Bid) package will be submitted first week of October 2021.	Completion Date: December 3, 2021
	Project Management, Procurement Support and Construction Management services	
Project Description:	Work to be performed is awarded under Task Order no. 3 under the ID/IQ for Professional Project/Construction Management Services contract with DCA. Work will consist of assessment/site investigation of existing condition of the plant, preparation of schedule, procurement documents, relevant permits, construction bid support services, and response to request for interpretation/information, construction management services for the plant rehabilitation.	

IN-HOUSE DESIGN AND CONSTRUCTION PW 09-03	Balaku Street and Borja Street Replacement Project (GWA)	Start Date: June 21, 2021
7% Complete	Activities/Notes: All required clearances for Building permit have been secured. Permit was sent to DPW on 09/29/2021 for final approval. However, there is still an issue regarding permit fee that may delay DPW approval. No decision yet whether DPW will waive the \$1,955.25 permit fee. About 90% of off-island materials arrived on island.	Completion Date: December 31, 2021
	Design and Construction services	
Project Description:	Work to be performed under this project shall consist of in-house design and construction of waterline replacement in Balaku Street in the village of Barrigada and Borja Street in the village of Sinajana. Approximately 450 feet of 4-inch waterline will be installed in Balaku Street and 500 feet of 6-inch waterline in Borja street.	

D. CIP Wastewater Section

CONSTRUCTION WW 09-06	Bayside SPS Improvements Design (EMPSCO)	Start Date:
60% Construction	Activities/Notes:	Completion Date:
Services	Mechanical piping layout at the ground floor completed.	November 8, 2021
	Installation of submersible pump at wet well completed.	
	Installation of control panel ongoing.	
	Installation of electrical panel board, step down transformer ongoing.	
	Installation of ATS, Disconnect switch ongoing.	
	Continuous review of submittal, shop drawings, and RFIs.	
	Upcoming Change Order:	
	Replacement of existing fence and gate to secure the area from thieves and homeless that stayed at night.	
	2. Installation of pull box at the ground so it will have an easy access to perform electrical work instead to rework at the rehabilitated existing wet well.	

	3. Provision of pipe supports to mechanical piping instead of anchoring the wall bracket to the non-grouted existing wall.							
CO #3	Engineering design services							
Project Description:	The intent of this project for an engineering firm to drawings and specification to upgrade the Bayside given the facility is in major disrepair and the adjace away the access road to the facility which is causir challenges and install underground power cable duthat existing power pole, located on the bank is at to storm surges.	Sewer Pump Station ent river is eroding ng maintenance ue to GPA's concern						

CONSTRUCTION MP-WW-PIPE-01	Yigo Sewer Pump Station Flood Mitigation and Facility Rehabilitation (lan Corporation)	Start Date: May 3, 2021			
0% Complete	Activities/Notes: Preparation cleaning and repair works on station interior and exterior areas; including water spray cleaning and paint scrapping. Selective demolition works on existing ducts, water closet including service sink, plumbing pipes, doors and frames, louvers, and wall openings. Masonry works related to louver, door, and window openings. Checking of electrical power supply home runs.	Completion Date: May 29, 2022			
Project Description:	Work to be performed under this project consist of building features and equipment, including the epower meter, plumbing fixtures and piping, water substem, ventilation system, building fascia and construction of rehabilitation and flood mitigate structural wall repairs, flood barrier gates, raised monorail beam, elevated platforms, ventilation substem, instrumentation and controls, testing, stawork.	xisting power pole and service piping, electrical d monorail beam and ion features including I louver sills, cantilever system, site work, site we coatings, electrical			

CONSTRUCTION MANAGEMENT MP-WW-PIPE-01	Yigo Sewer Pump Station Flood Mitigation and Facility Rehabilitation (DCA)	Start Date: May 3, 2021
0% Complete	Activities/Notes: Submitted CM Invoice no. 1 on 09/24/2021.	Completion Date: May 29, 2022

water piping, utility tie-in connections, protective coatings, electrical system, instrumentation and controls, testing, startup, and appurtenant work.

E. CIP Engineering Support

DESIGN	SCADA System for Water and Wastewater	Start Date:				
EE 09-08	Facilities Phase A-1	June 11, 2015				
1000/ 0	(AECOM)					
100% Complete	Activities/Notes:	Completion Date:				
(Design)	Negotiate changes to the remaining tasks to	November 2017 -				
84% Services during	better align with current state of the system	Design				
Construction	ongoing. Scoping details discussed.	December 11, 2019				
		- (Bid and				
	AECOM preparing proposal.	Construction				
		Support)				
	GWA received RFI from AECOM.					
N/A	Engineering design services					
Project Description:	The A/E firm will design an integrated, robust and Control and Data Acquisition (SCADA) system for					
	wastewater systems, and to provide support servi					
	construction. The 22 sites will consist of a combin					
	such as production wells, reservoirs, booster pum					
	wastewater sites include sewer treatment plants a	•				
	stations. Executed by approved change orders, n					
	original design scope has changed from 22 sites t					
	of High Water Alarm for 20 critical sewer pump sta					
	added. Scope also includes bid and construction s					
	build project of GPWA SCADA EMS project.					

F. GIS Section

MAPPING	Island Wide Survey-	Start Date:						
MC 05-02	(Duenas, Camacho & Ass.)	December 2007						
99% complete	Activities/Notes: Still on hold for the Tumon no.1 Tank (aka Airport Tank).	Completion Date: October 2019						
	Survey services							
Project Description:	The contracted land surveyor is required to conduproperty valuation and mapping of property bound facilities are located, including the lots which are r GWA's name.	laries where GWA						

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

G. Permits Section

PERMITS MONTHLY REPORT 2021

	2021												
Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
Building Permit	26	24	24	19	42	38	15	35	41				272
Occupancy Permit	11	11	11	18	8	3	9	14	2				87
New Installation	19	30	31	29	5	9	18	18	18				177
Sewer Application	0	4	4	6	0	1	2	0	0				17
Sewer Inspection	0	0	1	1	0	0	0	1	1				4
Private Utility Acceptance	0	1	1	0	0	1	0	0	0				3
Relocation of Water Meter	2	1	2	0	0	0	0	1	0				6
Tapping-Water	1	1	1	2	1	1	0	1	0				8
Tapping-Sewer	1	0	1	1	0	0	0	0	0				3
Clearance-Water	25	50	51	45	22	50	12	25	27				332
Clearance-Sewer	1	0	0	1	0	0	0	0	0				2
Highway Encroachment	9	13	13	19	5	23	8	4	5				99
Verification of Utilities	14	12	12	19	13	11	9	19	21				130
Fire Flow Test	1	0	2	0	0	0	0	1	0				4
Schedule Water Outage	0	0	0	0	0	0	0	0	0				0

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

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

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

Subscript comments are based on what occurred during the month of September

a1: VOU replies were delayed when other work assignments needed urgent responses.

H. USEPA SRF Project Status Report

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

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

Percentage Key:

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

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

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

3	Project Asan-Adelup- Hagatna Route 1 Sewer Line Rehabilitation and Replacement	Project Description Rehabilitation of sewer lines from the Warf in the Padific Asan Park to the Governor's Complex in Adelup. This line is asbestos concrete that is dilapidated and some areas have disintegrated crowns.	Project Manager Brown & Caldwell		2	Start Date (NTP Issued) 12/11/2015	Anticipated Completion Date 3/30/2017 for Design requirements	Contract Amount \$ 1,780,210	Contractor .00 HDR	Status as of 10/12/2021 HDR assisting as needed. Also, Archaeological monitoring through HDR contract. HDR CO for performance time extension approved by GWA.		
						Construction	2	11/9/2018	3/30/2021	\$6,275,783.0	InfraTech	Infratech (via Allied Trenchless) completed all CIPP and line ends at manhole grouting. Punch list items completed. CO no. 6 submitted to GWA. Multiple claims from Contractor evaluation completed. Final summary being reviewed by PM.
				Construction (Phase II)		1/26/2021	4/21/2023	\$ 8,742,000	.00 CoreTech/ Hawaiian Dredging	Contractor secured all required permits. CCTV inspection and initial cleaning completed 07/07/2021. Liner designed and submitted for approval. Contractor wants to propose an alternate design. Two segments need point repairs for which the bypass was set-up and initiated but a force main force terminating the bypass and performing an emergency repair. A new MH13 installation and new segment from MH13-14 is the resultant solution. RFI regarding installation of Line C or lining the existing main currently under review. Field inspection performed. Requested price to re-channel MH355 and clean and line existing main from Rte. 6 to evaluate proposal in lieu of new Line C. CCTV of existing main performed and there are no point repairs needed but the pipe needs CIPP and is a good alternative. Pending final price, GWA will decide which option is preferred. Initially, CIPP option is significantly more expensive than Line C construction.		
				СМ	2	8/3/2017	3/8/2020	\$ 870,610	.41 DCA	Working with Contractor on schedule, submittals, responding to RFIs, and assisting in the negotiations of PCO costs. Fee proposal for CM services for Phase 2 submitted and accepted by GWA. CO to add CM for Phase 2 prepared for GWA. GWA executed CO. CCU Resolution on 09/2021 agenda.		
				Project / Contract Management		1/22/2020	12/31/2021	\$ 476,050	B&C	Executed under the IDIQ contract, Task Order 3 (TO3) authorizes Brown and Caldwell to manage and complete the construction of Rte. 1 Sewer Line Rehabilitation and Replacement project in conformance to the contract requirements. Amendment 1 to TO3 is executed to increase scope, cost and schedule to manage and complete the construction of Phase 2. Resolution 29-FY2021 pending CCU approval to execute Amendment 2 to TO3 to increase contract time and funding to continue to manage and complete the construction project.		

	Project	Project Description	Project Manager	Phase		Start Date (NTP Issued)	Anticipated Completion Date	Contract Amount	Contractor	Status as of 10/12/2021
7	Rehabilitation	Rehabilitation of existing deep wells and/or in cases where pipe column needs replacing, wells	Brown & Caldwell	Design	6	5/27/2016	2/28/2018 (for design only)	\$ 1,758,247.0	0 AECOM	Bid and Construction Support Services on hold until construction IFB is issued.
	to b	vill be re-drilled. The deep wells o be rehabilitated are F-3, A-2, A- ', A-12 & D-5.	ehabilitated are F-3, A-2, A-	Construction	4					No firm submitted a bid proposal. GWA Project Engineer to reassess and make additional changes to the bid package (ongoing). At this time, no response from potential firms (Well Drillers). Only two well drillers on Guam.
				СМ	4			\$ 640,248.	00 DCA	DCA was awarded the contract but GWA has not issued NTP until construction is approved.
8	Spots	Investigation, evaluation, and repair of possible solutions, to long plaguing issues where	Brown & Caldwell	Design	7	6/24/2016	10/30/2017 for design only	\$ 572,089.	TG Engineers	TGE to provide engineering services during bid process.
		sewer overflows are known to occur in Tumon San Vitores.		Construction	See Project 15	12/1/2018	12/31/2019	See Project 15	See Project 15	See Project 15
				СМ	See Project 15	5/31/2019	5/31/2020	See Project 15	Am Orient	Procurement 100%: Contract fully executed. CM services to be on hold until bidding restarted.

						Start Date	Anticipated	Contract		Status
	Project	Project Description	Project Manager	Phase		(NTP Issued)	Completion Date	Amount	Contractor	as of 10/12/2021
	outhern SSES	Rehabilitation of segments of	Brown & Caldwell	Design				The design was pre	eviously complet	ed under bond funding.
Se Re Pl	ewer ehabilitation hase II (Baza ardens-Talofofo)	sewer lines in Windward Hills, Talofofo area where the Sanitary Sewer Evaluation Study recommends rehabilitation.		Construction	8	8/2/2016	Due to issue related to Santa Rita sewer project completion under analysis.	\$ 1,189,815.00		Santa Rita Archaeology – Waiting for SHPO response on remedial actions. Contractor has stopped work. &C has drafted a letter containing proposed remedial actions and request to continue work Task order amendments – Survey subcontract and budget increase included in September CCU meeting (09/28/2021). Construction (on-pause) - PPBC working on excavating wet well location. Approx. 3 feet from bottom elevation. - Forcemain pipe laid into trench and trench is backfilled. : A section of the forcemain will have a mechanical joint with a concrete encasement due to an existing storm drain line that was encountered during the excavation of the trench. : Forcemain was hydrostatic tested. - Completed installation of terminal manhole. - Installed 8" PVC gravity line from terminal manhole to existing manhole on Pale Ferdinand Way. : Road has been restored. Some deficiencies on asphalt. Contractor will restore upon project completion. - Contractor installing secondary electrical handhole and conduit. - Contractor plugging abandoned gravity lines in wetland.
										- Wet well on site. - GWA inspection and cleaning of receiving gravity sewer lines along Pale Ferdinand.
				СМ	8	7/29/2016	5/28/2017	\$ 425,756.09	EMPSCO	Closed out. Does USEPA need anything?
			GWA Chief Engineer	Project / Contract Management		6/17/2019	9/30/2021	\$ 269,228.00	B&C	Executed under the IDIQ contract, Task Order 4 (TO4) authorizes Brown and Caldwell to manage and complete the construction of Southern SSES Sewer Rehabilitation Phase 2 project in conformance to the contract requirements. Amendments 1 and 2 to TO4 are executed to increase scope of work to include archaeological services, and increase contract time and funding to continue to manage and complete the construction project. Amendment 3 to TO4 is executed to extend completion date to 9/30/2021. Resolution 29-FY2021 pending CCU approval to execute Amendment 4 to TO4 to increase time and funding to manage and complete the construction project.

	Project	Project Description	Project Manager	Phase		Start Date (NTP Issued)	Anticipated Completion Date		ontract mount	Contractor	Status as of 10/12/2021
15	Tamuning Sewer Hot Spots	Sewer rehabilitation for lines at Winner Apartments, Segund Leon Guerrero, and behind Guam	G. Gattoc	Design	10	9/9/2016	10/31/2017 (for design only)	\$	663,629.00	TG Engineers	TGE to provide engineering support services during bid process and construction.
		Premium Outlets.		Construction	9	1/30/2020	12/31/2020	\$ 3	1,093,955.87	lan Corporation	Site no. 2 construction work halted pending water pipe conflict resolution; contractor tentatively agrees to proposed change order for water pipe rerouting pending more information regarding scope of work; contractor to proceed with exploratory excavation of water line. Deflection testing of PVC pipe still pending at Site no. 1 - Pancoso Palting St. Asphalt restoration work at Site no. 1 - Winner Apts. & Pancoso Palting St. to be rescheduled due to asphalt mix supply issues. Pipe deflection test and asphalt restoration still pending at Site no. 1 - Winner Apartments. CO proposal for Site no. 3 under review by GWA. Revised contractor COP no. 2 under review by GWA.
				СМ	9	3/31/2019	3/31/2020	\$	531,000.75	Am Orient	CM acknowledged Notice to Proceed (NTP).
16	Talofofo Sewer Pump Stations (4 Stations)	Design and construction of 4 sewer lift stations in the Talofofo village where sewer lines are installed but never completed.	G. Gattoc	Design (for Talofofo and Chalan Pago PS)	11	8/17/2016	11/30/2017	\$	493,818.86	EMPSCO	Latest letter from GWA extends project completion date to 08/31/2020. Giant currently working on an updated time extension letter. Giant conducting tests of current proposed auto-dialer model. GWA will issue Substantial Completion after successful testing of auto-dialers. No new invoices received.
				Construction	10	12/27/2018	5/29/2020	\$ 2	2,411,418.00	Giant Const.	Latest letter from GWA extends project completion date to 08/31/2020. Giant currently working on an updated time extension letter. Giant found and ordered a 3G auto-dialer modem. Waiting for shipment and testing. Giant ordered another generator socket. Waiting on installation and testing. GWA will issue Substantial Completion after successful testing of generators. Giant waiting on material shipment for pressure gauge tees. No new invoices received.
				СМ		12/1/2018	12/31/2019				GWA Engineering will management construction management tasks.

	Project	Project Description	Project Manager	Phase		Start Date (NTP Issued)	Anticipated Completion Date	Contract Amount	Contractor	Status as of 10/12/2021
18		Design and construction of	Barbara Cruz	Design	12	8/3/2016	3/15/2017	\$ 523,268.00		Design complete.
	Model (SCADA ready instruments to update Model)	instrumentation at key water sites in the Barrigada service area necessary to update GWA Water hydraulic model.	J. Mendiola/G. Yeoh	Construction (Phase I)	12	8/3/2016	6/30/2020	\$ 5,228,471.82	Sumitomo	• Construction work active at Kaiser, Carnation, Ysengsong, Clara, Terao, and Okkodo PRV sites. Construction meetings are ongoing. Clara: Outage for Clara PRV line connection delayed. Outage will be rescheduled after Ops completes field investigation to secure the necessary lines. Onsite work for electrical installation, backfilling near vaults, etc still ongoing. Kaiser: Outage for the reservoir inlet connection will be scheduled for week of 10/18. Onsite work for electrical installation, pipe installation, backfilling around PRVs, painting, etc still ongoing. Carnation: Onsite electrical piping installation to PRV 15, 11, and 76, and control room, etc still ongoing. Ysengsong: Asphalt restoration completed 10/12/21. Final site grading and clearing scheduled for 10/13/21. Okkodo: preparing for PRV 30 outage. Original outage for PRV connection was delayed due to the ongoing investigations at Clara. Terao: Excavation for PRV vault completed. Preparing the foundation for the PRV vault soon. SMCC payment no. 6 processed.
				СМ		6/15/2019	6/30/2020			
23	Project Advertisement	Each IFB or RFP requires advertising	Engineering/ Procurement	MISC	1			\$ 25,172.50	PDN/Post	Ongoing
24	Dungca Beach Sewer Improvements		R. Carino	Design				\$ 594,735.28	GHD	Project Management Plan in progress. Bi-weekly meetings in progress. Permitting: Sub contractor EA will perform site visit next week and initiate work. Address unknown for underground utilities and existing laterals: Designer working with subcontractors to schedule and identify location of existing sewer manhole, surface and underground utilities GPA, GWA & Docomo. Verifictaion of laterals done by October through November. Surveys: Surveyor on board to established control for site survey. Base map survey to be completed next week with the assistance of GWA operations. Archeological Monitoring Plan Status: Ready for submittal to SHPO within 10 days. Geo Engineering started applying for DPW permit. Notification Letters/ Door Hangers: Distributed to tenants, residents & owners except for Agana Condo, GWA will send Notification letter to condo Management.

	Project	Project Description	Project Manager	Phase	Start Date (NTP Issued)	Anticipated Completion Date	Contract Amount	Contractor	Status as of 10/12/2021
25	Hagatna Sewer		GWA CIP Engr	Design			\$603,951.14		NEPA documents are still in progress.
	Pump Station Force Main								GHD performing environmental/permitting analysis.
									 GWA to provide flow metering datarelated to Hagatna Main SPS tributary sewer pipes.
									 GWA to provide existing project information/data regarding horizontal directional drilling work performed during Hagatna and Northern District WWTP outfall work.
									 Coordination meeting held with GHD and DCA regarding causeway structural analysis/rehabilitation; 9/24/21.
									Progress meeting scheduled last 10/01/2021.
26	Fujita Sewer Pump Station Force Main		G. Gattoc	Design					AECOM to submit revised design proposal.
27	2021 Well Rehab (A- 28, M-14, D-15 & F- 7)		J. Mendiola	Design					Procurement on hold until issues with A-series Wells are resolved.

\$ 73,764,297.38

GWA Utility Services Division Monthly Status Report Month ending SEPT 2021

FY2021							PREVIOUS	МОПТН
UTILITY SERVICES DIVISION ACTIVITIES	WEEK	WEEK	WEEK		SEPT 2021	WEEKLY	WEEKLY	AUG 2021
OTILITY SERVICES DIVISION ACTIVITIES	ENDING:	ENDING:	ENDING:	WEEK ENDING:	MONTHLY	AVERAGE	AVERAGE AUG	MONTHLY
	09/11/21	09/18/21	09/25/21	10/02/21	TOTAL	SEPT 2021	2021	TOTAL
Collections Activities:			•					
Number of accounts cut for nonpayment:	102	105	149	120	476	119	97	486
II. Number of accounts restored for nonpayment:	76	94	113	78	361	90	71	356
III. Number of No water reports responded to:	0	0	3	0	3	1	2	10
IV. Number of Secure/Unsecure valve reports responded to:	2	7	13	7	29	7	3	13
V. Number of Verify reads responded to:	2	1	0	9	12	3	4	19
VI. Number of new pay plans negotiated for active accounts:	109	114	114	98	435	109	90	449
VII. Number of active pay plans negotiated and ongoing:	733	766	830	769		775	754	
VIII. Number of inactive accounts with a payment arrangement:	8	8	8	8		8	9	
IX. Number of broken payment plans:	29	48	36	28	141	35	65	327
Customer Service Activities (lobby visits):								
A. GBN Public Service Building – Fadian								
i. Total Customers Assisted:	169	211	188	108	676	169	211	1053
ii. Total Abandoned Requests:	3	11	12	2	28	7	7	35
iii. Average Wait Time:	7 minutes	8 minutes	9 minutes	8 minutes		8 minutes	7 minutes	
iv. Average Service Time:	11 minutes	12 minutes	12 minutes	13 minutes		12 minutes	11.4 minutes	
v. Purpose of lobby visit:	П							
Apply for water:	42	52	47	27	168	42	56	279
Restore water cut for non payment:	6	9	14	6	35	9	7	34
3. Terminate Water:	8	13	7	7	35	9	11	56
4. Copy of Bill:	21	30	19	15	85	21	23	116
5. Billing Dispute:	40	40	41	19	140	35	38	189
6. Billing Dispute follow up:	0	0	0	0	0	0	0	0
7. General Questions & Other:	48	56	54	29	187	47	69	345
8. Report a water leak:	0	0	0	0	0	0	0	0
9. Report water theft:	0	0	0	0	0	0	0	0
10. Payment Arrangement:	6	11	9	6	32	8	9	45
B. Julale Satellite Office – Hagatna	-							
i. Total Customers Assisted:	153	189	156	197	695	174	163	814
ii. Total Abandoned Requests:	3	20	6	9	38	10	6	30
iii. Average Wait Time:	4 minutes	8 minutes	3 minutes	7 minutes		5.5 minutes	5 minutes	
iv. Average Service Time:	9 minutes	10 minutes	9 minutes	9 minutes		9.25 minutes	10.8 minutes	
v. Purpose of lobby visit:								
Apply for water:	28	30	36	50	144	36	51	256
Restore water cut for non payment:	10	22	10	16	58	15	12	59
3. Terminate Water:	7	8	13	13	41	10	13	67
4. Copy of Bill:	48	29	27	34	138	35	25	124
5. Billing Dispute:	41	59	50	47	197	49	35	174
6. Billing Dispute follow up:	0 21	0	1	0 36	1	0 29	0	0
7. General Questions & Other:		38	19		114		22	109
8. Report a water leak:	0	0	0	0	0	0	0	0
9. Report water theft:	3	11	4	4	22	6	8	38
10. Payment Arrangement: C. Upper Tumon Satellite Office – Upper Tumon	3	11	4	4	22	р	δ	58
i. Total Customers Assisted:	178	191	204	224	797	199	191	954
	5	4	9	11	29	7	6	29
ii. Total Abandoned Requests: iii. Average Wait Time:	7 minutes	3 minutes	9 minutes	10 minutes	29	7.25 minutes	3.2 minutes	29
iv. Average Walt Time:	13 minutes	12 minutes	15 minutes	14 minutes		13.5 minutes	12.8 minutes	
v Purpose of Johny visit:	15 minutes	12 Illillutes	13 minutes	14 111111111111111111111111111111111111		13.3 minutes	12.0 11111111111111111111111111111111111	

Purpose of lobby visit:

1. Apply for water:

3. Terminate Water:

6. Billing Dispute follow up:

8. Report a water leak:

9. Report water theft:

10. Payment Arrangement:

7. General Questions & Other:

4. Copy of Bill:

5. Billing Dispute:

2. Restore water cut for non payment:

GWA Utility Services Division Monthly Status Report Month ending SEPT 2021

FY2021							PREVIOUS	МОПТН
UTILITY SERVICES DIVISION ACTIVITIES	WEEK ENDING: 09/11/21	WEEK ENDING: 09/18/21	WEEK ENDING: 09/25/21	WEEK ENDING: 10/02/21	SEPT 2021 MONTHLY TOTAL	WEEKLY AVERAGE SEPT 2021	WEEKLY AVERAGE AUG 2021	AUG 2021 MONTHLY TOTAL
Customer Service Activities (Electronic):	,				101/12	02112022	1011	
i. Emails Recieved:	П							
customers@guamwaterworks.org: Degrees the compile.	129	149	137	184	599	150	142	711
Request type (email): a. Apply for water:	21	27	24	36	108	27	26	132
b. Terminate Water:	18	14	17	19	68	17	16	78
c. Copy of Bill:	6	7	3	9	25	6	4	19
d. Billing Dispute & follow up:	9	11	2	14	36	9	7	36
e. General Questions & Other:	40	51	55	61	207	52	51	257
f. Report a water leak:	11	11	15	12	49	12	13	66
g. Report water theft:	0 24	0 28	0 21	33	0 106	0 27	0 25	0 123
 h. Online services inquiry: 2. gwaservesme@guamwaterworks.org (realtors/prop mgrs) 	-	0	0	0	0	0	0	0
ii. Emails Replied (both):	112	148	112	107	479	120	123	613
iii. Online Portal:								
Request type (online portal):								
a. Start Service:	2	0	0	1	3	1	1	6
b. Stop Service:	1	1	2	0	4	1	2	8
c. Payment Plan:	8	5	2	3	18	5	1	3
d. Customer Information Updates: e. Service Investigations:	0	0	1	0	2	1	0	0 4
f. Account Inquiries:	4	3	4	2	13	3	2	11
g. Technical Support:	0	0	0	0	0	0	0	1
h. Outages & Emergencies:	0	0	0	0	0	0	0	2
Call Center Activities:								
i. Calls Recieved:	1299	1467	1539	1278	5583	1396	1293	6465
ii. Calls Immediately Answered:	607	515	506	556	2184	546	726	3631
iii. Calls Abandoned:	59	66	67	60	252	63	60 499	298
iv. Calls Handled by Voice mail:v. Average duration of call:	580 5 minutes	886 5 minutes	939 4 minutes	647 3 minutes	3052	763 4.25 minutes	4.4 minutes	2496
vi. Breakdown by request type:	3 minutes	5 minutes	4 minutes	3 minutes		4.25 minutes	4.4 1111114163	
Apply/Terminate info:	32	20	31	34	117	29	27	137
2. Automated Telphone Call:	9	9	18	14	50	13	1	7
3. Balance Inquiry:	51	57	56	49	213	53	77	383
4. Call Back:	21	35	50	31	137	34	18	92
5. Dispatch:	9	10 1	4 0	5	28 3	7	15	77 4
6. Dispute:7. Follow-up:	40	34	72	60	206	52	1 43	214
8. General Questions & Other:	201	170	168	214	753	188	229	1145
9. Route Calls to GWA Staff:	103	56	46	72	277	69	124	620
10. No Water:	13	18	37	37	105	26	28	142
11. Online/Phone App Help:	34	31	26	30	121	30	31	157
12. Pay by Phone:	94	63	37	64	258	65	97	485
13. Pay Plan:	57	39	41	48	185	46	46	231
14. Restore Non-payment:	17	17 6	10	12 9	56	14	16 11	80
15. Secure/Unsecure Valve:16. Voice Mail:	5 82	110	10 111	108	30 411	8 103	66	57 332
17. Water leak:	11	4	7	13	35	9	9	47
	Ц							
Bill Dispute & Resolution Activities:								
i. Dispute Resolution:					C 2		42	210
 Number of disputed accounts resolved: Number of disputed accounts under review: 	14 1688	6 1680	18 1667	31 1634	69	17 1667	42 1714	210
Number of disputed accounts under review:	1000	1000	1007	1034		1007	1/14	
Data Entry of Completed Field work in CIS:								
i. Document Control:								
Number of field activities posted:	217	224	320	301	1062	266	293	1465
2. Number of field activities pending:	319	286	83	62	750	188	289	1447
Field Response Activities:	,	1 2:-		1 2	0==			4.5-5
Number of field activities assigned: Number of field activities completed:	179 220	213 225	194 241	291 297	877 983	219 246	264 283	1320 1417
Number of field activities completed: Number of field activities pending field action:	220	0	1	297	983	1	283	8
m. Number of field activities pending field action:		U	1		3		۷	0

GWA Utility Services Division Monthly Status Report Month ending SEPT 2021

FY2021							PREVIOUS	МОЛТН
UTILITY SERVICES DIVISION ACTIVITIES	WEEK ENDING: 09/11/21	WEEK ENDING: 09/18/21	WEEK ENDING: 09/25/21	WEEK ENDING: 10/02/21	SEPT 2021 MONTHLY TOTAL	WEEKLY AVERAGE SEPT 2021	WEEKLY AVERAGE AUG 2021	AUG 2021 MONTHLY TOTAL
Meter Reading Activities:								
I. Number of meters read:								
A. Electronically Read Meters:	7644	17908	6368	2750	34670	8668	8528	42638
B. Manually Read Meters:	33	34	19	9	95	24	26	132
 Unread meters (Meters scheduled but not read): 	5	14	15	4	38	10	12	60
ii. Number of data logs received:	27	34	26	1	88	22	20	102
iii. Number of data logs retrieved:	25	22	35	32	114	29	22	111
iv. Number of data logs pending field action:	0	0	0	0	0	0	0	0
v. Communication Errors/Reprogramming requests:	7	0	7	0	14	4	0	0
vi. Number of estimated readings (for the week):	85	138	185	139	547	137	159	795
vii. Reasons for Estimations:								
1. Cant locate meter:	2	1	0	0	3	1	2	10
2. Temporary Obstruction:	0	2	1	0	3	1	1	6
3. Vicious Dog:	0	0	0	0	0	0	0	0
4. Flooded meter:	0	1	0	0	1	0	0	2
Corrective action to database requested:	2	1	1	1	5	1	2	11
Possible changed out meter:	4	8	10	4	26	7	4	20
Communication/Programming error (code 92's):	0	0	0	0	0	0	1	6
8. Other:								
 Leaks detected on customer's private line: 	1260	3318	911	351	5840	1460	1348	6741
b. Reverse Flow Detected:	64	101	154	126	445	111	132	661
c. No Usage Detected:	235	409	263	128	1035	259	270	1350
d. Tamper Code:	7	8	1	3	19	5	0	2
C. Electronic Read Percentage:	99.57%	99.81%	99.70%	99.67%		99.7%	99.1%	
Illegal Connection & Unauthorized Use of Water Activities:								
Number of Inactive Still Consuming Reports rec'd & investigated:	0	2	1	1	4	1	1	3
II. Number of Illegal Connection reports rec'd & investigated:	0	1	0	4	5	1	0	1



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Financial Statement Overview September 2021

The September 2021 Financial Reports and accompanying schedules will not be available for several weeks as the Finance Division prepares year end entries and accruals. We have already begun to provide information to our auditors and expect to have the audit timely completed.

The FY2021 statements will be available at the November CCU meeting. However, some financial indicators are available and provided below:

Key Financial Indicators

Indicator	Target	Aug 2021	Sept 2021
Collection Ratio			
Month to Date	99%	94%	89%
Year to Date	99%	99%	99%
Days Billed	30 days	30 days	31 days
Employee Count	400 FTE	372 FTE	369 FTE
Water Customers	42,839	43,184	43,084
Wastewater Customers	29,805	29,796	29,897

There were 4,482 COVID-19 positive tests and 48 COVID-related fatalities reported during the month of September. Executive Order 2021-24 extended the public health emergency to October 29, 2021. While the island successfully vaccinated 119,436 persons or 87.63% of the eligible population (includes 12 -15-year-olds) by the end of September, the delta variant caused a huge increase in positive COVID tests.

On September 30, 2021, the island's COVID Area Risk (CAR) score was 24.0 and testing was available to the public at no charge at various locations throughout the island. For the month of September 2021, the average daily positive test rate was 149.

On September 22, 2021, the U.S. Food & Drug Administration authorized a booster shot of the Pfizer COVID 19 vaccine at least 6 months after the second injection for the elderly and others at high risk. Through September, GovGuam, pharmacies and clinics made available free COVID 19 vaccines in a variety of locations, the UOG Fieldhouse was reopened for vaccines

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

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

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



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Month	Customer Count	Amount Paid	Fees	% Of Fees to Payments
May - September 2020	140	\$241,335	\$4,952	2.05%
October - December 2020	100	\$194,764	\$3,916	2.01%
January - March 2021	122	\$272,887	\$5,487	2.01%
April - June 2021	150	\$333,368	\$6,703	2.01%
July 2021	50	\$106,497	\$2,141	2.01%
August 2021	50	\$108,550	\$2,183	2.01%
September 2021	54	\$103,220	\$2,075	2.01%

For the month of September, Finance posted \$24,221.43 utility payments from the Department of Administration (DOA) for eligible renters as part of the Guam Emergency Rental Assistance Program (GERAP) funded through the second federal relief act. Total GERAP payments received in FY21 were \$303.893.58. Customer Service is working with DOA to ensure that residents who qualify for the program are not disconnected while payments are in process. Once funding becomes available, DOA will also administer the homeowner assistance program which also includes assistance for utilities.

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

PUC Docket

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

An amended scheduling order was issued by the ALJ on August 19, 2021, setting a deadline for a third set of Requests for Information on September 3, 2021, and GWA's response by September 10, 2021. While settlement discussions were scheduled for September 27-October 1, 2021, they were not fruitful.

On October 4, 2021, the PUC Consultants asked for an extension of their deadline to submit testimony. On October 7, 2021, the ALJ issued a Third Amended Scheduling Order moving the deadline for the PUC Consultant's testimony to October 22, 2021, and the date for the ALJ Report and Proposed Order to November 22, 2021. Changes to the rate design and / or rates will likely not occur until December 2021 or January 2022.

Rate Stabilization Fund

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



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Debt Service per CCU Resolution 17-FY2020 which dissolved the Working Capital Reserves for Debt Service fund.

FY22 Budget

The FY22 budget was loaded into E1 prior to the end of FY21 to allow business units to key in critical requisitions. Budget reports are provided to the various divisions twice a week to assist them in managing expenses.

We continue to monitor revenues and will adjust as needed to ensure continuity of services to our customers while keeping the safety of our staff the highest priority.



CONSOLIDATED COMMISSION ON UTILITIES

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

October 18, 2021

Commissioners
Consolidated Commission on Utilities

RE: Written Recommendation to Discuss GWA Litigation Matter in Executive Session during the October 19, 2021, Consolidated Commission on Utilities Working Session Meeting for Guam Waterworks Authority

Dear Commissioners,

As the legal counsel for Guam Waterworks Authority (GWA), I hereby recommend pursuant to 5 G.C.A. § 8111, that the Commissioners discuss the following matters in Executive Session during the October 19, 2021, Consolidated Commission on Utilities Working Session Meeting for Guam Waterworks Authority

- 1. Litigation issues as stated in Agenda;
- 2. Any other matter that legal counsel for GWA may verbally recommend that the Commission hear during the above-described meeting.

Pursuant to 5 G.C.A. § 8111, the Commission must make a motion and an affirmative vote by the majority of the members prior to discussing and moving these matters into Executive Session. Please contact me at 300-6853 or 788-2331 or tgrojas@guamwaterworks.org if you have any questions.

Sincerely,

Theresa G/Rojas
GWA Legal Counsel