



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. 17-FY2022

RELATIVE TO THE APPROVAL OF THE CREATION OF LIMITED TERM APPOINTMENT ENGINEERS FOR UNITED STATES ENVIRONMENTAL PROTECTION AGENCY FUNDED PROJECTS

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 is a Guam Public Corporation established and existing under the laws of Guam; and

WHEREAS, GWA anticipates receiving an estimated \$37 million dollars in United States Environmental Protection Agency (USEPA) Construction Grant funding a year for the next 5 years; and

WHEREAS, GWA currently has three (3) engineering supervisor positions and ten (10) engineering positions for capital improvements projects; and

WHEREAS, additional engineer positions are required in order to responsibly manage and spend the grant funding within the grant cycle time limit to avoid returning unused funds to USEPA at the end of each cycle; and

WHEREAS, the CCU has approved a budget for a maximum allowable number of FTE positions, subject to the Guam Public Utilities Commission’s (PUC) approval of GWA’s petition for rate relief in Docket 19-08; and

WHEREAS, the GWA already has active recruitments in place for the maximum allowable number of FTE positions; and

1 **WHEREAS**, the USEPA is willing to fund four (4) Limited Term Appointment (LTA)
2 Engineers for 5-year terms, with the potential to extend an additional 2 years depending on
3 USEPA project needs (subject to USEPA approval), preferably as Senior Engineers (Exhibit A);
4 and

5
6 **WHEREAS**, the GWA General Manager requests the CCU to approve the creation of
7 four (4) LTA engineer (unclassified) positions for work solely on USEPA funded projects as
8 described in the Draft Work Plan (Exhibit B); and

9
10 **WHEREAS**, the GWA General Manager requests the CCU exclude these LTA engineer
11 positions from the GWA total number of full-time employees as they will be funded directly by
12 USEPA grants and work only on USEPA funded projects; and

13
14 **WHEREAS**, Public Law 34-131, Section 2, §6303(e) as added and 4 GCA §6303 (d) &
15 (2C) authorizes the creation of positions in Autonomous Agencies and Public Corporations; and

16
17 **WHEREAS**, GWA Personnel Rules and Regulations as amended by Public Law 28-159
18 Section 3 (C) authorizes the CCU to amend, modify or add a position to the list of certified,
19 technical and professional positions; and

20
21 **WHEREAS**, GWA estimates the cost of four (4) LTA engineer positions for 5-year
22 terms at Two Million One Hundred Twenty-Four Thousand Three Hundred Four Dollars
23 (\$2,124,304.00), plus a potential additional 2-year terms at Eight Hundred Forty-Nine Thousand
24 Seven Hundred Twenty-One Dollars and Sixty-Cents (\$849,721.60), to bring the total maximum
25 funding amount to Two Million Nine Hundred Seventy-Four Thousand Twenty-Five Dollars and
26 Sixty-Cents (\$2,974,025.60); and

27 **WHEREAS**, funding for these positions will be from the USEPA Construction Grants;
28 and

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

- 3 1. The recitals set forth above hereby constitute the findings of the CCU.
4 2. The CCU hereby approves and authorizes the creation of four (4) LTA engineer
5 (unclassified) positions for work solely on USEPA funded projects. (Exhibit B)
6 3. The CCU hereby authorizes the exclusion of the four (4) LTA engineer positions
7 from the PUC's maximum allowable FTE number.
8 4. The CCU hereby approves the use of USEPA grants as the funding source for the
9 four (4) LTE engineer positions.
10 5. The CCU hereby further authorizes the management of GWA to allocate the total
11 funding amount of Two Million Nine Hundred Seventy-Four Thousand Twenty-
12 Five Dollars and Sixty-Cents (\$2,974,025.60) for the four (4) LTA engineer
13 positions.
14 6. The CCU further approves management to duly notify the PUC that this will
15 exceed One Million Dollars (\$1,000,000.00) and is to be funded by USEPA grant
16 funds.

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

20
21 **DULY AND REGULARLY ADOPTED**, this 24th day of May, 2022.

22
23 Certified by:

24 

25 _____
26 **JOSEPH T. DUENAS**
27 Chairperson

28 Attested by:

29 

30 _____
31 **MICHAEL T. LIMTIACO**
32 Secretary

33 //

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SECRETARY'S CERTIFICATE

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

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

AYES: 4
NAYS: Ø
ABSENT: Ø
ABSTAIN: Ø.



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Exhibit A



GUAM WATERWORKS AUTHORITY

Position Classification Standard

SENIOR ENGINEER	
Department: Engineering	Approved Date: xx/xx/xx
[X] Exempt [] Non-Exempt	Last Updated: 02/27/07

JOB DEFINITION: Under general supervision from a senior engineer supervisor, provides routine and complex planning, design, construction, inspection, and administrative services for GWA utility construction and maintenance projects and manages third party project management and design service contracts as needed to successfully implement these projects.

ESSENTIAL FUNCTIONS: *The following duties ARE NOT intended to serve as a comprehensive list of all duties performed by all employees in this classification. Shown are duties intended to provide a representative summary of the major duties and responsibilities. Incumbent(s) may not be required to perform all duties listed and may be required to perform additional, position-specific duties.*

REPRESENTATIVE DUTIES:

Plan and direct activities of technical staff engaged in preparing designs to construct, enlarge, and modify water and wastewater facilities. Ensure designs meet technical and program requirements. Coordinate construction projects with operations personnel, local and Federal government authorities and community groups.

Design, develop and produce construction drawings and documents. Develop scope of projects; delegate components to technical staff and collaborates with specialists to produce plans. Complete necessary calculations. Oversee creation of project plan sets and design sheets and approve final plans; schedules and conducts design review meetings; ensure designs meet program requirements; review studies and final drawings as required.

Manage Architectural and Engineering service contracts. Develop scopes of work and RFP packages. Evaluate proposals and coordinates selection of consultants.

Coordinate comprehensive construction management activities to ensure that construction proceeds efficiently and in accordance with plans and specifications. Develop and tracks project schedules and takes corrective action to keep activities within schedule. Conduct periodic site visits during construction. Recommends approval of field design changes. Initiates and supervises intermittent and final inspection of facilities.

Estimate project cost and determine project budget. Coordinate funding with local and federal agencies. Assist in identifying and applying for infrastructure funding grants. Initiates and supervises bidding and contract activities. Manage project finances in computer databases.

Ensure compliance with all local and federal rules, regulations and permit requirements. Assesses and determines system deficiencies and project needs; develop scope of construction projects. Investigates sites, analyzes samples and oversees professional, technical and construction staff.

Provide technical support to operations personnel in order to facilitate performance improvement initiatives; identify, research and suggest resolution processes for emergent problems; establish and maintain preventive maintenance and other facilities operation programs; conduct engineering economy evaluations of equipment alternatives and recommend projects with better life cycle costs.

Oversee and schedule technical and construction staff. Develop goals and priorities and assign tasks.

Write engineering memorandums and reports. Participate in engineering department quality improvement initiatives. Ensure maintenance of GWA records.

Perform other duties as assigned or required.

KNOWLEDGE, SKILL and ABILITY:

- Comprehensive knowledge of principles and practices of engineering design and construction
- Average knowledge of USEPA and GEPA Drinking Water Regulations, the NPDES permit program, rules, regulations, ordinances, codes administrative orders and other operational guidelines and directives.
- Average knowledge of engineering economics.
- Average knowledge of water and wastewater system hydraulics.
- Basic knowledge of the principles and practices of engineering project management and construction safety.
- Basic knowledge of conventional and GPS survey principles and practices.
- Skill in effectively working with teams and managing and leading staff, and delegating tasks and authority.
- Skill in analyzing and interpreting data to produce technical reports and recommendations on a wide variety of engineering issues.
- Skill in assessing and prioritizing multiple tasks, projects and demands.
- Skill in evaluating the work of contractors and consultants for compliance with project plans, specifications and applicable laws, ordinances and policies.
- Skill in reading and evaluating technical drawings and schematics
- Skill in establishing and maintaining cooperative working relationships with co-workers, contractors, representatives from communities and local and Federal agencies.
- Skill to develop written specifications, scopes of work and requests for proposals for engineering services.
- Skill in operating a personal computer and utilizing a variety of software applications.
- Skill in oral and written communication.
- Ability to analyze situations accurately and make independent engineering judgments to provide information, take effective action, and resolve physical plant problems and construction support issues.
- Ability to establish and maintain effective working relationships with associates, subordinates, consultants, contractors, and local authorities in order to facilitate good relations between GWA and outside entities.

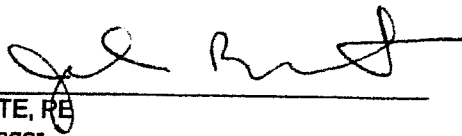
MINIMUM QUALIFICATIONS:

- a) A Bachelor's degree in engineering or equivalent from an Accreditation Board of Engineering and Technology (ABET) accredited university or college program. OR
- b) Current registration as a professional engineer, OR
- c) Three (3) years of engineering experience and a FE / EIT (Fundamentals of Engineering / Engineer In training).

Water and/or wastewater experience preferred, municipal experience preferred.

ADDITIONAL REQUIREMENTS: Depending on the needs of the organization, some incumbents in this job class may be required to obtain additional certifications or training in one or more specialty areas. A Guam driver's license with a clean driving record is required.

MINIMUM PHYSICAL REQUIREMENTS: The following demands are representative of those that must be met by an employee to successfully perform the essential functions of this job. May be required to lift approximately 50 pounds. May be exposed to infectious diseases and hazardous working environments with heavy machinery and extreme weather conditions.



JOHN M. BENAVENTE, PE
Interim General Manager

Exhibit B

DRAFT WORK PLAN (May 11, 2022)
GUAM WATERWORKS AUTHORITY (GWA)
EPA GRANT NO: M96902621-1

PROJECT NAME

Water & Wastewater System Improvements, Guam, hereafter referred to as the “**Project**”

LOCATION



Guam is an island territory of the United States and is located 900 miles north of the equator in the Western Pacific. Guam covers approximately 220 square miles and is the largest island in Micronesia. It is often referred to as the “Gateway” to the region because major airlines utilize the island as the hub to branch out to Micronesia. It is approximately 6,000 miles from San Francisco; 3,800 miles west of Honolulu; 1,500 miles south of Japan; 1,596 miles east of Philippines.

BACKGROUND

Guam Waterworks Authority (GWA) provides water (three public water systems) and wastewater services (six wastewater treatment plants) to the people of Guam with a population of approximately 180,000.

Sources for the GWA drinking water system include approximately 120 wells (pumping a combined total of approximately 38 MGD), 2-3 MGD raw water taken from the Ugum River, and treated at the Ugum Water Treatment Plant (WTP) in southern Guam, up to 4 MGD of purchased water from the Navy FENA WTP, and around 1.2 MGD from the operation of the Tumon Maui well under license from the Navy. Ground water is primarily extracted from the Northern Guam Lens Aquifer (NGLA) consisting of coral/karst geology which is highly vulnerable to microbial and other contamination. All wells are treated with chlorination/disinfection, and the Ugum treatment system operates with the use of low-pressure membrane micro-filtration. Treated water is pumped and gravity fed to the distribution systems that include approximately 500 miles of water pipelines, 36 finished water reservoir/storage tanks, and 36 booster pump stations. Most of the well water is pumped directly into the distribution system (i.e. in general there is not a separate transmission system to storage).

GWA also provides wastewater collection and treatment for island residents and various local and federal government agencies. GWA operates six wastewater treatment plants and its sewer collection and conveyance system with a total treatment capacity of approximately 26 MGD, 78 sewer pump stations, and approximately 300 miles of sewer collection lines.

The Department of Defense (DoD) is in the middle of building out for the relocation of thousands of Marines from a military Marine base in Okinawa to Guam. However, the exact increase in population, the influx of construction workers and induced growth has yet to be determined. The planned relocation of Marines from Okinawa to Guam will place additional stress on the GWA's water and wastewater infrastructure, further affecting GWA's ability to comply with the CWA and SDWA.

GWA desires to plan, design, build, operate, maintain, and manage GWA systems and facilities in a manner that provides long-term value while providing safe and reliable drinking and clean water to over 42,000 customers and meeting Guam's vision for growth and development in a sustainable manner.

In 2011 the Stipulated Order was replaced with a Court Order which required GWA: to improve the Northern District and Agana Treatment Plants to meet NPDES permit requirements, conduct infiltration/inflow analyses and sewer system evaluation survey for the southern and central sewer basins, sewer cleaning/CCTV/hot spots inspections, and implement a storage tank/reservoir repair/rehabilitation/replacement and relocation program.

In late 2009, EPA initiated, with Department of Defense (DOD) funds, an independent assessment of GWA's master planning capabilities, which made recommendations regarding planning, prioritization and costing of capital improvement projects (CIP) operation and maintenance (O&M) of existing and future facilities, staffing needs, construction management and strategies for financing operations and CIPs. This work was completed on January 29, 2010.

PROJECT GOALS & OBJECTIVES

GWA aims to protect public health and the environment through the professional implementation and management of projects that improve the utility's water and wastewater systems.

The projects listed in Table 1 are aimed to improve the water distribution and wastewater collection system and to hire engineering staff to assist in project management. The FY2023 grant allocation will be used to fund the design-build of the Gil Breeze Subdivision water and sewer system project, and the Hagatna Sewer Pump Station Force Main construction, the design of a Fat, Oil, Grease receiving station at the Northern District Wastewater Treatment Plant. In addition to the system improvements GWA will solicit to procure 4 senior level engineers with a limited term contract of 5 years to project manage GWA's EPA projects and a new vehicle is included in the budget. In the event of a budget underrun the remaining balance will be used for the following projects: Construction: Dungca's Beach Sewer Relocation, Tumon Sewer Hot Spots Rehabilitation, Pressure Zone Realignment Phase II, Pressure Zone Realignment Phase III, Fat, Oil, Grease Receiving Station and design for the Overall Island Asbestos Concrete Pipe Replacement.

Table 1. Water and Wastewater Projects (Interim Milestones and Deliverables)

Description of Project/Work Plan Goals/Tasks	Estimated Start and End Dates	Deliverables/Interim Milestones	Estimated Project Cost	Responsible Staff
1.) Gil Breeze Subdivision Water & Sewer – Design-Build	12/1/2022 to 6/28/2026	<ul style="list-style-type: none"> Procurement of contractor for design-build, and construction manager to oversee project and document milestones. USEPA & GWA Approval: Design, Construction, Change Orders, O&M manuals, testing and commissioning 	\$12,000,000	GWA CIP Engr
2.) Fat, Oil, Grease Receiving Station-Design	10/1/2022 to 12/31/2023	<ul style="list-style-type: none"> Procurement of a firm for design services. USEPA & GWA Approval: Design, and Change Orders, 	\$150,000	GWA CIP Engr
3.) Hire 4 Engineers (Limited-Term), 5-year term and a new project vehicle	10/1/2022 to 9/31/2027	<ul style="list-style-type: none"> Procurement of engineering services: 4 senior level engineers for 5-year terms (estimated to be \$2,124,304.00) Procurement of a new vehicle USEPA & GWA Approval: Agreements, Amendments and Change Orders, 	\$2,200,000	GWA CIP Engr
4.) Hagatna Sewer Pump Station Force Main-Construction	12/1/2022 to 3/31/2025	<ul style="list-style-type: none"> Procurement of contractor for constructions and construction manager to oversee project and document milestones. USEPA & GWA Approval: Construction, Change Orders, O&M manuals, testing and commissioning 	\$11,648,000	GWA CIP Engr
5.) Dungca’s Beach Sewer Relocation-Construction	10/1/2022 to 12/31/2024	<ul style="list-style-type: none"> Procurement of contractor for constructions and construction manager to oversee project and document milestones. USEPA & GWA Approval: Construction, Change Orders, O&M manuals, testing and commissioning 		GWA CIP Engr
6.) Tumon Sewer Hot Spots Rehab-Construction	10/1/2022 to 1/31/2025	<ul style="list-style-type: none"> Procurement of contractor for constructions and construction manager to oversee project and document milestones. USEPA & GWA Approval: Construction, Change Orders, O&M manuals, testing and commissioning 		GWA CIP Engr
7.) Pressure Zone Realignment PHII-Construction	10/1/2022 to 12/31/2024	<ul style="list-style-type: none"> Procurement of contractor for constructions and construction manager to oversee project and document milestones. USEPA & GWA Approval: Construction, Change Orders, O&M manuals, testing and commissioning 		GWA CIP Engr
8.) Pressure Zone Realignment PHIII-Construction	10/1/2022 to 12/31/2024	<ul style="list-style-type: none"> Procurement of contractor for constructions and construction manager to oversee project and document milestones. 		GWA CIP Engr

		<ul style="list-style-type: none"> • USEPA & GWA Approval: Construction, Change Orders, O&M manuals, testing and commissioning 		
9.) Overall Island Asbestos Concrete Pipe Replacement-Design	10/1/2022 to 12/31/2023	<ul style="list-style-type: none"> • Procurement of a firm for design services. • USEPA & GWA Approval: Design, and Change Orders, 		GWA CIP Engr
10.) Fat, Oil, Grease Receiving Station-Construction	1/1/2024 to 3/31/2025	<ul style="list-style-type: none"> • Procurement of contractor for constructions and construction manager to oversee project and document milestones. • USEPA & GWA Approval: Construction, Change Orders, O&M manuals, testing and commissioning 		GWA CIP Engr
		<ul style="list-style-type: none"> • 		
TOTAL			\$26,000,000	

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PROJECT COST

The budget period is from FY2023 thru FY2026 with a total funded amount of \$26,000,000. Please refer to the Project Cost Breakdown list.

PROJECT PERIOD

The project period is from October 1, 2022 to December 31, 2026. The projects that fall under the FY2023 funds are expected to be fully designed and constructed during the grant project and budget period.

Please refer to the Milestone Schedule.

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ENVIRONMENTAL NARRATIVE

- *Area Description* – The Water and Wastewater facilities are located on GWA property properly titled and recorded at the Department of Land Management. The collection, transmission and distribution lines are either on public easement or road right of way. All of GWA's facilities are on public lands. All applicable BMPs will be implemented to reduce impacts to environmental and historic cross-cutters.
- *Shoreline, Beaches, Wetlands* – The project locations are located inland away from the intrusion of beach shoreline and largely are situated on hillsides and plain land. Work will be performed within the footprint of existing GWA facilities, designated project areas of potential effect, and/or in recorded government easements.
- *Vegetation and Wildlife Resources* – The Water and Wastewater projects will not have any impacts to threatened or endangered species.
- *Hazardous Toxic Substances* – The Water and Wastewater projects will not store, transport, handle, produce or dispose of any hazardous materials.
- *Streets, Traffic* – Some construction projects will be on secondary streets with low to moderate traffic.
- *Air Quality* – The construction activity will not have any significant effect on air quality within the vicinity.
- *Noise* – The noise level will be typical of light motorized construction equipment, vehicles, and tools.
- *Construction* – The project activities include the Gil Breeze Subdivision, Hagatna Sewer Pump Station Force Main, Dungca's Beach Sewer Relocation, Tumon Sewer Hot Spots Rehabilitation, Pressure Zone Realignment Phase II & III and Fat, Oil, Grease Receiving Station.
- *Permits* – The project is fortunate from the standpoint of major construction permits, since most are located on previously-disturbed areas.

The following are Guam Agencies that are part of the construction permitting process and are required to review and comment:

1. Bureau of Statistics and Plans, Coastal Zone Management Program Office
2. Guam Environmental Protection Agency
3. Parks & Recreation, Guam State Historic Preservation Office (SHPO)
4. Department of Public Works, Building Permits Section (DPW)
5. Department of Agriculture, Division of Fish and Wildlife

The standard construction specification requires the Contractor to secure all the necessary permits for the project.

New review is required and underway. EPA will issue Categorical Exclusions for each of the projects before the grant is awarded.

- *Public Notification* - GWA, upon receipt of permit application will determine if the project falls under major or minor siting category.
- *Historical/Archaeological Properties* – There will be no surface elements of historic and/or pre-historic significance that will be impacted by the project, however the historical clearance has been secured from the local Historic Preservation Office.

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PROJECT IMPLEMENTATION

General Project Approach

SRF projects are identified, selected, and ranked utilizing a panel consisting of GWA and the Guam Environmental Protection Agency staff. The projects are ranked primarily based on public health concerns, water resource protection and compliance issues. In addition, as the projects are prioritized, the projects are scheduled to best utilize data collection and assessment of DW and WW assets.

GWA follows the Procurement Regulations under Guam Code Annotated Chapter 5. All projects are advertised for competitive procurement. Thereafter, the project is to be awarded to the lowest responsive and responsible bidder or qualification-based selection in accordance with the procurement process of GWA.

Project Inspection and Management

For infrastructure a Construction Management (CM) firm shall be contracted for full time oversight of the project. The CM shall be responsible for preparing daily site reports. It shall be the CM firm's responsibility to keep the GWA project manager informed of the project's progress, assure safe construction regulations are adhered to and oversee all construction activities. Additionally, the CM will ensure that all workmanship and materials (quality assurance) are as per specification, of highest quality and within cost and project schedule. The CM firm shall be contracted before finalization of the design.

As-Built

For construction projects, the Contractor is required to submit "As-Built" drawings to GWA and the EPA Project Officer and to maintain accuracy of the drawings during construction. Electronic as-built drawings and reproducible hard copies are required.

Operation and Maintenance

For construction projects, the project scope requires the Contractor to submit a "Plan of Operation" and "Operation and Maintenance Manual" of all the equipment that has to be replaced and newly installed in the water and wastewater facilities. GWA's Asset Management group will incorporate all received O&M information into its computerized maintenance management system (CMMS) following all applicable standard operating procedures (SOP).

FINANCIAL PROCESS AND DOCUMENTATION

Financial Management

Project funds will be administered in accordance with applicable Guam laws and regulations as well as USEPA's the grant terms and conditions.

All project expenditures shall be processed through the regular GWA financial management system administered by the GWA Chief Financial Officer (CFO)'s Office.

The following procedures will be followed:

- a) No contract purchases or other expenses shall be made until properly obligated and certified funds are available.
- b) No obligation can be incurred prior to allotment of funds for such obligation.
- c) GWA's Accounting Division shall maintain complete accounting documents for the project, including cash receipts and disbursement journals, payroll journals, purchase journals, and work order accounts with initial supporting documentations and other payment logs. Project financial reports shall be generated from these records on a monthly basis. GWA's CFO shall provide the construction Project Manager with a pertinent prime documents, memos, financial reports, and records of obligations and payments.
- d) The construction Project Manager/Engineer shall maintain a separate independent set of financial records for the project including all account files with all pertinent prime documents, memos, and records of obligations and payments. These records shall be reconciled monthly with proper account status reports generated by the CFO/Project Manager.
- e) All projects will be tracked separately for grant funding purposes.

Documentation

In addition to the records required to be kept under the proceeding paragraphs of this section, the following non-financial documentation will be maintained:

- a) General correspondence, contract documents, bonds, permits, reports, logs, and related documents associated with vendors, contractors, and other parties involved in the project.
- b) Monthly project status and quarterly summary reports. In addition to a narrative description of project progress and problems, these reports shall quantify work-in-place, materials on hand, received and distributed, work hours paid out of the grants by individual, equipment condition, repairs and operating costs, project receipts, and expenditures during the report period.
- c) Submittal log, contractor's submittal and shop drawings.
- d) Inspector's daily reports.
- e) Photographic records of the project.
- f) Project As-Built drawings and notes, as appropriate.

USEPA Reporting Requirements

The following items shall be submitted to the Project Officer (PO) for review and/or approval:

- a) All project plans, specifications and contract documents for review prior to bid solicitation.
- b) All Request for Proposals, Scope of Works as required by the grant conditions and Project Implementation Plans for each respective project.
- c) Prior to contract award, copies of bids, bonds, comparative bid tabulations, and other information supporting the basis of contractor selection shall be submitted to PO for review in accordance with 40 CFR Part 33.250.
- d) Prior to issuance of change order, copies of all change orders proposals, cost determinations, justification and other supporting documentations shall be submitted to Project Officer for approval. Change Order requests shall follow EPA or other approved guidelines.
- e) Documentation relating to any contractor disputes or claims.
- f) Final project inspections reports, final closeout reports and punch-lists from the CM.
- g) Copies of project acceptance and contractor’s release of claims.
- h) Submission of quarterly project performance and progress reports in accordance with Programmatic Conditions P5.

Project Budget

Please refer to the attached Work Plan Project Funding Summary.

FY2023 (Funding/Water & Wastewater)	\$26,000,000
Total	\$26,000,000

Grant Budget Summary

<u>Contractual</u>	\$26,000,000
T o t a l	\$26,000,000

Facility Planning

1. Gil Breeze Subdivision Water & Sewer System – Design-Build

Project(s) Description, Cost Estimate and Schedule

- Residents in the Gil Breeze Subdivision have been without water and sewer service for over a decade. The private developer responsible for the subdivisions' infrastructure did not install water main and sewer collection systems for the lots. The private developer has since declared bankruptcy and left the island. There are no permitted septic tank/leaching field systems in these subdivisions. The residents use portable toilets and, likely, unpermitted onsite disposal systems. The project will involve construction of onsite and offsite water distribution and sewer collection systems.
- Cost Estimate: The estimated cost is \$12,000,000, for design-construction and construction management services.
- Schedule: 12/1/2022 – 2/28/2026
 - USEPA approval prior to advertisement of services 12/2022
 - IFB advertisement for design-build services 12/2022
 - Select lowest price, qualified bidder-Select firm 4/2023
 - EPA Approval Contract 5/2023
 - Sign contract, CCU approval, NTP 6/2023
 - 30% design 11/2023
 - Permitting, start construction 1/2024
 - Anticipated project completion 6/2026

Project Cost Benefit Analysis

- Please refer to the supporting documentation included in the development of the Project Priority List for project cost benefit analysis

Technical and Financial Constructability Analysis

- Please refer to the supporting documentation included in the development of the Project Priority List for project technical and financial feasibility and constructability analyses

Environmental Impact

- Please refer to project NEPA documents for supporting documentation.

2. Fat, Oil, Grease (FOG) Receiving Station – Design

Project(s) Description, Cost Estimate and Schedule

- Description: The purpose of this project is to design a FOG station at the Northern District Wastewater Treatment Plant. The treatment currently is not able to accept fat, oil, and grease.
- Cost Estimate: The estimated cost is \$150,000, for design services.
- Schedule: 10/1/2022 – 12/31/2023
 - USEPA approval prior to advertisement of services 10/2022
 - RFP advertisement for design services 11/2022
 - Select Design firm 1/2023
 - USEPA approval of contract 01/2023
 - Award Design contract 02/2023
 - Notice to Proceed 03/2023
 - Anticipated project completion 12/2023

Project Cost Benefit Analysis

- Please refer to the supporting documentation included in the development of the Project Priority List for project cost benefit analysis

Technical and Financial Constructability Analysis

- Please refer to the supporting documentation included in the development of the Project Priority List for project technical and financial feasibility and constructability analyses

Environmental Impact

- Please refer to project NEPA documents for supporting documentation.

3. Hire 4 Engineers (5 year term) and Project Vehicle

- This task item is to obtain engineering staff to perform work to manage GWA's EPA water/wastewater projects, a 5-year contract term. Budget includes the procurement of a new vehicle for project related activities (onsite meetings, inspections, etc.). Senior engineer positions are preferred, but if applicants do not meet senior engineer requirements, then associate and/or junior engineer positions will be considered.
- Cost Estimate: The estimated cost is \$2,202,000.
- Schedule: 10/1/2022 – 9/31/2027
 - GWA will advertise the job announcement for the senior engineer position 10/2022
 - Interested applicants will be evaluated, interviewed and selected. 2/2023

- Bid advertisement for vehicle purchase. 10/2022
- Bid evaluation and award for vehicle. 1/2023 – 4/2023
- End of limited term appointment for engineer positions: 9/31/2027

4. Hagatna Sewer Pump Station Force Main – Construction

Project(s) Description, Cost Estimate and Schedule

- Description: The purpose is to construct an additional force main for the Hagatna Sewer Pump Station. The project is to provide redundancy to the pump station.
- Cost Estimate: The estimated cost is \$11,648,000 for construction and construction management services.
- Schedule: 10/1/2022 – 12/31/2024
 - USEPA approval prior to advertisement of services 12/2022
 - IFB advertisement for construction services 12/2022
 - RFP advertisement for construction management services 12/2022
 - Open bids, evaluate and select apparent low bidder 3/2023
 - Select Construction Manager 3/2023
 - USEPA approval of contract 3/2023
 - CCU approval 4/2023
 - Award CM & Construction contract 4/2023
 - Notice to Proceed 4/2023
 - Anticipated project completion 3/2025

Project Cost Benefit Analysis

- Please refer to the supporting documentation included in the development of the Project Priority List for project cost benefit analysis

Technical and Financial Constructability Analysis

- Please refer to the supporting documentation included in the development of the Project Priority List for project technical and financial feasibility and constructability analyses

Environmental Impact

- Please refer to project NEPA documents for supporting documentation.

5. Dungca Beach Sewer Relocation – Construction

Project(s) Description, Cost Estimate and Schedule

- Description: The purpose of this project is to relocate GWA’s sewer customers connected to a collection line located along the Alupang Bay coast (Dungca’s Beach) to the public sewer system on Governor Carlos Camacho Road.
- Cost Estimate: This project will be considered in the event of a budget underrun. Cost is to be determined based on fund availability.

- Schedule: 10/1/2022 – 12/31/2024
 - USEPA approval prior to advertisement of services 10/2022
 - IFB advertisement for construction services 11/2022
 - RFP advertisement for construction management services 11/2022
 - Open bids, evaluate and select apparent low bidder 1/2023
 - Select Construction Manager 1/2023
 - USEPA approval of contract 1/2023
 - CCU approval 2/2023
 - Award CM & Construction contract 2/2023
 - Notice to Proceed 2/2023
 - Anticipated project completion 1/2025

Project Cost Benefit Analysis

- Please refer to the supporting documentation included in the development of the Project Priority List for project cost benefit analysis

Technical and Financial Constructability Analysis

- Please refer to the supporting documentation included in the development of the Project Priority List for project technical and financial feasibility and constructability analyses

Environmental Impact

- Please refer to project NEPA documents for supporting documentation.

6. Tumon Sewer Hot Spots Rehabilitation – Construction

Project(s) Description, Cost Estimate and Schedule

- Description: The purpose of this project is to address critical sewer pipe replacement in San Vitores Road, Tumon.
- Cost Estimate: This project will be considered in the event of a budget underrun. Cost is to be determined based on fund availability.

- Schedule: 10/1/2022 – 12/31/2024
 - USEPA approval prior to advertisement of services 10/2022
 - IFB advertisement for construction services 11/2022
 - RFP advertisement for construction management services 11/2022
 - Open bids, evaluate and select apparent low bidder 1/2023
 - Select Construction Manager 1/2023
 - USEPA approval of contract 1/2023
 - CCU approval 2/2023
 - Award CM & Construction contract 2/2023
 - Notice to Proceed 2/2023
 - Anticipated project completion 12/2024

Project Cost Benefit Analysis

- Please refer to the supporting documentation included in the development of the Project Priority List for project cost benefit analysis

Technical and Financial Constructability Analysis

- Please refer to the supporting documentation included in the development of the Project Priority List for project technical and financial feasibility and constructability analyses

Environmental Impact

- Please refer to project NEPA documents for supporting documentation.

7. Pressure Zone Realignment Phase II – Construction

Project(s) Description, Cost Estimate and Schedule

- Description: The purpose of this project is to replace valves and pressure reducing valves to address failures and age issues. This project shall be in multiple phases.
- Cost Estimate: This project will be considered in the event of a budget underrun. Cost is to be determined based on fund availability.
- Schedule: 10/1/2022 – 12/31/2024
 - USEPA approval prior to advertisement of services 10/2022
 - IFB advertisement for construction services 11/2022
 - RFP advertisement for construction management services 11/2022
 - Open bids, evaluate and select apparent low bidder 12/2022
 - Select Construction Manager 1/2023
 - USEPA approval of contract 1/2023
 - Award CM & Construction contract 2/2023
 - Notice to Proceed 2/2023
 - Anticipated project completion 12/2024

Project Cost Benefit Analysis

- Please refer to the supporting documentation included in the development of the Project Priority List for project cost benefit analysis

Technical and Financial Constructability Analysis

- Please refer to the supporting documentation included in the development of the Project Priority List for project technical and financial feasibility and constructability analyses

Environmental Impact

- Please refer to project NEPA documents for supporting documentation.

8. Pressure Zone Realignment Phase III – Construction

Project(s) Description, Cost Estimate and Schedule

- Description: The purpose of this project is to replace valves and pressure reducing valves to address failures and age issues.
- Cost Estimate: This project will be considered in the event of a budget underrun. Cost is to be determined based on fund availability.
- Schedule: 10/1/2022 – 12/31/2024
 - USEPA approval prior to advertisement of services 10/2022
 - IFB advertisement for construction services 11/2022
 - RFP advertisement for construction management services 11/2022
 - Open bids, evaluate and select apparent low bidder 12/2022
 - Select Construction Manager 1/2023
 - USEPA approval of contract 1/2023
 - Award CM & Construction contract 2/2023
 - Notice to Proceed 2/2023
 - Anticipated project completion 12/2024

Project Cost Benefit Analysis

- Please refer to the supporting documentation included in the development of the Project Priority List for project cost benefit analysis

Technical and Financial Constructability Analysis

- Please refer to the supporting documentation included in the development of the Project Priority List for project technical and financial feasibility and constructability analyses

Environmental Impact

- Please refer to project NEPA documents for supporting documentation.

9. Overall Island Asbestos Concrete Pipe Replacement-Design

Project(s) Description, Cost Estimate and Schedule

- Description: This project shall be carried out in multiple phases, proposes to replace asbestos concrete (AC) waterlines, isolation valves & control valves around the island.
- Cost Estimate: This project will be considered in the event of a budget underrun. Cost is to be determined based on fund availability.
- Schedule: 10/1/2022 – 12/31/2023
 - USEPA approval prior to advertisement of services 10/2022
 - RFP advertisement for design services 11/2022
 - Open proposals, evaluate and select apparent low bidder 12/2022
 - Select Design firm 12/2022
 - USEPA approval of contract 01/2023
 - Award Design contract 02/2023
 - Notice to Proceed 03/2023

- Anticipated project completion

12/2023

Project Cost Benefit Analysis

- Please refer to the supporting documentation included in the development of the Project Priority List for project cost benefit analysis

Technical and Financial Constructability Analysis

- Please refer to the supporting documentation included in the development of the Project Priority List for project technical and financial feasibility and constructability analyses

Environmental Impact

- Please refer to project NEPA documents for supporting documentation.

10. Fat, Oil, and Grease Receiving Station – Construction

Project(s) Description, Cost Estimate and Schedule

- Description: The purpose of this project is to design a FOG station at the Northern District Wastewater Treatment Plant. The treatment currently is not able to accept fat, oil, and grease.
- Cost Estimate: This project will be considered in the event of a budget underrun. Cost is to be determined based on fund availability.
- Schedule: 10/1/2022 – 12/31/2024
 - USEPA approval prior to advertisement of services 1/2024
 - IFB advertisement for construction services 1/2024
 - RFP advertisement for construction management services 1/2024
 - Open bids, evaluate and select apparent low bidder 3/2024
 - Select Construction Manager 3/2024
 - USEPA approval of contract 3/2024
 - Award CM & Construction contract 4/2024
 - Notice to Proceed 4/2024
 - Anticipated project completion 6/2025

Project Cost Benefit Analysis

- Please refer to the supporting documentation included in the development of the Project Priority List for project cost benefit analysis

Technical and Financial Constructability Analysis

- Please refer to the supporting documentation included in the development of the Project Priority List for project technical and financial feasibility and constructability analyses

Environmental Impact

- Please refer to project NEPA documents for supporting documentation.

Project Milestones and Deliverables

EPA's GWA Programmatic Grant Conditions, F and G, require that:

- “For each project described in the Work Plan, the recipient shall submit draft Scopes of Work, Request for Proposals, and/or Plans and Specifications, as appropriate...”
- For Projects described in the Work Plan that include performance of data collection, a QA Plan, or other comparable document covering QA activities must be prepared. The recipient should consult with EPA...”

Project Implementation Plan

A Project Implementation Plan shall be submitted to the Project Officer for review and approval for each project. The Project Implementation Plan (PIP) shall provide a detailed scope, project schedule, and deliverables in accordance with this Workplan and the programmatic conditions of the grant which are necessary to successfully complete each project. GWA will be initiating the following projects:

- Gil Breeze Subdivision Water & Sewer – Design Build
- Fat, Oil, and Grease Receiving Station – Design
- Hire 4 Senior Engineers (5-year term) for project management and new vehicle
- Hagatna Sewer Pump Station Force Main – Construction
- Dungca's Beach Sewer Relocation – Construction
- Tumon Sewer Hot Spots-Construction
- Pressure Zone Realignment Phase II- Construction
- Pressure Zone Realignment Phase III-Construction
- Overall Island Asbestos Concrete Pipe Replacement-Design
- Fat, Oil, and Grease Receiving Station - Construction

The PIP will incorporate milestones for deliverables specific to the project contained in Tables 1, as appropriate.