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GUAM CONSOLIDATED COMMISSION ON UTILITIES

RESOLUTION NO. 08-FY2017

**RELATIVE TO AUTHORIZING GWA TO ISSUE AN INVITATION TO BID (ITB) TO
PROCURE PROPERTY INSURANCE AND AUTHORIZING GWA TO PETITION THE
GUAM PUBLIC UTILITIES COMMISSION FOR APPROVAL UNDER THE
CONTRACT REVIEW PROTOCOL**

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, under Section 6.06 (b) Insurance, of the 2005 General Indenture relative to GWA’s Water and Wastewater System Revenue Bonds, GWA is required to maintain or cause to be maintained insurance on the “System” with responsible insurer in types and amounts that is usually maintained by prudent operators of systems similar and similarly situated to GWA’s system; and

WHEREAS, “System” as defined in the Indenture means the water and sewer systems, now or hereafter existing, owned and or operated by the Authority or its’ contractors, agents or subcontractors; and

WHEREAS, GWA currently maintains a five (5) year commercial property insurance policy (See ATTACHMENT “A”) whose term will expire on 12:01 am, April 12, 2017; and

WHEREAS, under the current policy, the property covered, limits and perils insured against includes a \$30 million blanket on any one occurrence from direct physical loss to all real and personal property owned by GWA due to earthquakes and or typhoons; and

1 **WHEREAS**, GWA management desires to procure similar commercial property
2 insurance, adjusted for GWA's current state of condition, upon the expiration of the current
3 policy in force; and

4
5 **WHEREAS**, based on past experience, GWA has found that a three (3) year and or
6 five (5) years term is cost effective and beneficial to GWA; and

7
8 **WHEREAS**, based on GWA's best estimate, the IFB will exceed the General
9 Manager's obligating authority of \$250,000 which is the purpose for GWA requesting the
10 CCU's approval to issue the IFB; and

11
12 **WHEREAS**, the IFB is further subject to the Guam Public Utilities Commission under
13 the Contract Review Protocol for Guam Waterworks Authority; and

14
15 **NOW BE IT THEREFORE RESOLVED**, the Consolidated Commission on Utilities
16 does hereby approve and authorize the following:

- 17
18 1. The recitals set forth above hereby constitute the findings of the CCU.
19 2. The CCU finds that the issuance of an ITB for Property insurance to be
20 prudent.
21 3. The CCU finds and agrees with the plan to solicit new insurance bids for a
22 three (3) and or five (5) years term as cost effective and beneficial to GWA.
23 4. The approval authorized in Section 2, is subject to GWA obtaining the
24 approval of the PUC under the Contract Review Protocol, accordingly, the
25 General Manager is authorized to petition the PUCs' approval.
26 5. The General Manager is authorized to execute all documents and undertake
27 all reasonable actions necessary to issue an Invitation to Bid procurement
28 for commercial property insurance.

29
30 **RESOLVED**, that the Chairman certified and the Board Secretary attests to the
31 adoption of this Resolution.
32

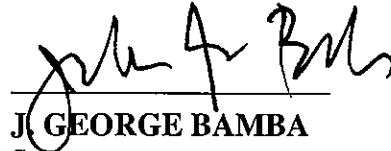
1 **DULY AND REGULARLY ADOPTED**, this 6th day of December 2016.

2
3 Certified by:

Attested by:

4
5 

6
7 **JOSEPH T. DUENAS**
8 Chairperson

9
10 

11
12 **J. GEORGE BAMBA**
13 Secretary

14 I, J. George Bamba, Board Secretary of the Consolidated Commission on Utilities as
15 evidenced by my signature above do hereby certify as follows:

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

20 AYES: _____

21 NAYS: _____

22 ABSTENTIONS: _____

23 ABSENT: _____

24 ///

25 ///

26 ///

27 ///

ATTACHMENT "A"
(Property Insurance)



**GUAM WATERWORKS AUTHORITY
ATURIDAT KINALAMTEN HANOM GUAHAN
578 North Marine Corps Drive, Tamuning, GU 96913
Phone: (671) 647-2603 Fax: (671) 646-2335**

**INVITATION FOR COMPETITIVE SEALED BIDS
FOR
PROPERTY INSURANCE
GWA IFB # 2010-12**

SECTION I. INTRODUCTION.

GWA is seeking competitive sealed fixed price bids for insurance for GWA property insurance coverage for fourteen (14) months. GWA will select the lowest responsible and responsive bidder (all in costs). All bids must be received by GWA on or before August 31, 2010, at 10:00 a.m. at the GWA Procurement Office, late bids will not be considered.

On August 17, 2010, a Pre-bid conference will be held at the GWA Conference Room located on the second floor of GWA's main office located at 578 North Marine Corps Drive, Tamuning, Guam at 10:00 a.m.

All questions and inquiries regarding this bid shall be submitted in writing (either letter, fax or e-mail) to the address below not later than August 25, 2010. Oral questions and responses shall be given no effect regardless of whether or not they were responded to or not.

Guam Waterworks Authority
Attention: Vincent Guererro
Procurement Officer
578 North Marine Corps Drive
Tamuning, GU 96913

Fax: (671) 649-3750
Phone (671) 647-7835
e-mail: vincentguerrero@guamwaterworks.org

SECTION II. BID RESPONSE FORM

TO: GENERAL MANAGER, GUAM WATERWORKS AUTHORITY

RE: FIXED BID SUMMARY IN RESPONSE TO GWA'S INVITATION FOR BID NO.
2010-12 FOR PROPERTY INSURANCE

This transmittal is a summary of the bids more fully described in the attached documents.

Coverage	Deductible	Total 14 month premium (including all costs, fees, etc.)
\$30,000,000	\$1,000,000	\$ _____

Broker: _____

Underwriter for Property Insurance _____

By: _____ Date: _____

Telephone No. _____

List of all participating carriers and ratings:

List of all participating carriers and ratings:

CARRIER	BEST'S RATING

SECTION III: BACKGROUND AND SUMMARY OF SOLICITATION

The Guam Waterworks Authority (GWA), a Guam public corporation, is the civilian monopoly supplier of water and wastewater services to the Island of Guam. GWA operates and maintains about 200 fresh water facilities on Guam providing service to a population of over 157,000 people. It also owns 87 wastewater facilities which are operated and maintained by a private contractor. The Authority has not insured its properties since its inception. The current bond indenture requires purchase of Property insurance. GWA is hereby inviting bids for insurance contracts (policies) for fourteen (14) month term.

SECTION IV: INSTRUCTIONS AND PROCEDURES FOR BIDDERS:

1. BID SCHEDULE.

The deadline for the submission of bids is August 31, 2010, at 10:00 a.m. Five copies of all responsive materials **must be received** (not postmarked) at GWA's Procurement Division located at the warehouse at GWA's Upper Tumon location (behind GTA) not later than the above date and hour. It is advisable to use courier services to expedite delivery of your bid, as Guam is served by several such courier services. It is bidder's responsibility to insure the bid is received as required above. Late bids will not be considered.

2. PREPARATION AND SUBMISSION OF BIDS.

Envelopes containing Bids shall be sealed and marked on the face with the name and address of the Bidder, the Bid Number and the time and date of submission. Telegraphic Bids will not be considered, nor will modifications by telegraph of Bids already submitted be considered. Bids **must be received** at the place of opening **on or before the opening date and time**. Bids received through the mail will not be accepted if such mail is received at the address showing after the submission date and time. Facsimile or e-mailed bids will not be accepted. Bids will be opened publicly.

All submittals must strictly conform to the Invitation for Bid and any addenda, non-responsive and non-responsible bids will not be considered.

Five (5) copies of each Bid, consisting of technical and commercial sections, must be submitted including all addenda, if any. Any and all sample documentation, including but not limited to, a complete proposed insurance policy, including exclusions, must be submitted. No submittal shall be considered complete unless accompanied by all items specified in this bid.

The IFB **must** be submitted on or before August 31, 2010 at 10:00 a.m. in a sealed envelope with the IFB number clearly marked and delivered to or addressed as follows:

TO: Guam Waterworks Authority
Attn: Vincent Guererro (or designee)
578 North Marine Corps Drive
Tamuning, GU 96913

Examination of IFB Document: Bidders shall examine the IFB Documents to inform themselves of all conditions and requirements for the execution of the proposed work. Ignorance on the part of Bidder of any part of the IFB will in no way relieve him/her of the obligation and responsibility assumed under the Contract.

Familiarity with Laws: Bidder is assumed to be familiar with Federal and Local laws, ordinances, rules and regulations that in any manner affect the work. Ignorance on the part of Bidder of any part of the IFB will in no way relieve him/her of the obligation and responsibility assumed under the Contract.

3. **EXPLANATION TO BIDDERS**

No oral explanation in regard to the meaning of the specification will be made and no oral instructions will be given before the award of the Bid. Questions regarding discrepancies, omissions, or doubts as to the meaning of the specifications must be communicated in writing (either e-mail, fax or mail) to Guam Waterworks Authority for interpretation. Bidder should act promptly and allow sufficient time for a reply to reach them before the submission of their Bids. Interpretation, if required, shall be made in the form of an amendment to the specifications, which will be forwarded to all prospective bidders, and its receipt by the Bidder should be acknowledged on the Bid form.

4. **CLARIFICATION ON INVITATION FOR BID**

Each Bidder must carefully examine the IFB and all amendments or addenda. If any Bidder (a) finds any discrepancies, omission or ambiguities in the IFB documents, (b) is uncertain as to the intent or meaning of any provision of the IFB, or (c) has any question regarding the IFB, the Bidder must promptly notify GWA in writing no later than five (5) working days prior to the closing date of the IFB thereof in writing at the address specified for submission of Bid. Replies to such notices may be made in the form of addenda, which will be issued simultaneously to all prospective Bidder's.

5. **FORM.**

All bids must be in writing and submitted in a sealed envelope, and must be signed by an officer of the bidder having authority to submit such Bids. The bids should respond in an organized fashion to all requirements of this Invitation for Bidding.

6. **MODIFICATION OR WITHDRAWAL OF BIDS.**

Bids may be modified or withdrawn prior to submittal date. Any bid withdrawal, or modification received at GWA after the due date is late and, as such, renders the underlying bid in compliance only as to that which is on hand at the submittal date and hour.

7. **RECORDING BIDS.**

Bids (and requests for bid modifications) shall be submitted to GWA officials on or before August 31, 2010 at 10:00 a.m. at the GWA Procurement Office.

Bidders shall be responsible for insuring its bid is received on or before the due date. Any late bid will not be considered by GWA. After the due date, a Register of Bids shall be prepared which shall include for all initial bids the name of each bidder, the number of modifications received, if any, and an indication of the coverage proposed, i.e. coverage of all risks or perils (a) as requested by GWA, (b) less than GWA request, and/or (c) alternate coverage as requested.

8. CONFIDENTIAL DATA.

Bidders should clearly and specifically designate which portion or portions of the bid contains trade secrets or other proprietary data they propose be kept confidential. GWA shall examine the request and make a determination as to each request. Unclear requests or requests that do not specifically identify the exact portion of the bid which the bidder is requesting to be kept confidential shall not be considered. Guam law shall govern the determination of confidentiality of any document or portion thereof.

9. AWARD.

Award shall be made to the lowest responsive and responsible bidder.

10. CANCELLATION OF INVITATION; DELAYS.

GWA reserves the right to cancel or to withdraw this Invitation for Bids, to delay determination on this Invitation for Bid, or to reject all bids, in whole or in part, at any time prior to final award. The reasons for the cancellation, delay or rejection shall be made a part of the procurement file and shall be available for public inspection.

11. INSPECTION OF GWA PROPERTIES.

Prospective bidders may inspect GWA property to be covered by the insurance in connection with submitting a bid upon request (although such inspections shall occur not later than August 17, 2010). GWA shall be given at least 72 hours advance notice of any request to inspect. No inspection shall occur within 10 days prior to the due date of the bid. GWA will provide a representative to conduct the inspections. Please contact Vince Guerrero, Guam Procurement Administrator at (671) 647-7835 if you desire to inspect GWA facilities.

12. REQUIRED APPROVALS:

A Notice to Award and Proceed are conditioned on GWA obtaining the approval of the, the Guam Consolidated Commission on Utilities and the Public Utilities Commission on Guam.

13. REPRESENTATION REGARDING GRATUITIES AND KICKBACKS.

The bidder or contractor represents that it has not violated, is not violating, and promises that it will not violate the prohibition against gratuities and kickbacks as mandated under the Guam Procurement Regulations. All Bidders shall submit an affidavit indicating that no gratuities or kickbacks have been given or made in connection with the submission of this bid.

14. REPRESENTATION REGARDING CONTINGENT FEES.

The Contractor will provide a certification to GWA in the form supplied with this bid indicating that it has not retained a person to solicit or secure a territorial contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, except for retention of bona fide employees or bona fide established commercial selling agencies for the purpose of securing business.

15. BID BOND.

All bidders shall submit to GWA a bid bond in a stated dollar amount which comprises 15% of the total bid amount. All bid bonds shall be in a form approved by GWA. Forms of security include: (1) a cashiers check made out to GWA; (2) an irrevocable letter of credit issued via a lender with offices on Guam and which can be redeemed on Guam; or (3) a bid bond issued by a surety licensed on Guam in a form acceptable to GWA capable of being presentment on Guam. Bidders with unaccepted bids will have bid bonds returned with written notices of rejection. Bid bonds will be returned in an expeditious manner following the award of the bid to the lowest responsive and responsible bidder.

16. POLICY BINDER.

The provider who is awarded the contract will be required to provide the Authority with a policy binder with the complete policies and endorsements within 10 days from the date the Notice to Proceed is received by the Bidder.

17. ADDENDA TO IFB.

In the event it becomes necessary to revise any part of this IFB, addenda will be provided to all Bidder's who received the basic IFB. Any addenda issued pursuant to this IFB must be acknowledged as being received by the Bidder.

18. AFFIDAVIT OF DISCLOSURE.

Affidavit of Disclosure of Major Shareholders - must comply with the following requirements and failure to submit an affidavit shall be basis for rejection.

- (a) Bidder must use form issued by Guam Waterworks Authority
- (b) The affidavit must be notarized and dated on the same month as the bid opening and must valid for the 12 months preceding the submission of the bid.
- (c) Date signature of the person authorized to sign the bid and the notary date must be the same.
- (d) First time affidavit must be an original - if copy; indicate Bid Number/Agency where original can be obtained.

SECTION V: GENERAL INSURANCE SPECIFICATIONS

1. The Bid must include all of the following:
 - a. Term premiums for the required coverage.
 - b. Complete specimen policy form(s) and endorsements.
 - c. Information on the claims reporting procedures to be used by each insurance carrier.
 - d. Details of a deferred premium payment plan. The rate of interest or finance charges, if any, must be fully disclosed and included in the bid prices.
 - e. Completed Brokers Questionnaire.
2. The Authority will not consider the purchase of insurance from any insurance carrier not rated at least A- or higher by A. M. Best, or equivalent. Carriers with lower ratings may apply for consideration if adequately reinsured.
3. The Authority will not consider the purchase of insurance arranged by an individual or entity not licensed as an insurance Agent, Broker, or Surplus Lines Broker in accordance with Guam law (22 G.C.A., Division 2, Insurance Law.)

The coverages, to the extent practical, should be placed with one carrier. GWA reserves the sole right to determine the acceptability of such a plan. Acceptability will be evaluated as to its overall economic results which include premium (cost), condition, relative reliability of underlying carrier(s) and ability (to include among other things, track record, experience with other assured, personnel to be assigned to the account, experience and training) to service the account for claims, provide safety/loss control services, and otherwise. The above suggests one multiform carrier but does not exclude several carriers.

4. Bid Format. Bidders are free to submit their bids in a convenient format, however, at a minimum; the bids should provide sufficient financial, operational and other details sufficient for GWA to understand fully the nature of the bid. However, all bidders must submit include specimen policies and endorsements they intend to use.

Bidder shall supply all information requested by GWA concerning the bidder's responsibility. GWA may request additional data or information for the purposes of clarification at any time prior to award. Bidders failing to submit a complete bid package may be deemed to non-responsible.

5. Rating Data. Prospective bidders requiring additional rating data should address their inquiry to the Procurement Officer. Replies with significant data will be furnished to all persons who, of record, have this Invitation For Bid.

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SECTION VI. EVALUATION OF BIDS.

In evaluating the bids, including the capacity of the bidder to perform, GWA will consider which bid provides the best value for insurance coverage. **All costs** must be included in the overall bid. GWA reserves the sole right to determine the acceptability and ranking of bids in any respect in order to provide GWA with the best overall value. In the bid evaluation process, the following factors may be considered:

- (a) Extent of hidden costs;
- (b) Whether the bidder meets the announced requirements of GWA in all material respects;
- (c) Cost of total package;
- (d) Terms of proposed insurance policy and contract;
- (e) Overall clarity and presentation of Bid;
- (f) Ability to provide the requisite services required herein;
- (g) Possess the requisite financial strength ;
- (h) a satisfactory record of performance;
- (i) a satisfactory record of integrity;
- (j) qualified legally to contract with GWA; and
- (k) supplied all necessary information in connection with their Bid.

SECTION VII. SPECIFIC INSURANCE SPECIFICATIONS

1. NAMED INSURED

Guam Waterworks Authority

2. TERM

_____ a.m. Chamorro Standard Time.

3. TOTAL DECLARED VALUES

Subject	Amount
Above-ground Assets	69,332,375
Below-ground Assets	353,466,300
Miscellaneous Unscheduled Assets, above & below ground	5,000,000
Annual Revenue	55,352,272
TOTAL	\$483,050,947

4. LOSSES

Other than typhoon damage to water storage tanks, the Authority has no record of what would be considered as insurable losses to its property – there have been some structural failures as a result of age and lack of maintenance. The following typhoon damage has been recorded:

The Ugum tank is a 2 million gallon steel tank, built in 1991. The roof, or crown, was deformed and internal bracing fractured during Super Typhoon Pongsona in 2002. The tank sustained about \$411,000 damage but was not taken out of service.

The Mangilao tanks are two interconnected 1.5 million gallon units. One tank was out of service and believed to be empty at the time of loss, the other was torn from its foundation and had to be replaced; total cost \$1,930,000.

5. RISK CONTROL

GWA owns 34 water tanks which are in various states of repair. Thirteen of these tanks have been examined¹ and are considered to be in insurable condition, the remainder are in need of structural repairs. An inspection and renovation program has been initiated that will result in the tanks being brought up to American Water Works Association Standard D100-05. This work will be completed and the tanks added to the schedule of insured assets subject to availability of funds.

6. COVERAGES REQUIRED

Coverage	Limits
Blanket Coverage for risks of direct physical loss or damage to All Real and Personal Property belonging to the Insured or in which the Insured has an insurable interest Including: Business Interruption and Extra Expense Extension Boiler and Machinery Breakdown Tidal Wave, Flood, Windstorm, Typhoon, Earthquake Shock	\$30,000,000
Sub Limits	
Valuable Papers & Records and Computer Media	\$1,000,000
Personal Property in Transit	\$250,000
Boiler Explosion and Machinery Breakdown	\$5,000,000

¹ Assessment Reference: "Phase 1 – Summary Report for Inspection, Structural Analysis and Repair of Existing Steel Welded Water Storage Tanks," prepared by Duenas, Bordallo, Camacho & Associates dated October 17, 2008.

Automatic Acquisition	\$3,000,000
Debris Removal	\$1,000,000
Self-Insured Retention	
Each occurrence and in the aggregate, all perils	\$1,000,000

7. REQUIRED CONDITIONS

a. Cancellation Clause

If Underwriters desire to cancel this policy other than for non-payment of premium, they shall give not less than ninety (90) days prior written notice by fax and Certified Mail to the GWA General Manager and GWA's Risk Manager designated below (or any other risk manager designated by GWA):

John Benavente, P.E.
GWA General Manager (acting)
578 North Marine Corps Drive
Tamuning, GU 96913

Michael Moody
Risk Manager
4188 Via Solano
Palos Verdes Estates, CA 90274

Fax: (671) 646-2335

Fax: (310) 791-2426

b. Premium Payment Clause

Unless otherwise agreed by endorsement, It is a condition of this policy that the premiums due must be paid to and received by Insurers 50% on or before midnight on each December 1st and 50% on each January 14th following each policy anniversary. If this condition is not complied with, this policy shall terminate on either of the above dates with the Insured hereby agreeing to pay premium calculated at not less than pro rata temporis.

c. Errors & Omissions Clause

The Insured shall not be prejudiced by an unintentional or inadvertent error, omission, incorrect valuation or incorrect description of the interest, risk or property; provided that notice is given to Underwriters as soon as practical after discovery of any such error or omission.

d. Schedules

The schedules of Property included with these Specifications represent, to the best of the Insured's knowledge, a complete listing of the property it wishes to insure and the current replacement values thereof. The schedules are not to be used to establish sub-limits of coverage, nor are they to be considered as any form of valuation. The amount payable under this Policy shall not be limited by individual values shown on the schedules.

e. Valuation

Recovery shall be made on the basis of one hundred percent (100%) of the property's current replacement value at the time and place of loss, subject to the limit of coverage provided by the Policy. The Insured shall not be required to rebuild or replace damaged or destroyed property on the same site nor with like kind and quality.

- f. Permission to Add or Delete Property**
Permission is granted to add or delete property during the term of the policy. Newly acquired property shall be automatically covered from the date of acquisition until the next policy anniversary. The additional premium for such property, and the return premium for property deleted from coverage, will be determined at each policy anniversary by audit adjustment. The policy anniversary is agreed to occur at 12.01 AM Local Time each 1st October.
- g. Business Interruption and Extra Expense Extension**
Coverage is extended to include the Actual Loss sustained by the Insured resulting directly from Interruption of Business for a period not to exceed twenty-four (24) calendar months.
Coverage is extended to include the necessary Extra Expense incurred by the Insured in order to continue as nearly as practicable the normal conduct of the Insured's business following loss or damage to property insured by this Policy.
- h. Demolition Cost and Increased Time to Rebuild**
The cost of demolishing any undamaged portion of the building(s) covered, including the cost of clearing the site caused by loss from any insured peril and resulting from enforcement of any state or municipal law or ordinance regulating the construction or repair of buildings. Underwriters will also be liable for loss due to the additional period of time required for repair or reconstruction, in conformity with the minimum standard of such law or ordinance.
- i. Increased Cost of Construction**
The amount of insurance includes within the sum insured the actual amount of the increased costs of repair, rebuilding or construction resulting from the enforcements of any applicable law or ordinance regulating the construction or repair of buildings.
- j. Denial of Access by Civil Authority**
This Policy is extended to cover the actual loss sustained during the period of insurance against, access to real or personal property is impaired in whole or in part due the necessity to comply with Building and other Regulations under or framed in pursuance of any act in force at time of loss of any Public Authority.
- k. Waiver of Coinsurance or Average Clause**
In the event of loss, there shall be no application of a coinsurance or average clause in determining the recovery due the Insured.
- m. Waiver of Subrogation - Tenants**
In event of loss, Underwriters waive their rights of subrogation against any tenant occupying, renting or leasing property from the Insured.
- n. Underground Piping Damage/Sink Hole Restoration**
In the event of loss or damage to underground piping, recovery shall be made on the basis of the actual costs to repair or replace the damaged piping and connected hardware plus an additional amount, not to exceed \$500,000, to replace soil and paving removed by action of water or other fluids discharged from the damaged pipe.

o. Damage to Building Exterior

Any endorsement or clause that excludes coverage for loss or damage to paint or waterproofing material applied to the exterior of a Building or other property, applied to the exterior surface of the Building or property shall be waived.

p. Damage to Building Interior

Any endorsement or clause that excludes coverage for damage to the inside of a Building or property in the Building caused by rain, sand, or dust unless wind first damages the roof or wall and enters through the resulting opening shall be waived.

q. Earthquake Damage to Buildings

Any endorsement or clause that limits coverage to damage that weakens the structural frame or therefore the stability of the life of the Building or structure shall be waived.

Any endorsement or clause that excludes loss for plaster cracks between masonry and gypsum board and any other deterioration of cement or plaster, as well as any damage caused by shrinkage, settling, deterioration and/or wear and tear shall be waived.

r. Jurisdiction

This insurance shall be governed by and construed in accordance with the laws of Guam and the exclusive jurisdiction Guam's courts. The seat of arbitration, if any, shall be Guam.

s. Service of Suit Clause

To be determined.

8. DEFINITIONS & NOTES

a. Booster Pumps are defined as the pump, powering motors, electrical panels, transformers, and switches, the pump base, enclosing structures, fences, and any other related equipment of every kind and description. Booster Pumps are located above ground in concrete enclosures also housing generator rooms.

b. Water Wells are defined as the well casing, the well head, air release valves, check valves, by-pass valves, flow meters, chemical injection units, the pump, powering motors, electrical panels, transformers, and switches, enclosing structures, fences, and any other related equipment of every kind and description. Water wells are considered to be 90% below ground, 10% above; i.e. valves, meters, etc.

c. Manholes are defined as the frame, cover, ladder components, cones, the barrel, bench and any other related equipment of every kind and description. Manhole covers and frames are at grade level, but do not extend above ground.

d. Treatment Plants are defined as pumps, basins, control centers, ancillary buildings, fencing, transformers, electrical panels, power generating facilities, and any other related equipment of every kind and description.

e. Storage Tanks are defined as the tank, its base, retaining rings and clips, lighting, ladders, pumps, their powering motors, transformers, gages, valves, back flow preventers, fences, and any other associated equipment of every kind and description.

9. SCHEDULES (see below)

***Building and Contents
Fresh Water System***

- Booster Pump Stations**
- Pressure Reducing Valves**
- Water Storage Tanks**
- Water Treatment Plant**
- Underground Piping**
- Water Wells**

Waste Water System

- Booster Pumps**
- Manholes**
- Sewage Treatment Plants**
- Underground Piping**

**GUAM WATERWORKS AUTHORITY
Building and Contents
May 2010**

No.	Description	Building	Contents	Area	Sto	Const
1	Admin Building	2,500,000	1,000,000	15,000	2	C
	Annual Revenue	55,252,272				
	Grand Total	\$58,752,272				

Const. Legend
C - Concrete

Notes:

1. Lighting and fencing attached to buildings are included with stated building values.

GUAM WATERWORKS AUTHORITY
 Fresh Water System - Booster Pump Stations
 October 2009

No.	Name	Booster Pumps and Motors			Unit Repl Cost	Total Repl Cost	Motor Contr Ctr Repl Cost	Total per Station
		GPM	Pumps HP	Quan.				
1	Astumbo	5	1.5	1	750	750	563	1,313
2	Gayinero	350	15.0	2	8,100	16,200	6,075	22,275
3	Hyundai	600	50.0	2	15,000	30,000	11,250	41,250
4	Latte Heights	550	15.0	3	6,400	19,200	4,800	24,000
5	Mataguac	300	25.0	3	10,000	30,000	7,500	37,500
6	Northern Treatment Plant	25	15.0	1	3,000	3,000	2,250	5,250
7	Santa Rosa	85	10.0	2	7,500	15,000	5,625	20,625
8	Wusstig	125	15.0	1	5,000	5,000	3,750	8,750
9	Yigo Elevated Tank	100	5.0	2	1,700	3,400	1,275	4,675
10	Adawag	15	7.0	1	2,500	2,500	1,875	4,375
11	Asan Spring (stand by)	280	10.0	3	5,500	16,500	4,125	20,625
12	Camacho	40	3.0	1	1,500	1,500	1,125	2,625
13	Mannengon Accesss Road	650	40.0	3	16,500	49,500	12,375	61,875
14	Nimitz Hill (Lower)	50	15.0	2	2,500	5,000	1,875	6,875
15	Pale Kiren	130	5.0	1	2,000	2,000	1,500	3,500
16	Ulloa/Untalan	5	1.5	1	750	750	563	1,313
17	Brigade	800	100.0	3	16,500	49,500	12,375	61,875
18	Geus	400	40.0	3	14,900	44,700	11,175	55,875
19	Malojloj	540	40.0	2	16,500	33,000	12,375	45,375
20	Malojloj	200	20.0	1	16,400	16,400	12,300	28,700
21	Malojloj Elevated Tank	250	10.0	3	9,250	27,750	6,938	34,688
22	Pago Bay	1,100	75.0	3	13,000	39,000	9,750	48,750
23	Pigua	80	5.0	1	2,500	2,500	1,875	4,375
24	Santa Ana Lowar	20	7.5	1	2,500	2,500	1,875	4,375
25	Santa Ana Upper	350	50.0	3	14,250	42,750	10,688	53,438
26	Santa Rita Springs	650	40.0	2	5,600	11,200	34,000	45,200
27	Toguan	350	15.0	2	3,700	7,400	2,775	10,175
28	Truman	180	20.0	1	10,000	10,000	7,500	17,500
29	Truman	200	30.0	1	12,000	12,000	9,000	21,000
30	Truman	400	50.0	1	14,900	14,900	11,175	26,075
31	Umatac#1	80	5.0	1	2,500	2,500	1,875	4,375
32	Umatac#2	250	10.0	2	5,700	11,400	4,275	15,675
33	Windward Hills	400	60.0	3	15,000	45,000	11,250	56,250
					572,800		227,725	800,525
					Total Replacement Cost			\$800,525

GUAM WATERWORKS AUTHORITY
 Fresh Water System - Pressure Reducing Valves
 November 2009

No.	Name	Street	Size, in.	Repl. Cost
1	PRVIO_6_12_RTE3	Along Rte 3, S of swamp	10	3,600
2	PRV8 RTE15TAKANO	Rte 15 & Trebor	8	2,200
3	PRV-UNK SIZE-RD INTO TIJMON FM RTE 1	Pale San Vitores	N/A	
4	PRV-12_UPPTUMON	Rte 1 nr Adrian Sanchez St.	12	5,000
5	PRV-6 UPPTUMONI	Rte 1 nr Adrian Sanchez St	6	1,200
6	PRV-10 UPPTUMON2	Andrian Sanchez St nr Rte 1	10	3,600
7	PRV UKNSIZE-AIRFUELT	Rte 10A, W of Rte 16 inter	12	5,000
8	PRV6 AIRPORT	Rte 10A, NE Chalan Pasaheru	6	1,200
9	PRV6 RTE16	Rte 16 & N Sabana Barrigada	6	1,200
10	PRV8 RTE16	Rte 16 & N Sabana Barrigada	8	2,200
11	PRVIO_4 RTE15	Rte 15 & Street S-3	10	3,600
12	PRV12 RTE15	Rte 15 & Marbo Cave	12	5,000
13	PFJ UNKSIZE_11YAN	Rte 10, SW inter Sabana Barr	N/A	
14	PRV4_10 MAIMAI RD1	N of Dairy Rd, E of Eging Dr	10	3,600
15	PRV12 MAIMAI-RD	Dairy Rd, W of Rte 10	12	5,000
16	PRV_12 ORDOT MAYORS	Dero Rd & Judge Sablan St	12	5,000
17	PRV8 RTE15	Rte 15 @ Terao	8	2,200
18	PFI_8 MARJANO ST	Jesus Mariano & Rte 10	8	2,200
19	PRV_NIMITZHILL_1 OF3	Nimitz Dr nr Rte 6	6	1,200
20	PRV_NIMITZHILL_2 OF3	Nimitz Dr nr Gualton Cir	6	1,200
21	PRV_NIMITZHILL_3 OF3	Nimitz Dr nr Acho Cir	6	1,200
22	PRI VI 2 SANTA RITA	Rte 12 & Palo Ferdinan Wy	12	5,000
23	PRV6 SANTA RITA	Palo Ferdinan, E of Santa Rosa	6	1,200
24	PRV12 SOUTHERNHIGH	Palo Ferdinan, W of Sumay Mem	12	5,000
25	PRV6 SANTA RITA-NAMO	Rte 12 & Annex	6	1,200
26	PRV8 SANTA-RITA	Pale De Leon St, W of Chalan Pago	8	2,200
27	PRV12 AGAT	Erskin & Duenas	12	5,000
28	PRV-16 NR TRUMAN	Sumay Memorial	16	8,500
29	PRV @ SINIFA BPS	Rte. 17	8	2,200
30	PRV12 WINDWARDHILLS	Rte 17, E of Fairway	12	5,000
31	PRV8 AT-SEMINARY	Rte 4 N of Rte 17	8	2,200
32	PRV8 YONA	Rte 4 S of Rte 17	8	2,200
33	PRV6 UMATAAC2	Rte 4 S of Jose S. Quinata	6	1,200
34	PRV6 UMATAAC2	Rte 4 & Jesus Quidachay	6	1,200
35	PRV6 MERJZO	Chalan J. Cruz N of Rte 4	6	1,200
Total Replacement Cost				\$98,700

GUAM WATERWORKS AUTHORITY
Fresh Water System - Water Storage Tanks
26 October 2009

No.	Reservoir	Capacity (mg)	Height (ft)	Const.	Year		Repl. Cost
					Built/Rebuilt		
1	Kaiser Dededo	2.5	40.0	Steel	1992		1,950,000
2	Mangilao#1	1.0	40.0	Steel	2009		1,400,000
3	Mangilao#2	2.0	40.0	Steel	1991		1,800,000
4	Nissan (Tumon #2)	1.0	40.0	Steel	Unk.		1,350,000
5	Yigo#1	0.5	40.0	Steel	Unk.		900,000
6	Yigo#2	2.5	40.0	Steel	1995		1,950,000
7	Manenggon	2.0	40.0	Steel	1992		1,800,000
8	Nimitz Hill (Upper)	0.010	0.0	Steel	1998		45,000
9	Inarajan (Gura)	0.2	24.0	Steel	1980		700,000
10	Santa Ana Lower (Agat#1)	1.0	40.0	Steel	1981		1,350,000
11	Santa Ana Upper (Agat#2)	0.5	40.0	Steel	1995		900,000
12	Ugum	2.0	40.0	Steel	2009		2,100,000
13	Barrigada#3	3.0	40.0	Steel	1993		2,400,000

Total Replacement Cost \$18,645,000

GUAM WATERWORKS AUTHORITY
Fresh Water System - Water Treatment Plant
December 2009

<u>No.</u>	<u>Component</u>	<u>Repl. Cost</u>
1	Raw Water receiving system and delivery	606,180
2	Water processing system	3,300,000
3	Mixing Basin	40,800
4	Flocculation Basin	20,000
5	Sedimentation Basin	60,000
6	Master Control Center	1,505,000
7	Filter pipe gallery	78,740
8	Chlorination room	352,000
9	Chemical room	100,000
10	Booster pump station	47,930
11	Back wash treatment processing system	150,000
12	Centrifuge room	100,000
13	Laboratory-Control room	277,000
14	Emergency generator room	161,000
Total Replacement Cost		\$6,798,650

**GUAM WATERWORKS AUTHORITY
Fresh Water System - Underground Piping
January 2010**

<u>Type</u>	<u>Diameter*</u>	<u>Length</u>	<u>Unit Cost</u>	<u>Repl. Cost</u>
Class C-900 PVC	4"	2,039,000	80.00	163,120,000

***NOTE: UG pipe diameters range from 2" to 8". 4" diameter pipe buried between 5-10 feet was selected as a reasonable average.**

Source: WRMP & GWA Engineering

GUAM WATERWORKS AUTHORITY
 Fresh Water System - Water Wells
 November 2009

No.	Name	Municipality	Location	(gpm)	Built/Rebuilt	Repl. Cost
1	A-01	Chalan Pago-Ordot	Ordot after Chaot Bridge	216	Feb. 1965	140,000
2	A-02	Chalan Pago-Ordot	Dairy Rd. next to Sanctuary	241	Sept 1965	140,000
3	A-03	Chalan Pago-Ordot	Ordot along RI 4	180	April 1966	140,000
4	A-04	Chalan Pago-Ordot	Dairy. Evangelista St	244	June 1966	140,000
5	A-05	Sinajana	Afame Sinajana	269	August 1966	140,000
6	A-06	Sinajana	Afame Sinajana	241	May 1966	140,000
7	A-08	Chalan Pago-Ordot	Chalan Pago across Gas sta.	206	July 1967	140,000
8	A-09	Mangilao	Dairy Rd. Back DOC	230	April 1967	140,000
9	A-10	Mangilao	Dairy Rd. corner White St.	233	May 1967	140,000
10	A-12	Chalan Pago-Ordot	Ordot across Bautista Church	235	Oct 1973	140,000
11	A-13	Mangilao	Dairy Rd before DCC entrance	237	Oct 1973	140,000
12	A-14	Mangilao	Corner at Rt.10 & 15	147	May 1973	140,000
13	A-15	Barrigada	Rt. 10 Untalan school	231	June 1973	140,000
14	A-17	Mangilao	Rt.10 Public Health	180	August 1973	140,000
15	A-18	Mangilao	Dairy Rd. acr Dept of Agriculture	229	Oct 1973	140,000
16	A-19	Mangilao	Chalan Pago After traffic light	138	Oct 1973	140,000
17	A-21	Mangilao	Mangilao next to Mayor office	213	Feb. 1974	140,000
18	A-23	Agana	Rt 4 after Mac Donald	317	May 1983	140,000
19	A-25	Agana	Rt. 4 after Town House	245	Oct 1983	140,000
20	A-26	Mongmong-Toto-Maite	Mongmong-Toto Softball field	50	May 1983	140,000
21	A-28	Barrigada	Corner at Leyang Manibusan	223	May 1983	140,000
22	A-29	Sinajana	Agana Spring	403	n/d	140,000
23	A-30	Sinajana	Agana Spring	755	n/d	140,000
24	A-31	Agana Heights	Before Cliff hotel	293	n/d	140,000
25	A-32	Agana Heights	Aross Naval Hospital	173	n/d	140,000
26	AG-01	Yigo	Machananao inside AAFB	173	n/d	140,000
27	AG-2	Yigo	Machananao Paintball	480	May 2000	140,000
28	D-01	Dededo	Dededo Golf Course	257	Feb. 1965	140,000
29	D-02	Dededo	Dededo Golf Course	187	Feb. 1965	140,000
30	D-03	Dededo	Dededo Golf Course	149	June 1965	140,000
31	D-04	Dededo	Dededo Golf Course	172	May 1965	140,000
32	D-05	Dededo	Dededo Golf Course	166	Dec. 1965	140,000
33	D-06	Dededo	Dededo Golf Course	189	Feb.1966	140,000
34	D-07	Dededo	Y-Sensong Rd	198	Nov.1996	140,000
35	D-08	Dededo	Y-Sensong Rd	185	Sept.1996	140,000
36	D-09	Dededo	Dededo Golf Course	196	Jan. 1996	140,000
37	D-10	Dededo	Butolu St.	351	March 1968	140,000
38	D-11	Dededo	Dededo Golf Course	226	April 1969	140,000
39	D-12	Dededo	Y-Sensong Rd	188	Oct 1971	140,000
40	D-13	Dededo	Swamp Rd. 22	200	Jan.1971	140,000
41	D-14	Dededo	Across Dededo Bio Path	200	Aug. 1973	140,000
42	D-15	Dededo	Benavente Middle School	202	Nov. 1974	140,000
43	D-16	Dededo	Sta Monica next to Public health	161	Oct 1979	140,000
44	D-19	Dededo	Swamp Rd.	227	n/d	140,000
45	D-20	Dededo	Swamp Rd.	207	n/d	140,000

GUAM WATERWORKS AUTHORITY
Fresh Water System - Water Wells
November 2009

No.	Name	Municipality	Location	(gpm)	Built/Rebuilt	Repl. Cost
46	D-21	Dededo	Swamp Rd.	157	n/d	140,000
47	D-22	Dededo	Bonito lane, Y-Sengsong Rd.	200	n/d	140,000
48	D-24	Dededo	Y-Sengsong Rd.	180	n/d	140,000
49	D-25	Dededo	Chn. Natibo, Y-Sengsong Rd.	400	March 1999	140,000
50	D-26	Dededo	Chn. Natibo, Y-Sengsong Rd.	250	March 1999	140,000
51	D-27	Dededo	Swamp Rd.	400	August 1999	140,000
52	D-28	Dededo	Swamp Rd.	200	August 1999	140,000
53	EX-05A	Dededo	Dededo Golf Course	254	n/d	140,000
54	EX-11	Barrigada	Latte Heights back Adacao Sch.	210	n/d	140,000
55	F-01	Dededo	Fenegayan Rt.3 POL	140	Feb. 1969	140,000
56	F-02	Dededo	Fenegayan Rt.3 POL	121	Dec.1971	140,000
57	F-03	Dededo	Fenegayan Rt.3 POL	142	Feb. 1972	140,000
58	F-04	Dededo	Fenegayan Rt.3 POL	137	Feb. 1975	140,000
59	F-05	Dededo	Near Astumbo Corn. Center	145	April 1975	140,000
60	F-06	Dededo	Corner Y-sengsong and R13	151	n/d	140,000
61	F-07	Dededo	NCS pipeline	170	n/d	140,000
62	F-08	Dededo	Corner Y-sengsong & Balaku	149	May 1975	140,000
63	F-09	Dededo	Y-Sensong Rd acr Astumbo Sch.	140	n/d	140,000
64	F-10	Dededo	NCS POL R13	142	n/d	140,000
65	F-11	Dededo	NCS POL Rt.3	142	n/d	140,000
66	F-12	Dededo	Machanao to Piga	148	n/d	140,000
67	F-13	Dededo	Bongbong Machanao	380	Dec. 1996	140,000
68	F-15	Dededo	Corazon Machanao	440	Dec. 1996	140,000
69	F-16	Dededo	Corazon Machanao	230	Dec. 1996	140,000
70	F-17	Dededo	Corazon Machanao	240	Dec. 1995	140,000
71	F-18	Dededo	Corazon Machanao	240	Dec. 1995	140,000
72	F-19	Dededo	Route 3	200	Nov. 1998	140,000
73	F-20	Dededo	Route 3	200	Dec. 1998	140,000
74	G-501	Dededo	GHURA playground	183	n/d	140,000
75	H-01	Tumon	Harmon Two Lvrs pt.	288	n/d	140,000
76	HGC-02	Dededo	Sta Ana Subdivision	444	n/d	140,000
77	M-01	Barrigada	Latte Heights, Plantation	109	April 1965	140,000
78	M-02	Barrigada	Latte Heights, Plantation	184	April 1968	140,000
79	M-03	Barrigada	Latte Heights, Plantation	177	Dec. 1967	140,000
80	M-04	Barrigada	Latte Heights, Plantation	138	March 1968	140,000
81	M-05	Barrigada	Lemon China St Macheche	176	Feb. 1969	140,000
82	M-06	Barrigada	Villa Rosario Condo.	168	August 1969	140,000
83	M-07	Dededo	Butter Cup St. Macheche	175	June 1970	140,000
84	M-08	Barrigada	Carnation St.Latte Heights	158	June 1970	140,000
85	M-09	Barrigada	Mangilao Route 15	162	Sept 1970	140,000
86	M-12	Dededo	Harmon Loop	104	Oct.1973	140,000
87	M-15	Dededo	Lemon China St Macheche	172	March 1982	140,000
88	M-17B	Barrigada	Behind Conwod	153	n/d	140,000
89	M-18	Barrigada	Rt. 15 before Iglacia ni Christo	325	June 1997	140,000
90	M-20A	Barrigada	Behind Conwood	400	Dec. 1995	140,000

GUAM WATERWORKS AUTHORITY
Fresh Water System - Water Wells
November 2009

No.	Name	Municipality	Location	(gpm)	Built/Rebuilt	Repl. Cost
91	M-21	Airport Road DW	Airport Rd next to Gas Station	250	July 1999	140,000
92	M-23	Barrigada	Carnation St. Latte Heights	225	May 2000	140,000
93	NAS-01	Tiyan	Tiyan	200	n/d	140,000
94	Y-01	Yigo	Asardas Drive.	141	Feb. 1967	140,000
95	Y-02	Yigo	Asardas Drive.	161	Jan. 1973	140,000
96	Y-03	Yigo	Beside Yigo Mayor Office	138	n/d	140,000
97	Y-04	Yigo	Back of Ace Hardware, Yigo	220	n/d	140,000
98	Y-05	Yigo	Simon Sanchez High School	148	n/d	140,000
99	Y-06	Yigo	Simon Sanchez High School	136	n/d	140,000
100	Y-07	Yigo	Gayinero Dr. Yigo Elem Sch.	514	n/d	140,000
101	Y-09	Yigo	Gayinero Dr. Yigo Elem Sch.	472	n/d	140,000
102	Y-10	Yigo	Aga Blvd Ypaopao estates	250	July 1997	140,000
103	Y-12	Yigo	Batulo St Dededo	235	n/d	140,000
104	Y-14	Yigo	Back of Ace Hardware, Yigo	400	July 1997	140,000
105	Y-15	Yigo	Rt. 15 UPI Elem. School	600	May 1993	140,000
106	Y-16	Yigo	Before Ace Hardware Yigo Rt. 1	250	Aug. 2000	140,000
107	Y-17	Yigo	Eavngelista St Yigo	350	May 2000	140,000
108	Y-18	Yigo	Before Ace Harware Yigo Rt. 1	250	April 1999	140,000
109	Y-19	Yigo	Andersen South Yigo	500	April 1999	140,000
110	Y-20	Dededo	Andersen South Yigo	500	April 1999	140,000
111	Y-21	Yigo	Before Ace Harware Yigo Rt. 1	350	Aug. 2000	140,000
112	Y-22	Dededo	Ypaopao Estate Yigo	300	March 2002	140,000
113	Y-23	Yigo	Chn. Paharo, Yigo	380	Feb. 2000	140,000
114	MJ-01	Malojloj	Malojloj Subdivision	56	n/d	140,000
115	MJ-05	Malojloj	Malojloj Subdivision	58	n/d	140,000
Total Replacement Cost						\$16,100,000

NOTES: Wells A-07, D-17, D-18, M-14, MI7A are out of service, require re-drilling
Wells MJ-01 & MJ-05 are on standby as needed

GUAM WATERWORKS AUTHORITY
Waste Water System - Booster Pump Stations
November 2009

No.	District	Station	HP	Pump Purchase	Remove and Reinstall	Repl. Cost
1	Central District	Leyang	10	8,500	3,000	11,500
2	Central District	Leyang	10	8,500	3,000	11,500
3	Central District	Maite Ejector	10	8,500	3,000	11,500
4	Central District	Maite Ejector	10	8,500	3,000	11,500
5	Central District	Toto Gardens	10	8,500	3,000	11,500
6	Central District	Toto Gardens	10	8,500	3,000	11,500
7	Central District	Cabras Island	5	8,500	3,000	11,500
8	Central District	Cabras Island	5	8,500	3,000	11,500
9	Central District	Namo	5	8,500	3,000	11,500
10	Central District	Namo	5	8,500	3,000	11,500
11	Central District	Alupang Cove	7.5	8,500	3,000	11,500
12	Central District	Alupang Cove	7.5	8,500	3,000	11,500
13	Central District	Flora Gardens	7.5	8,500	3,000	11,500
14	Central District	Flora Gardens	7.5	8,500	3,000	11,500
15	Central District	Casimero	10	8,500	3,000	11,500
16	Central District	Casimero	12	8,500	3,000	11,500
17	Central District	Sinajana	14	8,500	3,000	11,500
18	Central District	Sinajana	14	8,500	3,000	11,500
19	Central District	Piti	14	8,500	3,000	11,500
20	Central District	Chalan Pago 5	15	9,500	3,000	12,500
21	Central District	Chalan Pago 5	15	9,500	3,000	12,500
22	Central District	Ordot	15	9,500	3,000	12,500
23	Central District	Ordot	15	9,500	3,000	12,500
24	Central District	MongMong/Toto	17	9,500	3,000	12,500
25	Central District	MongMong/Toto	17	9,500	3,000	12,500
26	Central District	Bayside	20	12,600	3,000	15,600
27	Central District	Commercial Port	23	12,600	3,000	15,600
28	Central District	Commercial Port	25	16,000	3,000	19,000
29	Central District	Asan	28	16,000	3,000	19,000
30	Central District	Dairy Road	30	17,800	5,000	22,800
31	Central District	Dairy Road	30	17,800	5,000	22,800
32	Central District	Dairy Road	30	17,800	5,000	22,800
33	Central District	Mangilao	39	17,800	5,000	22,800
34	Central District	Mangilao	39	17,800	5,000	22,800
35	Central District	Chalan Pago 3	50	23,200	5,000	28,200
36	Central District	Chalan Pago 3	50	23,200	5,000	28,200
37	Central District	Hagatna	58	23,200	5,000	28,200
38	Central District	Hagatna	58	23,200	5,000	28,200
39	Central District	Hagatna	28	23,200	5,000	28,200
40	Central District	Mamajanao	70	24,800	5,000	29,800
41	Central District	Mamajanao	70	24,800	5,000	29,800
42	Central District	Mamajanao	70	24,800	5,000	29,800
43	Central District	Barrigada	75	34,500	8,000	42,500

GUAM WATERWORKS AUTHORITY
Waste Water System - Booster Pump Stations
November 2009

<u>No.</u>	<u>District</u>	<u>Station</u>	<u>HP</u>	<u>Pump Purchase</u>	<u>Remove and Reinstall</u>	<u>Repl. Cost</u>
44	Central District	Barrigada	75	34,500	8,000	42,500
45	Central District	Pago Double	100	37,100	8,000	45,100
46	Central District	Pago Double	100	37,100	8,000	45,100
47	Central District	Tai Mangilao	115	37,100	8,000	45,100
48	Central District	Tai Mangilao	115	37,100	8,000	45,100
49	Central District	Tai Mangilao	115	37,100	8,000	45,100
50	Central District	Chaot (New)	190	42,000	8,000	50,000
51	Central District	Chaot (New)	190	42,000	8,000	50,000
52	Central District	Chaot (New)	190	42,000	8,000	50,000
53	Northern District	Latte Sun Rise	3	8,500	3,000	11,500
54	Northern District	Latte Sun Rise	3	8,500	3,000	11,500
55	Northern District	Santa Ana	3	8,500	3,000	11,500
56	Northern District	Santa Ana	3	8,500	3,000	11,500
57	Northern District	Latte Plantation	5	8,500	3,000	11,500
58	Northern District	Latte Plantation	5	8,500	3,000	11,500
59	Northern District	Hafa Adai	12	8,500	3,000	11,500
60	Northern District	Hafa Adai	12	8,500	3,000	11,500
61	Northern District	Latte Dbl Trouble	12	8,500	3,000	11,500
62	Northern District	Latte Dbl Trouble	12	8,500	3,000	11,500
63	Northern District	Latte Submarine	12	8,500	3,000	11,500
64	Northern District	Latte Submarine	12	8,500	3,000	11,500
65	Northern District	Astumbo #1	14	8,500	3,000	11,500
66	Northern District	Astumbo #1	14	8,500	3,000	11,500
67	Northern District	Astumbo #2	14	8,500	3,000	11,500
68	Northern District	Astumbo #2	14	8,500	3,000	11,500
69	Northern District	FEMA '96	14	8,500	3,000	11,500
70	Northern District	FEMA '96	14	8,500	3,000	11,500
71	Northern District	Pacific Latte	14	8,500	3,000	11,500
72	Northern District	Pacific Latte	14	8,500	3,000	11,500
73	Northern District	PGD	14	8,500	3,000	11,500
74	Northern District	Macheche	20	12,600	3,000	15,600
75	Northern District	Macheche	20	12,600	3,000	15,600
76	Northern District	Ypaopao Estates	20	12,600	3,000	15,600
77	Northern District	Ypaopao Estates	20	12,600	3,000	15,600
78	Northern District	Ypaopao Estates	25	16,000	3,000	19,000
79	Northern District	Paseo De Oro	30	17,800	5,000	22,800
80	Northern District	Paseo De Oro	30	17,800	5,000	22,800
81	Northern District	PGD	30	17,800	5,000	22,800
82	Northern District	Machanao	47	19,600	5,000	24,600
83	Northern District	Machanao	47	19,600	5,000	24,600
84	Northern District	Ypao	47	19,600	5,000	24,600
85	Northern District	Harmon	47	19,600	5,000	24,600
86	Northern District	Yigo	70	24,800	5,000	29,800

GUAM WATERWORKS AUTHORITY
Waste Water System - Booster Pump Stations
November 2009

No.	District	Station	HP	Pump Purchase	Remove and Reinstall	Repl. Cost
87	Northern District	Fujita SPS	160	42,000	8,000	50,000
88	Northern District	Fujita SPS	160	42,000	8,000	50,000
89	Northern District	Fujita SPS	160	42,000	8,000	50,000
90	Northern District	Route 16	280	42,000	8,000	50,000
91	Northern District	Route 16	280	42,000	8,000	50,000
92	Northern District	Route 16	280	42,000	8,000	50,000
93	Northern District	Route 16	280	42,000	8,000	50,000
94	Northern District	Southern Link	295	42,000	8,000	50,000
95	Northern District	Southern Link	295	42,000	8,000	50,000
96	Northern District	Southern Link	295	42,000	8,000	50,000
97	Northern District	Southern Link	295	42,000	8,000	50,000
98	Southern District	MTL	10	8,500	3,000	11,500
99	Southern District	Ejector #3	2	8,500	3,000	11,500
100	Southern District	Ejector #3	2	8,500	3,000	11,500
101	Southern District	Ejector #4	2	8,500	3,000	11,500
102	Southern District	Ejector #4	2	8,500	3,000	11,500
103	Southern District	Ejector #5	2	8,500	3,000	11,500
104	Southern District	Ejector #5	2	8,500	3,000	11,500
105	Southern District	Ejector #6	2	8,500	3,000	11,500
106	Southern District	Ejector #6	2	8,500	3,000	11,500
107	Southern District	Ejector #7	2	8,500	3,000	11,500
108	Southern District	Ejector #7	2	8,500	3,000	11,500
109	Southern District	Ejector #2	5	8,500	3,000	11,500
110	Southern District	Ejector #2	5	8,500	3,000	11,500
111	Southern District	North Reyes	5	8,500	3,000	11,500
112	Southern District	North Reyes	5	8,500	3,000	11,500
113	Southern District	Pump Station #18	5	8,500	3,000	11,500
114	Southern District	Pump Station #18	5	8,500	3,000	11,500
115	Southern District	Pump Station #16	9	8,500	3,000	11,500
116	Southern District	Pump Station #16	9	8,500	3,000	11,500
117	Southern District	Pump Station #17	10	8,500	3,000	11,500
118	Southern District	AgatSTP	12	8,500	3,000	11,500
119	Southern District	AgatSTP	12	8,500	3,000	11,500
120	Southern District	Pagachao	12	8,500	3,000	11,500
121	Southern District	Pump Station #15	12	8,500	3,000	11,500
122	Southern District	Pump Station #15	12	8,500	3,000	11,500
123	Southern District	Pagachao	14	8,500	3,000	11,500
124	Southern District	Pump Station #13	14	8,500	3,000	11,500
125	Southern District	Pump Station #13	14	8,500	3,000	11,500
126	Southern District	Pump Station #14	14	8,500	3,000	11,500
127	Southern District	Pump Station #14	14	8,500	3,000	11,500
128	Southern District	Pump Station #17	14	8,500	3,000	11,500
129	Southern District	Inarajan Lift	20	12,600	3,000	15,600
130	Southern District	Inarajan Lift	20	12,600	3,000	15,600
131	Southern District	Inarajan Main	20	12,600	3,000	15,600

GUAM WATERWORKS AUTHORITY
Waste Water System - Booster Pump Stations
November 2009

<u>No.</u>	<u>District</u>	<u>Station</u>	<u>HP</u>	<u>Pump Purchase</u>	<u>Remove and Reinstall</u>	<u>Repl. Cost</u>
132	Southern District	Pump Station #12	25	12,600	3,000	15,600
133	Southern District	Pump Station #12	25	12,600	3,000	15,600
134	Southern District	Agat SW	25	16,000	3,000	19,000
135	Southern District	Agat SW	25	16,000	3,000	19,000
136	Southern District	Pump Station #11	28	16,000	3,000	19,000
137	Southern District	Pump Station #11	28	16,000	3,000	19,000
138	Southern District	Inarajan Main	30	17,800	5,000	22,800
139	Southern District	Pump Station #19	30	17,800	5,000	22,800
140	Southern District	Pump Station #19	30	17,800	5,000	22,800
141	Southern District	Pump Station #20	31	17,800	5,000	22,800
142	Southern District	Talofof	47	19,600	5,000	24,600
143	Southern District	Talofof	47	19,600	5,000	24,600
144	Southern District	Chaligan	100	37,100	8,000	45,100
145	Southern District	Chaligan	100	37,100	8,000	45,100
146	Southern District	Gaan #1	139	42,000	8,000	50,000
147	Southern District	Gaan #1	139	42,000	8,000	50,000
148	Southern District	Gaan #1	139	42,000	8,000	50,000
149	Southern District	Tipalao #2	220	42,000	8,000	50,000
150	Southern District	Tipalao #2	220	42,000	8,000	50,000
151	Southern District	Tipalao #2	220	42,000	8,000	50,000
Total Replacement Cost					\$3,278,200	

GUAM WATERWORKS AUTHORITY
Waste Water System - Manholes
January 2010

<u>Quantity</u>	<u>Unit Repl. Cost</u>	<u>Total Repl. Cost</u>
5,770	9,500	\$54,815,000

Source: GWA Engineering

GUAM WATERWORKS AUTHORITY
Waste Water System - Sewage Treatment Plants
May 2010

No.	Location	Throughput, MGD	Repl. Cost
1	Agat-SantaRita	1.13	2,200,000
2	Baza Gardens	0.16	1,000,000
3	Hagatna	7.5	14,500,000
4	Inarajan	0.07	1,000,000
5	Northern District	7.8	15,000,000
6	Umatac-Merizo	0.28	1,000,000
7	PagoSocio	off-line	0
Total Replacement Cost			\$34,700,000

GUAM WATERWORKS AUTHORITY
Waste Water System - Underground Piping
January 2010

<u>Type</u>	<u>Diameter*</u>	<u>Length</u>	<u>Unit Cost</u>	<u>Repl. Cost</u>
Class C-900 PVC	8"	1,060,900	114.00	120,942,600

***NOTE: UG pipe diameters range from 2" to 40". 8" diameter pipe buried between 5-10 feet was selected as a reasonable average.**
Source: WRMP & GWA Engineering

10. BROKER QUESTIONNAIRE (entire form to be returned with the bid)

Name of Firm: _____

Address: _____

Telephone: _____

Fax: _____

Year Firm Established: _____

Principals: _____

Personnel

Administration: _____

Marketing: _____

Underwriting: _____

Total Personnel: _____

Annual Premium

Personal: _____

Commercial: _____

Total: _____

Largest Account: _____

Contacts

Primary: _____

Email: _____

Alternate: _____

Email: _____

Other: _____

Signed: _____ Date: _____