

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

**GUAM CONSOLIDATED COMMISSION ON UTILITIES**

**RESOLUTION NO. 03-FY2016**

**RELATIVE TO APPROVAL OF THE CONSTRUCTION MANAGEMENT CONTRACT  
FOR THE GROUND WATER WELLS D-03, D-17, D-18, D-22, M-09  
REHABILITATION PROJECT**

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

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

**WHEREAS**, GWA has received a grant from USEPA under the State Revolving Fund program to improve the water production wells, which included five (5) deep wells, D-03, D-17, D-18, D-22, and M-09, in the villages of Dededo and Mangilao; and

**WHEREAS**, the identified deep wells underwent an evaluation program, documented in the reports, “Water Well Rehabilitation Program Plan” (Brown and Caldwell, April 8, 2013) and Deep Well Water Production Reports from September 2014 through June 2015, which indicated that these wells are “hard broke” or “secured” and have been removed from service; and

**WHEREAS**, GWA has determined that these wells are inoperable due to either pump failures, collapsed well casings, or improper boring and casing diameters; and

**WHEREAS**, GWA has determined that these wells are critical to the water production system and returning them to service will provide additional redundancy and increased reliability for the water system ; and

**WHEREAS**, GWA has procured engineering design services through RFP-01-ENG-2010 that included aquifer quality review, general civil engineering, geotechnical engineering,

1 mechanical engineering, and electrical engineering design for deep well evaluation, analysis, and  
2 rehabilitation; and,

3  
4 **WHEREAS**, the aforementioned professional engineering design services have been  
5 completed by GHD, Inc. (Winzler and Kelly) through contract 11-03, which was signed on May  
6 5, 2011, and all rendered design documents have been accepted by GWA in May 2014; and

7  
8 **WHEREAS**, GWA and USEPA agree that efforts to rehabilitate, repair or replace the  
9 deep wells are necessary and the proceeding order to accomplish such task is through services  
10 that include construction management; and

11  
12 **WHEREAS**, GWA has advertised the Request For Proposal (RFP-08-ENG-2015) dated  
13 May 11, 2015, soliciting statement of qualifications from experienced and qualified engineering  
14 firms to provide construction management services for the GROUND WATER WELLS D-03,  
15 D-17, D-18, D-22, AND M-09 REHABILITATION PROJECT; and

16  
17 **WHEREAS**, RFP packages were downloaded by twenty-one (21), from which GWA  
18 received proposal submittals from seven (7) engineering firms before the RFP submittal  
19 deadline; and

20  
21 **WHEREAS**, the GWA A-E Selection Committee reviewed and evaluated the seven (7)  
22 proposals (see EXHIBIT A-Evaluation Score) and generated a short list of the top three (3) firms  
23 with a recommendation to award a contract to the firm EA ENGINEERING SCIENCE, AND  
24 TECHNOLOGY, INC., PBC ("EA") and any successor at interest thereto (see EXHIBIT B-  
25 Evaluation Summary and GM Determination); and

26  
27 **WHEREAS**, EA and GWA negotiated the price for the construction management  
28 services to be provided in the amount of Seven Hundred Forty Nine Thousand One Hundred  
29 Eighty Four Dollars (\$749,184.00), (See EXHIBIT C – Fee Proposal); and

30  
31 **WHEREAS**, GWA Management seeks approval of the fee proposal of Seven Hundred  
32 Forty Nine Thousand One Hundred Eighty Four Dollars (\$749,184.00), plus a ten percent (10%)

1 contingency of Seventy Four Thousand Nine Hundred Eighteen Dollars and Forty Cents  
2 (\$74,918.40), for a total amount of Eight Hundred Twenty Four Thousand One Hundred Two  
3 Dollars and Forty Cents (\$824,102.40); and

4  
5 **WHEREAS**, funding for this project will be from USEPA Grant Funds with an estimated  
6 project budget of Five Million Seven Hundred Sixty Four Thousand Five Hundred Dollars  
7 (\$5,764,500.00); and,

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

- 11 1. The recitals set forth above hereby constitute the findings of the CCU.
- 12 2. The CCU finds that the terms of the fee proposal submitted by EA are fair and  
13 reasonable.
- 14 3. The CCU finds that the terms of the conditions set by GWA relative to  
15 commencement of work activities are fair and reasonable and serve as a measure  
16 of Quality Assurance/Quality Control (QA/QC).
- 17 4. The CCU hereby authorizes the management of GWA to enter into a contract  
18 with EA in the amount of Seven Hundred Forty Nine Thousand One Hundred  
19 Eighty Four Dollars (\$749,184.00) (See EXHIBIT C – Fee Proposal).
- 20 5. The CCU hereby further approves the total funding amount for this project of  
21 Seven Hundred Forty Nine Thousand One Hundred Eighty Four Dollars  
22 (\$749,184.00), plus a ten percent (10%) contingency of Seventy Four Thousand  
23 Nine Hundred Eighteen Dollars and Forty Cents (\$74,918.40), to bring the total  
24 authorized funding amount to a maximum of Eight Hundred Twenty Four  
25 Thousand One Hundred Two Dollars and Forty Cents (\$824,102.40).

26  
27 **RESOLVED**, that the Chairman certified and the Board Secretary attests to the adoption  
28 of this Resolution.

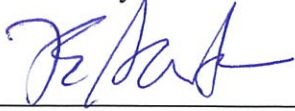
29 //

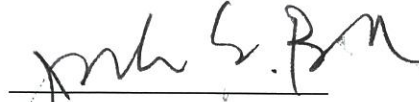
30  
31 //  
32

1 **DULY AND REGULARLY ADOPTED**, this 27<sup>th</sup> day of October, 2015.

2  
3 Certified by:

Attested by:

4 

5 

6 **JOSEPH T. DUENAS**  
7 Chairperson

**J. GEORGE BAMBA**  
Secretary

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

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

14 AYES: 4

15 NAYS: 0

16 ABSTENTIONS: 0

17 ABSENT: 1



18  
19  
20  
21 ///

22  
23  
24 ///

25  
26  
27 ///

28  
29 ///

30  
31  
32 ///



## GUAM WATERWORKS AUTHORITY

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

October 6, 2015

To: Thomas F. Cruz, P.E., Chief Engineer

From: Gloria P. Bensen   
Chairperson, Consultant Selection Board

Subject: RFP-08-ENG-2015  
Construction Management Services for Ground Water Wells D-03-D-17, D-18,  
D-22, M-09 Rehabilitation  
GWA Project No. W11-008-BND

The following information is intended to document the evaluation process undertaken for the referenced solicitation.

EVALUATION COMMITTEE MEMBERS	
Name	Title
Garrett Yeoh	Senior Engineer
Calvin Yam	Senior Engineer
Barbara C. Cruz, P.E.	Senior Engineer Supervisor, Engineering Support
Mauryn McDonald	Senior Engineer Supervisor, Permits and Inspection

Consultant	Evaluation Score				DBE	Total	Rank
1. AmOrient Engineering	77	74	74	79	5	309	4
2. Duenas, Camacho & Associates, Inc.	80	70	75	82	-	307	5
3. EA Engineering Science	84	93	87	85	5	354	1
4. LYON	72	72	80	80	-	304	6
5. W.B. Flores & Associates	80	78	73	80	5	316	2
6. EMPSCO	75	71	81	83	-	310	3
7. EM Chen	77	65	68	81	5	296	7

Scores were evaluated based on sum of the individual scores plus additional five points for firms meeting DBE qualifications. The recommendation of the evaluation committee is shown in the ranking above.

Please review and approve at your earliest convenience so that we may proceed with the notification letters.



**GUAM WATERWORKS AUTHORITY**

Gloria B. Nelson Public Service Building, 688 Route 15, Mangilao, Guam • Tel. (647) 300-6846

**MEMORANDUM**

October 12, 2015

To: Mark G. Miller  
Interim General Manager

From: Thomas F. Cruz, P.E.  
Chief Engineer

Subject: Evaluation Summary  
RFP-08-ENG-2015  
Construction Management Services for Ground Water Wells D-03-D-17, D-18, D-22, M-09 Rehabilitation  
GWA Project No. W11-008-BND

The Selection Committee has completed all necessary actions for selecting the most qualified consultant for the referenced solicitation. All proposals were reviewed and scored according to the conditions established in the solicitation and shortlisted firms were interviewed.

The committee recommends the following top three (3) firms in order of preference for the project:

1. EA Engineering Science
2. W.B. Flores & Associates
3. EMPSCO Engineering Consultants

The evaluation summary sheet is attached for your information.

**GENERAL MANAGER'S DETERMINATION**

Consultant Firm Selected:

*EA Engineering Science*

Remarks:

Mark G. Miller  
Interim General Manager

Date 10-15-15



# Exhibit C (1 of 5)



EA Engineering, Science, and Technology, Inc., PBC

101 Army Drive, Suite 103  
Barrigada, GU 96913-1402  
Telephone: 671-646-5231  
Fax: 671-646-5230  
www.eaest.com

16 October 2015

William P. Gillman, P.E.  
Brown and Caldwell  
Vice President  
414 West Soledad Avenue, Suite 907  
Hagatna, Guam 96910

*Delivered via email*

SUBJECT: D-Series Wells Construction Management Services Cost Estimate and Proposal


Dear Mr. Gilman:

EA Engineering, Science, and Technology, Inc., PBC (EA) hereby submits the time and materials upset of \$749,184 for the D-Series Wells Construction Management Services, cost estimate with assumptions and subcontractor backup attached. EA is prepared to work closely with the Guam Waterworks Authority, Brown and Caldwell, the selected construction contractor, and other stakeholders to provide construction management services for groundwater water wells D-03, D-17, D-18, D-22, and M-09 rehabilitation.

EA's construction management approach includes: construction planning; contract administration; construction controls; project communications, documentation, and document control; quality assurance and quality control; inspection and testing; and commissioning and startup. Our Groundwater Wells D03, D17, D18, D22, M09 Rehabilitation Construction Management Services Proposal is attached for additional detail.

Do not hesitate to contact me at 671-929-2908 should you have questions or comments regarding this matter.

Sincerely,  
EA Engineering, Science & Technology, Inc., PBC

  
Tressie Word, P.E.  
Deputy Program Manager

Enclosures:

1. Cost Estimate with Assumptions and Subcontractor Backup
2. Groundwater Wells D03, D17, D18, D22, M09 Rehabilitation Construction Management Services Proposal

cc. Chip Brown, Business Unit Director, EA  
File

# Exhibit C (2 of 5)

## **Enclosure 1.**

### **Cost Estimate with Assumptions and Subcontractor Backup**





# Exhibit C (4 of 5)

## SUBCONTRACTOR COST PROPOSAL

(1) SUBCONTRACTOR DIRECT LABOR COSTS																	
STAFF	CLASSIFICATION	Units	Rate	TASK 1		TASK 2		TASK 3		TASK 4		TASK 5		TASK 6		TOTAL	
				No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount
R. Senecal - Stanley	Project Manager	Hour	\$196	12	\$2,346.24	60	\$11,731.20	18	\$3,519.36	0	\$0.00	6	\$1,173.12	0	\$0.00	96	\$18,769.92
P. Torres - Stanley	Electrical Inspector	Hour	\$85	20	\$1,705.60	37	\$3,155.36	154	\$13,133.12	0	\$0.00	0	\$0.00	16	\$1,364.48	227	\$19,358.56
G. Reynolds - Stanley	Staff Engineer	Hour	\$164	20	\$3,286.40	24	\$3,943.68	204	\$33,521.28	0	\$0.00	0	\$0.00	56	\$9,201.92	312	\$51,267.84
S. Tripmaker - Stanley	Sr. Controllers Engineer	Hour	\$164	2	\$328.64	19	\$3,122.08	84	\$13,802.88	0	\$0.00	8	\$1,314.56	0	\$0.00	113	\$18,568.16
C. Richards - Stanley	Senior Inspector	Hour	\$99	16	\$1,580.80	4	\$395.20	84	\$8,299.20	0	\$0.00	8	\$790.40	0	\$0.00	112	\$11,065.60
E. Meno - Stanley	Construction Inspector	Hour	\$55	0	\$0.00	0	\$0.00	40	\$2,204.80	0	\$0.00	0	\$0.00	0	\$0.00	40	\$2,204.80
R. Rood - Stanley	Construction Inspector	Hour	\$55	0	\$0.00	0	\$0.00	40	\$2,204.80	0	\$0.00	0	\$0.00	0	\$0.00	40	\$2,204.80
S. Perez - Stanley	Documentation Controller	Hour	\$50	12	\$599.04	92	\$4,592.64	36	\$1,797.12	0	\$0.00	16	\$798.72	104	\$5,191.68	260	\$12,979.20
<b>TOTAL LABOR COSTS</b>					<b>\$9,846.72</b>		<b>\$26,940.16</b>		<b>\$78,482.56</b>		<b>\$0.00</b>		<b>\$5,391.36</b>		<b>\$15,758.08</b>		<b>\$136,418.88</b>

## (2) SUBCONTRACTOR OTHER DIRECT COSTS

(2) SUBCONTRACTOR OTHER DIRECT COSTS																	
OTHER DIRECT COSTS	Units	Rate	TASK 1		TASK 2		TASK 3		TASK 4		TASK 5		TASK 6		TOTAL		
			No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	
<b>1. Equipment and Supplies Usage</b>																	
Vehicle Rental - Stanley	day	\$45.00		\$0.00		\$0.00	30	\$1,350.00		\$0.00		\$0.00		\$0.00	30	\$1,350.00	
Mileage - Stanley	ea	\$0.65		\$0.00		\$0.00	1800	\$1,170.00		\$0.00		\$0.00		\$0.00	1800	\$1,170.00	
Reproduction - Stanley	ea	\$450.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	1	\$450.00	1	\$450.00	
Miscellaneous Supplies/Field Consumables - Stanley	ea	\$30.00		\$0.00		\$0.00	15	\$450.00		\$0.00		\$0.00		\$0.00	15	\$450.00	
<b>Total Equipment and Supplies Usage</b>																	
				<b>\$0.00</b>		<b>\$0.00</b>		<b>\$2,970.00</b>		<b>\$0.00</b>		<b>\$0.00</b>		<b>\$450.00</b>		<b>\$3,420.00</b>	
<b>2. Travel and Per Diem Costs</b>																	
Airfare - Stanley	ea	\$2,500.00		\$0.00		\$0.00	1	\$2,500.00		\$0.00		\$0.00		\$0.00	1	\$2,500.00	
Per Diem - Stanley	ea	\$250.00		\$0.00		\$0.00	6	\$1,500.00		\$0.00		\$0.00		\$0.00	6	\$1,500.00	
Rental Car - Stanley	ea	\$50.00		\$0.00		\$0.00	6	\$300.00		\$0.00		\$0.00		\$0.00	6	\$300.00	
<b>Total Travel and Per Diem</b>																	
				<b>\$0.00</b>		<b>\$0.00</b>		<b>\$4,300.00</b>		<b>\$0.00</b>		<b>\$0.00</b>		<b>\$0.00</b>		<b>\$4,300.00</b>	
<b>3. Subcontractor Flat Rate Costs</b>																	
TG Survey	Days	\$1,500.00		\$0.00		\$0.00		\$0.00	15	\$22,500.00		\$0.00		\$0.00	15	\$22,500.00	
<b>TOTAL OTHER DIRECT COSTS</b>					<b>\$9,846.72</b>		<b>\$26,940.16</b>		<b>\$85,752.56</b>		<b>\$22,500.00</b>		<b>\$5,391.36</b>		<b>\$16,208.08</b>		<b>\$166,638.88</b>

## (3) TOTAL COST

Subtotal Labor, Other Direct Costs, Including G&A and Fee		<b>\$9,846.72</b>	<b>\$26,940.16</b>	<b>\$85,752.56</b>	<b>\$22,500.00</b>	<b>\$5,391.36</b>	<b>\$16,208.08</b>	<b>\$166,638.88</b>
<b>TOTAL COST</b>		<b>\$9,846.72</b>	<b>\$26,940.16</b>	<b>\$85,752.56</b>	<b>\$22,500.00</b>	<b>\$5,391.36</b>	<b>\$16,208.08</b>	<b>\$166,638.88</b>

## **D-Series Wells Construction Management Services Assumptions**

# **Exhibit C (5 of 5)**

GWA will utilize one General Contractor for project completion  
Work will be conducted five days per week for typically 8 hr days  
EA will not provide direction to the General Contractor

### **Task 1 Design Document Review**

Review of Bid Documents and Design Documents

50 Drawings and 500 Pages of Specs/Instructions

Assumes no written feedback or comments to GWA

Pre-Bid Conference

Assumes CM participation, but led by GWA contracting

Assumes minimal travel

Bid Review and Comments

Assumes six bids

### **Task 2 Project Controls (assumes 64 weeks period of performance)**

Project Correspondence

Daily Construction Log (included in oversight time Task 3)

Weekly Status Report (2.0 hrs per week)

Material Testing Forms (included in oversight time Task 3)

Progress Photo Log (included in oversight time Task 3)

Schedule and Budget Update (Every two weeks - proposal) - 3 hrs ea

Payment Requests (4 hrs per 4 weeks)

RFIs (assumes reasonable number - 40)

Claims and Disputes (assumes reasonable number - 20)

### **Task 3 Construction Inspection (assume 42 weeks)**

Acceptance of Work (included in oversight above Task 3)

Stop Work Orders (included in oversight above Task 3)

Change Orders (included in Claims and Disputes above Task 2)

Design Change Reviews - minor (Assumes 30)

DCVR (assume 10 events)

Full time field supervisor

### **Task 4 - Construction Survey and Testing - No Testing by CM**

### **Task 5 Project Closeout**

Schedule and conduct startup training - General Contractor to Complete

Obtain copies of all warranties - General Contractor to Complete

Maintain list of spare parts - General Contractor to Complete