

GUAM CONSOLIDATED COMMISSION ON UTILITIES

RESOLUTION NO. 41-FY2016

RELATIVE TO APPROVAL OF ISLANDWIDE WELL SITE REHABILITATION (D-03, D-17, D-18, D-22, M-09) PROJECT W15-004-EPA

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 the United States Environmental Protection Agency ("USEPA") under the State Revolving Fund ("SRF") program to repair and rehabilitate the water and wastewater system infrastructure; and

WHEREAS, GWA has a number of important USEPA SRF projects including the rehabilitation, repair, or replacement of groundwater wells D-03, D-17, D-18, D-22, and M-09, which have been inoperable for a significant amount of time and are located in the villages of Dededo and Mangilao; and

WHEREAS, this time of inoperability has inhibited the full optimization of the island's system water pressure and contributed to supply deficiencies; and

WHEREAS, the intent of this project is to rehabilitate, repair, or replace the aforementioned wells and return them into service, which is necessary to provide additional redundancy and reliability to the island's water system; and

WHEREAS, GWA, through procuring engineering consultant services in 2011, has completed the design drawings and specifications for these wells in 2014 (GWA Project No. PW 05-14); and

WHEREAS, GWA has advertised the Invitation to Bid (IFB-05-ENG-2016) for the Island wide Well Site Rehabilitation soliciting bid proposals from experienced and responsive bidders to rehabilitate wells D-03, D-17, D-18, D-22, and M-09, in the aforementioned villages; and

WHEREAS, this phase of work consists of furnishing all labor, tools, equipment, and materials, as well as coordination efforts with GWA, GEPA, and other government/utility agencies that are necessary to rehabilitate the aforementioned wells; and

WHEREAS, IFB packages were obtained by multiple interested parties, from which GWA received bid proposals from one (1) party (SEE Exhibit A – Abstract of Bids, page 3 of 28) before the bid proposal deadline; and

WHEREAS, GWA's PMO analyzed the bid proposal received (SEE EXHIBIT A - Bid Analysis, page 5 of 28) on May 24, 2016 and determined PacificRIM Constructors, Inc., who submitted the lowest bid (SEE EXHIBIT A – Bid Proposals, page 17 of 28) as responsive and met all the bid requirements set forth by GWA; and

WHEREAS, GWA Management seeks CCU approval of PacificRIM Constructors, Inc. bid proposal in the amount of Four Million Six Hundred Eighty Nine Thousand Eight Hundred Eighty Eight Dollars (\$4,689,888.00), plus a ten percent (10%) contingency of Four Hundred Sixty Eight Thousand Nine Hundred Eighty Eight Dollars and Eighty Cents (\$468,988.80) to bring the total authorized funding amount to a maximum of Five Million One Hundred Fifty Eight Thousand Eight Hundred Seventy Six Dollars and Eighty Cents (\$5,158,876.80); and

WHEREAS, funding for this phase of this project will be from USEPA State Revolving Fund and, if necessary, GWA 2013 and 2015 Bond funds under PW 05-13 Deep Well Rehabilitation and PW 05-14 New Deep Wells at Down Hard; and

NOW BE IT THEREFORE RESOLVED, the Consolidated Commission on Utilities, subject to the review and approval of the Public Utilities Commission, does hereby approve the following:

- 1. The recitals set forth above hereby constitute the findings of the CCU.
- 2. The CCU finds that the terms of the fee proposal submitted by PacificRIM Constructors, Inc. are fair and reasonable (EXHIBIT A).
- 3. The CCU finds that the terms and conditions set by GWA relative to commencement of work activities are fair and reasonable and serve as a measure of Quality Assurance/Quality Control (QA/QC).
- 4. The CCU hereby authorizes the management of GWA to enter into a contract with Pacific RIM Constructors, Inc. in the amount of Four Million Six Hundred Eighty Nine Thousand Eight Hundred Eighty Eight Dollars (\$4,689,888.00).
- 5. The CCU hereby further approves the total funding amount for this project of Four Million Six Hundred Eighty Nine Thousand Eight Hundred Eighty Eight Dollars (\$4,689,888.00), plus a ten percent (10%) contingency of Four Hundred Sixty Eight Thousand Nine Hundred Eighty Eight Dollars and Eighty Cents (\$468,988.80), to bring the total authorized funding amount to a maximum of Five Million One Hundred Fifty Eight Thousand Eight Hundred Seventy Six Dollars and Eighty Cents (\$5,158,876.80).

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

DULY AND REGULARLY ADOPTED, this 7th day of June 2016.

Certified by:

JOSEPH T. DUENAS

Chairperson

Attested by:

J. GEORGE BAMBA

✓ Secretary

///

I, J. George Bamba, 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:	0	
ABSTENTIONS:	0	

ABSENT:



414 W Soledad Avenue, Suite 907 Hagatna, GU 96910

Exhibit A (1 of 28)

T: 671.477.0975



June 1, 2016

Mr. Thomas Cruz
Chief Engineer
Guam Waterworks Authority
Gloria B. Nelson Public Service Building
688 Route 16
Mangilao, Guam 96913

148557

Subject: Letter of Recommendation for Construction Services for the IslandWide Well Site Rehabilitation (D-03, D-17, D-18, D-22, and M-09); GWA Project No. W15-004-EPA

Dear Mr. Cruz:

Brown and Caldwell (BC)—upon reviewing the bid proposals from all interested parties for the IslandWide Well Site Rehabilitation (D-03, D-17, D-18, D-22, and M-09) project—determines that PacificRIM Constructors, Inc. is the apparent lowest bidder with a proposed bid of \$4,689,888. BC recommends executing a contract with PacificRIM Constructors, Inc. to provide construction services for the aforementioned project as their bid proposal was within reason for the scope of the project. Table 1 below summarizes the proposed bids from all interested parties and Attachment 2 details each parties' project bids.

Lastly, BC has verified that PacificRIM Constructors, Inc. submitted all required documents to be qualified and considered for this project.

Table 1: Bid Summary

	Base Bid	Additive Bid	Total Bid
Engineer Cost Estimate	\$423,209.54	\$5,210,143.02	\$5,633,352.56
PacificRIM Constructors, Inc.	\$638,597.00	\$4,051,291.00	\$4,689,888.00
	Variance		17%

Exhibit A (2 of 28)

T: 671.477.0975

If you have any questions, please call me at (671) 477-0975.

Respectfully Submitted,

Brown and Caldwell

Kurt Bilz, P.E. Project Manager Supervising Engineer

KRB:jbc

cc: Joseph Claveria, Brown and Caldwell Gloria Bensan, Guam Waterworks Authority

Attachments:

- 1. GWA Abstract of Bids
- 2. Bid Analysis
- 3. PacificRIM Constructors, Inc. Bid Proposal

Exhibit A (3 of 28)

Attachment #1 - GWA Abstract of Bids

Prepared for Guam Waterworks Authority

Brown -- Caldwell

GUAM WATERWORKS AUTHORITY ABSTRACT OF BIDS

ORIGINAL

		1		99	, ps	7.	6.	55	.4.	μ	2.	X	hib	it A (4 of 28)
GWA Estimate				UTILITIES SERVICES SPECIALIST INC.	PROPACIFIC BUILDER CORPORATION	GIANT CONSTRUCTION CORPORATION	MARIANAS DRILLING	ORION CONSTRUCTION CORPORATION	BME & SONS INC.	PERNIX, GUAM	REACTION COMPANY	PACIFIC RIM CONSTRUCTORS INC.	Bidders Name	t A (4 of 28) A Project Name: ISLAND-WIDE WELL SITE REHABILITATION Project Number: IFB-05-ENG-2015; W15-004-EPA
				ma hid submitted	wo hid submitted	no hid submitted	Walley Shipmally	ha hid shbrudhed	no hid subjuited	the bid submitted	No hid Subwitted	First Mid Instrumer Company	Section A-5 Bid Bond	EHABIUTATION 4-EPA
												<	Bidder Qualification Form	GUAM W
												<	Non- Collesion Affidavit	WATERWORKS AUTI
												<	Eerification	T OF BID
												<	Non- Segrageted Facilities	HOR:
												\	Sex Offender Cerbfication	TY
												<	ge & nefe minati n	XX
)												_	Major Shareholders Affidavit	
												<	Special Instructions to Bidders	Bid Opening Date:
												<	Addendum 1	ng Date:
# 6 36 361 8 11												00.888 'ውዳባ' ከ ፔ	BID AMOUNT	May 24, 2016
				 7.0					_	_			W 0.10	

Bids Opened and Read by:

Tabulated By:

GWA Procurement Representative:

Witnesses:

Micako Caba (ME)

Morle

Pro-lustr-Whave

(Name and Signature)

Exhibit A (5 of 28)

Attachment #2 - Bid Analysis

Prepared for Guam Waterworks Authority

Brown ••• Caldwell

Exhibit A (6 of 28)



Island-Wide Well Rehabilitation Bid Analysis **GWA Project No. W15-004-EPA**

	BID	Tabulation		gineer's Cost imate	. –	cific RIM nstructors
1	WELL D-03	Base Bid	\$	93,141.77	\$	129,567.00
		Additive Bid #1	\$	1,047,957.66	\$	818,361.00
		Subtotal 1	\$	1,141,099.43	\$	947,928.00
<u> </u>		In mit			Ļ	
2	WELL D-17	Base Bid	\$	77,381.79	\$	114,747.00
l		Additive Bid #2	\$	997,664.33	\$	741,100.00
		Subtotal 2	\$	1,075,046.13	\$	855,847.00
3	WELL D-18	Base Bid	\$	82,334.31	\$	118,571.00
		Additive Bid #3	\$	966,343.13	\$	765,392.00
		Subtotal 3	\$	1,048,677.44	\$	883,963.00
4	WELL D-22	Base Bid	\$	98,835.55	<u> </u>	134,866.00
`		Additive Bid #4	\$	1,074,729.21	\$	883,875.00
		Subtotal 4	- s	1,173,564.76	S	1,018,741.00
				-,1,5,551110	Ť	.,510,7 11.00
7	WELL M-09	Base Bid	\$	71,516.12	\$	140,846.00
		Additive Bid #7	\$	1,123,448.69	\$	842,563.00
		Subtotal 7	\$	1,194,964.81	\$	983,409.00

Total Bid Price

5,633,352.56 \$ 4,689,888.00

Exhibit A (7 of 28)



GUAM WATERWORKS AUTHORITY Island-Wide Well Rehabilitation Bid Analysis GWA Project No. W15-004-EPA

BID SCHEDULE

Table 1: Rehabilitation of Well D-03

Description: Relocation of existing well, well piping modifications, well electrical improvements, perimeter fence replacement rehabilitation of existing Electrical and Chlorinator Rooms and other related work

<u> </u>	chabilitation of existing Electrical and Chlorinator Room	s and other r	elated work	,			
n	90. 4 A*	** **		Engineer's	PacificRIM	Engineer's	PacificRIM
Pay Item	Description	Unit	Qty	Unit Cost	Constructors	Extended Price	Constructors
BASE BID:		L			Unit Cost*		Extended Price
WELL EXPLO	DRATION				10 LT		
	Mobilization and Demobilization	LS	1	4297	11,690.50	\$ 4,297	\$ 11,690.50
33 21 00 (b) IG	GEPA Well Drilling Permit	LS	1	1611	936.00	\$ 1,611	\$ 936.00
	Site Access and Preparation	LS	1	2149	2,562.00		
	2-inch Diameter Pilot Hole	LF	410	75	135.25		
	Pump, Motor and Accessories Set Up and Removal	LS	1	4834 22023	18,300.00 6,100.00		\$ 18,300,00 \$ 6,100,00
	24-hour Constant Rate Pump + Recovery Tests	LS	1	1074	6,100.00		
	Complete Water Quality Analysis	LS	i	3223	9,906.00	\$ 3,223	
	Complete Well Monitoring	LS	i	2149			
	Temporary Well Protective Cover	LS	1	1074	854.00	\$ 1,074	\$ 854.00
	Pilot Hole Abandonment	LS	1	19875	14,006.00		
Subtotal - Well I						\$ 93,142	
Total Base Bid ADDITIVE BII						\$ 93,142	\$ 129,567.00
	QUIREMENTS						
	Mobilization and Demobilization	LS	1	47,269	98,256.00	\$ 47,269	\$ 98,256.00
	Permits and Clearances	LS	i	8,057	6,444.00		
01 50 00 (a) T	Temporary Traffic Control	LS	1	1,074	1,357.00	\$ 1,074	\$ 1,357.00
	Temporary Environmental Control	LS	1	2,578	1,121.00		
	ral Requirements					\$ 56,401	\$ 107,178.00
DEMOLITION	Occommissioning of Existing Well	10		26.063	10 (10 00	6 20.007	B 10 (10 00
	Removal of Existing Structures and Obstructions	LS LS	1	26,857 10,743	19,610.00 8,308.00	\$ 26,857 \$ 10,743	\$ 19,610.00 \$ 8,308.00
Subtotal - Demo		Lo	,	10,745	0,00.00		\$ 27,918.00
	CONSTRUCTION AND DEVELOPMENT						
	Reaming to 24-inch	LF	410	81	229.72	\$ 33,035	\$ 94,185.20
33 21 00 (m) 10	6-inch Dia. HSLA Well Casing	LF	360	161	434.69	\$ 58,012	\$ 156,488.40
	6-inch Dia, SS 304 Well screen	LF	22	188	644.14	\$ 4,136	\$ 14,171.08
33 21 00 (o) 10	6-inch Dia. SS 304 (shoe and casing above the screen)	LF	28	129	649.22	\$ 3,610	\$ 18,178.16
	ravel Pack and Sanitary Scal	LS	1	3,223	14,640.00		\$ 14,640.00
33 21 00 (q) W	Vell Development	LŞ	1	241,717	45,933.00		
	ermanent Pump, Motor and Accessories Supply & Installation	LS	1	145,030	59,492.00	\$ 145,030	
	2-hour Constant Rate Pump + Recovery Tests Complete Well Monitoring	LS LS	1	26,857 1,611	36,600.00 4,270.00	\$ 26,857 \$ 1,611	
	Complete Water Quality Analysis	LS	1	5,909	9,906.00		
33 21 00 (v) V		LS	i	3,223	5,636.00		\$ 5,636.00
33 21 00 (w) D	Disinfection	LS	1	1,611	4,880.00		\$ 4,880.00
	GEPA Well Operation Permit	LS	1	8,057	1,281.00	\$ 8,057	\$ 1,281.00
	nstruments/Testers (Specification Section 33 21 00-2.6 A)	LS	1	3,223	6,576.00	\$ 3,223	
Subtotal - New V	Well Construction and Development					\$ 539,255	\$ 472,23 <u>6.84</u>
	ite Clearing	LS	1	3,223	1,157.00	\$ 3,223	\$ 1,157.00
	-foot High Chain Link Fence with 6-inch High CMU Wall	LF	272	3,223	67.18		
32 31 13 (c) 114	4-foot Wide Chain Link Vehicular Gate	EA	2	4,297	2,303,50		\$ 4,607.00
Subtotal - Sitewo	ork						\$ 24,038.00
NEW SITE WA							
	4" Diameter PVC Pipe	LF	70	430	413.67		
	" Diameter PVC Pipe	LF	20	107	508.55	\$ 2,149	\$ 10,171.00
	" Diameter PVC Pipe " Diameter PVC Pipe	LF LF	90 120	54 32	51.71		
	/4" Diameter PVC Pipe	LF	20	27	45.38 52.95	\$ 537	
33 11 16 (f) He		LS	1	1,074	61.00	\$ 1,074	
33 11 16 (g) CI	hlorine Contact Utility Vault	LS	1	3,223	7,842.00	\$ 3,223	\$ 7,842.00
Subtotal - New S	Site Water Piping					\$ 45,765	S 58,189.00
ELECTRICAL							
	ite Electrical Demolition Work	LS	!	16,114	2,830.00		
	ite Electrical Improvements chabilitation of Existing Electrical Room	LS LS	1	107,430 42,972	3,086.00		
	rocess Instrumentation	LS	- 1	16,114	2,249.00 37,177.00	\$ 42,972 \$ 16,114	
	rocess Controller and Graphic Recorder	LS	i	12,892	26,864.00		\$ 26,864.00
Subtotal - Electri	ical Work					\$ 195,523	S 72,206.00
						1	
MECHANICAL						1.000	- 1 - 1 0 0 0
23 31 16 Fi	iberglass Reinforced Plastic Duct	LS	!	4,297	1,718.00		
23 31 16 Fi 23 34 00 Vo	iberglass Reinforced Plastic Duct entilation Fans nclosed Circuit Breakers	LS LS	1	4,297 5,371 2,686	5,776.00 2,284.00	S 5,371	\$ 5,776.00

Exhibit A (8 of 28)



Island-Wide Well Rehabilitation Bid Analysis GWA Project No. W15-004-EPA

BID SCHEDULE

Table 1: Rehabilitation of Well D-03

Description: Relocation of existing well, well piping modifications, well electrical improvements, perimeter fence replacement rehabilitation of existing Electrical and Chlorinator Rooms and other related work

	termotherion of emblant breather and official too	*****	-10-14-0 11-01-0						
Pay Item	Description	Unit	Qty	Engineer's Unit Cost	PacificRIM Constructors Unit Cost*		ngineer's ended Price	C	acificRIM onstructors tended Price
Subtotal - Med	chanical Work					S	12,354	S	9,778.00
CHLORINA'	TION SYSTEM						-1171 = 27		
43 32 76 (a)	New Chlorination System	LS	1	107,430	30,232.00	\$	107,430	\$	30,232.00
43 32 76 (b)	Rehabilitation of Existing Chlorinator Room	LS	1	21,486	8,715.16	S	21,486	\$	8,715.16
43 32 76 (c)	Sample Port	LS	1	1,611	3,787.00	\$	1,611	\$	3,787.00
22 45 33	Emergency Shower and Eye Wash	LS	1	5,371	3,799.00	\$	5,371	\$	3,799.00
10 44 16	Fire Extinguisher	EA	1	537	284.00	\$	537	\$	284.00
	orination System					S	136,436	\$	46,817.16
Total Additiv	e Bid #1					S	1.045.379	5	818,361.00

2016 Unit Cost reflects the % of the cost increase from April 2014 to February 2016, according to the ENR Construction Cost Index

(with an additional 3% mark-up for Guam).

% Change: Feb-16 10,181.92 Apr-14

7.43%

9,750.00

Guam % Inc. 3.0% Total Cost Table I (Total Base Bid + Total Additive Bid #1) ___S__

1,138,521 \$

Exhibit A (9 of 28)

GUAM WATERWORKS AUTHORITY

Island-Wide Well Rehabilitation Bid Analysis GWA Project No. W15-004-EPA

BID SCHEDULE

Table 2: Rehabilitation of Well D-17

Description: Relocation of existing well, well piping modifications, well electrical improvements, perimeter fence replacement rehabilitation of existing Electrical Room and Chlorinator Building and other related work

3321 00 (c) GiPA Well Drilling Permit LS 1 1,074 322,00 \$ 1,074,30 \$ 222,00 \$ 33210 (c) File Access and Preparation LS 1 1,611 2,352.00 \$ 1,074,30 \$ 222,00 \$ 321,014,51 \$ 2,252.00 \$ 1,074,50 \$ 321,014,51 \$ 2,252.00 \$ 1,074,50 \$ 321,014,51 \$ 2,252.00 \$ 1,074,51 \$ 2,252.00 \$ 1,074,51 \$ 2,252.00 \$ 1,074,51 \$ 2,252.00 \$ 1,074,51 \$ 2,252.00 \$ 2,474,12 \$ 46,060,00 \$ 32,100 \$ 2,474,12 \$ 46,060,00 \$ 46,00 \$		rehabilitation of existing Electrical Room and Chlorinator	Building an	d other rela	led work		,		
WELL EXPLORATION	Pay Item	Description	Unit	Qty		Constructors		Construct	tors
13210 (c) Solitization and Demohilization LS 1 3,223 10,335.00 \$ 1,222.90 \$ 1,0358.00 \$ 1,037.00 \$ 1,0	BASE BID:		- 11-30	1 70 10			Research to the		1000
13210 (c) Solitization and Demohilization LS 1 3,223 10,335.00 \$ 1,222.90 \$ 1,0358.00 \$ 1,037.00 \$ 1,0	WELL EXP								
1321 00 (b) GEPA Well Drilling Permit LS 1 1,074 822,00 \$ 1,074 30 \$ 225,00 \$ 3321 00 (c) Riche-Access and Preparation LS 1 1,611 2,552,00 \$ 1,074 30 \$ 225,00 \$ 2321 00 (c) Riche-Access and Preparation LS 1 4,854 1,800,00 \$ 24,741,12 \$ 46,060,00 \$ 3321 00 (c) Riche-Dissinster Filed Hole LF 329 75 140,00 \$ 24,741,12 \$ 46,060,00 \$ 3321 00 (c) Riche-Dissinster Filed Hole LF 329 75 140,00 \$ 24,741,12 \$ 46,060,00 \$ 3321 00 (c) Riche-Dissinster Filed Hole LF 329 75 140,00 \$ 24,741,12 \$ 46,060,00 \$ 32,100 (c) Riche-Dissinster Filed Hole LF 1,074 \$ 6,100,00 \$ 1,074,30 \$ 6,100,00 \$ 32,100 (c) Riche-Dissinster Rate Primp * Recovery Tests LS 1 1,074 \$ 6,100,00 \$ 1,074,30 \$ 6,100,00 \$ 32,100 (c) Riche-Dissinster Rate Primp * Recovery Tests LS 1 1,074 \$ 6,100,00 \$ 1,074,30 \$ 6,100,00 \$ 32,100 (c) Riche-Dissinster Rate Primp * Recovery Tests LS 1 1,074 \$ 6,100,00 \$ 1,074,30 \$ 6,100,00 \$ 32,100 (c) Riche-Dissinster Rate Primp * Recovery Tests LS 1 1,074 \$ 2,400 \$ 2,446 (c) \$ 2,446 (c) \$ 2,440 (c) \$ 2	33 21 00 (a)	Mobilization and Demobilization	LS	1 1	3,223	10,358.00	\$ 3,222.90	\$ 10,35	58.00
33 21 00 (d) Parech Disaneter Pilot Hole 33 21 00 (e) Pump, Motor and Accessories Set Up and Removal L. S. 1	33 21 00 (b)	GEPA Well Drilling Permit	LS	1	1,074	828.00	\$ 1,074.30		
332 100 (c) Paunp, Motor and Accessories Set Up and Removal LS 1 4,834 18,300.00 \$ 1,834.35 \$ 18,000.00	33 21 00 (c)	Site Access and Preparation	LS		1,611	2,562.00	\$ 1,611.45	\$ 2,56	62.00
33 21 00 (f) e-bour Step Drawdown + Recovery Tests	33 21 00 (d)			329					60.00
33 21 00 10 24 1-hour Constant Rate Pump + Recovery Tests LS 1 1,074 6,100.00 3 1,074.30 5 6,100.00 33 21 00 (b) Complete Water Quality Analysis LS 1 3,222 9,006.00 3 2,222 9 5,906.00 3 32 10 00 (b) Complete Water Quality Analysis LS 1 2,149 2,440.00 2,148.60 3 2,440.00 3 2,440.00 3 2,44	33 21 00 (e)								
33210 (b) Complete Well Montscrive LS				1					
33 21 00 (1) Complete Well Monitoring				1					
33 21 00 (b) Temporary Well Protective Cover LS 1 1,074 854,00 \$ 1,074,30 \$ 854,00 \$ 1,074,30 \$ 854,00 \$ 1,074,30 \$ 1,074,40 \$ 1,074,30 \$ 1,074,30 \$ 1,074,30 \$ 1,074,40 \$ 1,074,30 \$ 1,074,30 \$ 1,074,40 \$ 1,074,30				1 !					
33 21 000 (b)				1					
Solitoral - Well Exploration									
ADDITIVE BID #2: GENERAL REQUIREMENTS (7) 171 13 Mobilization and Demobilization 1.5 1 45,121 89,217.00 (8) 5 45,120.58 89,217.00 (7) 170 10 500 (a) 1 Emporary Fairlic Control 1.5 1 45,121 89,217.00 (8) 5 45,120.58 89,217.00 (8) 15,000 (b) 1 Temporary Fairlic Control 1.5 1 1,074 1 1.5 1 3,223 1,782.00 (8) 1,782.00 (9) 15,000 (b) 1 Temporary Fairlic Control 1.5 1 3,223 1,782.00 (9) 15,000 (b) 1 Temporary Fairlic Control 1.5 1 3,223 1,782.00 (9) 1	33 21 00 (K)			1 1	10,114 j	11,239.00			
ADDITIVE BID #3: CENTRAL REQUIREMENTS	-				· · · · · · · · · · · · · · · · · · ·				
CENERAL REQUIREMENTS	ADDITIVE						3 //,301./7	3 114,74	47.00
10.71 13						- III	35 1-2-5		-
C2	01 71 13		I.S	1	45.121	89,217.00	\$ 45,120,58	\$ 89.71	17.00
15 00 (c) Temporary Traffic Control LS 1 1,074 \$ 1,782.00 \$ 1,7	C-2			i					
150 00 (b) Temporary Environmental Control LS 1 3,222 1,782,00 \$ 3,222 90 \$ 1,782,00 \$ \$ 0,885,00 \$ \$ 0,885,00 \$ \$ 0,885,00 \$ \$ 0,845,00 \$ \$ 0,241 19 (a) Decommissioning of Existing Well LS 1 26,857 2,530,00 \$ 16,742.99 \$ 7,752.00 \$ 10,742.99 \$ 10				1		0,001.00			+
Subtotal - General Requirements				<u> </u>		1,782.00			82.00
DEMOLITION WORK		Subtotal - General Requi			,1				
12 13 12 13 12 13 13 14 15 15 15 15 15 15 15		ON WORK							
Q2 41 Pg D Removal of Existing Structures and Obstructions LS 1 10,743 7,752.00 \$ 10,742.99 \$ 7,752.00 SUBOTAL - Demolition Work \$ 37,500.48 \$ 10,282.00 SEW WELL CONSTRUCTION AND DEVELOPMENT LF 329 70 251.90 \$ 23,973.80 \$ 82,875.10 \$ 32 1.00 (m) Reaming to 24 will chinch Dia. HSLA Well Casing LF 279 161 444.68 \$ 44,959.43 \$ 124,065.72 \$ 32 1.00 (m) L6-inch Dia. SS 304 (shoe and casing above the screen) LF 22 188 644.14 \$ 4,136.05 \$ 14,171.08 \$ 32 1.00 (n) L6-inch Dia. SS 304 (shoe and casing above the screen) LF 28 129 649.21 \$ 3,690.65 \$ 18,177.88 \$ 32 1.00 (n) Well Development LS 1 33,223 12,200.00 \$ 3,222.90 \$ 12,200.00 \$ 32 1.00 (p) Gravel Pack and Sanitary Seal LS 1 193,374 45,933.00 \$ 19,3373 \$ 45,933.00 \$ 32 1.00 (p) Gravel Pack and Sanitary Seal LS 1 118,173 67,309.00 \$ 18,172.94 \$ 67,309.00 \$ 32 1.00 (p) Gravel Pack and Rate Pump - Recovery Tests LS 1 118,173 67,309.00 \$ 1,18,172.94 \$ 67,309.00 \$ 32 1.00 (p) Complete Well Monitoring LS 1 1,611 3,050.00 \$ 1,611.45 \$ 3,090.00 \$ 32 1.00 (p) Complete Well Monitoring LS 1 5,909 99,060.00 \$ 5,908.65 \$ 9,906.00 \$ 32 1.00 (p) Complete Well Analysis LS 1 5,909 99,060.00 \$ 5,908.65 \$ 9,906.00 \$ 32 1.00 (p) Wideo Log LS 1 1,611 3,050.00 \$ 1,611.45 \$ 3,050.00 \$ 32 1.00 (p) Wideo Log LS 1 1,611 4,880.00 \$ 5,908.65 \$ 9,906.00 \$ 32 1.00 (p) Wideo Log LS 1 1,611 4,880.00 \$ 1,611.45 \$ 4,800.00 \$ 1,611.45 \$ 4,800.00 \$ 1,611.45 \$ 4,800.00 \$ 1,611.45 \$ 4,800.00 \$ 1,611.45 \$ 4,800.00 \$ 1,611.45 \$ 4,800.00 \$ 1,611.45 \$ 4,800.00 \$ 1,611.45 \$ 4,800.00 \$ 1,611.45 \$ 4,800.00 \$ 1,611.45 \$ 4,800.00 \$ 1,611.45 \$ 4,800.00 \$ 1,611.45 \$ 4,800.00 \$ 1,611.45 \$ 4,800.00 \$ 1,611.45 \$ 4,800.00 \$ 1,611.45 \$ 4,800.00 \$ 1,611.45 \$ 4,800.00 \$ 1,611.45 \$ 4,800.00 \$ 1,611.45 \$ 4,800.0	02 41 19 (a)	Decommissioning of Existing Well		1	26,857	2,530.00	\$ 26,857.49	\$ 2,53	30.00
NEW WELL CONSTRUCTION AND DEVELOPMENT	02 41 19 (b)	Removal of Existing Structures and Obstructions	LS	1					
33 21 00 (i) Reaming to 24-inch 1F 329 70 251.90 \$ 22,973.89 \$ 82,875.10 (ii) III clinch Dia. HSLA Well Casing 1F 279 161 444.68 \$ 44,959.43 \$ 124,065.72 (iii) III clinch Dia. SS 304 Well screen 1F 22 188 644.14 \$ 4,136.05 \$ 14,171.08 (iii) III clinch Dia. SS 304 Well screen 1F 28 129 649.21 \$ 3,609.65 \$ 18,177.88 (iii) III clinch Dia. SS 304 Well screen 1F 28 129 649.21 \$ 3,609.65 \$ 18,177.89 (iii) III clinch Dia. SS 304 Well screen 1S 1 3,223 12,200.00 \$ 3,222.00 \$ 2,22.00 \$ 2,22.00 \$ 2,22.00 \$ 3,22.20 \$ 1,20.00 \$ 33,21.00 (ii) Comvel Pack and Sanitary Seal 32 10 00 (ii) Comvel Pack and Sanitary Seal 32 10 00 (iii) Comvel Pack and Sanitary Seal 32 10 00 (iii) Comvel Pack and Sanitary Seal 32 10 00 (iii) Comvel Pack and Sanitary Seal 32 10 00 (iii) Comvel Pack and Sanitary Seal 32 10 00 (iii) Complete Well Monitoring 1S 1 18,177.38 (iii) 19,374 45,933.00 \$ 18,177.49 \$ 6,7309.00 \$ 32,100 \$ 1,		Subtotal - Demolition	Work		•		\$ 37,600.48		
33 21 00 (m) 16-inch Dia. HSLA Well Casing	NEW WELL	CONSTRUCTION AND DEVELOPMENT							
13 21 00 (n) 1.6-inch Dia, SS 304 Well screen LF 22 188 644.14 3 4,136.05 5 14,171.08			LF	329	70	251.90	\$ 22,973.89	\$ 82,87	75.10
13 21 00 (o) 16-inch Dia. SS 304 (shoe and casing above the screen) LF 28 1.29 649.21 \$3,609.65 \$1,8177.88 \$321 00 (p) Gravel Pack and Sanitary Seal LS 1 3,223 12,200.00 \$3,222.90 \$1,2200.00 \$332 10 00 (p) Well Development LS 1 13,233 45,933.00 \$13,373.91 \$45,933.00 \$13,373.91	33 21 00 (m)	16-inch Dia. HSLA Well Casing	LF	279	161	444.68	\$ 44,959.43	\$ 124,06	55.72
13 21 00 (o) 16-inch Dia. SS 304 (shoe and easing above the screen) LF 28	33 21 00 (n)	16-inch Dia. SS 304 Well screen	LF	22	188		\$ 4,136.05		
13 2100 (p) Gravel Pack and Sanitary Seal L.S. 1 3,223 12,200.00 \$ 3,222.90 \$ 12,200.00 \$ 321.00 (p) Well Development L.S. 1 193,374 45,933.00 \$ 193,373.91 \$ 45,933.00 \$ 321.00 (p) Peramenet Pump, Motor and Accessories Supply & installation L.S. 1 118,173 67,309.00 \$ 118,172.94 \$ 67,309.00 \$ 321.00 (p) Peramenet Pump, Motor and Accessories Supply & installation L.S. 1 118,173 67,309.00 \$ 118,172.94 \$ 67,309.00 \$ 321.00 (p) Peramenet Pump, Motor and Accessories Supply & installation L.S. 1 21,486 36,600.00 \$ 21,485.99 \$ 36,600.00 \$ 21,485.99 \$ 36,600.00 \$ 21,485.99 \$ 36,600.00 \$ 21,485.99 \$ 36,600.00 \$ 21,485.99 \$ 36,600.00 \$ 21,485.99 \$ 36,600.00 \$ 32.100 (p) Complete Well Monitoring L.S. 1 5,509 9,906.00 \$ 5,908.65 \$ 9,906.00 \$ 32.100 (p) Complete Water Quality Analysis L.S. 1 5,509 9,906.00 \$ 5,908.65 \$ 9,906.00 \$ 32.22.90 \$ 5,636.00 \$ 3,222.90 \$ 5,636.00 \$ 3,222.90 \$ 5,636.00 \$ 3,222.90 \$ 5,636.00 \$ 3,222.90 \$ 5,636.00 \$ 3,222.90 \$ 5,636.00 \$ 3,222.90 \$ 5,636.00 \$ 3,222.90 \$ 6,576.00 \$ 33.21.00 (p) Disinfection Permit L.S. 1 8,057 1,281.00 \$ 8,057.25 1,28	33 21 00 (o)	16-inch Dia, SS 304 (shoe and casing above the screen)	LF	28	129	649.21			
33 21 00 (q) Well Development									
33 21 00 (r) Permanent Pump, Motor and Accessories Supply & Installation LS 1 118,173 67,309.00 \$ 118,172.94 \$ 67,309.00 \$ 32,100 (r) \$ 36,600.00 \$ 21,485 \$ 36,600.00 \$ 32,100 (r) \$ 27,0000 \$ 21,485 \$ 36,600.00 \$ 32,100 (r) \$ 27,0000 \$ 21,485 \$ 36,600.00 \$ 32,100 (r) \$ 27,0000 \$ 21,485 \$ 36,600.00 \$ 32,100 (r) \$ 27,0000 \$ 21,485 \$ 36,600.00 \$ 32,100 (r) \$ 27,0000 \$ 21,485 \$ 36,600.00 \$ 32,100 (r) \$ 27,0000 \$ 21,485 \$ 36,600.00 \$ 32,100 (r) \$ 27,0000 \$ 21,485 \$ 36,600.00 \$ 32,100 (r) \$ 27,0000 \$ 27,4000 \$ 27,0000 \$ 32,100 (r) \$ 27,0000 \$ 27,4000 \$ 27,0000 \$ 32,100 (r) \$ 27,0000 \$ 27,4000 \$ 27,0000 \$ 27,4000 \$ 27,0000 \$ 27,4000 \$ 27,0000 \$ 27,4000 \$ 27,0000 \$ 27	33 21 00 (g)			i		45,933.00			
33 21 00 (s) 72-hour Constant Rate Pump + Recovery Tests LS 1 21,486 36,600.00 S 21,485.99 \$ 36,600.00 \$ 321 00 (t) Complete Well Monitoring LS 1 1,611 3,050.00 \$ 1,611.45 \$ 3,050.00 \$ 33 21 00 (t) Complete Water Quality Analysis LS 1 5,909 9,906.00 \$ 5,908.65 \$ 9,906.00 \$ 32 10 0 (t) Complete Water Quality Analysis LS 1 3,223 5,636.00 \$ 3,222.90 \$ 5,636.00 \$ 32 10 0 (t) Uideo Log LS 1 3,223 5,636.00 \$ 3,222.90 \$ 5,636.00 \$ 32 10 0 (t) Disinfection LS 1 1,611 4,880.00 \$ 1,611.45 \$ 4,880.	33 21 00 (r)			1				\$ 67,30	9.00
33 21 00 (u) Complete Water Quality Analysis	33 21 00 (s)		LS	1					
33 21 00 (v) Video Log			LS	1				\$ 3,05	50.00
33 21 00 (w) Disinfection		Complete Water Quality Analysis		1	5,909			\$ 9,90	36.00
33 21 00 (x) GEPA Well Operation Permit LS 1 8,057 1,281.00 \$ 8,057.25 \$ 1,281.00 \$ 33 21 00 (y) Instruments/Testers (Specification Section 33 21 00-2.6 A) LS 1 3,223 6,576.00 \$ 3,222.90 \$ 6,576.00 \$ 33,222.90 \$ 6,576.00 \$ 3435,569.36 \$ 432,660.78 \$ 31 10 00 Site Clearing				1				\$ 5,6 <u>3</u>	36.00
Subtotal - New Well Construction and Development Subtotal - New Yell Chair Link Fence with 6-inch High CMU Wall LF 212 38 68.47 \$7,971.30 \$14,515.64 \$1,515.				1					
Subtotal - New Well Construction and Development S 435,569.36 \$ 432,660.78	33 21 00 (x)			1			\$ 8,057.25		
SITEWORK	33 21 00 (y)			1	3,223	6,576.00			
31 10 00 Site Clearing	CIMONION		and Develop	pment			\$ 435,569.36	\$ 432,66	50.78
32 31 13 (a) 6-foot High Chain Link Fence with 6-inch High CMU Wall LF 212 38 68.47 \$7,971.30 \$14,515.64			1 10			200.00	A 300000		
32 31 13 (c) 14-foot Wide Chain Link Vehicular Gate EA 2 4,297 2,303.50 \$ 8,594.40 \$ 4,607.00				1 212					
Subtotal - Sitework									
NEW SITE WATER PIPING 33 11 16 (a) 24" Diameter PVC Pipe LF 230 430 161.85 \$98,835.55 \$37,225.50 \$33 11 16 (b) 6" Diameter PVC Pipe LF 60 107 194.08 \$6,445.80 \$11,644.80 \$33 11 16 (c) 2" Diameter PVC Pipe LF 50 54 65.06 \$2,685.75 \$3,253.00 \$33 11 16 (d) 1" Diameter PVC Pipe LF 110 32 46.57 \$3,545.19 \$5,122.70 \$33 11 16 (d) 1" Diameter PVC Pipe LF 110 32 46.57 \$3,545.19 \$5,122.70 \$33 11 16 (f) Hose Bibb LS 1 1,074 61.00 \$1,074.30 \$61.00 \$33 11 16 (g) Chlorine Contact Utility Vault LS 1 3,223 8,782.00 \$3,222.90 \$8,782.00 \$33,222.90 \$8,782.00 \$15,809.48 \$66,089 \$15,809.48 \$1	D4 31 13 (C)				4,297	∠,503.50			
33 11 16 (a) 24" Diameter PVC Pipe LF 230 430 161.85 \$98,835.55 \$37,225.50	NEW CITE V		h .				a 17,766.0V	ع كل	1,032
11 16 16 17 194.08 \$ 6,445.80 \$ 11,644.80 \$ 33 11 16 (c) 2" Diameter PVC Pipe	<u> </u>		16	230	420 1	161 85	\$ 08 834 44	\$ 27.71	15 SN
33 11 16 (c) 2" Diameter PVC Pipe LF 50 54 65.06 \$ 2,685.75 \$ 3,253.00									
33 11 16 (d) 1" Diameter PVC Pipe LF 110 32 46.57 \$ 3,545.19 \$ 5,122.70 33 11 16 (f) Hose Bibb LS 1 1,074 61.00 \$ 1,074.30 \$ 61.00 33 11 16 (g) Chlorine Contact Utility Vault LS 1 3,223 8,782.00 \$ 3,222.90 \$ 8,782.00 Subtotal - New Site Water Piping \$ 115,809.48 \$ 66,089 ELECTRICAL WORK LS 1 16,114 2,830.00 \$ 16,114.49 \$ 2,830.00 26 05 00 (a) Site Electrical Demolition Work LS 1 107,430 2,827.00 \$ 107,429.95 \$ 2,827.00 26 05 00 (c) Rehabilitation of Existing Electrical Room LS 1 16,114 37,177.00 \$ 16,114.49 \$ 37,177.00 26 05 00 (c) Rehabilitation of Existing Electrical Room LS 1 16,114 37,177.00 \$ 16,114.49 \$ 37,177.00 40 94 43 Process Instrumentation LS 1 16,114 37,177.00 \$ 16,114.49 \$ 37,177.00 40 94 43 Process Controller and Graphic Recorder LS 1 12,892 21,984.00 \$ 12,891.59 \$ 21,984.00 Subtotal - Electrical Work \$ 195,522.51 \$ 67,067.00 MECHANICAL WORK LS 1 4,297 1,718.00 \$ 4,297.20 \$ 1,718.00 23 34 00 Ventilation Fans LS 1 5,371 2,433.00 \$ 5,371.50 \$ 2,433.00 Subtotal - Electrical LS 1 5,371 2,433.00 \$ 5,371.50 \$ 2,433.00 Subtotal - Electrical LS 1 5,371 2,433.00 \$ 5,371.50 \$ 2,433.00 Subtotal - Electrical LS 1 5,371 2,433.00 \$ 5,371.50 \$ 2,433.00 Subtotal - Electrical LS 1 5,371 2,433.00 \$ 5,371.50 \$ 2,433.00 Subtotal - Electrical LS 1 5,371 2,433.00 \$ 5,371.50 \$ 2,433.00 Subtotal - Electrical LS 1 5,371 2,433.00 \$ 5,371.50 \$ 2,433.00 Subtotal - Electrical LS 1 5,371 2,433.00 \$ 5,371.50 \$ 2,433.00 Subtotal - Electrical LS 1 5,371 2,433.00 \$ 5,371.50 \$ 2,433.00 Subtotal - Electrical LS 1 5,371 2,433.00 \$ 5,371.50 \$ 2,433.00 Subtotal - Electrical LS 1 5,371 2,433.00 \$ 5,371.50 \$ 2,433.00 Subtotal - New Site Water Piping 1,074 2,830.00 \$ 2,243.00 Subtotal - New Site Water Piping 1,074					·				
116 (f) Hose Bibb LS 1 1,074 61.00 \$ 1,074.30 \$ 61.00									
Subtotal - New Site Water Piping Subtotal - New	33 11 16 (0)								
Subtotal - New Site Water Piping Subtotal - New									
ELECTRICAL WORK 26 05 00 (a) Site Electrical Demolition Work LS I 16,114 2,830.00 \$ 16,114.49 \$ 2,830.00 26 05 00 (b) Site Electrical Improvements LS I 107,430 2,827.00 \$ 107,429.95 \$ 2,827.00 26 05 00 (c) Rehabilitation of Existing Electrical Room LS I 42,972 2,249.00 \$ 42,971.98 \$ 2,249.00 25 36 13 Process Instrumentation LS I 16,114 37,177.00 \$ 16,114.49 \$ 37,177.00 40 94 43 Process Controller and Graphic Recorder LS I 12,892 21,984.00 \$ 12,891.59 \$ 21,984.00 Subtotal - Electrical Work \$ 195,522.51 \$ 67,067.00 ELS I 14,297 1,718.00 \$ 4,297.20 \$ 1,718.00 23 31 16 Fiberglass Reinforced Plastic Duct LS I 4,297 1,718.00 \$ 4,297.20 \$ 1,718.00 23 34 00 Ventilation Fans LS I 5,371 2,433.00 \$ 5,371.50 \$ 2,433.00				•		41,08,00			
26 05 00 (a) Site Electrical Demolition Work LS 1 16,114 2,830.00 \$ 16,114.49 \$ 2,830.00 \$ 26 05 00 (b) Site Electrical Improvements LS 1 107,430 2,827.00 \$ 107,429.95 \$ 2,827.00 \$ 26 05 00 (c) Rehabilitation of Existing Electrical Room LS 1 42,972 2,249.00 \$ 42,971.98 \$ 2,249.00 \$ 23 6 13 Process Instrumentation LS 1 16,114 37,177.00 \$ 16,114.49 \$ 37,177.00 \$ 36,114.49 \$ 37,177.	ELECTRICA							. 50	,
26 05 00 (b) Site Electrical Improvements LS 1 107,430 2,827.00 \$ 107,429.95 \$ 2,827.00 26 05 00 (c) Rehabilitation of Existing Electrical Room LS 1 42,972 2,249.00 \$ 42,971.98 \$ 2,249.00 25 36 13 Process Instrumentation LS 1 16,114 37,177.00 \$ 16,114.49 \$ 37,177.00 40 94 43 Process Controller and Graphic Recorder LS 1 12,892 21,984.00 \$ 12,891.59 \$ 21,984.00 Subtotal - Electrical Work \$ 195,522.51 \$ 67,067.00 MECHANICAL WORK \$ 23 31 16 Fiberglass Reinforced Plastic Duct LS 1 4,297 1,718.00 \$ 4,297.20 \$ 1,718.00 23 34 00 Ventilation Fans LS 1 5,371 2,433.00 \$ 5,371.50 \$ 2,433.00 Control of the process Controller and Graphic Recorder LS 1 5,371 2,433.00 \$ 5,371.50 \$ 2,433.00 Control of the process Controller and Graphic Recorder LS 1 5,371 2,433.00 \$ 5,371.50 \$ 2,433.00 Control of the process Controller and Graphic Recorder LS 1 5,371 2,433.00 \$ 5,371.50 \$ 2,433.00 Control of the process Controller and Graphic Recorder LS 1 5,371 2,433.00 \$ 5,371.50 \$ 2,433.00 Control of the process Controller and Graphic Recorder LS 1 5,371 2,433.00 \$ 5,371.50 \$ 2,433.00 Control of the process Controller and Graphic Recorder LS 1 5,371 2,433.00 \$ 5,371.50 \$ 2,433.00 Control of the process Controller and Graphic Recorder LS 1 5,371 2,433.00 \$ 5,371.50 \$ 2,433.00 Control of the process Controller and Graphic Recorder LS 1 5,371 2,433.00 \$ 5,371.50 \$ 2,433.00 Control of the process Controller and Graphic Recorder LS 1 5,371 2,433.00 \$ 5,371.50 \$ 2,433.00 Control of the process Controller and Graphic Recorder LS 1 5,371 2,433.00 \$ 5,371.50 \$ 2,433.00 Control of the process Con			LS	1	16,114	2,830.00	\$ 16,114.49	\$ 2,83	0.00
26 05 00 (c) Rehabilitation of Existing Electrical Room LS 1 42,972 2,249.00 \$ 42,971.98 \$ 2,249.00 \$ 536 13 Process Instrumentation LS 1 16,114 37,177.00 \$ 16,114.49 \$ 37,177.00 \$ 49.94 43 Process Controller and Graphic Recorder LS 1 12,892 21,984.00 \$ 12,891.59 \$ 21,984.00 \$ 12,891.59 \$ 21,984.00 \$ 195,522.51 \$ 67,067.00 \$	26 05 00 (b)	Site Electrical Improvements		1				S 2,82	7.00
25 36 13 Process Instrumentation LS 1 16,114 37,177.00 \$ 16,114.49 \$ 37,177.00 \$ 40 94 43 Process Controller and Graphic Recorder LS 1 12,892 21,984.00 \$ 12,891.59 \$ 21,984.00 \$ 195,522.51 \$ 67,067.00 \$ 195,522.51 \$ 67,067.00 \$ 23 31 16 Fiberglass Reinforced Plastic Duct LS 1 4,297 1,718.00 \$ 4,297.20 \$ 1,718.00 \$ 34,297.20 \$ 1,718.00 \$ 2,433.00 \$ 2,433.00 \$ 2,433.00 \$ 2,433.00 \$ 3,371.50 \$ 2,433.00 \$ 3,371.5	26 05 00 (c)			1					
40 94 43 Process Controller and Graphic Recorder LS 1 12,892 21,984.00 \$ 12,891.59 \$ 21,984.00	25 36 13	Process Instrumentation							
Subtotal - Electrical Work \$ 195,522.51 \$ 67,067.00 MECHANICAL WORK 23 31 16 Fiberglass Reinforced Plastic Duct LS 1 4,297 1,718.00 \$ 4,297.20 \$ 1,718.00 23 34 00 Ventilation Fans LS 1 5,371 2,433.00 \$ 5,371.50 \$ 2,433.00	40 94 43	Process Controller and Graphic Recorder	LS	1			\$ 12,891.59		4.00
MECHANICAL WORK LS 1 4,297 1,718.00 \$ 4,297.20 \$ 1,718.00 23 31 16 Fiberglass Reinforced Plastic Duct LS 1 4,297 1,718.00 \$ 4,297.20 \$ 1,718.00 23 34 00 Ventilation Fans LS 1 5,371 2,433.00 \$ 5,371.50 \$ 2,433.00		Subtotal - Electrical V	Vork						
23 34 00 Ventilation Fans LS 1 5,371 2,433,00 \$ 5,371.50 \$ 2,433.00									
				1					
26 28 23 Enclosed Circuit Breakers LS 2.686 1.142.00 \$ 2.685.75 \$ 1.142.00									
1 1	26 28 23	Enclosed Circuit Breakers	LS		2,686	1,142.00	\$ 2,685.75	\$ 1,14	2.00

Exhibit (10 of 28)



Island-Wide Well Rehabilitation Bid Analysis **GWA Project No. W15-004-EPA**

BID SCHEDULE

Table 2: Rehabilitation of Well D-17

Description: Relocation of existing well, well piping modifications, well electrical improvements, perimeter fence replacement rehabilitation of existing Electrical Room and Chlorinator Building and other related work

Pay Item	Description	Unit	Qty	Engineer's Unit Cost	PacificRIM Constructors Unit Cost*	II .	Engineer's ended Price	Co	cificRIM nstructors ended Price
	Subtotal - Mechanical	S	12,354.44	\$	5,293,00				
CHLORINA	TION SYSTEM			53-2-1					
	New Chlorination System	LŞ	1	107,430	30,232.00	\$	107,429.95	\$	30,232.00
43 32 76 (b)	Rehabilitation of Existing Chlorinator Building	LS	1	10,743	4,724.58	S	10,742.99	\$	4,724.58
	Sample Port	LS	1	1,611	3,787.00	S	1,611.45	S	3,787.00
22 45 33	Emergency Shower and Eye Wash	3,799.00	S	3,222.90	\$	3,799.00			
10 44 16	Fire Extinguisher	S	537.15	S	284.00				
	Subtotal - Chlorination	S	123,544.44	S	42,826.58				
	Total Additive Bid	#2				5	997,664.33	\$	741,100

2016 Unit Cost reflects the % of the cost increase from April 2014 to February 2016, according to the ENR Construction Cost Index (with an additional 3% mark-up for Guam).

% Change: 7,43% Feb-16 10,181.92 Apr-14 9,750.00 Guam % Inc. 3.0%

Total Cost Table 2 (Total Base Bid + Total Additive Bid #2) \$1,075,046.13 \$

Exhibit (11 of 28)



Island-Wide Well Rehabilitation Bid Analysis GWA Project No. W15-004-EPA

BID SCHEDULE

Table 3: Rehabilitation of Well D-18

Description: Relocation of existing well, well piping modifications, well electrical improvements, perimeter fence replacemen rehabilitation of existing Electrical Room and Chlorinator Building and other related worl

PacificRIM **PacificRIM** Engineer's Engineer's Pay Item Description Unit Constructors Constructors **Unit Cost** Extended Price Unit Cost* **Extended Price** BASE BID: WELL EXPLORATION 33 21 00 (a) | Mobilization and Demobilization 4,297.20 10,701.64 4,297.20 10,701.64 33 21 00 (b) GEPA Well Drilling Permit LS 1,074.30 856.00 S 1,074.30 \$ 856.00 33 21 00 (c) Site Access and Preparation 1,611.45 LS 2,562.00 S 1.611.45 \$ 2,562.00 33 21 00 (d) 12-inch Diameter Pilot Hole LF 352 48,727.36 75.20 138.43 \$ 26.470.74 S 33 21 00 (e) Pump, Motor and Accessories Set Up and Removal 4,834.35 19,337.39 18,300.00 LS 18.300.00 4,834.35 \$ LS 19,337.39 \$ 6-hour Step Drawdown + Recovery Tests 6,100.00 6,100.00 33 21 00 (g) 24-hour Constant Rate Pump + Recovery Tests LS 1,074.30 6,100.00 1,074.30 \$ 6,100.00 3,222.90 33 21 00 (h) Complete Water Quality Analysis LS 9,906.00 3,222.90 \$ 9,906.00 2,440.00 Complete Well Monitoring LS 2,148.60 2,148.60 S 2,440.00 Temporary Well Protective Cover 33 21 00 (j) 1,074.30 854.00 1,074.30 \$ 854.00 33 21 00 (k) Pilot Hole Abandonment 17,188.79 12,024.00 17,188.79 \$ 12,024.00 Subtotal - Well Exploration 82,334 \$ 118,571 Total Base Bid 82,334 \$ 118,571 ADDITIVE BID #3: GENERAL REQUIREMENTS Mobilization and Demobilization 91,795.00 44,046.28 91,795.00 44,046,28 Permits and Clearances LS 6,019.00 8,057.25 \$ 6,019.00 8.057.25 1,357.00 01 50 00 (a) Temporary Traffic Control 1,357,00 1,074.30 \$ 1.074.30 01 50 00 (b) Temporary Environmental Control Subtotal - General Requirements 1,782.00 3,222.90 1,782.00 3.222.90 56,400.72 100,953.00 S DEMOLITION WORK 02 41 19 (a) Decommissioning of Existing Well 2.530.00 26,857.49 \$ 2.530.00 26.857.49 7,386.00 02 41 19 (b) Removal of Existing Structures and Obstructions LS 7,386.00 10,742.99 10.742.99 9,916.00 Subtotal - Demolition Work 37,600.48 NEW WELL CONSTRUCTION AND DEVELOPMENT 33 21 00 (l) | Reaming to 24-inch LF 352 248.99 87,644.48 87,644.48 69.83 33 21 00 (m) 16-inch Dia, HSLA Well Casing LF 292 448 26 130.891.92 130,891.92 161 14 33 21 00 (n) 16-inch Dia. SS 304 Well screen LF 30 188.00 644.13 19,323.90 \$ 19,323.90 30 33 21 00 (o) 16-inch Dia. SS 304 (shoe and casing above the screen) LF 646.43 19.392.90 19,392.90 S 128.92 S LS 14,640.00 14,640.00 14,640.00 33 21 00 (p) Gravel Pack and Sanitary Seal 3,222,90 33 21 00 (q) Well Development LS 45,933.00 \$ 45,933.00 \$ 45,933.00 209.488.40 33 21 00 (r) LS LS 70,076.00 70,076.00 70,076.00 Permanent Pump, Motor and Accessories Supply & Installation 124.618.74 72-hour Constant Rate Pump + Recovery Tests 36,600.00 \$ 36,600.00 33 21 00 (s) 36,600.00 \$ 22.560.29 Complete Well Monitoring 3,050.00 33 21 00 (t) LS 3.050.00 3.050.00 3,222,90 Complete Water Quality Analysis 9,906.00 9,906.00 9,906.00 \$ 33 21 00 (u) ĹŚ 5,908.65 33 21 00 (v) Video Log 33 21 00 (w) Disinfection LS 5,636.00 5,636.00 \$ 5,636.00 1.611.45 4,880.00 4,880.00 4,880.00 1,611,45 33 21 00 (x) GEPA Well Operation Permit 1,281.00 1,281.00 \$ 1,281.00 8.057.25 6,576.00 6,576.00 33 21 00 (y) Instruments/Testers (Specification Section 33 21 00-2.6 A) 3.222.90 6,576.00 455,831.20 **\$** Subtotal - New Well Construction and Development 455,831 SITEWORK Site Clearing 3,222.90 31 10 00 731.00 3,222,90 S 731.00 6-foot High Chain Link Fence with 6-inch High CMU Wal 37.60 6,692.89 \$ 12,404.82 178 LF 69.69 32 31 13 (a) 32 31 13 (c) 14-foot Wide Chain Link Vehicular Gate 4,297.20 F٨ 4.710.00 2.355.00 8.594.40 S 32 31 13 (d) 4-foot Wide Chain Link Pedestrian Gate EΑ 805.72 \$ 805.72 1,071.00 1,071.00 Pavement Restorations LS 1,611.45 4,602.00 1,611.45 \$ 4,602.00 Subtotal - Sitework 20,927.35 \$ 23,518.82 NEW SITE WATER PIPING 33 11 16 (a) 24" Diameter PVC Pipe 33 11 16 (b) 6" Diameter PVC Pipe 33 11 16 (c) 2" Diameter PVC Pipe 33 11 16 (d) 1" Diameter PVC Pipe 33 11 16 (f) 1 Ilose Bibb 26,077.80 60 429.72 434.63 S 25,783.19 \$ 3,652.62 \$ LF 34 107.43 347.76 \$ 11,823.84 70 LF 53.71 55.43 \$ 3,760.05 \$ 3,880.10 8,822.00 LF 220 32.23 40 10 5 7 090 38 \$ 1 074 30 1.074.30 S 61.00 1.5 61.00 \$ LS 7.544.00 3,222.90 33 11 16 (g) Chlorine Contact Utility Vault 7,544.00 \$ 3.222.90 S Subtotal - New Site Water Piping 58,208.74 44,583.43 ELECTRICAL WORK 26 05 00 (a) Site Electrical Demolition Work 16.114.49 2,830.00 16.114.49 2,830.00 26 05 00 (b) Site Electrical Improvements 107,429.95 \$ 4,032.00 107,429.95 4,032.00 \$ 26 05 00 (c) 2,249.00 Rehabilitation of Existing Electrical Room LS 42,971.98 2,249.00 42,971.98 \$ 37,177,00 25 36 13 LŚ 37.177.00 S Process Instrumentation 16 114 49 16,114.49 \$ 12,891.59 12,891.59 \$ 21,984.00 40 94 43 Process Controller and Graphic Recorder LS 21,984.00 5 Subtotal - Electrical Work 195,522.51 \$ 68,272.00 MECHANICAL WORK 23 31 16 1,718.00 Fiberglass Reinforced Plastic Duct 4,297.20 1,718.00 \$ 4,297.20 \$ Ventilation Fans 23 34 00 LS 5,371.50 2,433.00 \$ 5,371.50 \$ 2,433.00 2,685.75 **S** 1,142.00 26 28 23 **Enclosed Circuit Breakers** 2,685.75 1,142.00 12,354.44 Subtotal - Mechanical Work 5,293.00 CHLORINATION SYSTEM

Exhibit (12 of 28)



Island-Wide Well Rehabilitation Bid Analysis **GWA Project No. W15-004-EPA**

BID SCHEDULE

<u>Table 3: Rebabilitation of Well D-18</u>
Description: Relocation of existing well, well piping modifications, well electrical improvements, perimeter fence replacement

rehabilitation of existing Electrical Room and Chlorinator Building and other related worl	Ł
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Pay Item	Description	Unit	Qty	Engineer's Unit Cost	PacificRIM Constructors Unit Cost*		Engineer's tended Price	C	acificRIM onstructors tended Price
43 32 76 (a)	New Chlorination System	LS	1	107,429.95	30,232.00	\$	107,429.95	\$	30,232.00
43 32 76 (b)	Rehabilitation of Existing Chlorinator Building	LS	1	21,485.99	5,297.24	\$	21,485.99	\$	5,297.24
43 32 76 (c)	Sample Port	LS	1	1,611.45	3,787.00	S	1,611.45	\$	3,787.00
22 45 33	Emergency Shower and Eye Wash	LS	1	3,222.90	3,799.00	S	3,222.90	\$	3,799.00
10 44 16	Fire Extinguisher	EA	L	537.15	284.00	S	537.15	\$	284.00
	Subtotal - Chlorination					\$	134,287.44	S	43,399.24
	Total Additive Bi	d #3				3	957,507.57	\$	765,392
NOTE:	2016 Unit Cost reflects the % of the cost increase from April 2014 to		% Change:	7.43%					

2016 Unit Cost reflects the % of the cost increase from April 2014 to February 2016, according to the ENR Construction Cost Index (with an additional 3% mark-up for Guam). % Change: 7.43% Feb-16 10,181.92 Apr-14 9,750.00 Guam % Inc. 3.0%

Total Cost Table 3 (Total Base Bid + Total Additive Bid #3) \$\\ \\$ 1,039,841.89 \\$

Exhibit (13 of 28)

14,824

GUAM WATERWORKS AUTHORITY

Island-Wide Well Rehabilitation Bid Analysis GWA Project No. W15-004-EPA

BID SCHEDULE

Table 4: Rehabilitation of Well D-22

Description: Relocation of existing well, well piping modifications, well electrical improvements, perimeter fence replacement rehabilitation of existing Electrical and Chlorinator Rooms and other related work **PacificRIM** PacificRIM Engineer's Engineer's Pay Item Description Unit Constructors Extended Constructors **Unit Cost** Extended Price Unit Cost* Price BASE BID: WELL EXPLORATION 33 21 00 (a) Mobilization and Demobilization 33 21 00 (b) GEPA Well Drilling Permit 4,297 12,165.00 4,297 \$ 12,165 LS 1,074 974.00 1,074 \$ 974 2,562 LS 2,562.00 33 21 00 (c) Site Access and Preparation 1,611 1,611 \$ 450 33 21 00 (d) 12-inch Diameter Pilot Hole LF 133.54 33,840 \$ 60,093 33 21 00 (e) Pump, Motor and Accessories Set Up and Removal 4,834 18,300.00 4,834 S 18,300 6,100.00 6,100 33 21 00 (f) 6-hour Step Drawdown + Recovery Tests LS 24,172 24,172 \$ 33 21 00 (g) 24-hour Constant Rate Pump + Recovery Tests LS 1,074 6,100.00 1,074 \$ 3,223 \$ 33 21 00 (h) Complete Water Quality Analysis LS 9,906.00 9,906 33 21 00 (i) Complete Well Monitoring 33 21 00 (j) Temporary Well Protective Cover 2,149 2,440.00 2,149 S 2,440 854.00 1.074 S 854 33 21 00 (k) Pilot Hole Abandonment 15,372.00 15,372 21,486 21,486 \$ Subtotal - Well Exploration 98.836 S 134,866 Total Base Bid 98,836 134,866 ADDITIVE BID #4: Mobilization and Demobilization 104,564.00 \$ 50,492 S 104,564 Permits and Clearances 8057 6,857.00 8,057 \$ 6,857 01 50 00 (a) Temporary Traffic Control 1074 1,357.00 \$ 1,074 \$ 1,357 3,223 01 50 00 (b) Temporary Environmental Control LS 3223 1,152.00 1,152 Subtotal - General Requirements 62,847 S 113,930 DEMOLITION WORK 02 41 19 (a) Decommissioning of Existing Well 26857 2,530.00 26,857 \$ 2,530 8,679 11,209 02 41 19 (b) Removal of Existing Structures and Obstructions LS 10743 8,679.00 10.743 S Subtotal - Demolition Work 37.600 S NEW WELL CONSTRUCTION AND DEVELOPMENT 33 21 00 (l) Reaming to 24-inch 450 170 245.36 31,423 S 110,412 33 21 00 (m) 16-inch Dia. HSLA Well Casing LF 330 161 472.26 S 53,178 \$ 155,846 33 21 00 (n) 16-inch Dia. SS 304 Well screen LF 40 188 644.15 \$ 7,520 \$ 25,766 33 21 00 (o) 16-inch Dia. SS 304 (shoe and casing above the screen) 49,771 LF 80 622 14 S 10.313 S 1129 3,223 S 33 21 00 (p) Gravel Pack and Sanitary Seal LS 3223 15,860.00 15,860 \$ 33 21 00 (q) Well Development 266426 45,933.00 266,426 \$ 45,933 33 21 00 (r) Permanent Pump, Motor and Accessories Supply & Installation
33 21 00 (s) 72-hour Constant Rate Pump + Recovery Tests LS 160071 68,548.00 160,071 \$ 68,548 29006 36,600.00 29,006 36,600 33 21 00 (t) Complete Well Monitoring LS 3223 3,223 S 3,050 3,050.00 33 21 00 (u) Complete Water Quality Analysis 33 21 00 (v) Video Log 5,909 \$ 9,906 5909 9,906.00 LS 5,636.00 1,611 \$ 5,636 1611 4,880.00 33 21 00 (w) Disinfection 4,880 33 21 00 (x) GEPA Well Operation Permit 8057 1,153.00 8,057 1 1,153 33 21 00 (y) Instruments/Testers (Specification Section 33 21 00-2.6 A) 3223 6,576.00 6,576 Subtotal - New Well Construction and Development 584,795 S 539,937 31 10 00 Site Clearing 1,376.00 3 223 \$ 1,376 32 31 13 (a) 6-foot High Chain Link Fence with 6-inch High CMU Wal 32 31 13 (b) 20-foot Wide Chain Link Vehicular Gate 11,506 \$ 20,205 LF 306 38 66.03 3,299 2,322 6446 3,299.00 \$ 6.446 \$ 4297 4,297 S 32 31 13 (c) 14-foot Wide Chain Link Vehicular Gate EΑ 2,322.00 Subtotal - Sitework 25,472 \$ 27,202.18 NEW SITE WATER PIPING 33 11 16 (a) | 24" Diameter PVC Pipe 28,275 70 430 403.93 30,080 \$ 12,948 1,704 33 11 16 (b) 6" Diameter PVC Pipe LF 50 107 258.96 5,371 537 33 I I 16 (c) 2" Diameter PVC Pipe LF 10 54 170.40 33 11 16 (d) 1" Diameter PVC Pipe 8,885 LF 210 32 6.768 S 42.31 33 11 16 (g) | Diameter PVC Pipe 33 11 16 (f) | Hose Bibb 33 11 16 (g) | Chlorine Contact Utility Vault 27 53.00 S 01 269 S 530 LF 1074 LS 61.00 \$ 1 074 \$ 61 3,223 \$ 7.544 3223 LS 7,544.00 Subtotal - New Site Water Piping 59,947.20 47,323 ELECTRICAL WORK 26 05 00 (a) Site Electrical Demolition Work 26 05 00 (b) Site Electrical Improvements 2,830.00 2.830 16114 16,114 LS 107430 4,462.00 S 4.462 107,430 \$ 2,249 37,177 26 05 00 (c) Rehabilitation of Existing Electrical Room 42972 2.249.00 S 42,972 25 36 13 37,177.00 Process Instrumentation 16114 16,114 \$ Process Controller and Graphic Recorder 40 94 43 12892 21,984.00 12,892 \$ 21,984 Subtotal - Electrical Work 195,523 \$ 68,702.00 MECHANICAL WORK 1,718 23 31 16 Fiberglass Reinforced Plastic Duct 4797 1,718.00 4,297 23 34 00 6,020 Ventilation Fans LS 5371 6,020.00 5,371 26 28 23 Enclosed Circuit Breakers LS 2686 2,284.00 2,686 2.284 Subtotal - Mechanical Work 10,022 CHLORINATION SYSTEM 43 32 76 (a) New Chlorination System 43 32 76 (b) Rehabilitation of Existing Chlorinator Room 30,232 112801 30,232.00 \$ 112,801 \$

16114

14,823.62

16,114 \$

Exhibit (14 of 28)

GUAM WATERWORKS AUTHORITY

Island-Wide Well Rehabilitation Bid Analysis **GWA Project No. W15-004-EPA**

BID SCHEDULE

Table 4: Rehabilitation of Well D-22

Description: Relocation of existing well, well piping modifications, well electrical improvements, perimeter fence replacement. rehabilitation of existing Electrical and Chlorinator Rooms and other related work

Pay Item	Description	Vait	Qty	Engineer's Unit Cost	PacificRIM Constructors Unit Cost*	Engineer's Extended Price	PacificRIM Constructors Extended Price
43 32 76 (c)	Sample Port	LS	1	1611	3,787.00	\$ 1,611	
22 45 33	Emergency Shower and Eye Wash	LS	I	3223	3,799.00	\$ 3,223	\$ 3,799
10 44 16	Fire Extinguisher	EA	1	537	284.00	\$ 537	\$ 284
	Subtotal - Chlorination					\$ 134,287	S 52,925.62
	Total Additive Bio	#4				\$ 1,074,729	\$ 883,875

2016 Unit Cost reflects the % of the cost increase from April 2014 to February 2016, according to the ENR Construction Cost ladez (with an additional 3% mark-up for Guam). NOTE: % Change: 7.43% Feb-16 10,181.92 9,750.00 Apr-14 Gasm % Inc. 3.0%

Total Cost Table 4 (Total Base Bid + Total Additive Bid #4)

1,018,741.00 \$ 1,173,564.76 \$

Exhibit A (15 of 28)



GUAM WATERWORKS AUTHORITY Island-Wide Well Rehabilitation Bid Analysis **GWA Project No. W15-004-EPA**

BID SCHEDULE

Table 7: Rehabilitation of Well M-09
Description: Relocation of existing well, well piping modifications, well electrical improvements, perimeter fence replacement rehabilitation of existing Electrical Room and Chlorinator Building and other related work

	rehabilitation of existing Electrical Room and Chlorinator	Building an	d other rela	ited work				
Pay Item	Description	Unit	Qty	Engineer's Unit Cost	PacificRIM Constructors Unit Cost*	Engineer's Extended Price	‹	PacificRIM Constructors Itended Price
BASE BID:		Company of the last of				The state of the state of	100	
WELL EXP								
33 21 00 (a)	Mobilization and Demobilization	LS	1	3,223	12,703.44	\$ 3,223	\$	12,703
	GEPA Well Drilling Permit	LS	1	1,074	1,119.00	S 1,074	•	1,119
	Site Access and Preparation	LS	1	1,611	2,562.00	S 1,611	15	2,562
33 21 00 (d)	12-inch Diameter Pilot Hole	LF	476	75	132.56	\$ 35,796		63,099
33 21 00 (e)	Pump, Motor and Accessories Set Up and Removal	LS	1	4,834	18,300.00	\$ 4,834		18,300
	6-hour Step Drawdown + Recovery Tests 24-hour Constant Rate Pump + Recovery Tests	LS LS	1	16,114	6,100.00	\$ 16,114		6,100
	Complete Water Quality Analysis	LS	1	1,074 3,223	9,906.00	\$ 1,074 \$ 3,223		6,100 9,906
33 21 00 (i)	Complete Well Monitoring	LS	i	2,149	2,257.00	\$ 2,149		2,257
	Temporary Well Protective Cover	LS	1	1,074	2,440.00	S 1,074	ŝ	2,440
	Pilot Hole Abandonment	LS	i	14,503	16,260.00	\$ 14,503		16,260
	Subtotal - Well Explo				1.01200.00	\$ 84,676		140,846
!	Total Base Bid					5 84,676	5	140,846
ADDITIVE I		Ro Comp					100	
	REQUIREMENTS		0.00					
01 71 13	Mobilization and Demobilization	LS	1	51,566	94,756.00	\$ 51,566	S	94,756
C-2	Permits and Clearances	LS	1	8,057	6.214.00	\$ 8,057	Š	6,214
01 50 00 (a)	Temporary Traffic Control	LS	1	1,074	3,758.00	\$ 1,074		3,758
	Temporary Environmental Control	LS	1	3,223	1,044.00	\$ 3,223	S	1,044
· · · · · · · · · · · · · · · · · · ·	Subtotal - General Requi	rements				63,921		105,772,00
DEMOLITIC	ON WORK							
02 41 19 (a)	Decommissioning of Existing Well	LS	1	26,857	2,530.00	\$ 26,857	5	2,530
02 41 19 (b)	Removal of Existing Structures and Obstructions	LS	1	10,743	8,679.00	\$ 10,743	S	8,679
	Subtotal - Demolition	Work		·		\$ 37,600	S	11,209
	CONSTRUCTION AND DEVELOPMENT							
	Reaming to 24-inch	LF	476	70	241.68	\$ 33,239	S	115,040
	16-inch Dia, HSLA Well Casing	LF	427	161	409.73	\$ 68,809	\$	174,955
	16-inch Dia. SS 304 Well screen	LF	22	188	802.27	\$ 4,136	\$	17,650
	16-inch Dia. SS 304 (shoe and casing above the screen)	LF	27	129	1,008.52	\$ 3,481	\$	27,230
33 21 00 (p)	Gravel Pack and Sanitary Seal	LS	1	3,223	14,921.00	\$ 3,223	S	14,921
33 21 00 (q)	Well Development	LS	1	281,466	45,933.00	\$ 281,466	S	45,933
	Permanent Pump, Motor and Accessories Supply & Installation	LS	1	168,665	69,390.00	\$ 168,665		69,390
33 21 00 (s)	72-hour Constant Rate Pump + Recovery Tests	LS	!	31,155	36,600.00	\$ 31,155		36,600
33 21 00 (t)	Complete Well Monitoring	LS	1	3,223	3,050.00	\$ 3,223		3,050
33 21 00 (u) 33 21 00 (v)	Complete Water Quality Analysis	LS		5,909	9,906.00	\$ 5,909		9,906
	Video Log	LS	1	1,611	5,636.00	\$ 1,611	\$	5,636
33 21 00 (w)	GEPA Well Operation Permit	LS	1	1,611	4,880.00	\$ 1,611		4,880
33 21 00 (x) 33 21 00 (y)	Instruments/Testers (Specification Section 33 21 00-2.6 A)	LS	1	8,057 3,223	1,243.00 6,576.00	\$ 8,057 \$ 3,223	S	1,243 6,576
33 21 00 (y)	Subtotal - New Well Construction			13,223	[0,570.00	\$ 617,808		533,009.37
SITEWORK		and Develop	MICH			3 017,808	3	333,009.37
31 10 00	Site Clearing	LS	ī	3,223	992.00	\$ 3,223	-	992
	6-foot High Chain Link Fence with 6-inch High CMU Wall	LF	222	38	67.18	\$ 8,347		14,914
	14-foot Wide Chain Link Vehicular Gate	EΛ	2	4,297	2,088.50	\$ 8,594	Ŝ	4,177
	Subtotal - Sitewor			7,671	12,000,20	\$ 20,165	S	20,082.96
NEW SITE V	VATER PIPING					J 20,103	-	20,002,70
33 11 16 (a)	24" Diameter PVC Pipe	LF	60	430	408,45	\$ 25,783	\$	24,507
33 11 16 (b)	6" Diameter PVC Pipe	LF	50	107	271.14	\$ 5,371	5	13,557
	2" Diameter PVC Pipe	LF	60	54	59.85	\$ 3,223		3,591
	1" Diameter PVC Pipe	LF	80	32	51.33	\$ 2,578		4,106
33 11 16 (c)	3/4" Diameter PVC Pipe	LF	20	27	52.95	\$ 537		1,059
	Hose Bibb	LS	1	1,074	61.00	\$ 1,074		61
	Chlorine Contact Utility Vault	LS	1	3,223	7,544.00	\$ 3,223		7,544
	Subtotal - New Site Water					\$ 41,790		54,425.40
ELECTRICA	L WORK							
26 05 00 (a)	Site Electrical Demolition Work	LS	1	16,114	2,830.00	\$ 16,114	\$	2,830
26 05 00 (b)	Site Electrical Improvements	LS	1		5,753.00	\$ 107,430		5,753
26 05 00 (c)	Rehabilitation of Existing Electrical Room	LS	1		2,249.00	\$ 42,972		2,249
	Process Instrumentation	LS	1	16,114	37,177.00	\$ 16,114		37,177
	Process Controller and Graphic Recorder	LŞ	1	12,892	21,984.00	\$ 12,892		21,984
4	Subtotal - Electrical V	Vork				\$ 195,523		69,993
MECHANIC	AL WORK		11 11					
23 31 16	Fiberglass Reinforced Plastic Duct	LS	1	4,297	1,718.00	\$ 4,297		1,718
23 34 00	Ventilation Fans Enclosed Circuit Breakers	LS	1	5,371	2,433.00	\$ 5,371		2,433
26 28 23		LS		2,686	1,142.00	\$ 2,686	-	1,142

Exhibit A (16 of 28)

GUAM WATERWORKS AUTHORITY

Island-Wide Well Rehabilitation Bid Analysis GWA Project No. W15-004-EPA

BID SCHEDULE

Table 7: Rehabilitation of Well M-09
Description: Relocation of existing well, well piping modifications, well electrical improvements, perimeter fence replacement rehabilitation of existing Electrical Room and Chlorinator Building and other related work

Pay Item	Description	Vnit	Qty	Engineer's Unit Cost	PacificRIM Constructors Unit Cost*		ngineer's ended Price	Co	cificRIM nstructors ended Price
1	Subtotal - Mechanical	Work				\$	12,354	\$	5,293
CHLORINA	TION SYSTEM								
43 32 76 (a)	43 32 76 (a) New Chlorination System LS 1 112,801 30,232.00							\$	30,232
43 32 76 (b)	Rehabilitation of Existing Chlorinator Building	LS	1	16,114	4,676.27	\$	16,114	S	4,676.27
43 32 76 (c)	Sample Port	LS	1	1,611	3,787.00	S	1,611	S	3,787
22 45 33	Emergency Shower and Eye Wash	LS	1	3,223	3,799.00	S	3,223	S	3,799
10 44 16	Fire Extinguisher	EA	1	537	284.00	S	537	\$	284
	Subtotal - Chlorination	System				\$	134,287	\$	42,778.27
	Total Additive Bid	#7				5	1,123,449	5	842,563

NOTE:

2016 Unit Cost reflects the % of the cost increase from April 2014 to February 2016, according to the ENR Construction Cost Index (with an additional 3% mark-up for Guam).

% Change: 7.43% Feb-16 10,181.92 Apr-14 9,750.00 Guam % Inc. 3.0%

Total Cost Table 7 (Total Base Bid + Total Additive Bid #7)

983,409.00 \$ 1,208,124.97 \$

Exhibit A (17 of 28)

Attachment #3 - Bid Proposals

Prepared for Guam Waterworks Authority

Brown 🗝 Caldwell

GWA ISLAND-WIDE WELL SITE REHABILITATION PROJECT GWA PROJECT NO. W15-004-EPA

		BID SUMMAR	RY		
1	WELL D-03	BASE BID		\$	129,567.00
-	***************************************	ADDITIVE BID #1		\$	818,361.00
				*	,
		Subtotal 1		\$	947,928.00
2	WELL D-17	BASE BID		\$	114,747.00
		ADDITIVE BID #2		\$	741,100.00
		Subtotal 2		\$	855,847.00
3	WELL D-18	BASE BID		\$	118,571.00
		ADDITIVE BID #3		\$	765,392.00
		Subtotal 3	N	\$	883,963.00
4	WELL D-22	BASE BID		\$	134,866.00
		ADDITIVE BID #4		\$	883,875.00
		Subtotal 4		\$	1,018,741.00
7	WELL M-09	BASE BID		\$	140,846.00
		ADDITIVE BID #7		\$	842,563.00
		Subtotal 7		\$	983,409.00
	Total Bid Amount (Item 1 to 7) in the amount of	FOUR MILLION SIX H	IUNDR	ED EIGHTY NINE
	THOUSANI	DEIGHT HUNDRED EIGHTY EIGHT	dollars and no cents.	\$	4,689,888.00

Exhibit A (19 of 28) "REVISION-01"

GWA ISLAND-WIDE WELL SITE REHABILITAION PROJECT GWA PROJECT NO. W15-004-EPA

Pay item	DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL
	Rehabilitation of Well D-03				EW.
	Description:				
	Relocation of existing well, well piping modifications, well electrical improvements, perimeter fence replacement, rehabilitation of existing Electrical and Chlorinator Rooms and other related work				
BASEBID					
WELL EXPL	ORATION	Ente			100 PE
33 21 00 (a)	Mobilization and Demobilization	1	LS	11,690.50	11,690 50
33 21 00 (b)	GEPA Well Drilling Permit	1	LS	936.00	936 00
33 21 00 (c)	Site Access and Preparation	1	LS	2,562.00	2,562.00
33 21 00 (d)	12-inch Diameter Pilot Hole	410	LF	135.25	55,452.50
33 21 00 (e)	Pump, Motor and Accessories Set Up and Removal	1	LS	18,300.00	18,300.00
33 21 00 (f)	6-hour Step Drawdown + Recovery Tests	1	LS	6,100.00	6,100.00
33 21 00 (g)	24-hour Constant Rate Pump + Recovery Tests	1	LS	6,100.00	6,100.00
33 21 00 (h)	Complete Water Quality Analysis	1	LS	9,906.00	9,906 00
33 21 00 (i)	Complete Well Monitoring	1	LS	3,660.00	3,660 00
33 21 00 (j)	Temporary Well Protective Cover	1	LS	854.00	854 00
33 21 00 (k)	Pilot Hole Abandonment	1	LS	14,006.00	14,006 00
	Subtotal - V	Vell Expl	oration		\$ 129,567.00
ADDITE	VE BID #i:	10000000			
GENERAL R	EQUIREMENTS	(IIII)			
01.71.13	Mobilization and Demobilization	1	LS	98,256.00	98,256.00
C-2	Permits and Clearances	1	LS	6,444.00	6,444.00
01 50 00 (a)	Temporary Traffic Control	1	LS	1,357.00	1,357.00
01 50 00 (b)	Temporary Environmental Control	1	LS	1,121.00	1,121.00
	Subtotal - Genera			.,	\$ 107,178.00
DEMOLITIO	N WORK				
02 41 19 (a)	Decommissioning of Existing Well	1	LS	19,610.00	19,610.00
02 41 19 (b)	Removal of Existing Structures and Obstructions	1	LS	8,308.00	8,308.00
	Subtotal - D			0,000.00	\$ 27,918.00
					31,010.00
NEW WELL	CONSTRUCTION AND DEVELOPMENT		THE NO		
		410	LF	229.72	94.185.20
33 21 00 (l)	Reaming to 24-inch	410 360	LF	229.72 434.69	
33 21 00 (f) 33 21 00 (m)	Reaming to 24-inch 16-inch Dia. HSLA Well Casing	360	LF	434.69	94,185.20 156,488.40 14,171.08
NEW WELL 33 21 00 (f) 33 21 00 (m) 33 21 00 (n) 33 21 00 (o)	Reaming to 24-inch 16-inch Dia. HSLA Well Casing 16-inch Dia. SS 304 Well screen 16-inch Dia. SS 304 (shoe and casing above the		_		
33 21 00 (f) 33 21 00 (m) 33 21 00 (n) 33 21 00 (o)	Reaming to 24-inch 16-inch Dia. HSLA Well Casing 16-inch Dia. SS 304 Well screen 16-inch Dia. SS 304 (shoe and casing above the screen)	360 22 28	LF LF	434.69 644.14 649.22	156,488.40 14,171.08 18,178.16
33 21 00 (h) 33 21 00 (m) 33 21 00 (n) 33 21 00 (o) 33 21 00 (p)	Reaming to 24-inch 16-inch Dia. HSLA Well Casing 16-inch Dia. SS 304 Well screen 16-inch Dia. SS 304 (shoe and easing above the screen) Gravel Pack and Sanitary Seal	360 22 28 1	LF LF LF	434.69 644.14 649.22 14,640.00	156,488.40 14,171.08 18,178.16 14,640.00
33 21 00 (f) 33 21 00 (m) 33 21 00 (n)	Reaming to 24-inch 16-inch Dia. HSLA Well Casing 16-inch Dia. SS 304 Well screen 16-inch Dia. SS 304 (shoe and casing above the screen)	360 22 28	LF LF	434.69 644.14 649.22	156,488.40 14,171.08
33 21 00 (f) 33 21 00 (m) 33 21 00 (n) 33 21 00 (o) 33 21 00 (p) 33 21 00 (q) 33 21 00 (r)	Reaming to 24-inch 16-inch Dia. HSLA Well Casing 16-inch Dia. SS 304 Well screen 16-inch Dia. SS 304 (shoe and easing above the screen) Gravel Pack and Sanitary Seal Well Development Permanent Pump, Motor and Accessories Supply & installation	360 22 28 1 1	LF LF LF LS LS	434.69 644.14 649.22 14,640.00 45,933.00 59,492.00	156,488.40 14,171.08 18,178.16 14,640.00 45,933.00 59,492.00
33 21 00 (f) 33 21 00 (m) 33 21 00 (m) 33 21 00 (n) 33 21 00 (p) 33 21 00 (p) 33 21 00 (r) 33 21 00 (r)	Reaming to 24-inch 16-inch Dia. HSLA Well Casing 16-inch Dia. SS 304 Well screen 16-inch Dia. SS 304 (shoe and easing above the screen) Gravel Pack and Sanitary Seal Well Development Permanent Pump, Motor and Accessories Supply & installation 72-hour Constant Rate Pump + Recovery Tests	360 22 28 1 1 1	LF LF LF LS LS LS	434.69 644.14 649.22 14,640.00 45,933.00 59,492.00 36,600.00	156,488.40 14,171.08 18,178.16 14,640.00 45,933.00 59,492.00 36,600.00
33 21 00 (b) 33 21 00 (m) 33 21 00 (m) 33 21 00 (n) 33 21 00 (p) 33 21 00 (q) 33 21 00 (f) 33 21 00 (f)	Reaming to 24-inch 16-inch Dia. HSLA Well Casing 16-inch Dia. SS 304 Well screen 16-inch Dia. SS 304 (shoe and easing above the screen) Gravel Pack and Sanitary Seal Well Development Permanent Pump, Motor and Accessories Supply & installation 72-hour Constant Rate Pump + Recovery Tests Complete Well Monitoring	360 22 28 1 1 1	LF LF LS LS LS LS	434.69 644.14 649.22 14,640.00 45,933.00 59,492.00 36,600.00 4,270.00	156,488.40 14,171.08 18,178.16 14,640.00 45,933.00 59,492.00 36,600.00 4,270.00
33 21 00 (b) 33 21 00 (m) 33 21 00 (m) 33 21 00 (n) 33 21 00 (p) 33 21 00 (p) 33 21 00 (f) 33 21 00 (h) 33 21 00 (h)	Reaming to 24-inch 16-inch Dia. HSLA Well Casing 16-inch Dia. SS 304 Well screen 16-inch Dia. SS 304 (shoe and easing above the screen) Gravel Pack and Sanitary Seal Well Development Permanent Pump, Motor and Accessories Supply & installation 72-hour Constant Rate Pump + Recovery Tests Complete Well Monitoring Complete Water Quality Analysis	360 22 28 1 1 1 1 1	LF LF LS LS LS LS LS LS LS LS	434.69 644.14 649.22 14,640.00 45,933.00 59,492.00 36,600.00 4,270.00 9,906.00	156,488.40 14,171.08 18,178.16 14,640.00 45,933.00 59,492.00 36,600.00 4,270.00 9,906.00
33 21 00 (h) 33 21 00 (m) 33 21 00 (m) 33 21 00 (n) 33 21 00 (p) 33 21 00 (p) 33 21 00 (f) 33 21 00 (f) 33 21 00 (f) 33 21 00 (f) 33 21 00 (h) 33 21 00 (h) 33 21 00 (h)	Reaming to 24-inch 16-inch Dia. HSLA Well Casing 16-inch Dia. SS 304 Well screen 16-inch Dia. SS 304 (shoe and casing above the screen) Gravel Pack and Sanitary Seal Well Development Permanent Pump, Motor and Accessories Supply & installation 72-hour Constant Rate Pump + Recovery Tests Complete Well Monitoring Complete Water Quality Analysis Video Log	360 22 28 1 1 1 1 1 1 1	LF LF LF LS LS LS LS LS	434.69 644.14 649.22 14,640.00 45,933.00 59,492.00 36,600.00 4,270.00 9,906.00 5,636.00	156,488.40 14,171.08 18,178.16 14,640.00 45,933.00 59,492.00 36,600.00 4,270.00 9,906.00 5,636.00
33 21 00 (h) 33 21 00 (m) 33 21 00 (m) 33 21 00 (n) 33 21 00 (p) 33 21 00 (p) 33 21 00 (f) 33 21 00 (f) 33 21 00 (f) 33 21 00 (f) 33 21 00 (h)	Reaming to 24-inch 16-inch Dia. HSLA Well Casing 16-inch Dia. SS 304 Well screen 16-inch Dia. SS 304 (shoe and casing above the screen) Gravel Pack and Sanitary Seal Well Development Permanent Pump, Motor and Accessories Supply & installation 72-hour Constant Rate Pump + Recovery Tests Complete Well Monitoring Complete Water Quality Analysis Video Log Disinfection	360 22 28 1 1 1 1 1 1 1	LF LF LS	434.69 644.14 649.22 14,640.00 45,933.00 59,492.00 36,600.00 4,270.00 9,906.00 5,636.00 4,880.00	156,488.40 14,171.08 18,178.16 14,640.00 45,933.00 59,492.00 36,600.00 4,270.00 9,906.00 5,636.00 4,880.00
33 21 00 (b) 33 21 00 (m) 33 21 00 (n) 33 21 00 (p) 33 21 00 (p) 33 21 00 (r) 33 21 00 (r)	Reaming to 24-inch 16-inch Dia. HSLA Well Casing 16-inch Dia. SS 304 Well screen 16-inch Dia. SS 304 (shoe and casing above the screen) Gravel Pack and Sanitary Seal Well Development Permanent Pump, Motor and Accessories Supply & installation 72-hour Constant Rate Pump + Recovery Tests Complete Well Monitoring Complete Water Quality Analysis Video Log	360 22 28 1 1 1 1 1 1 1	LF LF LF LS LS LS LS LS	434.69 644.14 649.22 14,640.00 45,933.00 59,492.00 36,600.00 4,270.00 9,906.00 5,636.00	156,488.40 14,171.08 18,178.16 14,640.00 45,933.00

Exhibit A (20 of 28)

GWA ISLAND-WIDE WELL SITE REHABILITAION PROJECT GWA PROJECT NO. W15-004-EPA

		שונו	3011	LDULL	
Pay item	DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL
SITEWORK			111221201		
31 10 00	Site Clearing	1	LS	1,157.00	1,157.00
32 31 13 (a)	6-foot High Chain Link Fence with 6-inch High CMU Wall	272	LF	67.18	18,274.00
32 31 13 (c)	14-foot Wide Chain Link Vehicular Gate	2	ΕA	2,303.50	4,607.00
		ubtotal - Si		2,000,00	\$ 24,038.00
NEW SITE WA					
		70		140.07	00.057.00
33 11 16 (n): 33 11 16 (b)	24" Diameter PVC Pipe 6" Diameter PVC Pipe	70	LF :	413.67 508.55	28,957.00
33 11 16 (c)	2" Diameter PVC Pipe	90	LF	51.71	10,171.00 4,654.00
33 [1 [6 (d)	1" Diameter PVC Pipe	120	LF	45.38	5,445.00
33 11 16 (c)	3/4" Diameter PVC Pipe	20	LF	52.95	1,059 00
33 11 16 (0	Hose Bibb	1	LS	61.00	61.00
33 11 16 (g)	Chlorine Contact Utility Vault	1	LS	7,842.00	7,842.00
	Subtotal - New	Site Water	Piping		\$ 58,189.00
ELECTRICAL	WORK		13-0		
26 05 00 (a)	Site Electrical Demolition Work	1	LS	2,830.00	2,830.00
26 05 00 (6)	Site Electrical Improvements	1 1	LS	3,086.00	3.086.00
26 05 00 (c)	Rehabilitation of Existing Electrical Room	1 1	LS	2,249.00	2,249.00
25 36 13	Process Instrumentation	1	LS	37,177.00	37,177.00
40 94 43	Process Controller and Graphic Recorder	1	LS	26.864.00	26,864.00
		I - Electrica		20100-7100	72,206.00
MECHANICAL	World				
MECHANICAL					
23 31 16	Fiberglass Reinforced Plastic Duct	1 1	LS	1,718.00	1,718,00
23 34 00	Ventilation Fans	1	LS	5,776.00	5,776.00
26 28 23	Enclosed Circuit Breakers Subtotal -	1 Mechanica	LS	2,284.00	\$ 2.284.00 \$ 9,778.00
CHLORINATIO	ON SYSTEM		Linux		
43 32 76 (a)	New Chlorination System	1 1	LS	30,232,00	30,232.00
43 32 76 (6)	Rehabilitation of Existing Chlorinator Room	1	LS	8,715.16	8,715.16
43 32 76 (c)	Sample Port	1	LS	3,787.00	3,787,00
22 45 33	Emergency Shower and Eye Wash	1	LS	3,799.00	3,799.00
10 44 16	Fire Extinguisher	1 1	EA	284.00	284.00
	Subtotal - Chi	orination S	ystem		\$ 46,817.16
	TOTA	L ADDITVE	BID #1		\$ 818,361.00
>>>>>	TOTAL- Rehabilita	-Ai£184-	11 0 00		
	TOTAL- Renabilita	ation of vve	נט-ע ווי		\$ 947,928.00
				-	

Exhibit A (21 of 28) "REVISION-01"

GWA ISLAND-WIDE WELL SITE REHABILITAION PROJECT GWA PROJECT NO. W15-004-EPA

	BID SCHEDOLE								
Pay item	DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL				
	Rehabilitation of Well D-17								
	Description:								
	Relocation of existing well, well piping modifications, well electrical improvements, perimeter fence replacement, rehabilitation of existing Electrical Room and Chlorinator Building and other related work								
BASE B	ID:				19 TV2				
WELL EXP									
33 21 00 (a)	Mobilization and Demobilization	1	LS	10,358.00	10,358.00				
33 21 00 (b)		1	LS	828.00	828.00				
33 21 00 (e)	GEPA Well Drilling Permit Site Access and Preparation	1	LS	2,562.00	2,562.00				
33 21 00 (d)	12-inch Diameter Pilot Hole	329	LF	140.00	46,060.00				
33 El (M) (B)	12-inch Diameter Phot Hole	323		140.00	40,000.00				
33 2 00 (e)	Pump, Motor and Accessories Set Up and Removal	1	LS	18,300.00	18,300.00				
33 21 90 (f)	6-hour Step Drawdown + Recovery Tests	1	LS	6,100.00	6,100.00				
33 21 00 (g)	24-hour Constant Rate Pump + Recovery Tests	1	LS	6,100.00	6,100.00				
33 21 00 (h)	Complete Water Quality Analysis	1	LS	9,906.00	9,906.00				
33 21 00 to	Complete Well Monitoring	1	LS	2,440.00	2,440.00				
33 21 00 (j)	Temporary Well Protective Cover	1	LS	854.00	854.00				
33 21 00 (k)	Pilot Hole Abandonment	1	LS	11,239.00	11,239.00				
	Subtotal - V	Vell Expl	oration		\$ 114,747.00				
The second second		Control of the	Accessed to the						
ADDITIVI	F B]D #2:	- 1000							
GENERAL F	REQUIREMENTS	3 50							
01 71 13	Mobilization and Demobilization	1	LS	89,217.00	89,217.00				
C-2	Permits and Clearances	1	LS	5,851.00	5,851.00				
01 50 00 (a)	Temporary Traffic Control	1	LS	-					
01 50 QO (b)	Temporary Environmental Control	1	LS	1,782.00	1,782.00				
	Subtotal - Genera	I Requir	ements		\$ 96,850.00				
DEMOLITIC									
02 41 19 (a)	Decommissioning of Existing Well	11	LS	2,530.00	2,530,00				
02 41 19 (b)	Removal of Existing Structures and Obstructions	1	LS	7,752.00	7,752.00				
	Subtotal + D	emolitio	n Work		\$ 10,282.00				
NEW WELL	CONSTRUCTION AND DEVELOPMENT	23 100							
33 21 00 (l)	Rearning to 24-inch	329	LF	251.90	82,875.10				
33 21 00 (m)	16-inch Dia, HSLA Well Casing	279	LF	444.68	124,065,72				
33 21 00 (n)	16-inch Dia, SS 304 Well screen	22	LF	644.14	14,171,08				
33 21 00 (a)	16-inch Dia, SS 304 (shoe and casing above the	28	LF	649.21	18,177,88				
	screen)		10	40.000.00	40,000,00				
33 21 00 (p)	Gravel Pack and Sanitary Seal	1	LS	12,200.00	12,200.00				
33 21 00 (q)	Well Development	1	LS	45,933.00	45,933.00				
33 21 00 (r)	Permanent Pump, Motor and Accessories Supply & Installation	1	LS	67,309.00	67,309.00				
	72-hour Constant Rate Pump + Recovery Tests	1	LS	36,600.00	36,600.00				
33 21 00 (s)		1	LS	3,050.00	3,050.00				
	Complete Well Monitoring								
33 21 00 (t)	Complete Well Monitoring Complete Water Quality Analysis	1	LS	9,906.00	9,906.00				
33 21 00 (t) 33 21 00 (u)				9,906.00 5,636.00					
33 21 00 (t) 33 21 00 (u) 33 21 00 (v)	Complete Water Quality Analysis	1	LS		5,636.00				
33 21 00 (t) 33 21 00 (u) 33 21 00 (v) 33 21 00 (w)	Complete Water Quality Analysis Video Log	1	LS LS	5,636.00	9,906.00 5,636.00 4,880.00 1,281.00				
33 21 00 (s) 33 21 00 (t) 33 21 00 (u) 33 21 00 (v) 33 21 00 (v) 33 21 00 (v) 33 21 00 (v)	Complete Water Quality Analysis Video Log Disinfection	1 1 1	LS LS LS	5,636.00 4,880.00	5,636.00 4,880.00				

Exhibit A (22 of 28)

GWA ISLAND-WIDE WELL SITE REHABILITAION PROJECT GWA PROJECT NO. W15-004-EPA

	<u></u> .	טוט	30111	LDULL		
Pay item	DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL	
SITEWORK		197				
31 10 00	Site Clearing	1.	LS	909.00	9	909.00
32 31 13 (a)	6-foot High Chain Link Fence with 6-inch High CMU Wall	212	LF	68.47	14,5	515.64
32 31 13 (c)	14-foot Wide Chain Link Vehicular Gate	2	EA	2,303.50	4,6	507.00
	Si	ıbtotal - Si	tework		\$ 20,0	31.64
NEW SITE WA		13165	200.8			
33 11 16 (a)	24" 12" Diameter PVC Pipe	230	LF	161.85		225.50
33 11 16 (b)	6" Diameter PVC Pipe	60	LF	194.08		544.80
33 11 16 (c)	2" Diameter PVC Pipe	50	LF	65.06		253.00
33 11 16 (d)	1" Diameter PVC Pipe	110	LF	46.57		22.70
33 11 16 (f)	Hose Bibb	1	LS	61,00		61.00
33 11 16 (g)	Chlorine Contact Utility Vault	1	LS	8,782.00		782.00
	Subtotal - New	Site Water	Piping		\$ 66,0	089.00
ELECTRICAL	WORK	10-00				
26 05 00 (a)	Site Electrical Demolition Work	1	LS	2,830.00	2 Я	30.00
26 05 00 (b)	Site Electrical Improvements	1	LS	2.827.00		327.00
26 05 00 (c)	Rehabilitation of Existing Electrical Room	1	LS	2,249.00		249.00
25 36 13	Process Instrumentation	1	LS	37,177.00		77.00
40 94 43	Process Controller and Graphic Recorder	1	LS	21,984.00		84.00
		- Electrica		2 1100 1100		67.00
		T	1		•	
MECHANICAL	WORK					
23 31 16	Fiberglass Reinforced Plastic Duct	1	LS	1,718.00	1,7	718.00
23 34 00	Ventilation Fans	1	LS	2,433.00		33.00
26 28 23	Enclosed Circuit Breakers	1	LS	1,142.00	1,1	142.00
	Subtotal -	Mechanica	l Work		\$ 5,2	293.00
CHLORINATIO			1.0	00.000.00		
43 32 76 (a)	New Chlorination System	1	LS	30,232.00		232.00
43 32 76 (b)	Rehabilitation of Existing Chlorinator Building	1	LS	4,724.58		724.58
43 32 76 (c) 22 45 33	Sample Port	1	LS LS	3,787.00		787.00
10 44 16	Emergency Shower and Eye Wash Fire Extinguisher	1	EA	3,799.00 284.00		799.00 284.00
10-44-10	Subtotal - Chi			204.00		326.58
	Subtotal - Olli	Jimation (Jystoni		4 42,0	20,30
	TOTAL	ADDITVE	BID #2		\$ 741,1	00.00
		1				
>>>>>	TOTAL- Rehabilita	tion of W	ell D-17		\$ 855,8	147.00
		1				
		1				
		1	 			
		1				
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Exhibit A (23 of 28)

GWA ISLAND-WIDE WELL SITE REHABILITAION PROJECT GWA PROJECT NO. W15-004-EPA

			0011	LDULL	,
Pay item	DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL
	Rehabilitation of Well D-18				
102-	Description:				
	Relocation of existing well, well piping modifications, well electrical improvements, perimeter fence replacement, rehabilitation of existing Electrical Room and Chlorinator Building and other related work				
BASE BI	D:	10,1000	1		
WELL EXP					
33 21 00 (a)	Mobilization and Demobilization	1	LS	10,701.64	10,701.64
33 21 00 (b)	GEPA Well Drilling Permit	1	LS	856.00	856.00
33 21 00 (c)	Site Access and Preparation	1	LS	2,562.00	2,562.00
33 21 00 (d)	12-inch Diameter Pilot Hole	352	LF	138.43	48,727.36
32 31 111 (41					
33 21 00 (e)	Pump, Motor and Accessories Set Up and Removal	1	LS	18,300.00	18,300.00
33 21 00 (f)	6-hour Step Drawdown + Recovery Tests	1	LS	6,100.00	6,100 00
33 21 00 (g)	24-hour Constant Rate Pump + Recovery Tests	1	LS	6,100.00	6,100.00
33.21.00 (h)	Complete Water Quality Analysis	1	LS	9,906.00	9,906.00
33 21 00 (1)	Complete Well Monitoring	1	LS	2,440.00	2,440 00
33 21 00 (j)	Temporary Well Protective Cover	1	LS	854.00	854.00
33 21 00 (k)	Pilot Hole Abandonment	1	LS	12,024.00	12,024 00
	Subtotal	- Well Ex	ploration		\$ 118,571.00
ADDETT	VE BID #3:	2015/050			
		Dr. Constitution			
	EQUIREMENTS	4	10	04 705 00	04 705 00
01 71 13	Mobilization and Demobilization	1	LS	91,795.00	91,795.00
C-2	Permits and Clearances	1	LS	6,019.00	6,019.00
01 50 00 (a)	Temporary Traffic Control Temporary Environmental Control	1	LS	1,357.00 1,782.00	1,357.00 1,782.00
01 50 00 (b)	Subtotal - Gen			1,702.00	\$ 100,953.00
	Subtotal - Get	erar requ	Hententa		100,533.00
DEMOLITIO	DN WORK				
02.41 (9 (a)	Decommissioning of Existing Well	1	LS	2,530.00	2,530.00
02 41 19 (b)	Removal of Existing Structures and Obstructions	1	LS	7,386.00	7,386.00
02 11 1 11	<u> </u>	- Demoliti		7,000.00	\$ 9,916.00
			1		
NEW WELL	CONSTRUCTION AND DEVELOPMENT	100			
33 21 00 (f)	Reaming to 24-inch	352	LF	248.99	87,644.48
33 21 00 (m)	16-inch Dia, HSLA Well Casing	292	LF	448.26	130,891.92
33 21 00 (n)	16-inch Dia, SS 304 Well screen	30	LF	644.13	19,323.90
33 21 00 (o)	16-inch Dia. SS 304 (shoe and casing above the screen)	30	LF	646.43	19,392.90
33 21 00 (p)	Gravel Pack and Sanitary Seal	1	LS	14,640.00	14,640.00
33 21 00 (q)	Well Development	1	LS	45,933.00	45,933.00
33 21 00 (r)	Permanent Pump, Motor and Accessories Supply & Installation	1	LS	70,076.00	70,076.00
33 21 00 (s)	72-hour Constant Rate Pump + Recovery Tests	1	LS	36,600.00	36,600.00
33 21 00 (t)	Complete Well Monitoring	1	LS	3,050.00	3,050.00
33 21 00 (u)	Complete Water Quality Analysis	1	LS	9,906.00	9,906.00
33 21 00 (u)	Video Log	1	LS	5,636.00	5,636.00
33 21 00 (v)	Disinfection	1	LS	4,880.00	4,880.00
33 21 00 (v)	GEPA Well Operation Permit	1	LS	1,281.00	1,281.00
33 21 00 (y)	Instruments/Testers (Specification Section 33 21 00- 2.6 A)	1	LS	6,576.00	6,576,00
		and Dam	Manment		\$ 455 924 20
	Subtotal - New Well Construction	and Devi	eropinient		\$ 455,831.20

Exhibit A (24 of 28)

GWA ISLAND-WIDE WELL SITE REHABILITAION PROJECT GWA PROJECT NO. W15-004-EPA

33 11 16 16 16 17 18 19 19 19 19 19 19 19	
1	
1 10 10 10 10 10 10 10	
2.31 13 (a) 6-foot High Chain Link Fence with 6-inch High CMU Wall 178	731.00
12 31 13 (c) 14-foot Wide Chain Link Vehicular Gate 2	12,404.82
1	4.710.00
NEW SITE WATER PIPING	1,071.00
NEW SITE WATER PIPING	4,602.00
33 11 16 16 16 17 18 18 19 19 19 19 19 19	23,518.82
33 11 16 16 16 16 17 17 18 19 19 19 19 19 19 19	
33 11 16 16 17 Diameter PVC Pipe 70	26,077.80
33 11 16 (d)	11,823,84
33 11 16 (g) Hose Bibb 1	3,880.10
Subtotal - New Site Water Piping S	8,822.00
Subtotal - New Site Water Piping S	61.00
ELECTRICAL WORK 26 05 00 (a) Site Electrical Demolition Work 1 LS 2,830 00 26 05 00 (b) Site Electrical Improvements 1 LS 4,032 00 26 05 00 (c) Rehabilitation of Existing Electrical Room 1 LS 2,249 00 25 36 13 Process Instrumentation 1 LS 37,177 00 40 94 43 Process Controller and Graphic Recorder 1 LS 21,984 00 Subtotal - Electrical Work \$ MECHANICAL WORK 23 31 16 Fiberglass Reinforced Plastic Duct 1 LS 1,718 00 25 34 00 Ventilation Fans 1 LS 2,433 00 26 28 21 Enclosed Circuit Breakers 1 LS 1,142 00	7,544.00
26 05 00 (a) Site Electrical Demolition Work 1	58,208.74
26 05 00 (b) Site Electrical Improvements 1 LS 4,032 00 26 05 00 (c) Rehabilitation of Existing Electrical Room 1 LS 2,249.00 25 36 13 Process Instrumentation 1 LS 37,177.00 40 94 43 Process Controller and Graphic Recorder 1 LS 21,984.00	
26 05 00 (b) Site Electrical Improvements 1	2.830.00
26 05 00 (c) Rehabilitation of Existing Electrical Room 1 LS 2,249.00 25 36 13 Process Instrumentation 1 LS 37,177.00 40 94 43 Process Controller and Graphic Recorder 1 LS 21,984.00 Subtotal - Electrical Work \$ MECHANICAL WORK 23 31 16 Fiberglass Reinforced Plastic Duct 1 LS 1,718.00 23 34 00 Ventilation Fans 1 LS 2,433.00 26 28 21 Enclosed Circuit Breakers 1 LS 1,142.00	4,032.00
### Process Controller and Graphic Recorder	2,249.00
Subtotal - Electrical Work S	37,177.00
MECHANICAL WORK 23 31 16 Fiberglass Reinforced Plastic Duct 1 LS 1,718 00	21,984.00
23 31 16 Fiberglass Reinforced Plastic Duct 1 LS 1,718.00 23 34 00 Ventilation Fans 1 LS 2,433.00 26 28 23 Enclosed Circuit Breakers 1 LS 1,142.00	68,272.00
23 34 00 Ventilation Fans 1 LS 2,433 00 26 28 28 Enclosed Circuit Breakers 1 LS 1,142 00	1,718.00
26 28 23 Enclosed Circuit Breakers 1 LS 1,142 00	2,433.00
	1,142.00
	5,293.00
CHLORINATION SYSTEM	· ··
43 32 76 (4) New Chlorination System 1 LS 30,232 00	30,232.00
43 32 76 (b) Rehabilitation of Existing Chlorinator Building 1 LS 5,297.24	5,297.24
43 32 76 (c) Sample Port 1 LS 3.787.00	3.787.00
22 45 33 Emergency Shower and Eye Wash 1 LS 3,799.00	3,799.00
10 44 16 Fire Extinguisher 1 LS 284.00	284.00
Subtotal - Chlorination System	43,399.24
TOTAL ADDITVE BID #3 \$	765,392.00
>>>>> TOTAL- Rehabilitation of Well D-18 \$	B83,963.00

Exhibit A (25 of 28) GWA ISLAND-WIDE WELL SITE REHABILITAION PROJECT GWA PROJECT NO. W15-004-EPA

		-			
Pay item	DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL
	Rehabilitation of Well D-22				
	Description:		1		
	Relocation of existing well, well piping modifications, well electrical improvements, perimeter fence replacement, rehabilitation of existing Electrical Room and Chlorinator Building and other related work				
BASE BI	D:				
WELL EXPL					
33 21 00 (a)	Mobilization and Demobilization	1	LS	12,165.00	12,165.00
33 21 00 (b)	GEPA Well Drilling Permit	1	LS	974.00	974.00
33 21 00 (c)	Site Access and Preparation	1	LS	2,562.00	2.562.00
33 21 00 (d)	12-inch Diameter Pilot Hole	450	LF	133.54	60,093.00
23.21 (11/14)	12-men Diameter Later Fore			100.04	00,000 00
33 21 00 (m)	Pump, Motor and Accessories Set Up and Removal	1	LS	18,300.00	18,300.00
33 21 00 (f)	6-hour Step Drawdown + Recovery Tests	1	LS	6,100.00	6,100.00
33 21 00 (g)	24-hour Constant Rate Pump + Recovery Tests	1	LS	6,100.00	6,100.00
33 21 00 (h)	Complete Water Quality Analysis	1	LS	9,906.00	9,906.00
33 21 00 (i)	Complete Well Monitoring	1	LS	2,440.00	2,440.00
33 21 00 (j)	Temporary Well Protective Cover	1	LS	854.00	854 00
33 21 00 (k)	Pilot Hole Abandonment	11	LS	15,372.00	15,372.00
	Subtotal	- Well Ex	ploration		\$ 134,866.00
		Name in Addition	Access to the last		
ADDITE	VE BID #4:		202		
GENERAL R	EQUIREMENTS				
01 71 13	Mobilization and Demobilization	1	LS	104,564.00	104,564.00
C-2	Permits and Clearances	1	LS	6,857.00	6,857.00
01 50 00 (a)	Temporary Traffic Control	1	LS	1,357.00	1,357.00
01 50 00 (6)	Temporary Environmental Control	1	LS	1,152.00	1,152.00
	Subtotal - Gen	eral Requ	irements		\$ 113,930.00
	L				
DEMOLITIC		100			
02 41 19 (a)	Decommissioning of Existing Well	1	LS	2,530.00	2,530.00
02 41 19 (b)	Removal of Existing Structures and Obstructions	1	LS	8,679.00	8,679.00
	Subtotal	- Demolití	on Work		\$ 11,209.00
NEW WELL	CONSTRUCTION AND DEVELOPMENT				CALL CONTROL OF THE SECOND SEC
33 21 00 (l)	Reaming to 24-inch	450	LF	245.36	110,412.00
33 21 00 (m)	16-inch Dia, HSLA Well Casing	330	LF	472.26	155,845.80
33 21 00 (n)	16-inch Dia. SS 304 Well screen	40	LF	644.15	25,766.00
33 21 00 (p)	16-inch Dia. SS 304 (shoe and casing above the	80	LF .	622.14	49,771.20
33 21 00 (p)	screen) Gravel Pack and Sanitary Seal	1	LS	15,860.00	15,860.00
		1	LS LS		45,933.00
33 21 00 (q) 33 21 00 (r)	Well Development Permanent Pump, Motor and Accessories Supply &	1	LS	45,933.00 68,548.00	68,548.00
	Installation				
33 21 00 (s)	72-hour Constant Rate Pump + Recovery Tests	1	LS	36,600.00	36,600.00
33 21 00 (t)	Complete Well Monitoring	1	LS	3,050.00	3,050.00
33 21 00 (u)	Complete Water Quality Analysis	1	LS	9,906.00	9,906.00
33 21 00 (v)	Video Log	1	LS	5,636.00	5,636.00
33 21 00 (w)	Disinfection	1	LS	4,880.00	4,880.00
33 21 00 (1)	GEPA Well Operation Permit	1	LS	1,153.00	1,153.00
33 21 00 (y)	Instruments/Testers (Specification Section 33 21 00-2.6 A)	1	LS	6,576.00	6,576.00
15	Subtotal - New Well Construction	and Deve	lopment		\$ 539,937.00

Exhibit A (26 of 28)

GWA ISLAND-WIDE WELL SITE REHABILITAION PROJECT GWA PROJECT NO. W15-004-EPA

Pay item	DESCRIPTION	QTY	UNIT	UNIT COST		TOTAL
SITEWORK					!	.
31 10 00	Site Clearing	1	LS	1,376.00		1,376.00
32 31 13 (4)	6-foot High Chain Link Fence with 6-inch High CMU Wall	306	LF	66 03		20,205.18
32 31 13 (c)	20-foot Wide Chain Link Vehicular Gate	1	EA	3,299.00		3,299.00
32 31 13 (d)	14-foot Wide Chain Link Pedestrian Gate	1	EA	2,322.00		2,322.00
1		Subtotal -	Sitework		\$	27,202.18
NEW SITE WA	TER PIPING	A Sandy	-			
33 11 16 (a)	24" Diameter PVC Pipe	70	LF	403.93		28,275.10
33 11 16 (b)	6" Diameter PVC Pipe	50	LF	258.96		12,948.00
33 11 16 (c)	2" Diameter PVC Pipe	10	LF	170.40		1,704.00
33 11 16 (d)	I" Diameter PVC Pipe	210	LF	42.31		8,885.10
33 11 16 (e)	3/4"" Diameter PVC Pipe	10	LF	53.00		530.00
33 11 16 (0)	Hose Bibb	1	LS	61.00		61.00
33 11 16 (g)	Chlorine Contact Utility Vault	1	LS	7,544.00		7,544.00
33 11 10 (g)	Subtotal - Ne			7,544.00	S	59,947.20
	Salustat . 146	m bue wan	er ruping		3	55,547.20
ELECTRICAL	WORK	TO LINE	Taja			
26 05 00 (a)	Site Electrical Demolition Work	1	LS	2,830.00		2,830.00
26 05 00 (b)	Site Electrical Improvements	1	LS	4,462.00		4,462.00
26 05 00 (c)	Rehabilitation of Existing Electrical Room	1	LS	2,249.00		2,249.00
25 36 13	Process Instrumentation	1	LS	37,177.00		37,177.00
40 94 43	Process Controller and Graphic Recorder	1	LS	21,984.00		21,984.00
	Subto	tal - Electri	cal Work		\$	68,702.00
MECHANICAL	work					
23 31 16	Fiberglass Reinforced Plastic Duct	1	LS	1,718.00		1,718.00
23 34 00	Ventilation Fans	1	LS	6,020.00		6,020.00
26 28 23	Enclosed Circuit Breakers	1	LS	2,284.00		2,284.00
	Subtotal	- Mechanie	cal Work		\$	10,022.00
CHLORINATIO	ON SYSTEM					
43 32 76 (a)	New Chlorination System	1	LS	30,232.00		30,232.00
43 32 76 (b)	Rehabilitation of Existing Chlorinator Building	1	LS	14,823.62		14,823.62
43 32 76 (c)	Sample Port	1	LS	3,787.00		3,787.00
22 45 33	Emergency Shower and Eye Wash	1	LS	3,799.00		3,799.00
10 44 16	Fire Extinguisher	1	Ea	284.00		284.00
		Chlorinatio	n System		\$	52,925.62
1	TOTA	L ADDITVE	BID #4		\$	883,875.00
>>>>>	TOTAL- Rehabilit	ation of W	ell D-22		\$	1,018,741.00
			<u> </u>			

Exhibit A (27 of 28)

GWA ISLAND-WIDE WELL SITE REHABILITAION PROJECT GWA PROJECT NO. W15-004-EPA

Pay item	DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL
	Rehabilitation of Well M-09		100000000000000000000000000000000000000		
	Description:				1-1 11
	Relocation of existing well, well piping modifications, well electrical improvements, perimeter fence replacement, rehabilitation of existing Electrical Room and Chlorinator Building and other related work				
BASE BI	De company de la	1000			
WELL EXPL	ORATION	Charles Co			
33 21 00 (a)	Mobilization and Demobilization	1	LS	12.703.44	12,703.44
33 21 00 (b)	GEPA Well Drilling Permit	1	LS	1,119.00	1,119.00
33 21 00 (c)	Site Access and Preparation	1	LS	2,562.00	2,562.00
33 21 00 (d)	12-inch Diameter Pilot Hole	476	LF	132.56	63,098,56
33 21 00 (e)	Pump, Motor and Accessories Set Up and Removal	1	LS	18,300.00	18,300.00
33 21 00 (D	6-hour Step Drawdown + Recovery Tests	1	LS	6,100.00	6,100.00
33 21 00 (g)	24-hour Constant Rate Pump + Recovery Tests	1	LS	6,100.00	6,100.00
33 21 00 (b)	Complete Water Quality Analysis	1	LS	9,906.00	9,906.00
33 21 00 (i)	Complete Well Monitoring	1	LS	2,257.00	2,257.00
33 21 00 (j)	Temporary Well Protective Cover	1	LS	2,440.00	2,440.00
33 21 00 (k)	Pilot Hole Abandonment	1	LS	16,260.00	16,260.00
	Subtotal	Well Ex	ploration	,	\$ 140,846.00
180					
ADDITE	VE BID #7:	100			
GENERAL R	EQUIREMENTS		44.4		-
01 71 13	Mobilization and Demobilization	1	LS	94,756.00	94,756 00
C-2	Permits and Clearances	1	LS	6,214.00	6,214.00
01 50 00 (a)	Temporary Traffic Control	1	LS	3,758.00	3,758 00
01 50 00 (b)	Temporary Environmental Control	1	LS	1,044.00	1,044 00
	Subtotal - Gen	eral Requ	irements		\$ 105,772.00
DEMOLITIO	N WORK				
02.41.19 (a)	Decommissioning of Existing Well	1	LS	2,530.00	2,530.00
02.41.19 (b)	Removal of Existing Structures and Obstructions	1	LS	8,679.00	8,679.00
	Subtotal	Demoliti	on Work		\$ 11,209.00
NEW WELL	CONSTRUCTION AND DEVELOPMENT				
33 21 00 (b)	Reaming to 24-inch	476	LF	241.68	115,039.68
33 21 00 (m)	16-inch Dia. HSLA Well Casing	427	LF	409.73	174,954.71
33 21 00 (n)	16-inch Dia, SS 304 Well screen	22	LF	802.27	17,649,94
33 21 00 (o)	16-inch Dia. SS 304 (shoe and casing above the screen)	27	LF	1,008.52	27,230.04
33 21 00 (p)	Gravel Pack and Sanitary Seal	1	LS	14,921.00	14,921.00
33-21-00 (q)	Well Development	1	LS	45,933.00	45,933.00
33 21 00 (r)	Permanent Pump, Motor and Accessories Supply & Installation	1	LS	69,390.00	69,390.00
33 21 00 (s)	72-hour Constant Rate Pump + Recovery Tests	1	LS	36,600.00	36,600 00
33 21 00 (t)	Complete Well Monitoring	1	LS	3,050.00	3,050 00
33 21 00 (u)	Complete Water Quality Analysis	1	LS	9,906.00	9,906.00
33 21 00 (v)	Video Log	1	LS	5,636.00	5,636.00
33 21 00 (w)	Disinfection	1	LS	4,880.00	4,880.00
33 21 00 (x)	GEPA Well Operation Permit	1	LS	1,243.00	1,243 00
35 21 00 (1)			. 1		1
33 21 00 (y)	Instruments/Testers (Specification Section 33 21 00- 2.6 A)	1	LS	6,576.00	6,576.00

Exhibit A (28 of 28)

GWA ISLAND-WIDE WELL SITE REHABILITAION PROJECT GWA PROJECT NO. W15-004-EPA

					,	
Pay Item	DESCRIPTION	QTY	UNIT	UNIT COST		TOTAL
SITEWORK						
31 10 00	Site Clearing	1	LS	992.00		992.00
32 31 13 (a)	6-foot High Chain Link Fence with 6-inch High CMU Wall	222	LF	67.18		14,913,96
32 31 13 (c)	14-foot Wide Chain Link Vehicular Gate	2	EA	2,088.50		4,177.00
		Subtotal -	Sitework		\$	20,082.96
NEW SITE WA	TER PIPING	1				
33 11 16 (a)	24" Diameter PVC Pipe	60	LF	408.45		24,507.00
33 11 16 (b)	6" Diameter PVC Pipe	50	LF	271.14		13,557.00
33 11 16 (c)	2" Diameter PVC Pipe	60	LF	59.85		3,591.00
33 tl 16 (d)	1" Diameter PVC Pipe	80	LF	51.33		4,106.40
33 11 16 (c)	3/4"" Diameter PVC Pipe	20	LF	52.95		1,059.00
33 1L 16 (f)	Hose Bibb	1	LS	61.00		61.00
33 11 16 (g)	Chlorine Contact Utility Vault	1	LS	7,544.00		7,544.00
	Subtotal - Ne	w Site Wat	er Piping		\$	54,425.40
ELECTRICAL	WORK	1 6	b and			
26 05 00 (a)	Site Electrical Demolition Work	1	LS	2,830.00		2,830.00
26 05 00 (b)	Site Electrical Improvements	1	LS	5,753.00		5,753.00
26 05 00 (c)	Rehabilitation of Existing Electrical Room	1	LS	2,249.00		2,249.00
25 36 13	Process Instrumentation	1	LS	37,177.00		37,177.00
40 94 43	Process Controller and Graphic Recorder	1	LS	21,984.00		21,984 00
		tal - Electri		\$ 1,00 T.00	s	69,993.00
					1	
MECHANICAL	WORK					
23 31 16	Fiberglass Reinforced Plastic Duct	1	LS	1,718.00		1,718.00
23 34 00	Ventilation Fans	1	LS	2,433.00		2,433.00
26 28 23	Enclosed Circuit Breakers	1	LS	1,142.00		1,142.00
	Subtotal	l - Mechani	cal Work		\$	5,293.00
CHLORINATIO						
43 32 76 (a)	New Chlorination System	1	LS	30,232.00		30,232.00
43 32 76 (b)	Rehabilitation of Existing Chlorinator Building	1	LS	4,676.27		4,676.27
43 32 76 (c)	Sample Port	1	LS	3,787.00		3,787.00
22 45 33	Emergency Shower and Eye Wash	1	LS	3,799.00		3,799.00
10 44 16	Fire Extinguisher	1	EA	284.00		284.00
1	Subtotal - (Chlorinatio	n System		5	42,778.27
	TOTA	L ADDITVE	BID #7	<u>-</u>	\$	842,563,00
>>>>>	TOTAL- Rehabilita	tion of W	eli M-09		\$	983,409,00
	TOTAL REHABING	1				303,403,00
	Base Bid (1+2+3+4+7) Grand Total				s	638,597.00
	Additives (1+2+3+4+7) Grand Total	-			\$	4,051,291.00
	GRAND TOTAL	L			\$	4,689,888.00
-						
-		+				