



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

RESOLUTION NO. 48-FY2017

**RELATIVE TO INCREASE FUNDING FOR THE AGAT SANTA RITA
WASTEWATER TREATMENT PLANT UPGRADES CONSTRUCTION
MANAGEMENT CONTRACT**

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

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

WHEREAS, GWA currently has a number of critical Court Order (“CO”) projects including work required at the Agat Santa Rita Wastewater Treatment Plant that is necessary for the plant to achieve compliance with the WWTP’s NDPEs permit, eliminate by-passes at the plant, ensure that solids generated by the WWTP are adequately stabilized and dewatered, and to comply with sludge and biosolids requirements 40 C.F.R. Part 503 as stated in Paragraph 11 of the 2011 Court Order; and

WHEREAS, GWA executed contracts with Sumitomo Mitsui Construction Company (SMCC) to construct the new WWTP and GHD, Inc. to provide construction management services as a means work towards achieving the Court Order requirements; and

WHEREAS, the GWA executed a Change Order to the SMCC contract that extended the phase II construction completion deadline to December 2017 due to SMCC claims related to permitting and rain delays; and

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1 **WHEREAS**, the original scope and fee for the construction management services
2 estimated an eighteen-month construction period for vertical construction activities that SMCC
3 was contracted to do which resulted in the CM services ending sometime in June 2017; and
4

5 **WHEREAS**, GWA had negotiated with GHD continued CM services that equated to the
6 ten percent contingency funding that was original authorized by the CCU via Resolution 36-
7 FY2015 after which GWA executed Change Order No. 1 that extended the CM services an
8 additional two months, or until August 2017 (SEE EXHIBIT A); and
9

10 **WHEREAS**, GWA requires that the construction manager be on-board the duration of
11 the construction activities and as such negotiated with GHD for additional CM services that will
12 cover up until the current construction completion of December 2017 in the amount of Five
13 Hundred Eighty One Thousand Four Hundred Thirty One Dollars (\$581,431.00) which would be
14 effectuated via a Change Order No. 2 (SEE EXHIBIT B); and
15

16 **WHEREAS**, the GWA project management and construction management team are in
17 currently discussion with SMCC regarding additional claims of delay due to weather and work
18 force shortages as a result of the H2-B visa program for which there is a potential of GWA
19 approving the extension of the construction completion period for SMCC an additional one to
20 three months; and
21

22 **WHEREAS**, as a means of allowing for continuity of construction management services
23 as it relates to any construction extension, GHD has provided to GWA a fee proposal for CM
24 services related to the potential extension of SMCC completion period an additional three
25 months in the amount of Four Hundred Thirty Two Thousand Nine Hundred Eighty One Dollars
26 (\$432,981.00); and
27

28 **WHEREAS**, GWA management seeks CCU approval of additional funding to executed
29 Change Order No. 2 in the amount of Five Hundred Eighty One Thousand Four Hundred Thirty
30 One Dollars (\$581,431.00) for the current contract performance period, plus up to Four Hundred
31 Thirty Two Thousand Nine Hundred Eighty One Dollars (\$432,981.00) for CM services only to
32 be used should there be an additional extension to the SMCC contract completion period for a

1 total funding increase of One Million Fourteen Thousand Four Hundred Twelve Dollars
2 (\$1,014,412.00); and

3
4 **WHEREAS**, funding for this project will be from the bond funds under the line item -
5 WW 11-08 "Agat/ Sta Rita STP Replacement"; and

6
7 **NOW BE IT THEREFORE RESOLVED**, the Consolidated Commission on Utilities
8 does hereby approve the following:

- 9
10 1. The recitals set forth above hereby constitute the findings of the CCU.
11 2. The CCU finds that the terms of the fee proposal submitted by GHD are fair
12 and reasonable.
13 3. The CCU finds that the terms of the conditions set by GWA relative to
14 commencement of subsequent work activities are fair and reasonable and
15 serve as a measure of Quality Assurance/Quality Control (QA/QC).
16 4. The CCU hereby approves the funding increase of Five Hundred Eighty One
17 Thousand Four Hundred Thirty One Dollars (\$581,431.00) (EXHIBIT B)
18 which would be effectuated via a Change Order No. 2 to cover the current
19 contract performance period, plus, up to Four Hundred Thirty Two Thousand
20 Nine Hundred Eighty One Dollars (\$432,981.00) to cover additional CM
21 services only should there be an extension to the SMCC contract completion
22 period for a total funding increase of One Million Fourteen Thousand Four
23 Hundred Twelve Dollars (\$1,014,412.00).
24 5. The source of funding for the additional CM services will be from the bond
25 funds under the line item - WW 11-08 "Agat/ Sta Rita STP Replacement".

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


29 //

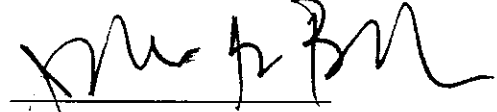
30
31 //
32

1 **DULY AND REGULARLY ADOPTED**, this 25th day of July 2017.

2
3 Certified by:

Attested by:

4 
5 _____
6 **JOSEPH T. DUENAS**
7 Chairperson



8 **J. GEORGE BAMBA**
9 Secretary

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

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

16 AYES:	<u>5</u>
17 NAYS:	<u>0</u>
18 ABSTENTIONS:	<u>0</u>
19 ABSENT:	<u>0</u>

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21 ///

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24 ///

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RECEIVED

GUAM WATERWORKS AUTHORITY

CHANGE ORDER NO. 01

2017 JUN -8 PM 3: 57

Project Title: Agat-Santa Rita Wastewater Treatment Plant Construction Management
 Project No.: S14-002-BND
 Contractor: GHD, Inc.

Contract Date: 9/8/2015
 Notice to Proceed: 9/8/2015

TO: GHD, Inc.

You are directed to make changes noted below in the subject contract. The changes are accepted by:

Paul K. Baron
 GHD Representative (PRINT)

PREPARED BY: Rydia Carino 6/1/17
 Rydia Carino
 Project Engineer
 Date

Paul K. Baron
 GHD Representative (SIGNATURE) _____
 Date

John Davis 6/1/17
 John Davis, P.E.
 Senior Engineering Supervisor
 Date

RECOMMEND APPROVAL: Thomas Cruz 6/1/17
 Thomas Cruz, P.E.
 Chief Engineer
 Date

NATURE OF CHANGES:

This construction management (CM) contract includes the management of both the Phase 1 (site clearing and grading) and Phase 2 (plant construction) construction contracts for the new Agat-Santa Rita Wastewater Treatment Plant. At the time this CM contract was awarded (September 2015 - prior to the bidding of the construction contract) it was estimated that the plant construction phase would be completed by June, 2017. The CM contract thus has a completion date of June 8, 2017. However, plant construction is now estimated to be completed by December 24, 2017. This Change Order No. 01 will provide for continued CM services from June 9, 2017 through August 14, 2017, per the attached letter and fee scheduled from the Consultant. Funding is approved through the contingency amount authorized by CCU resolution 36-FY2015.

The changes result in the following adjustment of contract price and time:

Contract price prior to this Change Order	\$	2,989,668.00
Net INCREASE from this Change Order (subject to approved terms and conditions)	\$	296,901.00
Revised contract price including this Change Order	\$	3,286,569.00

Contract Completion Date prior to this Change Order	8-Jun-17
Net EXTENSION from this Change Order (subject to approved terms and conditions)	67 Calendar Days
Revised Contract Completion Date based on this Change Order	14-Aug-17

CERTIFIED FUNDS AVAILABLE:

Vendor No.: 23366
 Contract No.: S230/737 OM
 Funding Source: 2010 & 2013 Bond
 CIP#: WW 11-08
 G.L. No.: S230.105321.520000
 Amount: \$ 296,901.00

APPROVALS

Greg P. Cruz 6/8/17
 Greg P. Cruz
 Certifying Officer, GWA
 Date

Thomas Cruz 6/8/17
 For Miguel C. Bordallo, P.E.
 General Manager, GWA
 Date

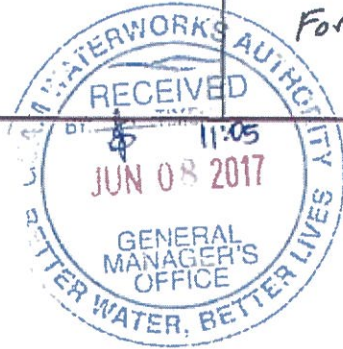


Exhibit A (2 of 4)



Date: May 25, 2017 **(Amended)**
May 24, 2017 **(Amended)**
May 23, 2017 **(Amended)**
March 24, 2017

Reference No.: GHD/GWA – LTR-02

To: Mr. John Davis, P.E., Project Manager
Guam Waterworks Authority
Gloria B. Nelson Public Utilities Complex
Route 15, Mangilao, Guam

Project: Agat-Santa Rita WWTP Replacement Project - Phase II
Project No. S14-002-BND

Subject: MOD 001, 002, & 003 – Additional Construction Management Services Scope of Work and Fee Proposal - REVISED

Dear Mr. Davis:

In reply to your recent email request, we are pleased to submit this revised proposal for additional CM support services as described below.

SCOPE OF WORK:

As you know, the Phase I and II construction have been subject to adverse weather conditions that have caused an extension of the construction duration and impacting our performance period as well. The WWTP Replacement project overall completion date has been extended from November 01, 2017 to December 24, 2017 via SMCC Change Order #04, with an anticipated completion date of March 31, 2018. The 03/31 completion date is based on the Contractors updated progress schedules as well as GHD's observation of the progress. These impacts will extend our construction management services by approximately ten (10) months or 294 calendar days.

Based on our discussions with GWA, we have provided the cost proposal as three (3) separate modifications to allow for review and acceptance of each independently based on our understanding of the current funding constraints.

- **MOD 01** has been revised to provide CM services for the period of June 09, 2017 through August 14, 2017 (70 calendar days) to capture the available contingency provided via Guam Consolidated Commission on Utilities (CCU) Resolution No. 36-FY2015. Modification 01 is a portion of the funding required to bring our services in line with the current contract completion date of December 24, 2017. The balance will be provided via MOD 02 below.
- **MOD 02** has been revised to provide additional CM services for the period of August 15, 2017 through December 24, 2017 (128 calendar days) and to bring our services in line

Exhibit A (3 of 4)

website. This camera is located on the roof of the Existing Tipalao Pump Station. The total cost including software support and shipping was \$39,721.

- e. We maintained the same hourly rates from our original fee proposal despite increases in the direct rates for most of our staff.

The following tables show the summary of hours and cost for **MOD 001, MOD 002, and MOD 003** and the totals for all three (3).

TABLE 1. SUMMARY OF MOD 001 COSTS (June 09, 2017 through August 14, 2017)

Description/Labor Class	Labor Hours	Estimated Labor Cost	Estimated Expense Cost	GRT	Total Cost 06/09/17 to 11/01/17
Project Manager	384	\$71,808	\$2,304	\$3,088.25	\$77,200
Special Inspector	96	\$20,640	\$576	\$884.07	\$22,100
Civil Inspector	384	\$44,160	\$2,304	\$1,936.15	\$48,400
Assistant PM	384	\$44,160	\$2,304	\$1,936.15	\$48,400
Special Inspector	384	\$46,080	\$2,304	\$2,016.16	\$50,400
Submittal/ RFI Manager	384	\$46,080	\$2,304	\$2,016.16	\$50,400
Total	2016	\$272,928	\$12,096	\$11,877	\$296,901

TABLE 2. SUMMARY OF MOD 002 COSTS (August 15, 2017 through December 24, 2017)

Description/Labor Class	Labor Hours	Estimated Labor Cost	Estimated Expense Cost	GRT	Total Cost 11/02/17 to 03/31/18
Project Manager	752	\$140,624	\$4,512	\$6,047.82	\$151,184
Special Inspector	188	\$40,420	\$1,128	\$1,731.31	\$43,279
Civil Inspector	752	\$86,480	\$4,512	\$3,791.64	\$94,784
Assistant PM	752	\$86,480	\$4,512	\$3,791.64	\$94,784
Special Inspector	752	\$90,240	\$4,512	\$3,948.32	\$98,700
Submittal/ RFI Manager	752	\$90,240	\$4,512	\$3,948.32	\$98,700
Total	3948	\$534,484	\$23,688	\$23,259	\$581,431

NOT INCLUDED IN CHANGE ORDER NO. 1

Agat-Santa Rita Waste Water Treatment Plant Repalcemeny Project - Phase II
 MOD 001 - Additional CM Services
 (June 09, 2017 through August 14, 2017)

Prepared on May 25, 2017

Description/Labor Class	Working Days Per Month		Rate	Jun-17		Jul-17		Aug-17		Total
	17	17		21	10	10	10			
Bryan Ryley (FTE)	136	136		168	80	80				384
Projected Manager	\$25,432	\$187.00	\$31,416	\$42	\$14,960	\$20	\$4,300	\$20,640	\$71,808	
Jeff Groom (Part Time)	34									96
Special Inspector	\$7,310	\$215.00	\$9,030							
Peter Gervacio (FTE)	136			168	80	80				384
Civil Inspector	\$15,640	\$115.00	\$19,320		\$9,200				\$44,160	
Steven Carbullido (FTE)	136			168	80	80				384
Assistant PM	\$15,640	\$115.00	\$19,320		\$9,200				\$44,160	
Rodolfo Mlaco (FTE)	136			168	80	80				384
Special Inspector	\$16,320	\$120.00	\$20,160		\$9,600				\$46,080	
Heidi Cervania (FTE)	136			168	80	80				384
Submittal/ RFI Manager	\$16,320	\$95.00	\$20,160		\$9,600				\$46,080	

TOTAL (hr) 714 882 420 2016
 TOTAL GHD LABOR ESTIMATE \$ 96,662 \$ 119,406 \$ 56,860 \$ 272,928



Exhibit B (1 of 8)

Date: May 25, 2017 **(Amended)**
May 24, 2017 **(Amended)**
May 23, 2017 **(Amended)**
March 24, 2017

Reference No.: GHD/GWA – LTR-02

To: Mr. John Davis, P.E., Project Manager
Guam Waterworks Authority
Gloria B. Nelson Public Utilities Complex
Route 15, Mangilao, Guam

Project: Agat-Santa Rita WWTP Replacement Project - Phase II
Project No. S14-002-BND

Subject: MOD 001, 002, & 003 – Additional Construction Management Services Scope of Work and Fee Proposal - REVISED

Dear Mr. Davis:

In reply to your recent email request, we are pleased to submit this revised proposal for additional CM support services as described below.

SCOPE OF WORK:

As you know, the Phase I and II construction have been subject to adverse weather conditions that have caused an extension of the construction duration and impacting our performance period as well. The WWTP Replacement project overall completion date has been extended from November 01, 2017 to December 24, 2017 via SMCC Change Order #04, with an anticipated completion date of March 31, 2018. The 03/31 completion date is based on the Contractors updated progress schedules as well as GHD's observation of the progress. These impacts will extend our construction management services by approximately ten (10) months or 294 calendar days.

Based on our discussions with GWA, we have provided the cost proposal as three (3) separate modifications to allow for review and acceptance of each independently based on our understanding of the current funding constraints.

- **MOD 01** has been revised to provide CM services for the period of June 09, 2017 through August 14, 2017 (70 calendar days) to capture the available contingency provided via Guam Consolidated Commission on Utilities (CCU) Resolution No. 36-FY2015. Modification 01 is a portion of the funding required to bring our services in line with the current contract completion date of December 24, 2017. The balance will be provided via MOD 02 below.
- **MOD 02** has been revised to provide additional CM services for the period of August 15, 2017 through December 24, 2017 (128 calendar days) and to bring our services in line

Exhibit B (2 of 8)

with the current contract completion date of December 24, 2017 granted via SMCC Change Order #04.

- **MOD 03** has been prepared to provide additional CM services from December 25, 2017 to March 31, 2018 (96 calendar days). These services are required to correspond with the WWTP's projected contract completion date of March 31, 2018. GWA can elect to defer this amendment (MOD 02) until the required time extension can be better defined or negotiated with the Contractor but at a minimum we wanted to provide GWA with an estimate for the additional work as best as we can currently determine.

CLARIFICATIONS AND ASSUMPTIONS:

1. The CM's additional onsite presence shall consist of the following: one (1) full time Project Manager, one (1) full time Assistant PM, one (1) full time civil/general inspector, one full time Special Inspector, one (1) part-time Structural Special Inspector (assumed 25%), and one (1) full time RFI/Submittal Manager. No time has been provided for the Principal or any other staff position although they will be participating as needed on the project.
2. The total duration for additional CM Services for the Modifications (MOD 01, MOD 02, and MOD 03) shall be for 294 concurrent calendar days (June 9, 2017 through March 31, 2018).
3. No additional budget has been provided for QA Compaction Testing, QA Concrete Strength Testing, QA Material Testing and QA Survey Verification as the scope for these services is anticipated to remain unchanged. If additional QA services are required it will be brought to GWA's attention and negotiated.
4. We would like to point out the additional services and expense effort that was absorbed by GHD and provided to GWA at no additional cost.
 - a. No expense budget for QA Compaction Testing, Concrete Strength Testing, Material Testing and Survey Verification were provided for in the Clearing and Grading CM contract. This totalled \$16,238.00.
 - b. The Clearing and Grading Contractor (C&G) completion date extended twice. Once from February 29, 2016 to March 25, 2016 and a second time to April 28, 2016. This increased the C&G contract duration by 59 days. GHD did not issue a change proposal for extended services and absorbed approximately \$98,000 of the additional effort. This was further complicated when the C&G contractor did not complete their punch list work and demobilized equipment and materials from the site until the end of June, 2016.
 - c. In order to help facilitate the WWTP Contractor's completion of the Phase I works, GHD staff worked on numerous weekends to perform special inspections, formwork inspections, coating inspections, concrete pour inspections, and leak test witnessing.
 - d. We added a robotic mobile construction site camera and trailer with solar power, global modem, software support, archiving services and remote access via

Exhibit B (3 of 8)

website. This camera is located on the roof of the Existing Tupalao Pump Station. The total cost including software support and shipping was \$39,721.

- e. We maintained the same hourly rates from our original fee proposal despite increases in the direct rates for most of our staff.

The following tables show the summary of hours and cost for **MOD 001, MOD 002, and MOD 003** and the totals for all three (3).

TABLE 1. SUMMARY OF MOD 001 COSTS (June 09, 2017 through August 14, 2017)

Description/Labor Class	Labor Hours	Estimated Labor Cost	Estimated Expense Cost	GRT	Total Cost 06/09/17 to 11/01/17
Project Manager	384	\$71,808	\$2,304	\$3,088.25	\$77,200
Special Inspector	96	\$20,640	\$576	\$884.07	\$22,100
Civil Inspector	384	\$44,160	\$2,304	\$1,936.15	\$48,400
Assistant PM	384	\$44,160	\$2,304	\$1,936.15	\$48,400
Special Inspector	384	\$46,080	\$2,304	\$2,016.16	\$50,400
Submittal/ RFI Manager	384	\$46,080	\$2,304	\$2,016.16	\$50,400
Total	2016	\$272,928	\$12,096	\$11,877	\$296,901

TABLE 2. SUMMARY OF MOD 002 COSTS (August 15, 2017 through December 24, 2017)

Description/Labor Class	Labor Hours	Estimated Labor Cost	Estimated Expense Cost	GRT	Total Cost 11/02/17 to 03/31/18
Project Manager	752	\$140,624	\$4,512	\$6,047.82	\$151,184
Special Inspector	188	\$40,420	\$1,128	\$1,731.31	\$43,279
Civil Inspector	752	\$86,480	\$4,512	\$3,791.64	\$94,784
Assistant PM	752	\$86,480	\$4,512	\$3,791.64	\$94,784
Special Inspector	752	\$90,240	\$4,512	\$3,948.32	\$98,700
Submittal/ RFI Manager	752	\$90,240	\$4,512	\$3,948.32	\$98,700
Total	3948	\$534,484	\$23,688	\$23,259	\$581,431

Exhibit B (4 of 8)

TABLE 3. SUMMARY OF MOD 003 COSTS (December 25, 2017 through March 31, 2018)

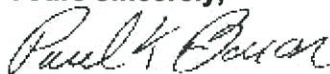
Description/Labor Class	Labor Hours	Estimated Labor Cost	Estimated Expense Cost	GRT	Total Cost 11/02/17 to 03/31/18
Project Manager	560	\$104,720	\$3,360	\$4,503.69	\$112,584
Special Inspector	140	\$30,100	\$840	\$1,289.27	\$32,229
Civil Inspector	560	\$64,400	\$3,360	\$2,823.56	\$70,584
Assistant PM	560	\$64,400	\$3,360	\$2,823.56	\$70,584
Special Inspector	560	\$67,200	\$3,360	\$2,940.24	\$73,500
Submittal/ RFI Manager	560	\$67,200	\$3,360	\$2,940.24	\$73,500
Total	2940	\$398,020	\$17,640	\$17,321	\$432,981

TABLE 4. SUMMARY OF MOD 001, MOD 002, & MOD 003 TOTAL COSTS

Description/Labor Class	Labor Hours	Estimated Labor Cost	Estimated Expense Cost	GRT	Total Cost MOD 01 & 02
Project Manager	1696	\$317,152	\$10,176	\$13,639.76	\$340,968
Special Inspector	424	\$91,160	\$2,544	\$3,904.65	\$97,609
Civil Inspector	1696	\$195,040	\$10,176	\$8,551.35	\$213,767
Assistant PM	1696	\$195,040	\$10,176	\$8,551.35	\$213,767
Special Inspector	1696	\$203,520	\$10,176	\$8,904.71	\$222,601
Submittal/ RFI Manager	1696	\$203,520	\$10,176	\$8,904.71	\$222,601
	8904	\$1,205,432	\$53,424	\$52,457	\$1,311,313

We look forward to your favorable and expeditious response to this proposal. If you have any questions or concerns please do not hesitate to contact me directly.

Yours sincerely,



Paul K. Baron
Principal

Attachments: Detailed Spread Sheet Fee Proposal with GHD Rates

Exhibit B (5 of 8)

EXHIBIT A: FEE PROPOSAL DETAILED SPREAD SHEET

Exhibit B (6 of 8)

Agat-Santa Rita Waste Water Treatment Plant Repalcemeny Project - Phase II MOD 001 - Additional CM Services (June 09, 2017 through August 14, 2017)

Prepared on May 25, 2017

Description/Labor Class	Working Days Per Month				Rate	Total
	Jun-17	Jul-17	Aug-17	Total		
Bryan Ryley (FTE)	136	168	80	384		
Projected Manager	\$25,432	\$31,416	\$14,960	\$71,808		
Jeff Groom (Part Time)	34	42	20	96		
Special Inspector	\$7,310	\$9,030	\$4,300	\$20,640		
Peter Gervacio (FTE)	136	168	80	384		
Civil Inspector	\$15,640	\$19,320	\$9,200	\$44,160		
Steven Carbullido (FTE)	136	168	80	384		
Assistant PM	\$15,640	\$19,320	\$9,200	\$44,160		
Rodolfo Miaco (FTE)	136	168	80	384		
Special Inspector	\$16,320	\$20,160	\$9,600	\$46,080		
Heidi Cervania (FTE)	136	168	80	384		
Submittal/ RFI Manager	\$16,320	\$20,160	\$9,600	\$46,080		

TOTAL (hr) 714 882 420 2016
 TOTAL GHD LABOR ESTIMATE \$ 96,662 \$ 119,406 \$ 56,860 \$ 272,928

Exhibit B (7 of 8)

Agat-Santa Rita Waste Water Treatment Plant Repalcemeny Project - Phase II MOD 002 - Additional CM Services (August 15, 2017 through December 24, 2018)

Prepared on May 25, 2017

Working Days Per Month		Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Total
Description/Labor Class	Rate	13	21	22	22	16	78
Bryan Ryley (FTE)		104	168	176	176	128	752
Projected Manager	\$187.00	\$19,448	\$31,416	\$32,912	\$32,912	\$23,936	\$140,624
Jeff Groom (Part Time)		26	42	44	44	32	188
Special Inspector	\$215.00	\$5,590	\$9,030	\$9,460	\$9,460	\$6,880	\$40,420
Peter Gervacio (FTE)		104	168	176	176	128	752
Civil Inspector	\$115.00	\$11,960	\$19,320	\$20,240	\$20,240	\$14,720	\$86,480
Steven Carbullido (FTE)		104	168	176	176	128	752
Assistant PM	\$115.00	\$11,960	\$19,320	\$20,240	\$20,240	\$14,720	\$86,480
Rodolfo Miaco (FTE)		104	168	176	176	128	752
Special Inspector	\$120.00	\$12,480	\$20,160	\$21,120	\$21,120	\$15,360	\$90,240
Heidi Cervania (FTE)		104	168	176	176	128	752
Submittal/ RFI Manager	\$95.00	\$12,480	\$20,160	\$21,120	\$21,120	\$15,360	\$90,240

TOTAL (hr) 546 882 924 924 924 672 3948
 TOTAL GHD LABOR ESTIMATE \$ 73,918 \$ 119,406 \$ 125,092 \$ 125,092 \$ 90,976 \$534,484

Exhibit B (8 of 8)

Agat-Santa Rita Waste Water Treatment Plant Repalcemeny Project - Phase II MOD 003 - Additional CM Services (December 25, 2017 through March 31, 2018)

Prepared on March 20, 2017

Description/Labor Class	Rate	Working Days Per Month				Total
		Dec-17	Jan-18	Feb-18	Mar-18	
		5	23	20	22	70
Bryan Ryley (FTE)		40	184	160	176	560
Projected Manager	\$187.00	\$7,480	\$34,408	\$29,920	\$32,912	\$104,720
Jeff Groom (Part Time)		10	46	40	44	140
Special Inspector	\$215.00	\$2,150	\$9,890	\$8,600	\$9,460	\$30,100
Peter Gervacio (FTE)		40	184	160	176	560
Civil Inspector	\$115.00	\$4,600	\$21,160	\$18,400	\$20,240	\$64,400
Steven Carbullido (FTE)		40	184	160	176	560
Assistant PM	\$115.00	\$4,600	\$21,160	\$18,400	\$20,240	\$64,400
Rodolfo Miaco (FTE)		40	184	160	176	560
Special Inspector	\$120.00	\$4,800	\$22,080	\$19,200	\$21,120	\$67,200
Heidi Cervania (FTE)		40	184	160	176	560
Submittal/ RFI Manager	\$95.00	\$4,800	\$22,080	\$19,200	\$21,120	\$67,200

TOTAL (hr) 210 966 840 924 2940
 TOTAL GHD LABOR ESTIMATE \$ 28,430 \$ 130,778 \$ 113,720 \$ 125,092 \$398,020