

## CONSOLIDATED COMMISSION ON UTILITIES

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

## **RESOLUTION NO. 07-FY2019**

## RELATIVE TO APPROVAL OF CHANGE ORDER TO THE CONSTRUCTION MANAGEMENT CONTRACT FOR THE AGAT SANTA RITA WASTEWATER TREATMENT PLANT UPGRADES

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 (WWTP) that is necessary for the plant to achieve compliance with the WWTP's NDPES permit, eliminate bypasses 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 a contract with Sumitomo Mitsui Construction Company (SMCC) to construct the new WWTP by November 1, 2017, and

WHEREAS, GWA executed a contract with GHD, Inc. to provide construction management services as a means towards achieving the Court Order requirements; and

WHEREAS, the original scope and fee for the construction management services estimated an eighteen-month construction period for vertical construction activities that SMCC was contracted to do which resulted in the CM services ending June 8, 2017; and

 WHEREAS, CCU Resolution No. 48-2017 authorized the continuation of CM services from August 15, 2017 through March 31, 2018, after which GWA executed Change Orders 2 and 3 in the total amount of One Million Fourteen Thousand Four Hundred Twelve Dollars (\$1,014,412.00); and

WHEREAS, CCU Resolution No. 17-FY2018 authorized the continuation of CM services from April 1, 2018 through August 31, 2018, after which GWA executed Change Orders 4, 5 and 6 in the total amount of Eight Hundred Twenty Thousand Three Hundred Thirty-Two Dollars (\$822,632.00);

WHEREAS, the project Contractor, SMCC, has submitted documentation to GWA management (See Exhibits A and B) wherein they now project the completion of all construction activities will not occur until March 2019 and the reason for this delay is due to additional claims of adverse weather stopping work progress, work force shortages as a result of the H2-B visa program denying work permit renewals and additional work resulting in approved Change Orders; and

WHEREAS, GWA management has reviewed SMCC's delay claims and transmitted a respond letter dated October 29, 2018 (See Exhibit C) in which GWA considered all aspects of SMCC claims and is willing to provide a contract extension but only to August 2018 given that GWA, over the construction period, approved financial measures to SMCC that would have allowed work and schedule to be accelerated thus maintaining a reasoned expectation of the project being completed as planned; and,

WHEREAS, notwithstanding the issues surrounding the contractor delays and a means of allowing for continuity of construction management services as it relates to any construction extension due to contractor issues, GWA requested GHD submit a fee proposal to continue construction management service for which GHD has provided to GWA a Nine Hundred Seventy-Seven Thousand One Hundred Ninety-Seven Dollars (\$977,197.00) fee proposal through April 2019 (See Exhibit D); and

WHEREAS, GWA management will be negotiating down the fee proposal submitted by GHD given the level of staffing and construction activities will ramp down towards the end of the construction period but until final negotiated fees are reached GWA management still seeks CCU approval of additional funding to execute Change Order(s) to a not to exceed the amount of Nine Hundred Seventy-Seven Thousand One Hundred Ninety-Seven Dollars (\$977,197.00) for the extended contract performance period because the timing of any change order approval may not coincide with scheduled CCU meetings; and

WHEREAS, the authorization of the requested funding increase to the Construction Management contract would potentially bring the total value to a not to exceed amount of Six Million One Hundred Thousand Eight Hundred Ten Dollars and Zero Cents (\$6,100,810.00); and

WHEREAS, funding for any Change Order to GHD moving forward will be from any available bond funds under the line item - WW 11-08 "Agat/ Santa Rita STP Replacement", System Development Charge funds and Internally Funded CIP funds as well as Liquidated Damages of \$5,000 per day from the contractor beginning September 1, 2018; and

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

- 1. The recitals set forth above hereby constitute the findings of the CCU.
- 2. The CCU hereby approves the funding increase for construction management services to an amount not to exceed Nine Hundred Seventy-Seven Thousand One Hundred Ninety-Seven Dollars (\$977,197.00) (Exhibit D).
- 3. The CCU further approves the total contract value for GHD is an amount not to exceed Six Million One Hundred Thousand Eight Hundred Ten Dollars (\$6,100,810.00).
- 4. The source of funding for any Change Order to GHD moving forward will be from any available bond funds under the line item - WW 11-08 "Agat/ Santa Rita STP Replacement", System Development Charge funds and Internally

Funded CIP funds as well as Liquidated Damages of \$5,000 per day from the contractor beginning September 1, 2018.

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

**DULY AND REGULARLY ADOPTED**, this 27<sup>th</sup> day of November 2018.

Certified by:

JOSEPH T. DUENAS

Chairperson

Attested by:

J. GEORGE BAMBA

## SECRETARY'S CERTIFICATE

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:

NAYS: \_\_\_\_\_

ABSTENTIONS:

ABSENT:

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31 | | ///



## EXHIBIT A



GUAM OFFICE: P.O.Box9670 Tamuning, Guam96931, Phone: ++1-671-649-7521 - 24 Fax: ++1-671-649-7550

May 16, 2018

Reference No.: LT-18-020

TO: Mr. John McArthur Davis, P.E.

GWA Project Manager

GUAM WATERWORKS AUTHORITY

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

Thru: Mr. Bryan J. Ryley

Construction Manager

GHD, Inc.

865 South Marine Corps, Suite 202,

Guam 96913

PROJECT:

IFB-07-ENG-2015

CONSTRUCTION OF AGAT-SANTA RITA WASTEWATER

TREAMENT PLANT REPLACEMENT; GWA PROJECT NO. S14-002-BND

SUBJECT:

Request for Project Time Extension

Dear Mr. Davis,

This is to request project extension with following reason SMCC encountered in implementation of this project.

Due to rejection of H-2B Temporary Alien Skilled workers, we were unable to obtain planned numbers of manpower, which is necessary to acquire to complete the project on time.

As shown in work load analysis sheet, SMCC planned to obtain 126 workers as average and 150 at peak construction duration based on analysis that project require 475,200 man-hours to complete within specified construction period of 660 days (Jan/11/2016 to Nov/1/2017)

% 126 x 660 x 5/7 x 8 hrs. =475,200 man-hours

On the other hand, due to the H2B issue, we had been facing Island wide shortage of workers from the beginning to date. As a consequence, SMCC could obtain much less work force comparing to the original plan and cumulative total man-hour is 383,560 man-hours at the end of April, 2018. This is the 81% of planned total man-hours to complete the project and it indicate the current progress percentage is understandable. It is also indicating, we have to spend

181 calendar days to complete the project from May 1st, 2018, which is October 29, 2018.

SMCC have been trying all the effort to improve the said workforce shortage based on GWA's instructions and supports, I believe SMCC attained considerable progress and accelerated the project as achievable as possible.

One of those efforts, SMCC oriented to engage about 645 workers (From April 5, 2016 ~ May 7, 2018) with the following subcontractors:

- 1. Hyun Hee Construction.
- 2. JHC Corporation
- 3. KPL Guam Co., Ltd.
- 4. FJMAE Builders General Contractors
- 5. VRM General Contractor
- 6. Tonets Corporation DBA TNK Guam/ Guam Advance
- 7. VG Gozum Construction LLC

Despite those efforts, we could obtain only 70 workers as daily average versus to the original plan of 126 workers.

It is clear that regardless contractor's will and efforts, it is impossible to achieve the project on time due to above described situation, which we consider beyond contractor's control.

Therefore, we are herewith requesting project extension upto *October 29*, **2018** based on the above consideration and calculation of necessary working days of 155 days from May 1st, 2018 to complete the project.

Sincerely,

SUMITOMO MITSUI CONSTRUCTION CO.LTD

TAKEYUKI SHIINO General Manager Guam Office

Attachments No.1: Work-load analysis sheet

No.2: Actual Total man-hours up to April 30, 2018

## SUMITOMO MITSUI CONSTRUCTION CO.,LTD. EXHIBIT B

Guam Office: P. O. Box 9670 Tamuning, Guam 96931
Tel: +1- (671) 649-7521--24 Fax: +1- (671) 649-7550

Reference No.: LT-18-045

October 8, 2018

GUAM WATERWORKS AUTHORITY GWA-Project Manager Mr. John McArthur Davis, P.E.

TO:

Gloria B. Nelson Public Service Building,

688 Route 15, Mangilao, Guam 96913

Guam 96913

PROJECT:

IFB-07-ENG-2015

CONSTRUCTION OF AGAT-SANTA RITA WASTEWATER
TREATMENT PLANT REPLACEMENT; GWA PROJECT NO. S14-002-BND

GHD, Inc. Construction Manager Thru:

Mr. Bryan J. Ryley

865 South Marine Corps, Suite 202,

SUBJECT: Request for Time Extension (2)

Dear Mr. Davis,

This letter is in continuation of SMCC's letter with Reference No. LT-18-020 dated May 16, 2018.

intention because of the island wide worker's shortage due to H2B visa rejection. The situation became worse as a consequence of the heavy demand of construction workforce for military build-up especially after recent awards for the major military projects in Guam and we lost many workforce due to the construction booms in Since the very beginning of this subject project, SMCC has been trying to expedite all works to meet the time line of the project. On the contrary to such efforts, it did not work out well as our

Mr. John McArthur Davis P.E. October 8, 2018 Page 2

As on-going major structural works in Agat Santa Rita project, Equalization Tank and Maintenance Building are substantially delayed due to the reasons above. Structural sub-contractors are facing more severe shortage of workers comparing before. Please see attached letters (attachment no 1) from sub-contractors.

As we informed in our previous letter, about 9 months delayed from our original schedule due to labor shortage (see attachment 2) and about 6 months delayed due to rain days (approved under CO 4, 8 and 10). And in recent months, invariably daily wet condition at site. Please see attached summary (attachment no. 3) of rain days from April 24th 2018 to September 30th 2018 which is 36 working days.

We also carried out on various additional works under Change Order No. 2 to 11 and to date we did not request time extension for those additional works yet.

We would like to inform other possible cause for further delay due to the time taking approval process as below;

The Change Order on Lighting Arresters and Surge Protection (SMCC Letter No. SMCC/ASWWTP-LTR-105 submitted in March 6, 2018 and updated on August 6th, 2018 due to changes in detail plan and Change Order for the Generator at Ga'an (SMCC Letter No. LT-18-029 submitted last June 25, 2018) are still pending approval. We have prepared schedule on these works by expecting approval by October 15, 2018 (see attachment 4)

As a current schedule;

We are scheduling to carry out Asphalt works at highlighted areas (see attachment 5) by December 2018.

The revised schedule summary is attached for your review and approval (attachment 6).

We are hereby requesting time extension up to March 2019 to complete all the item of works except the supply and installation of Generator at Ga'an Pump Station.

Mr. John McArthur Davis P.E. October 8, 2018 Page 3

And we are also requesting to make this item(supply and installation of Generator at Ga'an Pump Station) as independent agreement to the current contract, so we can close the contract by March, 2019.

We request this because this long lead time item was informed to SMCC recently and still waiting for approval, therefore SMCC do not have sufficient time to complete within the same time limit of other remaining works.

Your consideration and approval on this request will be very much appreciated.

Sincerely,

SUMITOMO MITSUI CONSTRUCTION CO. LTD.

TAKEYUKI SHIINO General Manager Guam Office

## JHC CORPORATION

Winner Building 20-H Tamuning Guam 96913 P.O.Box 12999 Tamuning Guam 96931-2999

Tel:687-3828 Fax:646-7310

Date To Mr. Nandagopalan February 25, 2018

Project Manager

Agat-Sta.Rita Waste Water Treatment Plant

Project

(Administration Building)

Subject Project Time Extension

This is to formally request your good office to allow the time extension of completion for the above stated project due to the following reasons: Hafa Adai,

Lack of Manpower

Continuous Rain

Also, rain weather greatly affects our production. In most instances, rain stopped our works almost in daily routine and production is commensurably affected.

With the above, we humbly request to complete the above said structure with an additional 4 As per our experience while constructing the recently completed structures, the clarifiers, lack of manpower has already been an issue for us. This is due to the H2B Visa issues as you very well knew. After the cancellation of our request for visa renewal, we cannot anymore attain the completion date as per our sub-contract for the Administration Building. We hope that with your consideration, this request will be granted. Maintenance Building and Equalization Tank but unfortunately due to non-availability of workers, we cannot commit to carry-out any additional works for now. months extension up to end of August 2018.
We appreciate that SMCC is offering more works to carry out structure construction namely

Thank you very much.

Feb. 2018

ZHONG MIN

DATE



353 Chalan San Antonio Tamuning, Guam 96913 Phone No.: (671)685-2521

Date : Sept. 25, 2018

To : Mr. Nandagopalan

Project Manager

Project : Agat-Sta.Rita Waste Water Treatment Plant (Centrifuge, Aerobic Building and

EQ Tank)

Subject : Manpower Shortage

711

KPL Construction has been very appreciative on the business provided to us with the construction of Three (3) Concrete structures namely Centrifuge, Aerobic Building and Equalization Tank.

However, with the manpower commitment by KPL on the on-set of these projects, needed to be supplied for the performance of those building works as previously discussed and sub-contracted, it is evident that the problem of manpower shortage still persists, despite our efforts to constantly publish an ads for manpower requirements. There were workers whom we initially hired and tested, but skillfulness were below standard. This only resulted into delay and repair of works and may continue to happen in the future if only meeting the number of manpower is required, thus not practicable, quality and money wise.

With the above scenario, we feel that the problem will not be resolved until the government allows the re-entry of H2B visa workers other than military projects.

We are deeply concern on this issue but we seek your understanding on our initial request to extend the completion date of the Equalization tank by 2 months (end of December) without weather limitations. As you may know, weather disturbances had also been prevailing yearlong thus production had been minimized if not limited.

Nonetheless, we were notified and aware that the completion of the large structure (Equalization Tank) is critical but please bear with us on this request and rest assured that KPL will continue to try looking for qualified workers and finish all works in the soonest time possible.

Thank you and best regards,

Vince Carmona III



# HYUN HEE CONSTRUCTION CORPORATION

General Contractor Civil Structure Works P.O. Box 2727 Tamuning, Guam 93961

Tel.: (671) 777-3123

June 07, 2018

Date

To

Mr. Nandagopalan Project Manager

Project Agat-Sta.Rita Waste Water Treatment Plant

Subject Manpower Supply

to place into which Hyun Hee was very grateful of. various trade more than a decade now. In return, SMCC likewise provided the projects from place Hyun Hee Construction has been supportive on SMCC's requirements for manpower supply for

contractors doing projects, thus competition among contractors to secure workers become competitive as well. Most of our previous workers succumb to this trend and move from already employed by other contractors not to mention workers that went to Saipan for a better contractors to contractors who can give them the most benefits. Almost 45% of our workers are However, with H2B visa issues, Guam's limited workers become very demanding for all

Due to this, despite our pleads and request to stay-on and complete this project, most of them still prefers and choose to leave even leaving their families behind in Guam.

continue to spread news of our demands for additional workers and support further SMCC's With this problem, we regret that we cannot commit additional workers, other than what we have right now. Rest assured that, with our network/connections on islanders that are with us, we will

Hoping for your understanding.

Thank you,

Suk Joong Kim President



## **Construction Company VRM General Contractor**

176 Perdron Goro Bordallō Subdivision Yigʻo, Guam 96329 Mailing Address: PME 1001 1270 North Marine drive STE 101 Tamuning, Guam 96913 Phone: 671-989-3913 Cell: 671-998-3294

To: Mr.Takiyuki Shino General Manager Sumitomo Mitsui Corporation Co. LTD

RE: Agat Santa Rita Waste Treatment Plant Replacement Electrical Works Delayed Due to Insufficient Manpower

Sept.28,2018

We regret to inform you that VRM has been having problems with providing workers to complete our works on time. Island wide problem of manpower shortage has been an issue thus haunting us up this time. Most of our trusted guys, permanent and temporary workers previously assigned to this project were pirated by other contractors. I apply for HZB visa just to import dependable and highly skilled electrician to work this project but unfortunately denied. SIL

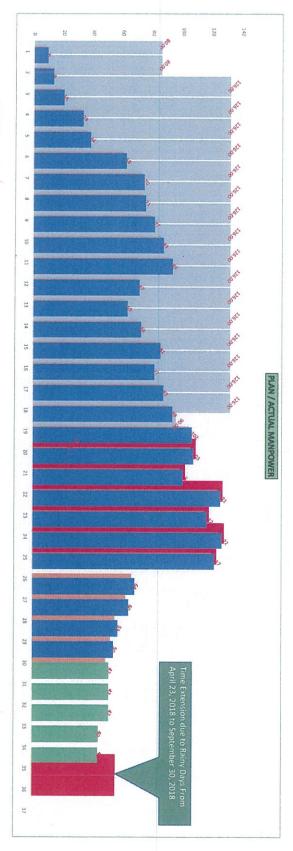
Nonetheless, with available workers we have now, we still stand committed to complete the project in the soonest.

Contractor

PROJECT: AGAT-STA.RITA WASTE WATER TREATMENT PLANT Contractor: Sumitomo Mitsui Const. Co. Ltd.

Extension due to	Needed Mandays	Actual (April)	Actual up to Sept	Plan	Month	Year
				80	Apr	
				080	May	
		9 16		0 126	Jun	
		5 29		6 126	Jul	
		9 34		6 126	Aug	2016
77		4 58		6 126	Sept	0.
				6 126	Oct	
		70 7		6 126	Nov	
		71		2000	Dec	
		77	777	126 1	Jan	
	-	83		126 1	Feb	
-	-	89		126 :	Mar	
-		67		126	Apr	
-	-	59		126	May	
-		88		126	y Jun	
_		81		126	n Jul	2017
		777		126		
		83		126	Aug S	
				126	Sept C	
				90	Oct /	
				20	Nov	
		96	96		Dec	
		121			Jan	
		112	112		Feb	
					Mar	
		117			Apr	
	64		64		May	
	60		60		Jun Jul	2
- 1	53				Jul	2018
- 1	3 50				Aug	
	0 47				Sept	
			7		Oct	
1	47 .	1.			Nov	
	47				Dec	
-	40	_			Jan	$\dashv$
	40		-		Feb Mar	
					Mai	2019
					Apr	
36 days (Feb. 1 -	448	1838	2112	2286	Total	

Total Needed Mandays = Total Planned Mandays minus Total Actual up to April = 2286 - 1838 = 448 Mandays



36 days (Feb 2)			
36 days (Feb. 1 - March 22, 2019)	448	1838	2286

Actual Mandays up to April 23, 2018 Total Planned Mandays Required per contract up to November 1, 2017

Days of Weather effects beyond January 31, 2019 (Feb 1-March 25, 2018)

Needed Mandays to Complete beyond April 23, 2018

Apr-1 Skilled Unskilled		-	1	3	4	5 3 0	6 3 1	7 3 0	3	3		0	11 3 4	12 3 4	13 3 4	3 4	15 4 0	2	0	2	2		3		1	1 (	1 5			5 !	5 4	4 4	0 3	1 Average 2.44	3 5	MANHOU 6
May-19 Skilled Unskilled		5			5	5	6 4 3	7 3 3	0	)	5	5	6 5	12 6 6	13 6 6	14 4 2	15 0 0		6	6	10	10	) :	3 (		5 6	6	. 6	5 6	5	3 (		1 :	1 8 5.461538 6 3.730769		113
Jun-16 Skilled Jnskilled	6 1	8	1 1	(	)	5 0 1	6 9 3	7 8 5	8 7 6		7	6	9		13 11 6	14 11 6	15 11 6	16 10 6	17 9 6	18 6 3	0	13	14		15	16	7	4	14	1 1	4 11	20	0	1 10.6	1 16	21
Jul-16 ikilled Jnskilled	14	10		4	1		6 19 13	7 19 10	8 19 12	1		5 1	9 :	21	13 18 14	14 15 13	15 13 13	16 14 11	17 4 0	18 24 18	3	21	18	28	23 18 8	7	2€	22	18		5 17	14	1 (	17.92	29	36
Aug-16 killed Inskilled	16		3 7 2	3	1	5  2  8	23	7 6 0	8 25 10	2		1 2	4		13 18 7	14 5 0	15 21 14	16 27 14	17 26 15		12	20	7	25	23	-	28	28	25	28	-	28	63	22.77778	34	50
Sep-16 killed Inskilled	28 31	33	25 21	7	2		6 35 29	7 5 8	8 24 33	3:	1 2	8 2	3 1	1	13 34 24	14 34 28	15 31 25	16 30 22	17 27 14	18 12 4	19 37 28	40	37	40		30	25 12 0	49	37	36	32	35		33.68 23.84	58	69
Oct-16 killed Inskilled	38		35 24		3		6 44 29	7 41 26	39 22	-	5 4	0 4	9 4	0	48	14 45 23	15 41 21	16 21 7	17 34 17	18 51 16	19 49 24		45	36	23 17 8	45	25 47 22		51	28 49 26	41	45	45	-	70	99
Nov-16 killed nskilled	1 48 25	25	48 20	22	20	0	2	7 49 14	50 18	18	3 1	2 2	9 1		19	14 40 23	15 44 20	16 45 24	17 52 26	18 51 27	19 40 19	20 17 0	51	22 49 26						28 48 28	52	49		48.70833 22.25	71	97
Dec-16 killed nskilled	53 18		48 23	18 2	4			7 46 28	8 49 31	45 32	3	9 1	9 4	4 4	18	14 51 32	15 46 38	16 48 43	17 44 28	18 9 3	19 44 34	20 42 39		22 46 35	23 39 41	31	0		27 41 29	28 39 36	42	38	25	45.32 30.8	77	96 63
Jan-17 cilled nskilled	0		3 55 32	53 36	55	5 5		7 43 22	8 19 5	9 45 37	50	4	2 4	9 5	66	14 49 22	15 20 5	16 39 25	17 48 30	18 49 31	19 52 32	49	46	22 23 2	23 48 23	48	25 47 37	26 49 35	27 47 39	28 34 24	23	49	59		83	106 66
Feb-17 silled nskilled	49 39	2 56 35	3 57 34	4 45 31	2	5		7 56 34	8 55 33	9 51 33	45	38	3 1	8 4	13	14 53 30	15 56 34	16 42 35	17 56 49	18 43 34	19 34 16	20 62 39	21 63 38	22 60 37	23 67 36	66	25 54 24	26 21 8	27 59 33	28 51 37	29	30	31	54.95833 34.25	89	109
Mar-17 tilled nskilled	1 37 22	2 42 27	3 43 32	39 19	33	4		7 51 25	8 44 36	9 46 36	the contract of	37	3	4 4	3	14 48 28	15 39 29	16 38 23	17 35 25	18 4 10	19 0 0	20 29 23	21 31 31	22 38 32	23 40 33	24 38 30	25 35 19	26 9 3	27 31 26	28 35 31		30 37 22	34		67	87 62
Apr-17 illed nskilled	24 22	10 4	3 37 26	4 42 28	42 33	4		7 37 27	21 20	0		35	3	7 3	3 3	5 2	15 24 11	16 12 4	17 40 27	18 38 33	19 37 28	20 41 34	21 39 35	22 24 14	23 7 1	24 33 20	25 34 28	26 36 29	27 39 35	28 39 35	29 28 14	30 17 4		34.48 25	59	70 51
May-17 illed iskilled	37 26	39 34	3 37 38	4 41 36	43	1	7	7 0 0	8 36 25	9 42 33	40 32	37	40	2	9	14 5 1	15 44 26	16 38 31	17 44 36	18 46 38	19 43 36	20 26 24	21 3 0	22 41 25	23 48 29	24 41 25	25 41 28	26 42 31	27 29 10	0 0	24	30 54 31	31 45 35	39.30769 28.80769	68	84 62
Jun-17 illed iskilled	1 49 36	45 36	24 16	0	43 24	21		7 50 35	8 45 28	9 52 30	10 37 27	12	51	5	1 4	14 41 36	15 40 39	16 39 46	17 27 27	0 0	19 48 33	20 45 44	51 42	51 44	23 48 49	24 33 29	25 1 4	26 46 42	27 50 48	28 49 52	29 36 36	30 49 49	31	44.24 36.6	81	92- 76
Jul-17 illed iskilled	1 25 21	3 2	3 46 45	6 3	48 44	48	B 4	45	8 28 33	9 5	31	45	46	4	6 4	43 50	15 32 22	2 0	17 39 38	18 45 45	19 44 44	20 43 39	21 4 0	22 19 21	23 3 0	24 41 40	25 43 39	26 44 43	27 47 46	28 48 45	29 25 28	30 4 3	31 43 43	39.36 37.56	77	80° 76
Aug-17 illed skilled	46 42	44 43	3 51 48	4 47 41	33 30		2 3	37	8 40 41	9 45 45	10 51 40		37		0 4	46 41	15 47 48	16 47 48	17 45 47	18 51 44	19 32 30	7 5	47 33	53 45	23 42 37	24 46 38	25 47 41	31 31	2 3	28 33 40	29 43 47	30 47 51	31 52 44	42.44444 40.18519	83	95: 90:
Sep-17 fled skilled Oct-17	1 55 48	33 34 2	0 0	17 20	5 55 46	61	4	7 52 16	8 6	9 0 4	0 0	11 49 48	53	5	7 5	55	15 56 51	16 38 30	17 0 0	18 52 50	19 52 49	20 60 40	21 55 47	58 47	23 35 25	11 5	25 55 39	26 62 50	27 50 60	28 48 58	29 47 55	30 31 39	31	46.2 42.4	89	968 88
lled skilled Nov-17	2 5	55 57 2	51 46	55 58 4	53	42	3	7	1 5	55 31 9	10 42 36	65	42	4:	3 3	39	15 9 3	16 52 45	56 47	18 59 30	19 57 48	20 66 52	21 48 33	22 15 3	23 64 48	24 60 46	25 64 53	26 64 50	27 66 54	28 55 42	0 0	30 65 44	31 65 51	56.69231 45.65385	102	1180 953
lled skilled Dec-17	64 41	64 49	66 48	42 38 4	9 13		6	7	61 55	50 58	62 52	33 29	0 0	5	2 5	3	15 59 54	16 58 45	17 50 64	18 39 45	19 0 1	20 57 56 20	21 55 47 21	22 61 53	0 0 23	24 47 30	25 44 38	26 2 0	27 54 42	28 53 52	52 50	30 55 54	31	54.58333 48.08333	103	1099 956
lled skilled	55 55	44 42	1 3	53 50	55 51	60 46	4	13	53 45	47 39	8 11	53 44	57	58	5	4	50 46	41 21	7 4	52 41	62 49	65 50	56 46	56 52	44 32	12 4	0	26 55 24	27 61 38	28 58 40	29 68 52	30 49 27	31 3 3	53.52 42.6	96	1114 896
Jan-18 lled skilled	0	2 63 76	3 66 38	4 64 50	5 75 58	62 40	1	6	70 44	9 69 52	10 63 52	11 64 48	73 54	45	)	3	15 63 54	16 73 47	17 69 54	18 73 54	19 72 59	20 51 42	21 17 5	73 56	23 75 50	63 59	25 71 54	26 71 53	27 51 45	28 5 2	29 80 47	30 71 57	31 75 56	68.65385 52.15385	121	1428
Feb-18 led skilled	73 57	71 52	3 52 34	0 0	5 72 43	69 54	4		63 55	9 73 55	10 57 37	9 10	12 66 46		7	2	15 67 54	16 69 49	17 44 39	2 5	19 63 47	20 71 57	21 73 62	72 72 62	23 66 52	24 48 43	0 0	26 63 47	27 64 58	28 69 59	29	30	31	63.04167 48.91667	112	1268 984
Mar-18 led skilled	73 65	57 57	3 57 48	4 2	5 65 52	61 53	51	8	8 71 60	9 76 64	10 60 47	9 2	70 46	57	5	1	51	16 68 58	17 60 42	18 14 14	19 77 51	20 74 64	21 78 62	73 58	23 78 63	24 54 49	25 13 4	26 70 54	27 82 64	28 82 53	29 70 59	1 2	31 50 46	68.34615 53.5	122	1480 1164
Apr-18 led skilled	12 4	72 49	73 48	73 53	5 75 61	76 63	31	6	2	9 66 50	10 69 57	11 67 51	58 61	69 66	3:	9	8	16 76 47	17 79 50	18 79 50	19 80 45	73 51	21 47 30	0 0	23 64 43	24 63 43	25 65 54	26 67 47	27 68 53	28 41 37	0 0	30 57 39	31	67.48 49.32	117	1359 989
May-18 led killed	1 46 47	44	3 45 44	4 48 43	5 42 35	0	34	4 3	37	9 44 42	10 44 36	11 43 44	35 35	13	34	6	37	16 35 46	17 40 42	18 40 45	19 29 32	3 5	21 36 42	38 45	23 38 43	24 38 43	25 38 46	26 29 35	0	20 27	40 45	30 40 47	31	31.16129 32.83871	64	809 852
Jun-18 led killed	1 39 46	32	20	37 39	39 36	6 38 41	36 40	6 3	41	9 17 30	10 17 0	11 41 43	40 39	13 40 41	35	9	34	16 17 21	17 16 0	18 38 34	19 40 39	20 41 42	37 44	22 34 39	23 12 22	24 15 0	25 32 39	26 33 36	27 37 37	28 38 42	29 34 42	30 11 30		29.56667 30.66667	60	740 772
Jul-18 ed killed	0 9	35	3 38 42	19	5 14 11	6 28 19	26	B 5 3	12	9 36 40	10 35 41	11 36 43	12 38 46	13 40 47	25	9	0	16 27 22	17 36 47	18 31 40	19 39 44	20 30 32	21 0 0	0 0	23 37 33	24 38 38	25 37 41	26 35 39	27 36 34	28 25 26	29 4 9	30 36 36	31	25.32258 27.6129	53	628 692
Aug-18 ed killed	1 31 24		3 32 30	4 28 12	5 19 0	6 18 23	26	5 2		9 34 26	10 33 26	11 28 16	12 21 0	13 31 26	18	8 3	35			18 23 17	19 20 1	20 34 21	21 18 23	22 33 33	23 35 33	24 40 32	25 32 21	26 21 3	27 31 30	28 17 30	29 33 32	30 34 32	31 34 32	27.6129 22.32258	Surrent Mar 50	709 572
Sep-18 ed killed	1 29 23	0 0	3 0		5 45 35	6 49 28	54 27	1 3	8 36 22	3	10 9 7	11 1 0	12 40 22	13 44 24	45	5 4	15 13 22	0	48	49	19 47 30	20 44 28	21 45 29	22 18 21	0 0		25 25 29	26 28 34	27 26 29	28 28 32	29 15 19	30 6 8		27.16667 19.33333	47	6752 4824

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Summary of Weather Days After April 23, 2018

36.00 days	Subtotal:	
9.00 days	0.47	Sep-18
8.00 days	0.55	Aug-18
4.00 days	0.39	Jul-18
5.00 days	0.24	Jun-18
8.00 days	0.14	May-18
2.00 days	0.12	Apr-18
Actual Days in Excess of the Ave. Rainfall (From Table 2)	Ave Rainfall (inches/day)	

		0.059	Thursday, May 31, 2018	05/31/18	0.059	25	1.5 mm	31
		0	Wednesday, May 30, 2018	05/30/18	0.000	0	0 mm	30
	1.00	0.161	Tuesday, May 29, 2018	05/29/18	0.161	4.1	4.1 mm	29
Memorial Day Holiday		0.091	Monday, May 28, 2018	05/28/18	0.091	2.3	2.3 mm	28
	TRUE	TRUE	Sunday, May 27, 2018	05/27/18	0.000	0	0 mm	27
	TRUE	THUE	Saturday, May 26, 2018	05/26/18	0.031	0.8	0.8 mm	26
		0.012	Friday, May 25, 2018	05/25/18	0.012	0.3	0.3 mm	25
		0.012	Thursday, May 24, 2018	05/24/18	0.012	0.3	0.3 mm	24
	1.00	0.26	Wednesday, May 23, 2018	05/23/18	0.260	6.6	6.6 mm	23
	1.00	1.52	Tuesday, May 22, 2018	05/22/18	1.520	38.6	38.6 mm	22
	1.00	0.819	Monday, May 21, 2018	05/21/18	0.819	20.8	20.8 mm	21
	TRUE	TRUE	Sunday, May 20, 2018	05/20/18	0.051	1.3	1.3 mm	20
	TRUE	TRUE	Saturday, May 19, 2018	05/19/18	0.059	1.5	1.5 mm	19
	,	0.051	Friday, May 18, 2018	05/18/18	0.051	1.3	1.3 mm	18
		0.091	Thursday, May 17, 2018	05/17/18	0.091	2.3	2.3 mm	17
	1.00	0.72	Wednesday, May 16, 2018	05/16/18	0.720	18.3	18.3 mm	6
		0.118	Tuesday, May 15, 2018	05/15/18	0.118	ω	3 mm	15
	1.00	0.37	Monday, May 14, 2018	05/14/18	0.370	9.4	9.4 mm	14
	TRUE	TRUE	Sunday, May 13, 2018	05/13/18	0.000	0	0 mm	13
	TRUE	TRUE	Saturday, May 12, 2018	05/12/18	0.012	0.3	0.3 mm	12
	1.00	0.24	Friday, May 11, 2018	05/11/18	0.240	6.1	6.1 mm	_
		0.012	Thursday, May 10, 2018	05/10/18	0.012	0.3	0.3 mm	10
		0.051	Wednesday, May 09, 2018	05/9/18	0.051	1.3	1.3 mm	
		0.091	Tuesday, May 08, 2018	05/8/18	0.091	2.3	2.3 mm	
		0	Monday, May 07, 2018	05/7/18	0.000	0	0 mm	
	TRUE	TRUE	Sunday, May 06, 2018	05/6/18	0.000	0	0 mm	
	THUE	TRUE	Saturday, May 05, 2018	05/5/18	0.000	0	0 mm	
	,	0.051	Friday, May 04, 2018	05/4/18	0.051	1.3	1,3 mm	
		0.11	Thursday, May 03, 2018	05/3/18	0.110	2.8	2.8 mm	
		0	Wednesday, May 02, 2018	05/2/18	0.000	0	0 mm	
	1.00	0.512	Tuesday, May 01, 2018	05/1/18	0.512	13	13 mm	
8.00	ACTUAL WEEK DAYS ABOVE AVE.				INCH	×	Sum	May
Table 2							Precip. Accum.	2018

		0.051	Monday, April 30, 2018	04/30/18	0.051	1.3	1.3 mm	30
	TRUE	TRUE	Sunday, April 29, 2018	04/29/18	0.091	2.3	2.3 mm	29
	TRUE	TRUE	Saturday, April 28, 2018	04/28/18	0.728	18.5	18.5 mm	28
	1.00	0.382	Friday, April 27, 2018	04/27/18	0.382	9.7	9.7 mm	27
	1.00	0.28	Thursday, April 26, 2018	04/26/18	0.280	7.1	7.1 mm	26
		0.031	Wednesday, April 25, 2018	04/25/18	0.031	0.8	0.8 mm	25
		0	Tuesday, April 24, 2018	04/24/18	0.000	0	0 mm	24
		0.031	Monday, April 23, 2018	04/23/18	0.031	0.8	0.8 mm	23
	TRUE	TRUE	Sunday, April 22, 2018	04/22/18	0.031	0.8	0.8 mm	22
	TRUE	TRUE	Salurday, April 21, 2018	04/21/18	0.331	8.4	8.4 mm	21
		0	Friday, April 20, 2018	04/20/18	0.000	0	0 mm	20
		0.091	Thursday, April 19, 2018	04/19/18	0.091	2.3	2.3 mm	9
Considered in CO	1.00	0.22	Wednesday, April 18, 2018	04/18/18	0.220	5.6	5.6 mm	18
		0	Tuesday, April 17, 2018	04/17/18	0.000	0	0 mm	17
Considered in CO	1.00	0.189	Monday, April 16, 2018	04/16/18	0.189	4.8	4.8 mm	6
	THUE	TRUE	Sunday, April 15, 2018	04/15/18	1.350	34.3	34.3 mm	i,
	THUE	TRUE	Saturday, April 14, 2018	04/14/18	0.299	7.6	7.6 mm	14
		0	Friday, April 13, 2018	04/13/18	0.000	0	0 mm	13
		0	Thursday, April 12, 2018	04/12/18	0.000	0	0 mm	12
	,	0	Wednesday, April 11, 2018	04/11/18	0.000	0	0 mm	=
		0	Tuesday, April 10, 2018	04/10/18	0.000	0	0 mm	10
	,	0	Monday, April 09, 2018	04/9/18	0.000	0	0 mm	9
	TRUE	TRUE	Sunday, April 08, 2018	04/8/18	0.551	14	14 mm	00
	TRUE	TRUE	Saturday, April 07, 2018	04/7/18	0.000	0	0 mm	7
Considered in CO	1.00	0.402	Friday, April 06, 2018	04/6/18	0.402	10.2	10.2 mm	6
		0.039	Thursday, April 05, 2018	04/5/18	0.039	-4	1 mm	(A)
		0	Wednesday, April 04, 2018	04/4/18	0.000	0	0 mm	4
		0.039	Tuesday, April 03, 2018	04/3/18	0.039	-	1 mm	w
		0.051	Monday, April 02, 2018	04/2/18	0.051	13	1.3 mm	N
	TRUE	TRUE	Sunday, April 01, 2018	04/1/18	0.020	0.5	0.5 mm	and
2.00	DAYS ABOVE AVE.				INCH	MM	Sum	Apr
The second second							Frecip, Accum.	2018

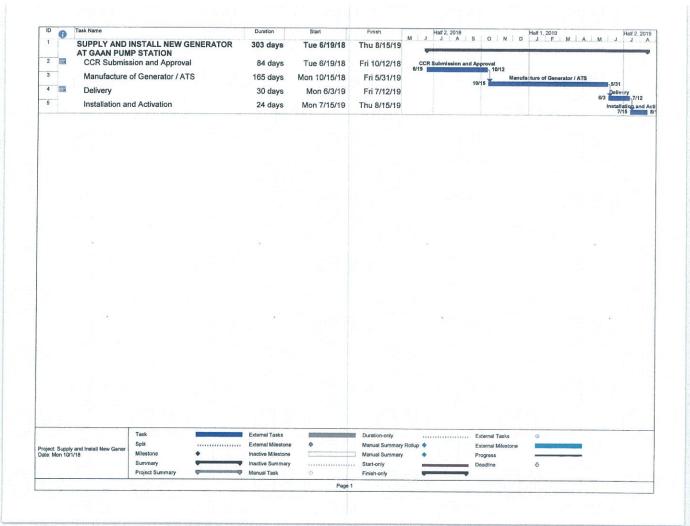
		0.161	Monday, July 30, 2018	07/30/18	0.161	4.1	4.1 mm	30
		0.169	Tuesday, July 31, 2018	07/31/18	0.169	4.3	4.3 mm	31
		0.031	Monday, July 30, 2018	07/30/18	0.031	8.0	0.8 mm	30
		0	Friday, July 27, 2018	07/27/18	0.000	0	0 mm	27
		0.311	Thursday, July 26, 2018	07/26/18	0.311	7.9	7.9 mm	26
		0.	Wednesday, July 25, 2018	07/25/18	0.000	0	0 mm	25
		0.118	Tuesday, July 24, 2018	07/24/18	0.118	ω	3 mm	24
		0.031	Monday, July 23, 2018	07/23/18	0.031	8.0	0.8 mm	23
	TRUE	TRUE	Sunday, July 22, 2018	07/22/18	0.299	7.6	7.6 mm	22
	TRUE	TRUE	Saturday, July 21, 2018	07/21/18	0.260	6.6	6.6 mm	21
Liberation Day, Holiday	1,00	1.209	Friday, July 20, 2018	07/20/18	1.209	30.7	30.7 mm	20
	,	0.15	Thursday, July 19, 2018	07/19/18	0.150	3.8	3.8 mm	19
		0	Wednesday, July 18, 2018	07/18/18	0.000	0	0 mm	8
		0.079	Tuesday, July 17, 2018	07/17/18	0.079	2	2 mm	17
	1.00	0.531	Monday, July 16, 2018	07/16/18	0.531	13.5	13.5 mm	16
	TRUE	TRUE	Sunday, July 15, 2018	07/15/18	0.012	0.3	0.3 mm	15
	TRUE	TRUE	Saturday, July 14, 2018	07/14/18	0.201	5.1	5.1 mm	14
		0.28	Friday, July 13, 2018	07/13/18	0.280	7.1	7.1 mm	13
	1.00	0.409	Thursday, July 12, 2018	07/12/18	0.409	10.4	10.4 mm	12
		0.291	Wednesday, July 11, 2018	07/11/18	0.291	7.4	7.4 mm	11
		0.091	Tuesday, July 10, 2018	07/10/18	0.091	2.3	2.3 mm	10
		0.012	Monday, July 09, 2018	07/9/18	0.012	0.3	0.3 mm	9
	TRUE	TRUE	Sunday, July 08, 2018	07/8/18	0.598	15.2	15.2 mm	8
	TRUE	THUE	Saturday, July 07, 2018	07/7/18	0.220	5.6	5.6 mm	7
	1.00	1.839	Friday, July 06, 2018	07/6/18	1.839	46.7	46.7 mm	6
	1.00	1.87	Thursday, July 05, 2018	07/5/18	1.870	47.5	47.5 mm	CT
1.00 Fourth of July Holiday	1.00	0.87	Wednesday, July 04, 2018	07/4/18	0.870	22.1	22.1 mm	4
		0.189	Tuesday, July 03, 2018	07/3/18	0.189	4.8	4.8 mm	ω
		0.012	Monday, July 02, 2018	07/2/18	0.012	0.3	0.3 mm	10
	TRUE	TRUE	Sunday, July 01, 2018	07/1/18	0.098	2.5	2.5 mm	
4.00	ACTUAL WEEK DAYS ABOVE AVE.				INCH	MM	Sum	Inf
Table 2							Precip. Accum.	2018

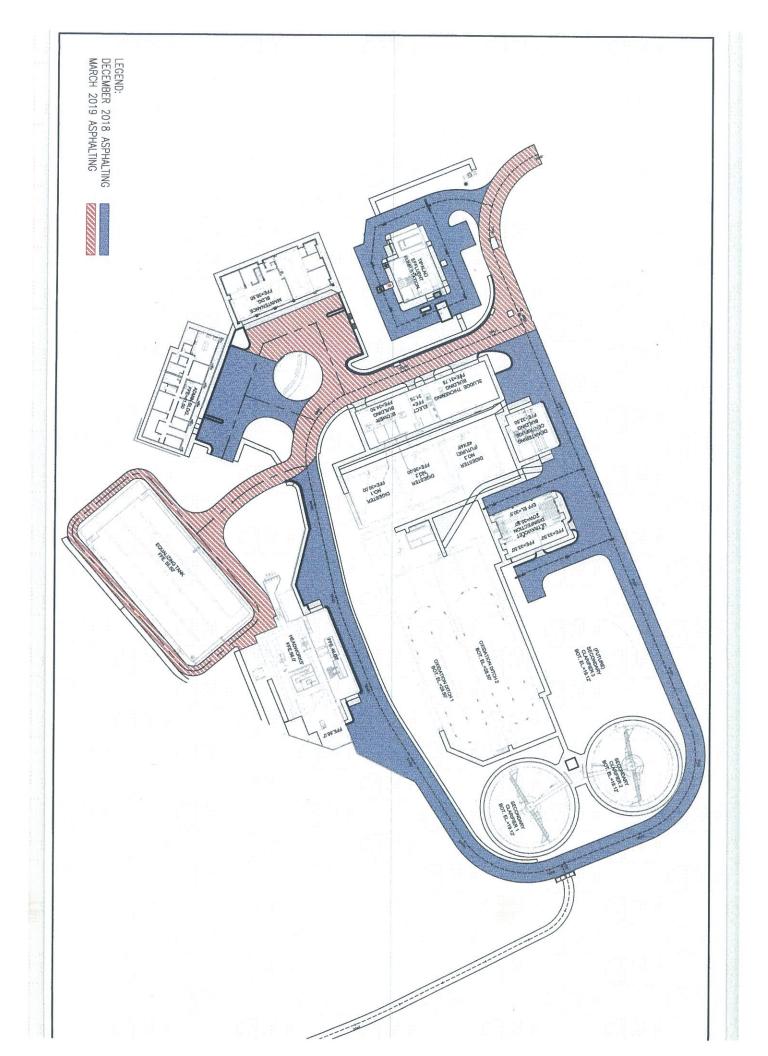
	TRUE	TRUE	Saturday, June 30, 2018	06/30/18	0.161	4.1	4.1 mm	30
		0	Friday, June 29, 2018	06/29/18	0.000	0	0 mm	29
		0.13	Thursday, June 28, 2018	06/28/18	0.130	3.3	3.3 mm	28
	1.00	0.748	Wednesday, June 27, 2018	06/27/18	0.748	19	19 mm	27
	1.00	0.26	Tuesday, June 26, 2018	06/26/18	0.260	6.6	6.6 mm	26
		0	Monday, June 25, 2018	06/25/18	0.000	0	0 mm	25
	TRUE	TRUE	Sunday, June 24, 2018	06/24/18	0.000	0	0 mm	24
	TRUE	THUE	Saturday, June 23, 2018	06/23/18	0.012	0.3	0.3 mm	23
	•	0.02	Friday, June 22, 2018	06/22/18	0.020	0.5	0.5 mm	22
		0.228	Thursday, June 21, 2018	06/21/18	0.228	5.8	5.8 mm	21
		0.181	Wednesday, June 20, 2018	06/20/18	0.181	4.6	4.6 mm	20
		0.118	Tuesday, June 19, 2018	06/19/18	0.118	ω	3 mm	19
	****	0	Monday, June 18, 2018	06/18/18	0.000	0	0 mm	18
	TRUE	THUE	Sunday, June 17, 2018	06/17/18	0.000	0	0 mm	17
	TRUE	THUE	Saturday, June 16, 2018	06/16/18	0.039	1	1 mm	16
		0	Friday, June 15, 2018	06/15/18	0.000	0	0 mm	15
		0.012	Thursday, June 14, 2018	06/14/18	0.012	0.3	0.3 mm	14
		0	Wednesday, June 13, 2018	06/13/18	0.000	0	0 mm	13
		0.039	Tuesday, June 12, 2018	06/12/18	0.039	-	1 mm	12
	1.00	0.28	Monday, June 11, 2018	06/11/18	0.280	7.1	7.1 mm	11
	TRUE	TRUE	Sunday, June 10, 2018	06/10/18	0.071	1.8	1.8 mm	10
	TRUE	TRUE	Saturday, June 09, 2018	06/9/18	0.248	6.3	6.3 mm	9
	1.00	0.709	Friday, June 08, 2018	06/8/18	0.709	18	18 mm	8
		0.031	Thursday, June 07, 2018	06/7/18	0.031	0.8	0.8 mm	7
		0	Wednesday, June 06, 2018	06/6/18	0.000	0	0 mm	6
	1.00	1.728	Tuesday, June 05, 2018	06/5/18	1.728	43.9	43.9 mm	Ut
		0.531	Monday, June 04, 2018	06/4/18	0.531	13.5	13.5 mm	4
	TRUE	THUE	Sunday, June 03, 2018	06/3/18	0.350	8.9	8.9 mm	ω
	THUE	THUE	Saturday, June 02, 2018	06/2/18	0.012	0.3	0.3 mm	N
		0.039	Friday, June 01, 2018	06/1/18	0.039	-	1 mm	
5.00	ACTUAL WEEK DAYS ABOVE AVE				INCH	MM	Sum	Jun
Table 2							Precip. Accum.	2018

	TRIF	TRUE	Saturday, September 29, 2018	09/29/18	0.000	0	0 mm	9
		0	Friday, September 28, 2018	09/28/18	0.000	0	0 mm	28
	1.00	1.012	Thursday, September 27, 2018	09/27/18	1.012	25.7	25.7 mm	27
		0	Wednesday, September 26, 2018	09/26/18	0.000	0	0 mm	26
	1.00	1.331	Tuesday, September 25, 2018	09/25/18	1.331	33.8	33.8 mm	25
		0	Monday, September 24, 2018	09/24/18	0.000	0	0 mm	24
	TRUE	THUE	Sunday, September 23, 2018	09/23/18	0.020	0.5	0.5 mm	23
	THUE	TRUE	Saturday, September 22, 2018	09/22/18	1.500	38.1	38.1 mm	22
	1.00	0.748	Friday, September 21, 2018	09/21/18	0.748	19	19 mm	17
	1.00	0.142	Thursday, September 20, 2018	09/20/18	0.142	3.6	3.6 mm	20
		0.118	Wednesday, September 19, 2018	09/19/18	0.118	ω	3 mm	19
		0.13	Tuesday, September 18, 2018	09/18/18	0.130	3.3	3.3 mm	8
		0.429	Monday, September 17, 2018	09/17/18	0.429	10.9	10.9 mm	17
	TRUE	TRUE	Sunday, September 16, 2018	09/16/18	0.051	1.3	1.3 mm	16
	TRUE	THUE	Saturday, September 15, 2018	09/15/18	0.098	2.5	2.5 mm	Ü
		0.35	Friday, September 14, 2018	09/14/18	0.350	8.9	8.9 mm	14
	1.00	1.26	Thursday, September 13, 2018	09/13/18	1.260	32	32 mm	13
Recovery - Typhoon Mangkut	1.00	0	Wednesday, September 12, 2018	09/12/18	0.000	0	0 mm	12
Typhoon Mangkut	1.00	0.488	Tuesday, September 11, 2018	09/11/18	0.488	12.4	12.4 mm	11
Typhoon Mangkut	1.00	0.012	Monday, September 10, 2018	09/10/18	0.012	0.3	0.3 mm	10
	TRUE	TRUE	Sunday, September 09, 2018	09/9/18	0.012	0.3	0.3 mm	9
	TRUE	TRUE	Saturday, September 08, 2018	09/8/18	0.370	9.4	9.4 mm	8
		0.098	Friday, September 07, 2018	09/7/18	0.098	2.5	2.5 mm	7
	1.00	0.961	Thursday, September 06, 2018	09/6/18	0.961	24.4	24.4 mm	6
		0	Wednesday, September 05, 2018	09/5/18	0.000	0	0 mm	Cī
		0.051	Tuesday, September 04, 2018	09/4/18	0.051	1.3	1.3 mm	-
Labor Day Holiday		0.051	Monday, September 03, 2018	09/3/18	0.051	1.3	1.3 mm	ω
	TRUE	TRUE	Sunday, September 02, 2018	09/2/18	0.000	0	0 mm	10
	TRUE	TRUE	Saturday, September 01, 2018	09/1/18	0.421	10.7	10.7 mm	
9,00	ACTUAL WEEK DAYS ABOVE AVE.				INCH	MM	Sum	Sep
Table 2							Precip. Accum.	2018

		0.016	invieway, rugues ou, 2010	Out out to	L	0.00	440	
		0.012	Thursday August 30 2018		0.012	0.3	0,3 mm	30
		0.051	Wednesday, August 29, 2018	08/29/18 V	0.051	1.3	1.3 mm	29
		0.012	Tuesday, August 28, 2018	08/28/18	0.012	0.3	0.3 mm	28
	1.00	1.74	Monday, August 27, 2018	08/27/18	1.740	44.2	44.2 mm	27
	TRUE	TRUE	Sunday, August 26, 2018	08/26/18	0.000	0	0 mm	26
	TRUE	TRUE	Saturday, August 25, 2018	08/25/18	0.000	0	0 mm	25
		0.189	Friday, August 24, 2018	08/24/18	0.189	4.8	4.8 mm	24
		0.059	Thursday, August 23, 2018	08/23/18	0.059	1.5	1.5 mm	23
	1.00	0.63	Wednesday, August 22, 2018	08/22/18	0.630	16	16 mm	22
	1.00	3,272	Tuesday, August 21, 2018	08/21/18	3.272	83.1	83.1 mm	21
	1.00	1.319	Monday, August 20, 2018	08/20/18	1.319	33.5	33.5 mm	20
	TRUE	TRUE	Sunday, August 19, 2018	08/19/18	1.980	50.3	50.3 mm	19
	TRUE	TRUE	Saturday, August 18, 2018	08/18/180	0.110	2.8	2.8 mm	18
		0.079	Friday, August 17, 2018	08/17/18	0.079	N	2 mm	17
	1.00	2.441	Thursday, August 16, 2018	08/16/18	2.441	62	62 mm	16
		0.35	Wednesday, August 15, 2018	08/15/18	0.350	8.9	8.9 mm	15
	1.00	0.642	Tuesday, August 14, 2018	08/14/18	0.642	16.3	16.3 mm	4
		0.228	Monday, August 13, 2018	08/13/18	0.228	5.8	5.8 mm	13
	TRUE	THUE	Sunday, August 12, 2018	08/12/18	0.130	3.3	3.3 mm	12
	TAUE	TRUE	Saturday, August 11, 2018	08/11/18	0.012	0.3	0.3 mm	11
		0	Friday, August 10, 2018	08/10/18	0.000	0	0 mm	10
		0.299	Thursday, August 09, 2018	08/9/18	0.299	7.6	7.6 mm	9
		0	Wednesday, August 08, 2018	08/8/18	0.000	0	0 mm	8
		0	Tuesday, August 07, 2018	08/7/18	0.000	0	0 mm	7
		0.248	Monday, August 06, 2018	08/6/18	0.248	6.3	6.3 mm	a
	TRUE	TRUE	Sunday, August 05, 2018	08/5/18	0.150	3.8	3.8 mm	Ch
	THUE	TRUE	Saturday, August 04, 2018	08/4/18	1.291	32.8	32.8 mm	4
		0.22	Friday, August 03, 2018	08/3/18	0.220	5.6	5.6 mm	ω
	1.00	1.579	Thursday, August 02, 2018	08/2/18	1.579	40.1	40.1 mm	N
	1.00	0.772	Wednesday, August 01, 2018	08/1/18	0.772	19.6	19.6 mm	
8.00	ACTUAL WEEK DAYS ABOVE AVE.				INCH	MM	Sum	Aug
Table 2							Precip. Accum.	8102







Note   Note   Property processed   Note	Project Supposer
Model   Control   Contro	Off-sits waterlins C. Lower Aget to new WW TP Sta 1 +00 to 40+08.04
MODRAN   Process   Control Statement   Mode   Mod	
Model   Properties of Confedence   1006   France   Transport   T	
Marcian   Process   Continue	1
Colonia   Control   Colonia   Colo	5 1
Marchel   Process of Condension   1009,   10 months	ă I
MODENN   Process of Continues of Part	410
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				Sat 5/19/18 Fri 5/25/18	Tue 1/22/19 5 days	0% Thu 1/17/19	Phase 2 System Testing Non Priority	1451 PSA365
				Fri 5/11/18 Wed 5/16/18	Thu 1/17/19 5 days	0% Sat 1/12/19	Process 16 Maintenance Building P2SA	1450 PSA350
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							Process 13 Plant Water System P2SA	1439 PSA310
					Wed 7/18/18	100% Tue 7/17/18	Process 11 Dewatering Centrifuge P2SA	1438 PSA280
					Fri 7/27/18		Process 10 Aerobic Digester P2SA	1437 PSA270
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Off-site Waterline B. Hyundal to new WWTP		- The Party of the						

## **GUAM WATERWORKS AUTHORITY**

"Better Water. Better Lives."

Gloria B. Nelson Public Service Building | 688 Route 15, Mangilao, Guam 96913 P.O. Box 3010, Hagatna, Guam 96932 Tel. No. (671) 300-6846 Fax. No. (671) 648-3290

October 29, 2018

Mr. Takeyuki Shiino General Manager Sumitomo Mitsui Construction Co., Ltd. (Guam Office) P.O. Box 9670 Tamuning, Guam 96931

Reference:

GWA Project No. S14-002-BND; Construction of Agat-Santa Rita Wastewater Treatment

Plant Replacement

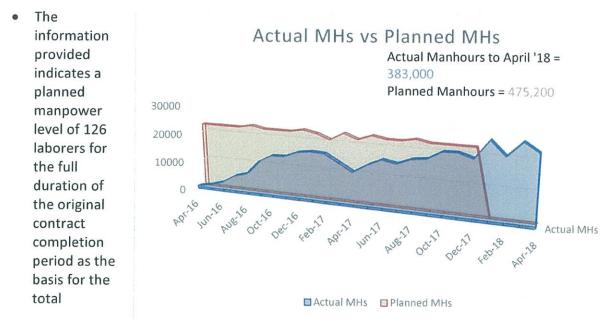
Subject:

SMCC Letter LT-18-020, Request for Project Time Extension

Dear Mr. Shiino:

GWA is very aware of the issues SMCC has faced with regard to labor on this important project. In fact, GWA has been very proactive in working with all members of the Project Team - including SMCC, the Engineer of Record, and the Construction Manager – to provide flexibility in construction methods, additional equipment and materials, and additional resources for premium on labor costs to attract and retain additional labor SMCC needed to help us meet our Court Order deadlines.

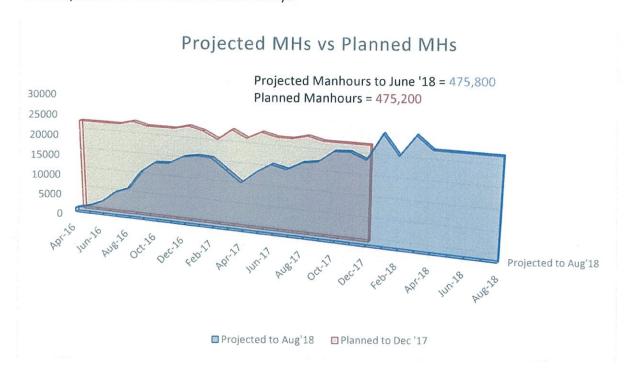
While we appreciate the information SMCC has presented to support the request for a schedule extension due to the lack of H-2B labor, GWA feels that it is insufficient to support the request. Specifically, we note the following:



manpower effort of 475,200 manhours. This ignores the reality on any construction project that requires scaling up the activities on the site at the beginning of the project, and ramping down the activities as the major elements of work are completed.

- The actual manhours presented through April 2018 appear to be based on the number of laborers on site, for the number of work days in a given month working an 8-hour shift. This does not seem to reflect the approach actually taken during construction, for longer shifts and extended work hours in order to recover schedule (GWA did in fact authorize and allocate additional funding for such activity). Therefore, the actual manhours may be understated in SMCC's analysis.
- SMCC is using a past average of total laborers (74) available to project the additional time required to complete the project, which was less than the number of actual laborers employed at the project when the request for time extension was made. This ignores what GWA believes should be the focus for SMCC, which is maintaining the 110+ laborers on the project in April 2018 through the end of the project period in order to minimize any further delay.

GWA believes a more realistic analysis of manhours is needed to support a reasonable request for time extension due to the labor issues facing SMCC. The graphic below is based on more reasonable assumptions for maintaining a labor force SMCC already achieved (110+) and driving for completion to minimize schedule delays.



Letter to SMCC October 29, 2018 Page 3 of 3

Notwithstanding the conservative assumptions that SMCC has used with regard to scale-up and ramp-down, and an 8-hour work day, GWA's analysis and projection supports a reasonable time extension through August of 2018. The fact that we are already in October, and SMCC has not yet completed major elements of the work required for substantial completion is of critical concern to both GWA Management and Governance, and to the U.S. Environmental Protection Agency (USEPA), which continues to threaten GWA with additional action under the Court Order.

GWA is willing to provide a contract extension in accordance with our analysis above. However, we intend to assess liquidated damages beginning September 1, 2018 as set forth in the Contract. In the event the project is not completed before the end of the year, the liquidated damages assessed are projected to be approximately \$480,000. GWA requires SMCC to immediately submit a revised schedule showing completion as soon as possible within the calendar year, along with a narrative plan on how SMCC intends to change its approach to make this happen.

I would like to meet with you on Monday, November 5<sup>th</sup> at 2:00pm at which time SMCC will be expected to provide the revised schedule and explain the plan for achieving the required completion.

Regards,

MIGUEL C. BORDALLO, P.E.

General Manager

Cc:

T. Cruz (GWA)

J. Davis (GWA)

K.Clark (GWA)



## EXHIBIT D

Date:

October 03, 2018

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 07 - Additional Construction Management Services Scope of Work & Fee

Proposal

Dear Mr. Davis:

We are pleased to submit the following proposal for additional CM support services as described below.

## SCOPE OF WORK:

In follow-up to your email dated September 20, 2018 (Exhibit 01), we have prepared a cost estimate to extend our Construction Management (CM) Services from **September 01, 2018 through April 30, 2019** as requested.

MOD 05 provided CM services through August 31, 2018. Based on the Contractor's most current progress schedule (Exhibit 02), the "Project Closeout' Inspection and Turnover" is currently being shown as completed by November 07, 2018. It is our opinion that this completion date is inaccurate, and we believe the work will not be completed until March or April of 2019. We base this projection on our observation of the on-site progress, the overall project completion percentage, the monthly average percent complete, and that no single structure has been 100% completed and accepted by GWA as of the date of this letter.

Kindly reference Exhibit 03. The graph begins in August 2016 when we received the Contractor's first payment application, and we were able to calculate the first percent of work complete. From NTP to July 31, 2018 the Contractor completed, on average, 3.42% of the total work per month. Over the six (6) month period of February 1, 2018 to July 31, 2018 the contractor completed, on average, 3.16% of the total work per month. Assuming they will complete the same amount of work (3.16% to 3.42% each month), we project the completion of construction (substantial completion) by January 31, 2019 (6 months from July 31, 2018). Additionally, we estimate two (2) to three (3) months for punch list work and project closeout. This would push the Contractor's Overall Project Completion Date to April 30, 2019.

Additionally, the onsite labor force seems to have been in a general decline for the last seven (7) months. The average site staffing for July and August 2018 was 90 persons. Please review Exhibit 04 to see this decline which appears to have begun in February or March of 2018.

MOD 06 was prepared to provide additional CM services for the proposed 21-inch Baza Gardens Sanitary Sewer extension from Route 2A to the new ASRWWTP lift station. It is our understanding that these CM services will be provided by others and the associated fee will be utilized for additional CM services for this project.

MOD 07 has been prepared to establish a budgetary amount of anticipated monthly costs for each month the Contractor is unable to complete their work past August 31, 2018. Our proposal assumes a reduction in staffing as requested by John M. Davis, as described below, and as graphically presented in Table 01.

- We have assumed our current effort for September 2018 through October 2018.
- We have reduced the PM effort from 100% to 75% and the Civil Inspector, RFI & Submittal Manager from 100% to 50% for November 2018 through January 2019.
- We have reduced the PM effort from 75% to 50% and the Civil Inspector, RFI & Submittal Manager from 50% to 25%, and the Sr. Special Inspector from 15% to 0% for February 2019 through April 2019.

TABLE 01- SUMMARY OF MOD 07 STAFFING EFFORT

Working Days Per Month	Sep- 18	Oct- 18	Nov- 18	Dec- 18	Jan- 19	Feb- 19	Mar- 19	Apr- 19
	22	23	22	21	23	20	21	22
Description/Labor Class								
Project Manager	100%	100%	75%	75%	75%	50%	50%	25%
Asst. Project Manager	100%	100%	100%	100%	100%	100%	100%	100%
Structural/Senior Special Inspector	15%	15%	15%	10%	5%	0%	0%	0%
Civil Inspector, RFI & Submittal Manager	100%	100%	50%	50%	50%	25%	25%	25%
Civil Inspector/Structural	100%	100%	100%	100%	100%	100%	100%	100%
Technical Administrative Support	100%	100%	100%	100%	100%	100%	100%	100%

Our estimate has been prepared in good faith, based on our current understanding of the remaining work, and for budgetary purposes only. As GWA is aware, the Contractor has not been able to provide an accurate recovery schedule or achieve projected completion milestones. Our actual effort is entirely dependent on the Contractor's ability to complete (or not complete) their work within the durations and timeframes represented in their schedule.

We have been providing our services on a time and materials (T&M) basis since April of 2018. It is our hope that the Contractor can finish this project in its entirety prior to the end of the year. However, as our current services are being provided on a T&M basis, we believe it is in GWA's best interest for GHD to provide a realistic "quantity of magnitude" with regard to what we believe the appropriate staffing, quality assurance costs, and related expenses will be, should project completion continue to extend.

## TABLE 02. SUMMARY OF MOD 07 ESTIMATED COST

(September 01, 2018 through April 30, 2019)

Description/Labor Class	Labor Hours	Estimated Labor Cost		GRT		Amount	
Project Manager	992	\$	217,119.04	\$	9,047.35	\$	226,166
Assistant PM	1376	\$	134,737.92	\$	5,614.53	\$	140,352
Structural/Sr. Special Inspector	113	\$	18,504.80	\$	771.10	\$	19,276
Civil Inspector, RFI & Submittal Manager	734	\$	71,873.28	\$	2,994.96	\$	74,868
Civil/Special Inspector	1376	\$	127,183.68	\$	5,299.74	\$	132,483
Technical Administrative Support	1376	\$	114,042.88	\$	4,752.17	\$	118,795
Consumables						\$	108,056
Subconsultants					•	\$	125,600
Quality Assurance						\$	31,600

TOTAL \$ 977,197

## CLARIFICATIONS AND ASSUMPTIONS:

- 1. The T&M hourly rates used for our staffing positions are based on those established by Miguel C. Bordallo as reasonable and memorialized in email of July 19, 2018 from Tom Cruz (Exhibit 05). The attachment includes the spreadsheet prepared by Bordallo to establish these rates. We have provided a summary table of those rates to simplify review of this proposal and provide a single source document for future reference and review. (Exhibit 06)
- 2. In an effort to be completely transparent with GWA, a Detailed Spreadsheet has been provided in Exhibit 07, showing positions, rates, and hours carried in this estimate.
- 3. The estimated subconsultant services, quality assurance, and consumables associated with our monthly effort have been presented in Exhibit 08. The cost for these expenses is based on the costs incurred for the month of August 2018. Actual costs for consumables, reproduction, telephone & data, motor vehicles, subconsultants, and quality assurance will be provided on a T&M basis with appropriate supporting documentation as requested by Miguel C. Bordallo per email dated August 15, 2018 (Exhibit 09). GHD's corporate "2018 Fee Schedule" and "Chargeout List for Reproduction Supplies" may also be used in the event that receipts are not readily available. (Exhibit 10).
- 4. The CM's staffing shall generally consist of those positions shown in Table 01 & 02. The staffing effort shall be managed as an overall budget to allow appropriate flexibility for CM staffing to ramp up and down based on specific work activities that are in progress or work that has been completed. The CM shall coordinate the staffing based on the requirements for a particular day, week, or month.
- 5. The budget provided for anticipated quality assurance survey verification, compaction testing, concrete strength testing, and material testing assumes these services will be required through the end of the project. These costs will not be invoiced if they are not incurred. We anticipate these costs will not be exceeded.

- 6. The Contractor shall pay for overtime inspection services required or requested outside of the normal 40 hour work week. This requirement shall be strictly enforced and supported by GWA with payment being deducted from the Contractor's Progress Payment Applications as appropriate. This amount will then be distributed to GHD by GWA change order or by other acceptable terms to GHD and GWA.
- 7. GWA agrees to negotiate with GHD regarding change orders for additional construction phase services due to construction delays, additional work, or any other reason not due to the negligent acts of GHD until final completion of the project has been achieved.

We look forward to your favourable 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:

- Exhibit 01 GHD CM Contract Extension Past Aug 2018 Email
- Exhibit 02 SMCC July 2018 Summary Schedule
- Exhibit 03 Projected Project Completion by Monthly Percent Completes Graph
- Exhibit 04 ASRWWTP Weekly Labor Force Summary
- Exhibit 05 GHD Progress Billing April 01 Through April 30, 2018 Email
- Exhibit 06 GHD Project Time & Materials Rate Schedule
- Exhibit 07 MOD 07 Additional CM Service Positions, Rates, and Hours
- Exhibit 08 GHD Schedule of Estimated Expenses
- Exhibit 09 GHD Progress Billing April 01 Through April 30, 2018 Email
- Exhibit 10 GHD Corporate 2018 Fee Schedule and Chargeout List for Reproduction Supplies

### EXHIBIT 01: GHD CM Contract Extension Past Aug 2018 Email

#### **Bryan Ryley**

From: John Davis <jdavis@guamwaterworks.org>
Sent: Thursday, September 20, 2018 9:39 AM

Thursday, September 20, 2018 9:39

To: Bryan Ryley

Subject: RE: Agat-SR WWTP / GHD CM Contract >> Extension past Aug 2018 (Phone comm

17Sep18)>>PLEASE PROCEED ...PROPOSED CHANGE ODER NO. 6

Morning Bryan, Looks good.

Please proceed with putting prices to these manhour projections, include material costs, and submit as soon as you can. Please reference this action as "Proposed Change Order No. 6.

Thanks, jd

From: Bryan Ryley [mailto:Bryan.Ryley@ghd.com]
Sent: Wednesday, September 19, 2018 4:09 PM
To: John Davis <jdavis@guamwaterworks.org>

Subject: RE: Agat-SR WWTP / GHD CM Contract >> Extension past Aug 2018 (Phone comm 17Sep18)

John,

Please take a look at the below and give me the green light. Thanks, Bryan Ryley

From: Bryan Ryley

Sent: Monday, September 17, 2018 3:38 PM
To: 'John Davis ' < <u>idavis@guamwaterworks.org</u>>

Cc: Rylma Carino < rcarino@guamwaterworks.org >; Tom Cruz < thomas@guamwaterworks.org >; Paul Baron

<Paul.Baron@ghd.com>

Subject: Agat-SR WWTP / GHD CM Contract >> Extension past Aug 2018 (Phone comm 17Sep18)

John,

Based on our phone call this morning, we have prepared a staffing matrix to estimate the utilization of additional CM staffing services for **September 2018 through April 2019**.

- 1. We have assumed current effort for September 2018 through October 2018. Columns highlighted in yellow.
- 2. We have reduced the PM effort from 100% to 75% and the Civil Inspector RFI & Submittal Manager from 100% to 50% for **November 2018 through January 2019**. Columns highlighted in blue.
- 3. We have reduced the PM effort from 75% to 50% and the Civil Inspector, RFI & Submittal Manager from 50% to 25%, and the Sr. Special Inspector from 15% to 0% for **February 2019 through April 2019**. Columns highlighted in green.
- 4. At this point, our estimate is for budgetary purposes as discussed. As you know, the Contractor has not been able to provide and achievable scheduled completion milestones, so our actual effort is dependent on the Contractors ability to complete their work in a timely manner.

- 5. Our services are now being provided on a time and materials based project, we recommend that the effort to complete the work be estimated as conservatively as practicable to avoid additional trips to the CCU "well", while maintaining appropriate staffing effort to complete our work.
- 6. We would like to request that the estimated staffing effort be managed as an overall budgetary amount allowing the flexibility for CM staffing to ramp our staff up and down based on the specific work activities being performed.

Kindly review that table below and items discussed above. If they are consistent with your request and to your satisfaction, we will proceed with the preparation of MOD 07. We have also responded to your comments below in "blue" font.

Working Days Per Month	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19
Working Days Fer Month	22	23	22	21	23	20	21	22
Description/Labor Class								
Project Manager (B. Ryley)	100%	100%	75%	75%	75%	50%	50%	25%
Asst. Project Manager (S. Carbulido)	100%	100%	100%	100%	100%	100%	100%	100%
Structural/Sr.Special Inspector (A. Sutton)	15%	15%	15%	10%	5%	0%	0%	0%
Civil Inspector, RFI & Submittal Manager (J. Wu)	100%	100%	50%	50%	50%	25%	25%	25%
Civil Inspector/Structural (R. Miaco)	100%	100%	100%	100%	100%	100%	100%	100%
Technical Administrative Support (H. Cervania)	100%	100%	100%	100%	100%	100%	100%	100%

#### Thank you,

#### Bryan J. Ryley

**Construction Manager** 

#### GHD

T: 671 472-6792 | F: 671 477-6229 | M: 671 797-3336 | VOIP: 860132 | E: <u>bryan.ryley@qhd.com</u> 865 South Marine Corps Drive, Suite 202, Tamuning, Guam 96913 USA | www.ghd.com

#### WATER | ENERGY & RESOURCES | ENVIRONMENT | PROPERTY & BUILDINGS | TRANSPORTATION

Please consider our environment before printing this email

From: John Davis < idavis@guamwaterworks.org>
Sent: Monday, September 17, 2018 11:11 AM
To: Bryan Ryley < Bryan.Ryley@ghd.com>

Cc: Rylma Carino < rcarino@guamwaterworks.org >; Tom Cruz < thomas@guamwaterworks.org >; Paul Baron

<Paul.Baron@ghd.com>

Subject: Agat-SR WWTP / GHD CM Contract >> Extension past Aug 2018 (Phone comm 17Sep18)

Bryan,

To verify we are in agreement on the items we discussed today, please inform me if you take exception to any of the following points:

- GHD will prepare a fee proposal for Sep 18 thru April 19 by the end of this week (Sep 21)
   GHD: Agree.
- Fee proposal will show incremental reduction in fees after Oct to reflect decreasing contractor activity
   GHD: Agree.
- CCU approval of additional funding will not occur until next CCU meeting in October

GHD: Agree.

GWA requests GHD billing for months of June through Aug
 GHD: We are in the process of preparing June 2018 invoice and will have it submitted before the end of the week.

GHD May invoice has been forwarded to GWA-Finance
 GHD: Noted. Thank you.

Please notify me asap of any errors or omissions.

BR/jd



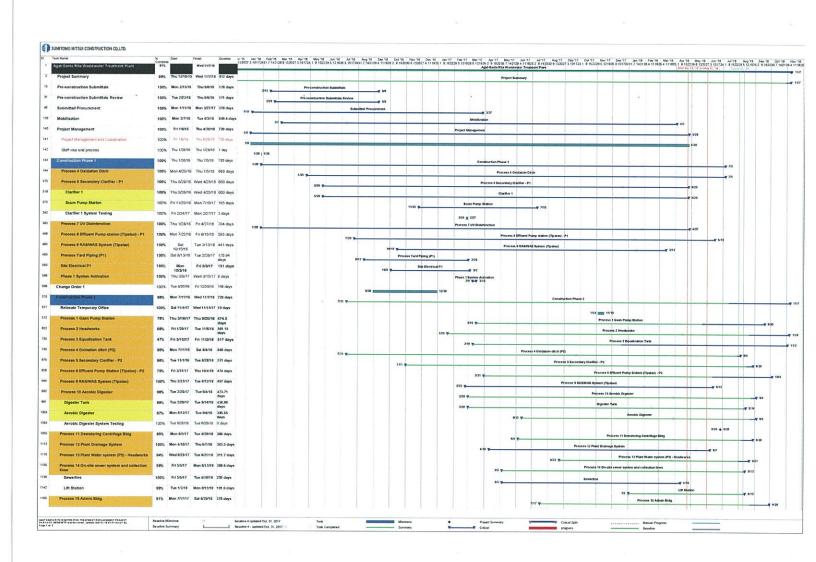
J. McArthur Davis, PE
Civil Engineering Supervisor
671-300-6041

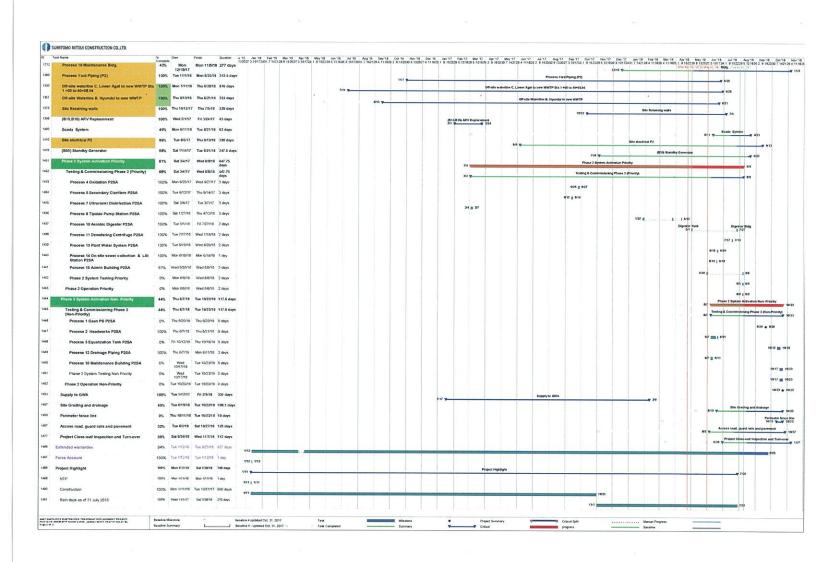
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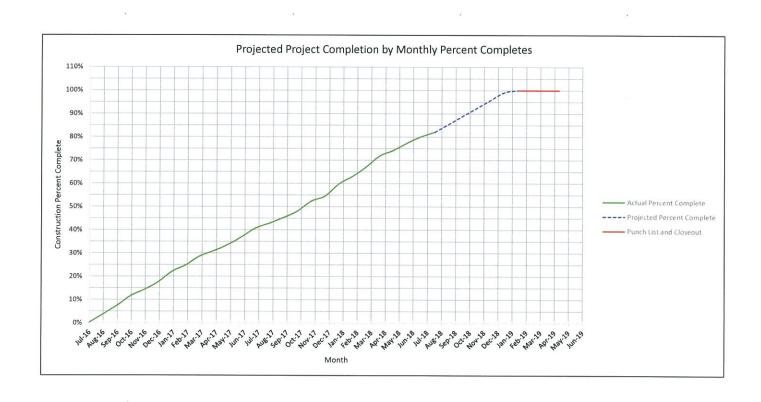
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### EXHIBIT 02: SMCC July 2018 Summary Schedule



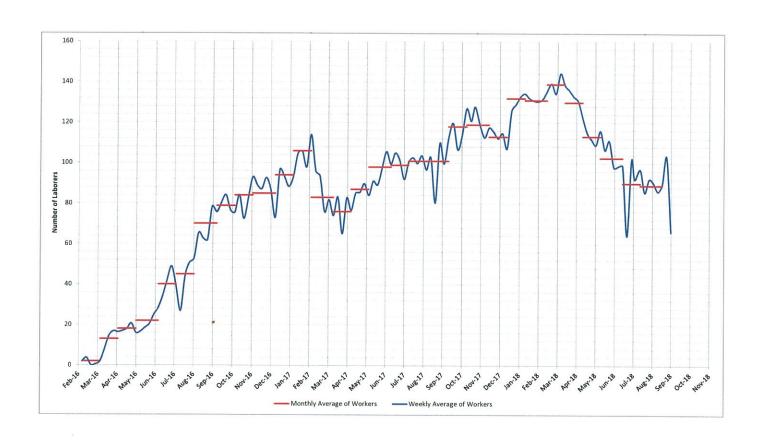


# EXHIBIT 03: Projected Project Completion by Monthly Percent Completes Graph



# EXHIBIT 04: ASRWWTP Weekly Labor Force Summary

## AGAT-SANTA RITA WWTP REPLACEMENT PROJECT WEEKLY LABOR FORCE SUMMARY



Note: Sundays and Holidays are not Included in this Graph

# EXHIBIT 05: GHD Progress Billing April 01 Through April 30, 2018 Email

#### **Bryan Ryley**

From:

Thomas Cruz <thomas@guamwaterworks.org>

Sent:

Thursday, July 19, 2018 2:39 PM

To:

'Miguel C Bordallo'; Paul Baron; 'John Davis '; Bryan Ryley

Cc:

Joe Heitzler; 'Kelly Clark'

Subject:

RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April

30, 2018)

**Attachments:** 

MCB OH Calcs 2018JUL13.xlsx

#### Paul,

Attached for your review and refence is a spreadsheet that calculates what GWA accepts for invoice rates for positions that are related to the above subject. I will work with my staff to get this official via a Change Order 4A. Additionally, GWA is amenable that you not make any adjustment to the invoice that is currently with GWA given your concern that this invoice is linked to your company's last fiscal year ending. GWA will expect though that subsequent invoices will follow the rates calculated and that your invoices will not exceed contract modification approval amounts.

We can definitely discuss further if you have any question. Please be advised GWA will be close July 20<sup>th</sup> in observance of Liberation Day.



# Thomas Cruz, P.E. Chief Engineer

(671) 300-6036

From: Miguel C Bordallo <mcbordallo@guamwaterworks.org>

**Sent:** Wednesday, July 18, 2018 5:37 PM

To: 'Paul Baron' <Paul.Baron@ghd.com>; 'John Davis ' <jdavis@guamwaterworks.org>; 'Bryan Ryley'

<Bryan.Ryley@ghd.com>

Cc: "Thomas Cruz" <thomas@guamwaterworks.org>; 'Joe Heitzler' <Joe.Heitzler@ghd.com>; 'Kelly Clark'

<koclark@guamwaterworks.org>

Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

Paul,

GWA will issue a Mod4A to clarify and address the acceptable OH&P for T&M invoices. As I understand it, Mod5 will follow and reflect the change in your rates with your new FY. Tom will be packaging this and will coordinate any issues related to your request at our last meeting.

Regards,

**MCB** 

From: Paul Baron < Paul.Baron@ghd.com > Sent: Wednesday, July 11, 2018 3:15 PM

To: Miguel C Bordallo <a href="mailto:mcbordallo@guamwaterworks.org">mcbordallo@guamwaterworks.org</a>; 'John Davis '<a href="mailto:jdavis@guamwaterworks.org">jdavis@guamwaterworks.org</a>; Bryan Ryley

#### <Bryan.Ryley@ghd.com>

Cc: "Thomas Cruz" <<a href="mailto:Clark">thomas@guamwaterworks.org</a>; Joe Heitzler <<a href="mailto:Joe.Heitzler@ghd.com">Joe.Heitzler@ghd.com</a>; 'Kelly Clark' <<a href="mailto:koclark@guamwaterworks.org">koclark@guamwaterworks.org</a>

Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

Here is blended direct for the positions, note July 1 was beginning of FY and raises become effective. Coming over now. Regards

Paul

s.	Rate Through 6/30/18		Effective 2018
1. Project Manager	\$ 72.98	\$	74.52
2. Structural/Special Inspector	\$ 55.00	\$	55.66
3. Civil Inspector/Structural	\$ 30.80	\$	31.47
4. Asst. Project Manager	\$ 32.68	\$	33.34
5. Civil Inspector	\$ 30.80	\$	31.47
6. Submittal/RFI Manager	\$ 27.20	\$	28.22

From: Miguel C Bordallo <a href="mailto:mcbordallo@guamwaterworks.org">mcbordallo@guamwaterworks.org</a>

Sent: Wednesday, 11 July 2018 1:31 PM

**To:** Paul Baron < <u>Paul.Baron@ghd.com</u>>; 'John Davis ' < <u>jdavis@guamwaterworks.org</u>>; Bryan Ryley < Bryan.Ryley@ghd.com>

 $\label{lem:cc: "Thomas Cruz" < $$ '$ thomas@guamwaterworks.org$ ', Joe Heitzler < $$ Joe.Heitzler@ghd.com$ ', 'Kelly Clark' < $$ clark@guamwaterworks.org$ ', 'Kelly Clark'$ 

Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

Paul,

Please provide direct hourly labor rates for the following individuals (April Invoice):

- 1. Bryan Ryley
- 2. Jeff Groom
- 3. Joseph Wu
- 4. Steven Carbullido
- 5. Ramon Calilung
- 6. Rodolfo Miaco
- 7. Heidi Cervania

In the alternate, please provide a direct hourly composite rate for the following positions (Original Fee Proposal):

- 1. Project Manager
- 2. Structural/Special Inspector
- 3. Civil Inspector/Structural
- 4. Asst. Project Manager
- 5. Civil Inspector
- 6. Submittal/RFI Manager

I have reviewed the audit provided and have what I believe to be an acceptable OH rate in hand, but want to calculate the hourly rates to evaluate against positions we are being invoiced for. Trying to expedite resolution on this matter and appreciate your patience.

Regards,

**MCB** 

From: Paul Baron < Paul.Baron@ghd.com > Sent: Monday, July 9, 2018 5:00 PM

To: John Davis < jdavis@guamwaterworks.org >; Bryan Ryley < Bryan.Ryley@ghd.com >

Cc: "Thomas Cruz" < thomas@guamwaterworks.org >; 'rcarino' < rcarino@guamwaterworks.org >; Steven Carbullido

<<u>Steven.Carbullido@ghd.com</u>>; Joe Heitzler <<u>Joe.Heitzler@ghd.com</u>>; 'Miguel C Bordallo'

<mcbordallo@guamwaterworks.org>

Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

I did meet with Miguel, I believe he has everything he requested from me to evaluate the issue. I believe Bryan is asking if you have everything that you requested below, which I believe you do but let us know.

Regards Paul

From: John Davis < jdavis@guamwaterworks.org>

Sent: Monday, 9 July 2018 4:56 PM

To: Bryan Ryley < Bryan.Ryley@ghd.com >; Paul Baron < Paul.Baron@ghd.com >

Cc: "Thomas Cruz" < <a href="mailto:thomas@guamwaterworks.org">thomas@guamwaterworks.org</a>; 'rcarino' < <a href="mailto:rcarino@guamwaterworks.org">rcarino@guamwaterworks.org</a>; Steven Carbullido

<<u>Steven.Carbullido@ghd.com</u>>; Joe Heitzler <<u>Joe.Heitzler@ghd.com</u>>; 'Miguel C Bordallo'

<mcbordallo@guamwaterworks.org>

Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

Bryan,

My understanding was that Mr. Baron intended to make an appeal to "...Miguel and upper management" (per June 6 email.) I have not been informed of the outcome of this appeal. Please clarify.

Thank you.



J. McArthur Davis, PE
Civil Engineering Supervisor
671-300-6041

From: Bryan Ryley [mailto:Bryan.Ryley@ghd.com]

**Sent:** Monday, July 09, 2018 9:43 AM

To: John Davis < jdavis@guamwaterworks.org >; Paul Baron < Paul.Baron@ghd.com >

Cc: "Thomas Cruz" < <a href="mailto:thomas@guamwaterworks.org">thomas@guamwaterworks.org</a>; 'rcarino' < <a href="mailto:rcarino@guamwaterworks.org">rcarino@guamwaterworks.org</a>; Steven Carbullido

<<u>Steven.Carbullido@ghd.com</u>>; Joe Heitzler <<u>Joe.Heitzler@ghd.com</u>>; 'Miguel C Bordallo'

#### <mcbordallo@guamwaterworks.org>

Subject: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

Mr. Davis.

Kindly advise the status for processing of Payment Application No. 31 for work completed April 01 through April 30, 2018.

#### Thank you,

#### **Bryan J. Ryley**

**Construction Manager** 

#### GHD

T: 671 472-6792 | F: 671 477-6229 | M: 671 797-3336 | VOIP: 860132 | E: <a href="mailto:bryan.ryley@ghd.com">bryan.ryley@ghd.com</a> 865 South Marine Corps Drive, Suite 202, Tamuning, Guam 96913 USA | <a href="https://www.ghd.com">www.ghd.com</a>

#### WATER | ENERGY & RESOURCES | ENVIRONMENT | PROPERTY & BUILDINGS | TRANSPORTATION

Please consider our environment before printing this email

From: Bryan Ryley

Sent: Friday, June 29, 2018 7:02 PM

To: John Davis < idavis@guamwaterworks.org >; Paul Baron < Paul.Baron@ghd.com >

Cc: "Thomas Cruz" < <a href="mailto:thomas@guamwaterworks.org">thomas@guamwaterworks.org</a>; 'rcarino' < <a href="mailto:rcarino@guamwaterworks.org">rcarino@guamwaterworks.org</a>; Steven Carbullido

<<u>Steven.Carbullido@ghd.com</u>>; Joe Heitzler <<u>Joe.Heitzler@ghd.com</u>>; 'Miguel C Bordallo'

<mcbordallo@guamwaterworks.org>

Subject: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018):Revised>>J DAVIS

**RESPONSE 29JUN18** 

Mr. Davis.

Please see attached.

#### Thank you,

#### Bryan J. Ryley

Construction Manager

#### GHD

T: 671 472-6792 | F: 671 477-6229 | M: 671 797-3336 | VOIP: 860132 | E: <u>bryan.ryley@ghd.com</u> 865 South Marine Corps Drive, Suite 202, Tamuning, Guam 96913 USA | <u>www.ghd.com</u>

#### WATER | ENERGY & RESOURCES | ENVIRONMENT | PROPERTY & BUILDINGS | TRANSPORTATION

Please consider our environment before printing this email

From: John Davis < jdavis@guamwaterworks.org>

Sent: Friday, June 29, 2018 3:22 PM

To: Bryan Ryley < Bryan.Ryley@ghd.com >; Paul Baron < Paul.Baron@ghd.com >

Cc: "Thomas Cruz" < <a href="mailto:thomas@guamwaterworks.org">thomas@guamwaterworks.org</a>; 'rcarino' < <a href="mailto:rcarino@guamwaterworks.org">rcarino@guamwaterworks.org</a>; Steven Carbullido

<<u>Steven.Carbullido@ghd.com</u>>; Joe Heitzler <<u>Joe.Heitzler@ghd.com</u>>; 'Miguel C Bordallo'

<mcbordallo@guamwaterworks.org>

**Subject:** RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018):Revised>>J DAVIS RESPONSE 29JUN18

Bryan,

Unfortunately, the approval of this invoice cannot be expeditious as the supporting paperwork/invoices are scattered through about 300 pages, and are not summarized in a fashion that can be readily verified. More importantly, **the overhead and profit** *per centage* on wages and expenses has not been established.

Kindly perform the following actions so that this invoice may be processed:

- Help establish an OH&P rate that is acceptable to GWA and GHD managers;
   GHD: Attached are our various standard labor rates. Pick the column you are most comfortable with.
- Identify the invoice as No. 31 (not no. 32);
   GHD: Noted and corrected.
- Summarize the hours for each person on a single sheet;
   GHD: The requested hours worked by each staff person were provided as the 11<sup>th</sup> sheet of the previously submitted payment application. We have also provided it as a separate attachment to this email.
- Summarize the expenses by itemizing each separate expenditure on a single sheet;
  GHD: All the expenses were provided with itemized summaries in the previously submitted payment application. To assist your review we have provided a single sheet summarizing all the expense, listed each expense in the table of contents, provided reference letter for each expense correlating to the "single sheet expense summary". In addition, we have also provided it as a separate attachment to this email. Also, hard copies of same were provided in the first submittal package.
- For future invoices, indicate the number of hours each day each employee charges to a specific task;
   GHD: Sure, we can provide the same "Labor Summary per Task" as provide in the previous application and attached.
- Several expense items were paid previously by GWA and will need to be omitted.
   GHD: Kindly identify the expenses you believe have been previously invoiced and we will review.

Thank you for your cooperation. John

GUAM WATERWORKS AUTHORITY

J. McArthur Davis, PE
Civil Engineering Supervisor
671-300-6041

From: Bryan Ryley [mailto:Bryan.Ryley@ghd.com]

**Sent:** Friday, June 22, 2018 7:56 PM

To: John Davis < jdavis@guamwaterworks.org>; Paul Baron < Paul.Baron@ghd.com>

Cc: "Thomas Cruz" < thomas@guamwaterworks.org >; 'rcarino' < rcarino@guamwaterworks.org >; Steven Carbullido

<<u>Steven.Carbullido@ghd.com</u>>; Joe Heitzler <<u>Joe.Heitzler@ghd.com</u>>; 'Miguel C Bordallo'

<mcbordallo@guamwaterworks.org>

Subject: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018):Revised

John,

Please revised April 2018 invoice for the Agat-Santa Rita WWTP Replacement Project. Thank you for your patients and support. We can meet if you would like to discuss the details. Otherwise, we look forward to your favorable and expeditious approval of this revised invoice. Please do not hesitate to contact me directly should you have any questions or concerns. Have a nice weekend.

#### Thank you,

#### **Bryan J. Ryley**

**Construction Manager** 

#### GHD

T: 671 472-6792 | F: 671 477-6229 | M: 671 797-3336 | VOIP: 860132 | E: bryan.ryley@ghd.com 865 South Marine Corps Drive, Suite 202, Tamuning, Guam 96913 USA | www.ghd.com

#### WATER | ENERGY & RESOURCES | ENVIRONMENT | PROPERTY & BUILDINGS | TRANSPORTATION

Please consider our environment before printing this email

From: John Davis < idavis@guamwaterworks.org>

Sent: Friday, June 22, 2018 6:02 PM

To: Paul Baron < Paul.Baron@ghd.com >; Bryan Ryley < Bryan.Ryley@ghd.com >

Cc: "Thomas Cruz" < thomas@guamwaterworks.org >; 'rcarino' < rcarino@guamwaterworks.org >; Steven Carbullido

<<u>Steven.Carbullido@ghd.com</u>>; Joe Heitzler <<u>Joe.Heitzler@ghd.com</u>>; 'Miguel C Bordallo'

<mcbordallo@guamwaterworks.org>

Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)::REJECTED

Paul, Bryan,

Has any progress been made on this issue?

Thanks, John

From: Paul Baron [mailto:Paul.Baron@ghd.com]

Sent: Wednesday, June 06, 2018 1:26 PM

To: John Davis < idavis@guamwaterworks.org>; Bryan Ryley < Bryan.Ryley@ghd.com>

Cc: "Thomas Cruz" < thomas@guamwaterworks.org >; 'rcarino' < rcarino@guamwaterworks.org >; Steven Carbullido

<<u>Steven.Carbullido@ghd.com</u>>; Joe Heitzler <<u>Joe.Heitzler@ghd.com</u>>; 'Miguel C Bordallo'

<mcbordallo@guamwaterworks.org>

Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)::REJECTED

Importance: High

John,

We are appealing your decision on this to Miguel and upper management.

Bryan

Please proceed accordingly to follow up on our side with legal and contracts as well to arrange for a meeting.

Regards

Paul

From: John Davis < jdavis@guamwaterworks.org>

**Sent:** Wednesday, 6 June 2018 1:22 PM **To:** Bryan Ryley < Bryan.Ryley@ghd.com>

Cc: "Thomas Cruz" < <a href="mailto:thomas@guamwaterworks.org">thomas@guamwaterworks.org</a>; rcarino@guamwaterworks.org</a>; Paul Baron</a> < <a href="mailto:paul.Baron@ghd.com">paul.Baron@ghd.com</a>; Steven Carbullido < <a href="mailto:steven.Carbullido@ghd.com">steven.Carbullido@ghd.com</a>; Joe Heitzler < <a href="mailto:joe.Heitzler@ghd.com">joe.Heitzler@ghd.com</a>;

'Miguel C Bordallo' < mcbordallo@guamwaterworks.org>

Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)::REJECTED

#### Hafa Adai Bryan,

We have unfortunately overlooked agreeing upon an OH&D markup for salaries. Since this contract is now on a Time and Materials basis, an agreed mark-up *per centage* for salaries and expenses must be established. The previous markup of approx. 200% for salaries can no longer be maintained. {Note that this 200% markup for overhead and profit now accounts for over \$2M in payments.} Also note that my position may be appealed to GWA's upper management.

Kindly also provide how much time that staff devotes to each SOW item. This is important to justify the need for six fulltime staff.

This issue can be included on today's monthly project meeting, or discussed at a separate meeting.

Thank you for your cooperation. John



GUAM WATERWORKS AUTHORITY

J. McArthur Davis, PE

Civil Engineering Supervisor

671-300-6041

From: Bryan Ryley [mailto:Bryan.Ryley@ghd.com]

**Sent:** Monday, June 04, 2018 3:20 PM

To: GWA - John Davis < idavis@guamwaterworks.org>

Cc: 'Thomas Cruz' (thomas@guamwaterworks.org) <thomas@guamwaterworks.org>; rcarino

<<u>rcarino@guamwaterworks.org</u>>; Paul Baron <<u>Paul.Baron@ghd.com</u>>; Steven Carbullido <<u>Steven.Carbullido@ghd.com</u>>;

Joe Heitzler < Joe. Heitzler @ghd.com >

Subject: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

June 4, 2018 Mr. John Davis, P.E. Guam Waterworks Authority Gloria B. Nelson Public Utilities Complex Route 15, Mangilao, Guam

Re: Agat WWTP Replacement Construction Management for Agat WWTP Replacement

#### Project No. S14-002-BND, GHD April 2018 Invoice No. 100786

Dear Mr. Davis,

Please find attached Invoice No. 100786 for CM Services from April 1, 2018 through April 30, 2018 in the amount of *Two Hundred Eight Thousand Nine Hundred Fifty-Five Dollars and 15/100 (\$208,955.15)*. This consists of \$141,007.50 in GHD labor, \$34,074.69 in expenses for April 2018, and \$23,425.50 in expenses related to the additional work for the Clearing and Grading Phase authorized under MOD 04. As agreed to with GWA, work performed during this period has been performed on a time and material basis and includes, but was not limited to, the following:

Project administration, implementation & maintenance of project controls, project correspondence, review and processing of submittals & shop drawings, payment request, conduct weekly progress meetings, review and process requests for information, general compliance monitoring, claims and disputes, maintain project records & document management, construction inspection and quality control monitoring.

We have itemized each of the SOW tasks performed by each staff member and sub consultants. As discussed with you previously, the tasks have not changed, just the duration for which our services were performed as this is driven directly by the Contractor's performance.

A hardcopy with appendices will be submitted to your office tomorrow. Please do not hesitate to contact me directly should you have any questions or concerns.

#### Thank you,

#### Bryan J. Ryley Construction Manager

#### GHD

T: 671 472-6792 | F: 671 477-6229 | M: 671 797-3336 | VOIP: 860132 | E: <a href="mailto:bryan.ryley@ghd.com">bryan.ryley@ghd.com</a> 865 South Marine Corps Drive, Suite 202, Tamuning, Guam 96913 USA | <a href="https://www.ghd.com">www.ghd.com</a>

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Attachments:

Invoice 97869, Detailed Spread Sheet, Monthly Progress Report

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Α.	GHD Audited OH			
	1 Total Indirect Expenses		\$	65,027,762
	2 Less FAR Unallowable Expenses		\$	(4,565,257)
	<ul> <li>a Salaries and Wage adjustments</li> </ul>		\$	(438,021)
	b Travel		\$	(1,322)
	c Bad Debts		\$ \$ \$ \$ \$ \$ \$ \$	55,491
	<ul> <li>d Marketing and Advertising</li> </ul>		\$	(277,019)
	e Entertainment		\$	(142,026)
	f Professional Fees		\$	(791,359)
	g Other expense adjustments		\$	(261,779)
	h Tax Expenses		\$	(2,199,437)
	i Interest Expense		\$	(602,075)
	j Facilities capital cost of money		\$	92,290
	3 Adjusted Total Indirect Expenses (1-2)		\$	60,462,505
	4 Direct Expenses		\$	36,155,013
	5 FAR Compliant OH (3 / 4)			167%
в.	Profit		_	10%
٥.	TOW.		_	10%
C.	GRT			4.1667%
D.	Invoice Rates (includes GRT) - Up to June 30th	Direct (\$/hr)		Loaded (\$/hr)
	1 Project Manager	\$72.98	\$	223
	2 Structural/Special Inspector	\$55.00	\$	168
	3 Civil Inspector/Structural	\$30.80	\$	94
	4 Asst. Project Manager	\$32.68	\$	100
	5 Civil Inspector	\$30.80	\$	94
	6 Submittal/RFI Manager	\$27.20	\$	83
E.	Invoice Rates (includes GRT) - After June 30th	Direct (\$/hr)		Loaded (\$/hr)
	1 Designs Manager	4-4	1 4	

1 Project Manager

5 Civil Inspector

2 Structural/Special Inspector

3 Civil Inspector/Structural

4 Asst. Project Manager

6 Submittal/RFI Manager

\$74.52 \$

\$55.66 \$

\$31.47 \$ \$33.34 \$ \$31.47 \$ \$28.22 \$ 228

170

96

102

96

86

. 01 001	nparison -
Load	ed (\$/hr) =
\$	221
\$	110
\$	121
\$	121
\$	101
\$	101

### EXHIBIT 06: GHD Project Time & Materials Rate Schedule

#### GHD - PROJECT TIME & MATERIALS RATE SCHEDULE

Project Name: Agat-Santa Rita Waste Water Treatment Plant Replacement

GHD Project Number: 11109000

Attachment:

of:

Prepared by: Bryan J. Ryley

Checked by:

: Paul K. Baron

Date:

С	D	E	F	G	Н	1
Category	Direct Hourly	GWA Loaded	GWA Loaded	GHD US West	Delta	Delta
	Rate	(\$/hr) w/o GRT	(\$/hr) w/o GRT	Standard Charge	(E - G)	(F - G)
		(Up to June 30th)	(After June 30th)	Rates w/o GRT	(Up to June 30th)	(After June 30th)
Project Manager	\$72.98	\$214.34	\$218.87	\$200.00	\$14.34	\$18.87
Asst. Project Manager	\$32.68	\$95.98	\$97.92	\$130.00	-\$34.02	-\$32.08
Structural/Special Inspector	\$55.00	\$161.54	\$163.47	\$234.00	-\$72.46	-\$70.53
Civil Inspector/RFI/Submittal	\$30.80	\$90.46	\$92.43	\$135.00	-\$44.54	-\$42.57
Civil/Special Inspector	\$30.80	\$90.46	\$92.43	\$130.00	-\$39.54	-\$37.57
Technical Administration	\$27.20	\$79.89	\$82.88	\$100.00	-\$20.11	-\$17.12

# EXHIBIT 07: MOD 07 Additional CM Service Positions, Rates, and Hours

## Agat-Santa Rita Waste Water Treatment Plant Repalcemeny Project - Phase II MOD 07 - Additional CM Services (September 01, 2018 through April 30, 2019)

Month		Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	Total
Working Days Per Month	1	20	23	22	21	23	20	21	22	43
Description/Labor Class	Rate									
		160	184	132	126	138	80	84	88	992
Project Manager	\$218.87	\$35,019	\$40,272	\$28,891	\$27,578	\$30,204	\$17,510	\$18,385	\$19,261	\$217,119
		160	184	176	168	184	160	168	176	1376
Assistant PM	\$97.92	\$15,667	\$18,017	\$17,234	\$16,451	\$18,017	\$15,667	\$16,451	\$17,234	\$134,738
		24	28	26	17	18	0	0	0	113
Structural/Sr. Special Inspector	\$163.47	\$3,923	\$4,512	\$4,316	\$2,746	\$3,008	\$0	\$0	\$0	\$18,505
		160	184	88	84	92	40	42	44	734
Civil Inspector, RFI & Submittal Manager	\$97.92	\$15,667	\$18,017	\$8,617	\$8,225	\$9,009	\$3,917	\$4,113	\$4,308	\$71,873
		160	184	176	168	184	160	168	176	1376
Civil/Special Inspector	\$92.43	\$14,789	\$17,007	\$16,268	\$15,528	\$17,007	\$14,789	\$15,528	\$16,268	\$127,184
		160	184	176	168	184	160	168	176	1376
Technical Administrative Support	\$82.88	\$13,261	\$15,250	\$14,587	\$13,924	\$15,250	\$13,261	\$13,924	\$14,587	\$114,043

TOTAL (hr) TOTAL GHD LABOR ESTIMATE

824 948 \$ 98,326 \$ 113,075 \$ 89,912 \$ 84,452 \$ 92,495 \$ 65,143 \$ 68,400 \$ 71,658

774

731

800

600

5967 \$683,462

### EXHIBIT 08: GHD Schedule of Estimated Expenses

Project N	GHD - SCHEDULE OF I			or come a			
	ame: Agat-Santa Rita Waste Water Treatment Plant Replacement ject Number: 11109000		Attachn				
	by: Bryan J. Ryley		CI I	of:		-	111 5
repareu	by. Bryan J. Ryley		Checked			Pa	ul K. Baror
			L	ate:			
ITEM NO	. DESCRIPTION	QUANTITIY UNIT PR	ICE AMOU	NT	MARKUP	Т	TOTAL
1.0	SITE CONSUMABLE COST					\$	500.00
1.1	Copy Express Prints					\$	100.00
1.2	Cost-U-Less					\$	100.00
1.3	Home Depot					\$	100.00
1.4	National Office Supplies					\$	100.00
1.5	Payless Supermarket					\$	
							100.00
2.0	REPRODUCTION CONSUMABLE COST					\$	1,090.00
2.1	<b>DPW Monthly Special Inspection Report</b>					\$	120.00
2.2	Monthly GWA Manager's Meeting Report					\$	200.00
2.3	ASRWWTP Weekly Progress Meetings	*				\$	320.00
2.4	Other					\$	450.00
3.0	TELEPHONE & DATA CONSUMABLE COST					\$	446.00
3.1	Telephone Expense					\$	286.00
3.2	Site Internet Expense					\$	160.00
4.0	MOTOR VEHICLE CONSUMABLE COST					\$	4,850.00
4.1	2015 Nissan Rogue (TO2715)					\$	2,100.00
4.2	2017 GMC Canyon (YN4682)					\$	2,300.00
4.3	GHD Joe W. POV Mileage					\$	290.00
4.4	GHD Steven C. POV Mileage					\$	160.00
5.0	EQUIPMENT CONSUMABLE COST					\$	6,113.00
5.1	Site Camera Expense (Earthcam)					\$	2,633.00
1	Robotic Camera Software Support & Archiving						_,
2	20GB monthly data						
3	Earthcam - Construction Cam Lite HD						
5.2	Site Camera Expense (Workzone)					\$	1,886.00
1	Work Zone Cam - 8MP Fully Hosted Service						
2	20GB monthly data						
3	Workzone - 18 Megapixel SLR Camera System						
5.3	Kawasaki Mule 4010 trans 4x4					\$	1,450.00
5.4	Drone Expense					\$	144.00
6.0	SUBCONSULTANT COST					\$	15,700.00
6.1	LD Matson					\$	2,700.00
6.2	Wixon & Associates					\$	13,000.00
7.0	QUALITY ASSURANCE COST					\$	3,950.00
7.1	QA Survey - Guam Surveyor, LLC					\$	2,000.00
7.2	QA Compaction - Geo-Engineering & Testing, Inc.					\$	750.00
7.3	QA Concrete - Geo-Engineering & Testing, Inc.					\$	1,200.00

**GRAND TOTAL** 

\$ 32,649.00

### EXHIBIT 09: GHD Progress Billing April 01 Through April 30, 2018 Email

#### **Bryan Ryley**

From:

Paul Baron

Sent:

Friday, August 17, 2018 6:18 AM

To:

Miguel C Bordallo; 'Kelly Clark'; 'Thomas Cruz'

Cc:

'John Davis'; Bryan Ryley; Joe Heitzler; Peggy DeZurik

Subject:

RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April

30, 2018)

Importance:

High

#### Miguel,

Thanks for the follow up. As you know, this is an audited rate prepared by a licensed accounting firm meeting FARS standards, which was intended to avoid issues like this but I will defer to your request.

From my perspective I thought we were giving GWA a deal but if you want us to account for it manually we will. Note, the typical field costs for consumables is closer to \$11/hr, I am not sure exactly where the real costs may fall but it is quite possible that it will exceed the \$4.38/hr when we track it manually.

We will follow up with the revision to document this for the expensable items along with the other expenses we are carrying (subs, QA testing etc.) that still needs to be formally documented in the mod. We have over two months of invoices that have been on hold due to this and we really need to get them processed.

#### Thanks and Regards

Paul

From: Miguel C Bordallo <mcbordallo@guamwaterworks.org>

Sent: Wednesday, 15 August 2018 3:49 PM

To: Paul Baron <Paul.Baron@ghd.com>; 'Kelly Clark' <koclark@guamwaterworks.org>; 'Thomas Cruz'

<thomas@guamwaterworks.org>

Cc: 'John Davis' <jdavis@guamwaterworks.org>; Bryan Ryley <Bryan.Ryley@ghd.com>; Joe Heitzler

<Joe.Heitzler@ghd.com>; Peggy DeZurik <Peggy.DeZurik@ghd.com>

Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

Paul,

Based on the information provided, GHDs contention is that for each hour one of your employees works at the project site, that person is burning through \$4.38 of consumables This includes "all printing, phone, fax, internet, and other consumables for GHD."

For the four positions other than the PM working full time on our project, that is about \$2800/month on consumables, which represents 5% of total loaded labor costs for those 4 positions, or 14% of total direct labor costs for those 4 people.

That figure appears excessive from my perspective, especially at this stage of the project. However, GWA does not object for consumables to be billed as a T&M expenses with the proper documentation.

MCB

From: Paul Baron < Paul.Baron@ghd.com > Sent: Monday, August 6, 2018 6:56 PM

To: Miguel C Bordallo <a href="mailto:mcbordallo@guamwaterworks.org">mcbordallo@guamwaterworks.org</a>; 'Kelly Clark' <a href="mailto:koclark@guamwaterworks.org">koclark@guamwaterworks.org</a>; 'Thomas Cruz'

<thomas@guamwaterworks.org>

Cc: 'John Davis' < jdavis@guamwaterworks.org>; Bryan Ryley < Bryan.Ryley@ghd.com>; Joe Heitzler

<<u>Joe.Heitzler@ghd.com</u>>; Peggy DeZurik <<u>Peggy.DeZurik@ghd.com</u>>

Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

Let me know if you have had a chance to look at this.

Regards Paul

From: Paul Baron

Sent: Thursday, 2 August 2018 11:56 AM

To: 'Miguel C Bordallo' < mcbordallo@guamwaterworks.org>; 'Kelly Clark' < koclark@guamwaterworks.org>; 'Thomas

Cruz' < thomas@guamwaterworks.org>

Cc: 'John Davis' < idavis@guamwaterworks.org>; Bryan Ryley < Bryan.Ryley@ghd.com>; Joe Heitzler

<<u>Joe.Heitzler@ghd.com</u>>; Peggy DeZurik <<u>Peggy.DeZurik@ghd.com</u>>

Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

#### Miguel,

I Just got the feedback from our accounting:

- 1. All jobs bear the cost of the consumables, and for every hour worked (on any job) we transfer \$4.38 out of overhead. If the cost recovery only accounted for projects where the consumables was paid by the client (for instance, projects where we get a higher labor rate per hour but don't invoice for consumables) the overhead rate would be higher.
- 2. The direct amount described in the second highlighted segment is \$4.38 which is for office overhead. Thus, the standard \$6 per hour includes a markup on the \$4.38. Note this is for office overhead, field overhead is closer to \$11 per hour but we do not have this audited yet.

Based on the above can we get the \$4.38?

Let me know. I have copied Peggy Dezurick our Finance Manager who can answer any additional questions. Regards
Paul

From: Miguel C Bordallo < mcbordallo@guamwaterworks.org >

Sent: Wednesday, 1 August 2018 11:49 AM

To: Paul Baron < Paul.Baron@ghd.com >; 'Kelly Clark' < koclark@guamwaterworks.org >; 'Thomas Cruz'

<thomas@guamwaterworks.org>

Cc: 'John Davis' <<u>jdavis@guamwaterworks.org</u>>; Bryan Ryley <<u>Bryan.Ryley@ghd.com</u>>; Joe Heitzler

< Joe. Heitzler@ghd.com>

Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

#### Questions:

The information below reads, "These costs are shown as a reduction to the indirect cost pool and are consistently charged to contracts whether or not such charges are reimbursed under the contract. Additionally the company records a reduction to the indirect cost pool based on a standard consumable rate for each direct labor hour charged to the project when allowed by the contract with the client."

- 1. Does the first highlighted segment mean that if GWA agrees to the hourly consumables charge, but other clients do not agree, that GWA is "subsidizing" the consumables for the other client?
- 2. Is the standard consumable rate described in the second highlighted segment, which is deducted from the indirect cost pool, the same as the consumable rate which is proposed to be charged to GWA?

From: Paul Baron < Paul.Baron@ghd.com > Sent: Wednesday, August 1, 2018 11:28 AM

To: Kelly Clark < koclark@guamwaterworks.org >; 'Miguel C Bordallo' < mcbordallo@guamwaterworks.org >; 'Thomas Cruz' < thomas@guamwaterworks.org >

**Cc:** 'John Davis' < <u>jdavis@guamwaterworks.org</u>>; Bryan Ryley < <u>Bryan.Ryley@ghd.com</u>>; Joe Heitzler < Joe.Heitzler@ghd.com>

Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

Thanks. We will follow the 4.167% for the GRT. I have sent Miguel under separate cover our full audit with supplemental information regarding the consumable (sorry I just got a full copy of this myself). Below is an excerpt from the audit regarding our consumable charge. The consumables dollars are pulled out of our overhead (see the clip below) and transferred to direct costs. If we didn't use consumables our overhead rate would be higher. GHD has implemented a system of billing for telephone calls, photocopies, blue prints, etc. in the aggregate, on a per hour basis. Each year the total costs of phone calls, photocopies, faxes, company cars, and other project related in-house direct costs are compiled from our general ledger. The total is then divided by the number of hours worked during the same period. By dividing the total project-related direct in-house costs (ODC's) by the number of hours worked, both direct and indirect, we arrive at an average hourly cost to provide these services to our clients. Our subsequent analysis has proved this approach to be cost effective for our firm because we are not spending time logging and entering each of these individual activities – and cost effective for our clients as well. This calculation has been audited by DCAA, Cal Trans, and other government agencies, and has been approved by all.

Let me know your thoughts.

Regards

Paul

manuag and aurenang	E 6 1 9 1 1 1 1
Entertainment	142,026
Professional fees	1,994,699
Dues and subscriptions	222,625
Other expenses	909,146
Direct cost credit (Note 1)	(1,452,051)

<u>Direct cost credit</u> - Direct cost credit represents the charge to contracts for non-salary direct expenses including computer costs, CADD, reproduction, and equipment charges that were initially charged to the indirect cost pool. Charges are based on actual usage records times standard cost per usage. These costs are shown as a reduction to the indirect cost pool and are consistently charged to contracts whether or not such costs are reimbursed under the contract. Additionally, the Company records a reduction to the indirect cost pool based on a standard consumable rate for each direct labor hour charged to the project when allowed by the contract with the client.

From: Kelly Clark < koclark@guamwaterworks.org >

Sent: Tuesday, 31 July 2018 11:24 AM

 $\textbf{To: 'Miguel C Bordallo} \\ < \underline{mcbordallo} \\ \underline{@guamwaterworks.org} \\ >; \\ \textbf{Paul Baron} \\ < \underline{Paul.Baron} \\ \underline{@ghd.com} \\ >; \\ \textbf{'Thomas Cruz'} \\ \\ >; \\ \textbf{'Thomas Cruz'} \\ >; \\ \textbf{'Thomas Cruz'}$ 

<thomas@guamwaterworks.org>

 $\textbf{Cc: 'John Davis'} < \underline{\underline{idavis@guamwaterworks.org}}; \textbf{Bryan Ryley} < \underline{\underline{Bryan.Ryley@ghd.com}}; \textbf{Joe Heitzler}$ 

< Joe. Heitzler@ghd.com>

Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

GRT applicability is prospective from the date the Gov signed the bill. Any bids opened before that date are not subject to the increase.

KC



#### Put respetu,

Kelly O. Clark General Counsel Guam Waterworks Authority Gloria B. Nelson Public Service Building 688 Route 15 Mangilao, Guam 96913

Telephone No.: (671) 300-6853 cell: 671-480-4224 E-mail address: koclark@guamwaterworks.org

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From: Miguel C Bordallo <a href="mailto:mcbordallo@guamwaterworks.org">mcbordallo@guamwaterworks.org</a>

Sent: Tuesday, July 31, 2018 9:23 AM

To: 'Paul Baron' < Paul. Baron@ghd.com'>; 'Thomas Cruz' < thomas@guamwaterworks.org'>

Cc: 'John Davis' < idavis@guamwaterworks.org >; 'Bryan Ryley' < Bryan.Ryley@ghd.com >; 'Joe Heitzler'

<Joe.Heitzler@ghd.com>; 'Kelly Clark' <koclark@guamwaterworks.org>

Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

Paul,

No increase in GRT is needed. My understanding is that the increase is not applicable to contracts entered into prior to the effective date of the increase. Please double-check this.

Please provide detail on how the \$6/hr consumable charge was calculated prior to our agreeing to the charge.

**MCB** 

From: Paul Baron < Paul.Baron@ghd.com > Sent: Monday, July 30, 2018 3:33 PM

To: Thomas Cruz < thomas@guamwaterworks.org>

Subject: Re: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

Tom

Thanks for sending us the proposed rates. Although we were hoping for a little bit higher rates, we understand the current situation of project funding, and agree to the proposed mod. The following are a few clarifications that we would request GWA to consider:

- 1. We will separate out the GRT in the rates to get the "new billable rates" for invoicing in our system and then we'll add the GRT onto the total invoice amount. This won't change the net total GHD labor cost GWA proposed.
- 2. We should increase the GRT from 4.167% to 5.263% as it has been increased by the Government of Guam.
- 3. Based on our meeting with Miguel, we will also invoice for our incurred expenses (QA Services, monthly safety inspections, Site Camera's, Scheduler, Electrical Special Inspection, etc.). In addition we are requesting GWAs consideration to include the \$6 per hour consumable charge for our labor which covers all printing, phone, fax, internet, and other consumables for GHD. I don't think we discussed the consumable charge with Miguel but it is part of the audit that was used to determine the rates.

Let us know if this is acceptable as we would like to proceed with preparation and submittal of our May and June 2018 invoicing.

Thank you,

Regards

Paul

On Jul 18, 2018, at 6:40 PM, Thomas Cruz < thomas@guamwaterworks.org > wrote:

Paul,

Attached for your review and refence is a spreadsheet that calculates what GWA accepts for invoice rates for positions that are related to the above subject. I will work with my staff to get this official via a Change Order 4A. Additionally, GWA is amenable that you not make any adjustment to the invoice that is currently with GWA given your concern that this invoice is linked to your company's last fiscal year ending. GWA will expect though that subsequent invoices will follow the rates calculated and that your invoices will not exceed contract modification approval amounts.

We can definitely discuss further if you have any question. Please be advised GWA will be close July 20<sup>th</sup> in observance of Liberation Day.

<image001.jpg>

Thomas Cruz, P.E. Chief Engineer (671) 300-6036

From: Miguel C Bordallo < mcbordallo@guamwaterworks.org >

Sent: Wednesday, July 18, 2018 5:37 PM

To: 'Paul Baron' < Paul.Baron@ghd.com'>; 'John Davis ' < jdavis@guamwaterworks.org'>; 'Bryan Ryley'

<Bryan.Ryley@ghd.com>

Cc: "Thomas Cruz" < <a href="mailto:thomas@guamwaterworks.org">thomas@guamwaterworks.org</a>; 'Joe Heitzler' < <a href="mailto:Joe.Heitzler@ghd.com">Joe.Heitzler@ghd.com</a>; 'Kelly Clark' < <a href="mailto:koclark@guamwaterworks.org">koclark@guamwaterworks.org</a>

Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

Paul,

GWA will issue a Mod4A to clarify and address the acceptable OH&P for T&M invoices. As I understand it, Mod5 will follow and reflect the change in your rates with your new FY. Tom will be packaging this and will coordinate any issues related to your request at our last meeting.

Regards,

**MCB** 

From: Paul Baron < <a href="mailto:Paul.Baron@ghd.com">Paul.Baron@ghd.com</a>>
Sent: Wednesday, July 11, 2018 3:15 PM

**To:** Miguel C Bordallo <a href="mailto:mcbordallo@guamwaterworks.org">mcbordallo@guamwaterworks.org</a>; 'John Davis '<a href="mailto:diguamwaterworks.org">davis@guamwaterworks.org</a>; Bryan Ryley <a href="mailto:Bryan.Ryley@ghd.com">Bryan.Ryley@ghd.com</a>>

**Cc:** "Thomas Cruz" < <a href="mailto:thomas@guamwaterworks.org">thomas@guamwaterworks.org</a>; Joe Heitzler < <a href="mailto:Joe.Heitzler@ghd.com">Joe.Heitzler@ghd.com</a>; 'Kelly Clark' < <a href="mailto:koclark@guamwaterworks.org">koclark@guamwaterworks.org</a>

Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

Here is blended direct for the positions, note July 1 was beginning of FY and raises become effective. Coming over now.

Regards Paul

,	Rate Through 6/30/18		Effective 2018
1. Project Manager	\$ 72.98	\$	74.52
2. Structural/Special Inspector	\$ 55.00	\$	55.66
3. Civil Inspector/Structural	\$ 30.80	\$	31.47
4. Asst. Project Manager	\$ 32.68	\$	33.34
5. Civil Inspector	\$ 30.80	\$	31.47
6. Submittal/RFI Manager	\$ 27.20	\$	28.22

From: Miguel C Bordallo < mcbordallo@guamwaterworks.org >

Sent: Wednesday, 11 July 2018 1:31 PM

**To:** Paul Baron < <u>Paul.Baron@ghd.com</u>>; 'John Davis ' < <u>jdavis@guamwaterworks.org</u>>; Bryan Ryley < <u>Bryan.Ryley@ghd.com</u>>

**Cc:** "Thomas Cruz" < <a href="mailto:thomas@guamwaterworks.org">thomas@guamwaterworks.org</a>; Joe Heitzler < <a href="mailto:Joe.Heitzler@ghd.com">Joe.Heitzler@ghd.com</a>; 'Kelly Clark' < <a href="mailto:koclark@guamwaterworks.org">koclark@guamwaterworks.org</a>

Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

Paul,

Please provide direct hourly labor rates for the following individuals (April Invoice):

- 1. Bryan Ryley
- 2. Jeff Groom
- 3. Joseph Wu
- 4. Steven Carbullido
- 5. Ramon Calilung
- 6. Rodolfo Miaco
- 7. Heidi Cervania

In the alternate, please provide a direct hourly composite rate for the following positions (Original Fee Proposal):

- 1. Project Manager
- 2. Structural/Special Inspector
- 3. Civil Inspector/Structural
- 4. Asst. Project Manager
- 5. Civil Inspector
- 6. Submittal/RFI Manager

I have reviewed the audit provided and have what I believe to be an acceptable OH rate in hand, but want to calculate the hourly rates to evaluate against positions we are being invoiced for. Trying to expedite resolution on this matter and appreciate your patience.

Regards,

MCB

From: Paul Baron < Paul.Baron@ghd.com >

Sent: Monday, July 9, 2018 5:00 PM

To: John Davis < jdavis@guamwaterworks.org >; Bryan Ryley < Bryan.Ryley@ghd.com >

Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

I did meet with Miguel, I believe he has everything he requested from me to evaluate the issue. I believe Bryan is asking if you have everything that you requested below, which I believe you do but let us know. Regards

Paul

From: John Davis < jdavis@guamwaterworks.org>

**Sent:** Monday, 9 July 2018 4:56 PM

To: Bryan Ryley < Bryan.Ryley@ghd.com >; Paul Baron < Paul.Baron@ghd.com >

<mcbordallo@guamwaterworks.org>

Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

Bryan,

My understanding was that Mr. Baron intended to make an appeal to "...Miguel and upper management" (per June 6 email.) I have not been informed of the outcome of this appeal. Please clarify.

Thank you.

<image004.png>

*J. McArthur Davis, PE*Civil Engineering Supervisor
671-300-6041

From: Bryan Ryley [mailto:Bryan.Ryley@ghd.com]

Sent: Monday, July 09, 2018 9:43 AM

To: John Davis < jdavis@guamwaterworks.org >; Paul Baron < Paul.Baron@ghd.com >

**Cc:** "Thomas Cruz" < <a href="mailto:thomas@guamwaterworks.org">thomas@guamwaterworks.org</a>; 'rcarino' < <a href="mailto:rcarino:trarino:guamwaterworks.org">rcarino:trarino:guamwaterworks.org</a>; Steven Carbullido: <a href="mailto:thomas@guamwaterworks.org">thomas@guamwaterworks.org</a>; Joe Heitzler < <a href="mailto:Joe.Heitzler@ghd.com">Joe.Heitzler@ghd.com</a>; 'Miguel C Bordallo' <a href="mailto:mcbordallo:mcbordallo:guamwaterworks.org">mcbordallo:mcbordallo:guamwaterworks.org</a>; Joe Heitzler < <a href="mailto:souther-align:thomasguamwaterworks.org">Joe Heitzler</a> <a

Subject: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

Mr. Davis,

Kindly advise the status for processing of Payment Application No. 31 for work completed April 01 through April 30, 2018.

## Thank you,

#### Bryan J. Ryley

**Construction Manager** 

#### GHD

T: 671 472-6792 | F: 671 477-6229 | M: 671 797-3336 | VOIP: 860132 | E: <a href="mailto:bryan.ryley@ghd.com">bryan.ryley@ghd.com</a> 865 South Marine Corps Drive, Suite 202, Tamuning, Guam 96913 USA | <a href="https://www.ghd.com">www.ghd.com</a>

## WATER | ENERGY & RESOURCES | ENVIRONMENT | PROPERTY & BUILDINGS | TRANSPORTATION

Please consider our environment before printing this email

From: Bryan Ryley

**Sent:** Friday, June 29, 2018 7:02 PM

**To:** John Davis < <u>idavis@guamwaterworks.org</u>>; Paul Baron < <u>Paul.Baron@ghd.com</u>>

Cc: "Thomas Cruz" < <a href="mailto:thomas@guamwaterworks.org">thomas@guamwaterworks.org</a>; 'rcarino' < <a href="mailto:rcarino@guamwaterworks.org">rcarino@guamwaterworks.org</a>; Steven

Carbullido <<u>Steven.Carbullido@ghd.com</u>>; Joe Heitzler <<u>Joe.Heitzler@ghd.com</u>>; 'Miguel C Bordallo' <<u>mcbordallo@guamwaterworks.org</u>>

**Subject:** Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018):Revised>>J DAVIS RESPONSE 29JUN18

Mr. Davis.

Please see attached.

Thank you,

**Bryan J. Ryley Construction Manager** 

#### GHD

T: 671 472-6792 | F: 671 477-6229 | M: 671 797-3336 | VOIP: 860132 | E: <a href="mailto:bryan.ryley@ghd.com">bryan.ryley@ghd.com</a> 865 South Marine Corps Drive, Suite 202, Tamuning, Guam 96913 USA | <a href="mailto:www.ghd.com">www.ghd.com</a>

#### WATER | ENERGY & RESOURCES | ENVIRONMENT | PROPERTY & BUILDINGS | TRANSPORTATION

Please consider our environment before printing this email

**From:** John Davis < jdavis@guamwaterworks.org>

Sent: Friday, June 29, 2018 3:22 PM

To: Bryan Ryley < Bryan.Ryley@ghd.com >; Paul Baron < Paul.Baron@ghd.com >

**Subject:** RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018):Revised>>J DAVIS RESPONSE 29JUN18

Bryan,

Unfortunately, the approval of this invoice cannot be expeditious as the supporting paperwork/invoices are scattered through about 300 pages, and are not summarized in a fashion that can be readily verified. More importantly, the overhead and profit per centage on wages and expenses has not been established.

Kindly perform the following actions so that this invoice may be processed:

- Help establish an OH&P rate that is acceptable to GWA and GHD managers;
   GHD: Attached are our various standard labor rates. Pick the column you are most comfortable with.
- Identify the invoice as No. 31 (not no. 32);
   GHD: Noted and corrected.
- Summarize the hours for each person on a single sheet;
   GHD: The requested hours worked by each staff person were provided as the 11<sup>th</sup> sheet of the previously submitted payment application. We have also provided it as a separate attachment to this email.
- Summarize the expenses by itemizing each separate expenditure on a single sheet;

GHD: All the expenses were provided with itemized summaries in the previously submitted payment application. To assist your review we have provided a single sheet summarizing all the expense, listed each expense in the table of contents, provided reference letter for each expense correlating to the "single sheet expense summary". In addition, we have also provided it as a separate attachment to this email. Also, hard copies of same were provided in the first submittal package.

- For future invoices, indicate the number of hours each day each employee charges to a specific task;
   GHD: Sure, we can provide the same "Labor Summary per Task" as provide in the previous application and attached.
- Several expense items were paid previously by GWA and will need to be omitted.
   GHD: Kindly identify the expenses you believe have been previously invoiced and we will review.

Thank you for your cooperation. John

<image004.png>

J. McArthur Davis, PE
Civil Engineering Supervisor
671-300-6041

From: Bryan Ryley [mailto:Bryan.Ryley@ghd.com]

**Sent:** Friday, June 22, 2018 7:56 PM

To: John Davis <<u>jdavis@guamwaterworks.org</u>>; Paul Baron <Paul.Baron@ghd.com>

**Cc:** "Thomas Cruz" < <a href="mailto:thomas@guamwaterworks.org">thomas@guamwaterworks.org</a>; 'rcarino' < <a href="mailto:rcarino:guamwaterworks.org">rcarino: guamwaterworks.org</a>; Steven Carbullido: <a href="mailto:decom">Steven.Carbullido: guamwaterworks.org</a>; 'Joe Heitzler < <a href="mailto:Joe.Heitzler: aghd.com">Joe.Heitzler: aghd.com</a>; 'Miguel C Bordallo' <a href="mailto:mcbordallo:guamwaterworks.org">mcbordallo: guamwaterworks.org</a>; 'Joe Heitzler < <a href="mailto:Joe.Heitzler: aghd.com">Joe.Heitzler: aghd.com</a>; 'Miguel C Bordallo' <a href="mailto:mcbordallo:guamwaterworks.org">mcbordallo: guamwaterworks.org</a>;

**Subject:** Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018):Revised

John,

Please revised April 2018 invoice for the Agat-Santa Rita WWTP Replacement Project. Thank you for your patients and support. We can meet if you would like to discuss the details. Otherwise, we look forward to your favorable and expeditious approval of this revised invoice. Please do not hesitate to contact me directly should you have any questions or concerns. Have a nice weekend.

## Thank you,

**Bryan J. Ryley Construction Manager** 

GHD

T: 671 472-6792 | F: 671 477-6229 | M: 671 797-3336 | VOIP: 860132 | E: bryan.ryley@ghd.com 865 South Marine Corps Drive, Suite 202, Tamuning, Guam 96913 USA | www.ghd.com

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From: John Davis < jdavis@guamwaterworks.org>

Sent: Friday, June 22, 2018 6:02 PM

To: Paul Baron < Paul.Baron@ghd.com >; Bryan Ryley < Bryan.Ryley@ghd.com >

Cc: "Thomas Cruz" < <a href="mailto:thomas@guamwaterworks.org">thomas@guamwaterworks.org</a>; 'rcarino' < <a href="mailto:rcarino@guamwaterworks.org">rcarino@guamwaterworks.org</a>; Steven Carbullido < Steven. Carbullido @ghd.com >; Joe Heitzler < Joe. Heitzler @ghd.com >; 'Miguel C Bordallo' <mcbordallo@guamwaterworks.org>

Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)::REJECTED

Paul, Bryan,

Has any progress been made on this issue?

Thanks, John

From: Paul Baron [mailto:Paul.Baron@ghd.com]

Sent: Wednesday, June 06, 2018 1:26 PM To: John Davis < jdavis@guamwaterworks.org>; Bryan Ryley < Bryan.Ryley@ghd.com>

Cc: "Thomas Cruz" < thomas@guamwaterworks.org >; 'rcarino' < rcarino@guamwaterworks.org >; Steven Carbullido <<u>Steven.Carbullido@ghd.com</u>>; Joe Heitzler <<u>Joe.Heitzler@ghd.com</u>>; 'Miguel C Bordallo' <mcbordallo@guamwaterworks.org>

Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30,

2018)::REJECTED Importance: High

John.

We are appealing your decision on this to Miguel and upper management.

Bryan

Please proceed accordingly to follow up on our side with legal and contracts as well to arrange for a meeting.

Regards Paul

From: John Davis < jdavis@guamwaterworks.org>

Sent: Wednesday, 6 June 2018 1:22 PM **To:** Bryan Ryley < Bryan.Ryley@ghd.com>

Cc: "Thomas Cruz" < <a href="mailto:thomas@guamwaterworks.org">thomas@guamwaterworks.org</a>; 'rcarino' < <a href="mailto:rcarino@guamwaterworks.org">rcarino@guamwaterworks.org</a>; Paul Baron < Paul. Baron@ghd.com >; Steven Carbullido < Steven. Carbullido@ghd.com >; Joe Heitzler

<<u>Joe.Heitzler@ghd.com</u>>; 'Miguel C Bordallo' <<u>mcbordallo@guamwaterworks.org</u>>

Subject: RE: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30,

2018)::REJECTED

Hafa Adai Bryan,

We have unfortunately overlooked agreeing upon an OH&D markup for salaries. Since this contract is now on a Time and Materials basis, an agreed mark-up per centage for salaries and expenses must be established. The previous markup of approx. 200% for salaries can no longer be maintained. {Note that this 200% markup for overhead and profit now accounts for over \$2M in payments.} Also note that my position may be appealed to GWA's upper management.

Kindly also provide how much time that staff devotes to each SOW item. This is important to justify the need for six fulltime staff.

This issue can be included on today's monthly project meeting, or discussed at a separate meeting.

Thank you for your cooperation. John

<image004.png> J. McArthur Davis, PE Civil Engineering Supervisor 671-300-6041

From: Bryan Ryley [mailto:Bryan.Ryley@ghd.com]

Sent: Monday, June 04, 2018 3:20 PM

To: GWA - John Davis < jdavis@guamwaterworks.org>

Cc: 'Thomas Cruz' (<a href="mailto:thomas@guamwaterworks.org">thomas@guamwaterworks.org</a>; rcarino <<u>rcarino@guamwaterworks.org</u>>; Paul Baron <<u>Paul.Baron@ghd.com</u>>; Steven Carbullido

<<u>Steven.Carbullido@ghd.com</u>>; Joe Heitzler <<u>Joe.Heitzler@ghd.com</u>>

Subject: Agat-Santa Rita WWTP Replacement (GHD Progress Billing April 01 through April 30, 2018)

June 4, 2018 Mr. John Davis, P.E. **Guam Waterworks Authority** Gloria B. Nelson Public Utilities Complex Route 15, Mangilao, Guam

Re: Agat WWTP Replacement Construction Management for Agat WWTP Replacement Project No. S14-002-BND, GHD April 2018 Invoice No. 100786

Dear Mr. Davis,

Please find attached Invoice No. 100786 for CM Services from April 1, 2018 through April 30, 2018 in the amount of Two Hundred Eight Thousand Nine Hundred Fifty-Five Dollars and 15/100 (\$208,955.15). This consists of \$141,007.50 in GHD labor, \$34,074.69 in expenses for April 2018, and \$23,425.50 in expenses related to the additional work for the Clearing and Grading Phase authorized under MOD 04. As agreed to with GWA, work performed during this period has been performed on a time and material basis and includes, but was not limited to, the following:

Project administration, implementation & maintenance of project controls, project correspondence, review and processing of submittals & shop drawings, payment request, conduct weekly progress meetings, review and process requests for information, general compliance monitoring, claims and disputes, maintain project records & document management, construction inspection and quality control monitoring.

We have itemized each of the SOW tasks performed by each staff member and sub consultants. As discussed with you previously, the tasks have not changed, just the duration for which our services were performed as this is driven directly by the Contractor's performance.

A hardcopy with appendices will be submitted to your office tomorrow. Please do not hesitate to contact me directly should you have any questions or concerns.

## Thank you,

**Bryan J. Ryley**Construction Manager

#### GHD

T: 671 472-6792 | F: 671 477-6229 | M: 671 797-3336 | VOIP: 860132 | E: <a href="mailto:bryan.ryley@ghd.com">bryan.ryley@ghd.com</a> 865 South Marine Corps Drive, Suite 202, Tamuning, Guam 96913 USA | <a href="https://www.ghd.com">www.ghd.com</a>

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Attachments:

Invoice 97869, Detailed Spread Sheet, Monthly Progress Report

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<MCB OH Calcs 2018JUL13.xlsx>

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# **EXHIBIT 10:**

GHD Corporate 2018 Fee Schedule and Chargeout List for Reproduction Supplies



# 2018 Fee Schedule

#### Notes:

- Rates are for employees of GHD companies.
- 2) Mileage rates are consistent with current IRS/Canada Revenue Agency rates, which is the rate at which employees are reimbursed.
- 3) Company owned vehicle rate is \$80.00/Day plus \$0.28/mile (USA) or \$0.24/km (CDN).
- Travel charges are identified under disbursements and are passed through directly as incurred, all travel via common carrier being at coach class rates.
- 5) Accommodation expenses are identified under disbursements and are passed through directly as incurred. Lodging costs and meal allowances for each full day depend on the area.
- 6) Photocopy charges are \$0.10 per page.
- 7) Color photocopy charges are \$0.25 per page.
- 8) Information Technology is billed at \$4.50 per hour per person.
- Specialized Computer Application is billed at \$15.00 per hour.
- Other Office and Field Supplies are charged at standardized rates and are available upon request.
- Other project related out of office disbursements, expenses, and subcontractor costs will be invoiced with a markup of 15%.
- 12) Fee schedule is subject to change on January 1, 2019.

2018 Fee Schedule Notes April 2018



# **Chargeout List for Reproduction Supplies**

# **Display Materials:**

# **Color Photocopies:**

8 ½" x 11" size/11" x 17" size on Bond	\$0.30
The state of the s	Ψ0.50

# Black & White Photocopies:

8 ½" x 11" size/11" x 17" size	\$0.10/copy

# **Printed Plots:**

24" x 36" or 36" x 48" Monochrome Laser	\$0.25/sq. ft.
Line Drawings Color 24" X 36" or 36" X 48" Color	\$2.00/sq. ft.
Full Graphic Color Oversize	\$3.50/sq. ft.

# **Printing Supplies:**

Cover Stock (Front & Back Set)	\$0.75
Coverbind Cover Sets	\$5.00
Plastic Pockets	\$2.00
Binders - 1"	\$7.50
Binders - 1 ½"	\$8.50
Binders - 2"	\$9.50
Binders - 3"	\$11.50
Binders - 3 ½" and up	\$14.00

#### Tabs:

Figures,	Tables, Appendices	(A, B,	C, etc.	), Sections (1, 2, 3, etc.	) \$0.40/Tab
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# **Digital Equipment:**

Digital Camera \$10/day, \$35/week, \$100/month

2018 Reproduction Supplies Chargeout Rates April 2018