

From: [James Contino <jcontino@whartonsmith.com>](mailto:jcontino@whartonsmith.com)
To: chris@kwru.comchris@kwru.com
[Greg Wright](mailto:Greg.Wright@kwru.com)greg@kwru.com
[Ed Castle, P.E.](mailto:Ed.Castle@me.com)edrcastle@me.com
ssuggs@weilerengineering.orgssuggs@weilerengineering.org
lgermaine@weilerengineering.orglgermaine@weilerengineering.org
jsinn@weilerengineering.orgjsinn@weilerengineering.org
[Edgar Gonzalez](mailto:Edgar.Gonzalez@whartonsmith.com)edgongonzalez@whartonsmith.com
[Jean Laine](mailto:Jean.Laine@whartonsmith.com)laine@whartonsmith.com
CC: [Erica Marnati](mailto:Erica.Marnati@whartonsmith.com)marnati@whartonsmith.com
Date: 3/14/2018 1:32:32 PM
Subject: 17-160 - KWRU WWTP Filter Replacement - Progress Meeting #2

To all,

Attached please find the following with regards to the above subject:

- Progress Meeting #2 – Minutes

Please review and provide any comments/revisions by COB on Friday, 03/16/18.

Sincerely,

James M. Contino | Project Manager

Wharton-Smith, Inc. | Construction Group of Choice | www.whartonsmith.com

125 W. Indiantown Road, Suite 201, Jupiter, FL 33458

Office: (561) 748-5956 Ext. 2321 | Cell: (561) 354-8786 | Fax: (561) 748-5958



KWRU WWTP Filter Replacement

Progress Meeting #2

March 14, 2018 @ 11 A.M.

Minutes

Review of Meeting Minutes from Last Meeting

- See attached Progress Meeting #1 Minutes

Project Schedule

- See attached updated CPM Schedule

Status of Current Work

- Demo of 1st Filter Structure is complete
- Existing slab has been inspected and does not require repairs according to WE
- WSI crew to be back onsite on Monday, 03/19/18

Planned Future Work

- Installation of 1st Filter Structure
- Installation of underdrain system in 1st Filter Structure
- Installation of media in 1st Filter Structure
- Installation of backwash & mudwell piping

Material Deliveries

- 1st Filter Structure scheduled for delivery week of March 26, 2018

Status of Submittals

- See attached Submittal Log
 - [01300-001 Preconstruction Video - WSI to submit additional photos of existing backwash piping arrangement](#)
 - [05000-003 Filter Media Samples – WSI to resubmit media samples](#)
 - [15064-A-001 PVC Pipe – WSI to resubmit PVC Pipe with additional information](#)
 - [Filter Underlayment – WSI to submit underlayment to be used under the filters](#)

125 W Indiantown Road, Suite 201, Jupiter, FL 33458 | Phone: (561) 748-5956 | Fax: (561) 748-5958

-
- Backwash pumps – WSI to submit once submittals are received from the vendor
 - Gratings & Railings – WSI to submit once shop drawings are received from the vendor
 - Concrete & rebar – WSI to submit concrete bag product and rebar for stair landings

RFI's

- See attached RFI Log
 - Filter Media – WSI to submit RFI requesting required depths of the media
 - Isolation Gaskets – WSI to submit RFIs requesting type of isolation gaskets required under the unistrut underdrain supports and the backwash pumps

Changes in Work

- Work Directive #1
 - Allowance for New Backwash Pumps – Purchase Order has been issued to vendor and awaiting submittal data for approval
 - Allowance for New Grating and Handrails, including New Bridge Between CCCs – Change order has been issued to the vendor and awaiting shop drawings
 - Allowance for Reconfiguration of Backwash System Pipe and Actuated Valves – Change order has been issued to vendor
- Generator Replacement
 - Awaiting pricing from Nearshore Electric to finalize proposal
 - WSI Received pricing from Nearshore Electric 03/14/18
 - WSI is currently finalizing their proposal and plan to submit 03/15/18
- Filter Coatings Low Voltage Holiday Testing
 - WSI has received pricing from an independent 3rd party testing company to perform low voltage holiday testing on the structures at the coaters facility, prior to shipment
 - WSI submitted the proposal to perform the low voltage holiday testing 03/14/18

Pay Applications

- Pay Application #1 (February 2018) – Status of payment
 - Louis Germaine to hand deliver an approved copy to KWRU this week
 - Reminder to send all pay applications to Steve Suggs
- Pay Application #2 (March 2018) – will be finalized at our next meeting on 03/28/18

Open Discussion/Concerns

- New owner furnished generator is currently in Wisconsin with the vendor eager to ship the generator ASAP
- Generator tank modifications will be completed this week
- WSI is finalizing the generator replacement proposal and plan to submit by 03/15/18

Next Meeting

- Onsite Meeting - Wednesday, March 28, 2018 @ 11 A.M.

125 W Indiantown Road, Suite 201, Jupiter, FL 33458 | Phone: (561) 748-5956 | Fax: (561) 748-5958



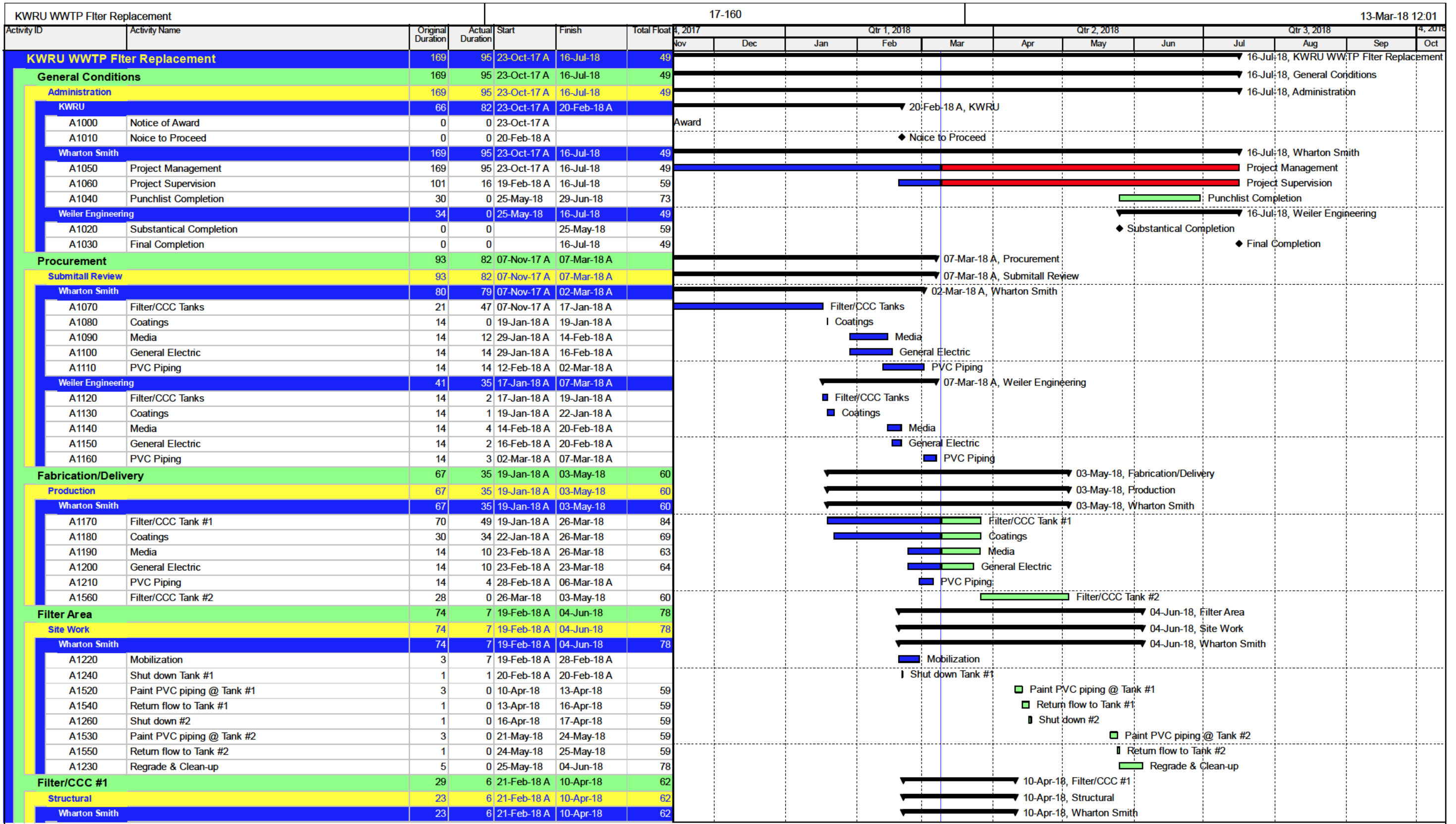
KWRU WWTP Filter Replacement

Progress Meeting #2

March 14, 2018 @ 11 A.M.

Sign In Sheet

Name	Company	Email Address	Phone Number	Initials
Chris Johnson	KWRU	chris@kwru.com	(305) 295-3301	
Greg Wright	KWRU	greg@kwru.com	(305) 295-3301	✓
Ed Castle, P.E.	Weiler	edrcastle@me.com	(305) 289-4161	✓
Steve Suggs, E.I.	Weiler	ssuggs@weilerengineering.org	(941) 323-1787	✓
Louis Germaine	Weiler	lgermaine@weilerengineering.org	(305) 307-4611	✓
John Sinn	Weiler	jsinn@weilerengineering.org	(305) 289-4161	✓
Greg Williams	WSI	gwilliams@whartonsmith.com	(561) 345-1858	
James Contino	WSI	jcontino@whartonsmith.com	(561) 354-8786	✓
Edgar Gonzalez	WSI	egonzalez@whartonsmith.com	(561) 222-1303	✓
Jean Laine	WSI	jlaine@whartonsmith.com	(561) 427-5743	



█ Actual Work ◆ Milestone
█ Remaining Work ◀ Summary
█ Critical Remaining Work

KWRU WWTP Filter Replacement
 Owner: Key West Resort Utilities Corp.
 Engineer: The Weiler Engineering Corporation
 Contractor: Wharton-Smith Construction Group

Data Date: 09-Mar-18
 Notice to Proceed: 19-February-18
 Finish Date: 16-Jul-18
 Page 1 of 3

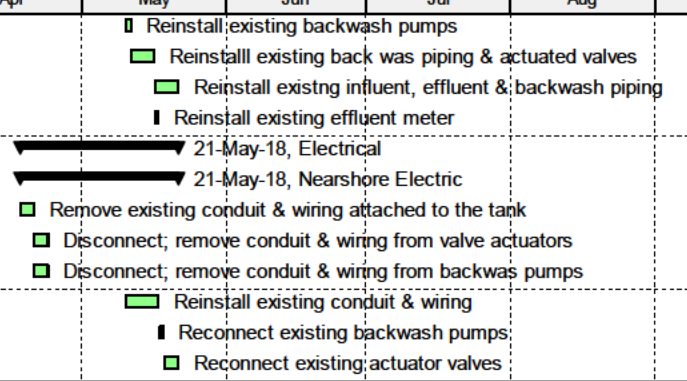
Activity ID	Activity Name	Original Duration	Actual Duration	Start	Finish	Total Float	2017		Qtr 1, 2018			Qtr 2, 2018			Qtr 3, 2018			4, 2018
							Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
A1300	Remove and store existing handrail & gratings	1	0	21-Feb-18 A	21-Feb-18 A													
A1340	Demo and dispose of existing tank	3	5	21-Feb-18 A	28-Feb-18 A													
A1350	Clean & inspect existing concrete slab	1	0	26-Feb-18 A	26-Feb-18 A													
A1360	Repair any damage to existing slab	1	0	01-Mar-18 A	01-Mar-18 A													
A1370	Place underlayment on existing slab	1	0	09-Mar-18	09-Mar-18	69												
A1380	Offload and set new tank structure	1	0	26-Mar-18	27-Mar-18	59												
A1470	Reinstall existing handrail & grating	3	0	05-Apr-18	10-Apr-18	62												
Mechanical		29	3	21-Feb-18 A	10-Apr-18	62												
Wharton Smith		29	3	21-Feb-18 A	10-Apr-18	62												
A1250	Remove existing influent, effluent, & backwash piping	2	0	21-Feb-18 A	21-Feb-18 A													
A1270	Remove existing piping & actuated valves and store	2	0	21-Feb-18 A	21-Feb-18 A													
A1290	Remove and store existing effluent flow meter	1	0	21-Feb-18 A	21-Feb-18 A													
A1310	Remove and dispose of existing filter media	1	0	21-Feb-18 A	21-Feb-18 A													
A1320	Remove any remaining piping/components	1	1	21-Feb-18 A	22-Feb-18 A													
A1330	Clean tank interiors	1	1	21-Feb-18 A	22-Feb-18 A													
A1280	Remove existing backwash pumps	1	0	26-Feb-18 A	26-Feb-18 A													
A1390	Install new filter underdrain system	3	0	27-Mar-18	30-Mar-18	59												
A1400	Place new filter media	3	0	30-Mar-18	04-Apr-18	59												
A1410	Reinstall existing backwash pumps	1	0	30-Mar-18	02-Apr-18	59												
A1420	Reinstall existing back wash piping & actuated valves	3	0	02-Apr-18	05-Apr-18	62												
A1430	Reinstall existing influent, effluent & backwash piping	3	0	05-Apr-18	10-Apr-18	62												
A1510	Reinstall existing effluent meter	1	0	05-Apr-18	06-Apr-18	62												
Electrical		29	0	22-Feb-18 A	10-Apr-18	59												
Nearshore Electric		29	0	22-Feb-18 A	10-Apr-18	59												
A1440	Remove existing conduit & wiring attached to the tank	3	0	22-Feb-18 A	22-Feb-18 A													
A1450	Disconnect, remove conduit & wiring from valve actuators	1	0	22-Feb-18 A	22-Feb-18 A													
A1460	Disconnect, remove conduit & wiring from backwash pumps	1	0	22-Feb-18 A	22-Feb-18 A													
A1480	Reinstall existing conduit & wiring	5	0	30-Mar-18	06-Apr-18	59												
A1500	Reconnect existing backwash pumps	1	0	06-Apr-18	09-Apr-18	59												
A1490	Reconnect existing actuator valves	1	0	09-Apr-18	10-Apr-18	59												
Filter/CCC #2		24	0	17-Apr-18	21-May-18	62												
Structural		18	0	25-Apr-18	21-May-18	62												
Wharton Smith		18	0	25-Apr-18	21-May-18	62												
A1670	Remove and store existing handrail & gratings	1	0	25-Apr-18	26-Apr-18	59												
A1680	Demo and dispose of existing tank	3	0	26-Apr-18	01-May-18	59												
A1690	Clean & inspect existing concrete slab	1	0	01-May-18	02-May-18	59												
A1700	Repair and damage to existing slab	1	0	02-May-18	03-May-18	59												
A1710	Place underlayment on existing slab	1	0	03-May-18	04-May-18	59												
A1720	Offload and set new tank structure	1	0	04-May-18	07-May-18	59												
A1790	Reinstall existing handrail & grating	3	0	16-May-18	21-May-18	62												
Mechanical		24	0	17-Apr-18	21-May-18	62												
Wharton Smith		24	0	17-Apr-18	21-May-18	62												
A1570	Remove existing influent, effluent, & backwash piping	2	0	17-Apr-18	19-Apr-18	62												
A1590	Remove existing piping & actuated valves and store	2	0	20-Apr-18	24-Apr-18	59												
A1600	Remove existing backwash pumps	1	0	20-Apr-18	23-Apr-18	59												
A1610	Remove and store existing effluent flow meter	1	0	20-Apr-18	23-Apr-18	59												
A1620	Remove and dispose of existing filter media	1	0	20-Apr-18	23-Apr-18	59												
A1650	Remove any remaining piping/components	1	0	23-Apr-18	24-Apr-18	59												
A1660	Clean tank interiors	1	0	24-Apr-18	25-Apr-18	59												
A1730	Install new filter underdrain system	3	0	07-May-18	10-May-18	59												
A1740	Place new filter media	3	0	10-May-18	15-May-18	59												

█ Actual Work ◆ Milestone
█ Remaining Work ◀ Summary
█ Critical Remaining Work

KWRU WWTP Filter Replacement
 Owner: Key West Resort Utilities Corp.
 Engineer: The Weiler Engineering Corporation
 Contractor: Wharton-Smith Construction Group

Data Date: 09-Mar-18
 Notice to Proceed: 19-February-18
 Finish Date: 16-Jul-18
 Page 2 of 3

Activity ID	Activity Name	Original Duration	Actual Duration	Start	Finish	Total Float	Q4, 2017		Q1, 2018			Q2, 2018			Q3, 2018			Q4, 2018
							Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
A1750	Reinstall existing backwash pumps	1	0	10-May-18	11-May-18	59												
A1770	Reinstall existing back was piping & actuated valves	3	0	11-May-18	16-May-18	62												
A1780	Reinstall existng influent, effluent & backwash piping	3	0	16-May-18	21-May-18	62												
A1800	Reinstall existing effluent meter	1	0	16-May-18	17-May-18	62												
Electrical		24	0	17-Apr-18	21-May-18	59												
Nearshore Electric		24	0	17-Apr-18	21-May-18	59												
A1580	Remove existing conduit & wiring attached to the tank	3	0	17-Apr-18	20-Apr-18	59												
A1630	Disconnect; remove conduit & wiring from valve actuators	1	0	20-Apr-18	23-Apr-18	59												
A1640	Disconnect; remove conduit & wiring from backwas pumps	1	0	20-Apr-18	23-Apr-18	59												
A1760	Reinstall existing conduit & wiring	5	0	10-May-18	17-May-18	59												
A1810	Reconnect existing backwash pumps	1	0	17-May-18	18-May-18	59												
A1820	Reconnect existing actuator valves	1	0	18-May-18	21-May-18	59												



█ Actual Work ◆ Milestone
█ Remaining Work ◀ Summary
█ Critical Remaining Work

KWRU WWTP Filter Replacement
 Owner: Key West Resort Utilities Corp.
 Engineer: The Weiler Engineering Corporation
 Contractor: Wharton-Smith Construction Group

Data Date: 09-Mar-18
 Notice to Proceed: 19-February-18
 Finish Date: 16-Jul-18
 Page 3 of 3

**KWRU WWTP Filter Replacement
Submittal Log**

Submittal	Rev.	Title	Category	Status	Ball In Court	Latest Dates				Required		# of Days		
						Received	Sent	Returned	Forwarded	Start	Finish	Elpsd	Held	Overdue
01300-001	001	Pre-Construction Video		AAN		02/20/18	02/20/18	02/20/18	02/20/18					
01310-001	001	Schedule of Values	Shop Drawing	APP		01/31/18	01/31/18	02/12/18	02/12/18			12		
01310-002	001	Monthly Draw Schedule	Shop Drawing	APP		01/31/18	01/31/18	02/12/18	02/12/18			12		
01310-003	001	CPM Schedule	Shop Drawing	APP		02/01/18	02/01/18	02/12/18	02/12/18			11		
01590-001	001	Site Utilization Plan	Shop Drawing	AAN		02/13/18	02/14/18	02/20/18	02/20/18			7		
05000-001	A	Filter Structure	Shop Drawing	AAN		01/17/18	01/17/18	01/19/18	01/19/18			29		
05000-002	001	Filter Media	Shop Drawing	AAN		02/13/18	02/14/18	02/20/18	02/23/18			10		
05000-003	001	Filter Media Samples	Shop Drawing	ANR	Surface Prep Supply	03/05/18	03/05/18	03/07/18	03/12/18			8	1	
09900-001	001	Filter Structure Coatings	Shop Drawing	AAN		01/19/18	01/19/18	01/22/18	01/23/18			4		
09900-002	001	PVC Pipe Coatings	Shop Drawing	AAN		02/05/18	02/05/18	02/09/18	02/09/18			4		
15064-A-001	001	PVC Pipe	Shop Drawing	RR	Ferguson Enterprises, Inc.	03/01/18	03/02/18	03/07/18	03/12/18			12	1	
15101-001	001	Shear Gates	Shop Drawing	APP		03/01/18	03/02/18	03/07/18	03/12/18			11		
16000-001	001	Electrical Materials	Shop Drawing	APP		02/15/18	02/16/18	02/20/18	02/23/18			8		

Request and Answer Log

Date: 03/13/2018

Job No:17-160

Page: 1 of 1

Type	To	Number	Title	Status	Dated	Responded	Required
RFI	The Weiler Engineering Corporation	00001	Filter Details	CLO	11/28/2017	12/05/2017	12/05/2017

Request:

Please reference the attached drawing and provide additional details on the shear gate and the piping penetrations between the boxes as requested. Also, please provide any pictures of the existing filter boxes.

Answer:

Response: 1. The purpose of the shear gate is to allow flow from the front CCC to the back CCC. The shear gate specifications can be found in Specification section 15101 section 2 21. Flanges shall be welded were the shear gate is to be installed which will be towards the upper part of the tank. The flanges & shear gate shall be 8". 2. The underdrain shall have flanges on interior and exterior of the filter cell for the pipe to connect to. 3. Height to bottom of pipe is 52".