

**MONTHLY PROGRESS REPORT
MARCH 2020**

**EMERGENCY WWTP REPAIR PROJECT
GREENVILLE, MS**

Submitted To:

U.S. Environmental Protection Agency, Region 4
Clean Water Enforcement Branch
61 Forsythe Street, S.W.
Atlanta, GA 30303-8960

and

Mississippi Department of Environmental Quality
P.O. Box 2261
Jackson, MS 39225



Prepared For:

City Hall
340 Main Street
Greenville, MS 38701

April 10, 2020



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CERTIFICATION

Monthly Progress Report

March 2020

Administrative Order No. CWA-04-2020-0303

City of Greenville, MS

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



Errick D. Simmons, Mayor

April 10, 2020
Date

File Name: Monthly Progress Report (March 2020)

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Mayor Errick D. Simmons

TABLE OF CONTENTS

CERTIFICATION

SECTION	DESCRIPTION
I	Permit Effluent Exceedances
II	Summary of ICAP Activities

FIGURES

FIGURE 1	Vicinity Map
FIGURE 2	WWTP Map No. 1
FIGURE 3	WWTP Map No. 2
FIGURE 4	Aeration Basin Re-configuration Plan

APPENDICES

APPENDIX A	WWTP Effluent Data (March 2020)
APPENDIX B	Emergency WWTP Repair Project Construction Schedule
APPENDIX C	Mississippi River @ Greenville Gage – March 2020

SECTION I

PERMIT EFFLUENT EXCEEDANCES

A tabulation of the permit effluent limit exceedances for the month of March 2020 is referenced in Table 1 below. The raw data are referenced in Appendix A.

TABLE 1 - EFFLUENT PERMIT EXCEEDANCES

DATE	FLOW (MGD)	BOD5 (mg/l)	TSS (mg/l)	pH (SU)	TOTAL FECAL COLIFORM (MPN/100ml)
03-01-2020	---	139	120	---	15,000
03-02-2020	---	74	84	---	15,000
03-03-2020	---	60	194	---	20,000
03-04-2020	22.9	62	90	---	12,500
03-05-2020	23.9	92	142	---	10,000
03-06-2020	---	101	42	---	17,500
03-07-2020	---	192	106	---	8,333
03-08-2020	---	112	32	---	8,333
03-09-2020	---	46	---	---	10,000
03-10-2020	21.2	42	---	---	5,000
03-11-2020	20.8	74	168	---	7,500
03-12-2020	23.9	94	---	---	10,000
03-13-2020	23.1	211	332	---	20,000
03-14-2020	---	67	90	---	10,000
03-15-2020	20.3	58	82	---	10,000
03-16-2020	---	67	170	---	10,000
03-17-2020	---	195	140	---	20,000
03-18-2020	---	194	98	---	12,500
03-19-2020	---	99	73	---	5,000
03-20-2020	---	86	94	---	10,000
03-21-2020	---	72	124	---	5,834
03-22-2020	25.1	33	---	---	3,333
03-23-2020	25.9	145	88	---	6,667
03-24-2020	23.0	51	66	---	12,222
03-25-2020	23.9	58	---	---	4,444
03-26-2020	24.1	70	34	---	4,444
03-27-2020	22.4	85	386	---	10,000
03-28-2020	---	87	78	---	6,667
03-29-2020	20.5	---	---	---	3,333
03-30-2020	20.7	64	46	---	27,777
03-31-2020	22.4	113	250	---	2,666

- End of Section -

SECTION II

SUMMARY OF ICAP ACTIVITIES

The following ICAP activities were performed during the month of March 2020:

1. Clarifier Cleanings – Due to the high river stage of the Mississippi River in March 2020¹, and the resulting high groundwater table, Hemphill Construction Company (HEMPHILL) could not start the clarifier cleaning work without risking damage to the clarifiers. They decided to postpone the work and shift their cleaning crew from the clarifiers to the aeration basins (see Item II.3).
2. Clarifier Repairs – Industrial Services (IS) also postponed the clarifier repair work until the river stage falls below 36' (111' Mean Sea Level (MSL)) at the Greenville gage. During March 2020, the Mississippi River stayed above 36' (See Appendix C).
3. Aeration Basins 1-7 Cleanings – On January 20, 2020, HEMPHILL began cleaning Basin No. 7. During February and March, the biosolids were collected and disposed of in the WWTP sludge lagoons (see Item II.9). The cleaning work for Basin No. 7 was completed March 18, 2020. Upon completion, HEMPHILL moved their cleaning crew to the by-pass channel and Basin No. 2.
4. By-Pass Channel Cleaning – HEMPHILL started and completed the cleaning of the by-pass channel in March.
5. UV Disinfection Chamber Cleaning – HEMPHILL has rescheduled this work for August 2020.
6. Interim Disinfection Systems – Upon receipt of the administrative order in December 2019, the City of Greenville, MS (CITY) began disinfecting the WWTP's effluent using chlorine tablets and chlorine gas. This work has continued through this reporting period and will continue until the CITY's interim NaClO disinfection system is installed and operational.

Also in December 2019, the CITY retained W.L. Burle Engineers, P.A. (BURLE) to prepare the construction plans and specifications for the project. BURLE immediately specified the NaClO disinfection equipment and recommended to the CITY that they directly purchase the

¹ The Mississippi River at the Greenville gage was at or above flood stage (48' (122.92' Mean Sea Level (MSL)) from March 1 through March 9 and from March 24 through the end of the month, a total of 17 days or 54.8% of the month (See Appendix C).

equipment. The CITY voted to purchase the equipment during the December 3, 2019 council meeting; delivery is expected in 10 to 12 weeks.

In order to expedite construction, BURLE broke the project into two (2) phases: Phase I – Foundation and Phase II – Equipment Installation. They are discussed below:

- Phase I was bid on January 3, 2020. AVIS was the low bidder (\$37,000) and was awarded the project. AVIS finished the project January 21, 2020.
- Phase II was bid January 30, 2020. AVIS was again the low bidder (\$24,800), and was awarded the project. The 10,000 gallon above-ground storage tank arrived on February 28, 2020, and was installed by AVIS that day. The balance of equipment (pumps, controls, housing, etc.) was delivered in March 2020. The installation of the remaining equipment followed. Start-up has been delayed due to Pandemic-related supply disruptions/travel restrictions, the shipment of the wrong leak detector probe and the need to install an eye wash station.

These issues are being dealt with by both the CITY and AVIS. The eye wash station should be delivered in April. The delivery date for the probe is not known at this time. Another equipment representative, ETEC has offered to travel to the WWTP and conduct the start-up. At this time based on what we know now, start-up is tentatively scheduled for April 22, 2020.

7. Sludge Lagoon No. 2 Project – BURLE completed the construction plans and specifications, and submitted same to the MDEQ SRF Division for review on January 31, 2020. MDEQ reviewed and approved the documents in March. The project is currently being advertised, with a bid opening date of May 13, 2020.
8. Wasted Activated Sludge (WAS) Pumps – In December 2019, the CITY voted to purchase three (3) WAS pumps from NOV Process and Flow Technologies (NOV) of Dallas, TX for \$46,023.00. The CITY issued a purchase order (No. 200995) on January 21, 2020. NOV is scheduled to deliver the pumps on April 14, 2020; however, Pandemic-related supply disruptions may delay the delivery.
9. Additional WWTP Improvements – Manchac Management Services, LLC (MANCHAC) of Baton Rouge, LA, the CITY's WWTP operator, proposed additional WWTP improvements during the CITY's Public Works Committee meeting held January 23, 2020. The committee approved the work and sent it to council. The council approved the work during their February 4, 2020 meeting.

The improvements consist of:

- a. Blowers – MANCHAC will rebuild three (3) of the existing blowers. On February 6, 2020, MANCHAC removed Blower No. 4 from the blower building and transported it to Erichson Company, Inc. (ERICHSON) of Metairie, LA for rehabilitation. ERICHSON rebuilt the blower in March 2020. MANCHAC transported it to the WWTP. The blower will be installed in April 2020.

The second blower is scheduled to be delivered to ERICHSON in April 2020, assuming Pandemic-related travel restrictions do not prohibit delivery.

- b. Diffusers – MANCHAC asked the CITY to purchase sufficient diffusers to replace all of the damaged diffusers within eight (8) basins. As many as 14,000 diffusers may be replaced. The work will be performed by MANCHAC’s crews as basins are cleaned and the diffusers are inspected. The CITY issued a purchase order for the diffusers in February. MANCHAC is currently awaiting delivery.
- c. Barrack Repair – The barrack will not be repaired. MANCHAC decided to manually clean the barrack until the grit chamber’s barrack is operational in February 2021.
- d. Barrack Replacement – After the CITY receives MDEQ SRF Loan No. 12 in 2021, MANCHAC plans to replace the existing barrack (Item II.8.c) with a new automated bar screen and conveyor/compactor. The new bar screen, along with the new grit chamber bar screen, will give the WWTP solids removal redundancy.
- e. Aeration Basin 8 Cleaning – In February 2020, MANCHAC began cleaning Basin No. 8, using MANCHAC’s crew. The biosolids are being pumped to Aeration Basin No. 12. The work continued through the reporting period. The work should be completed in April 2020.
- f. Exercise/Repair Frozen Sluice Gates for Aeration Basins 1 through 8 – The CITY hired IS to exercise and/or repair eleven (11) frozen sluice gates in Basin Nos. 1 through 8. The work is scheduled to begin in April 2020.
- g. Slide Gate/Stop Gate Installations – MANCHAC plans to use Basin No. 8 as an interim grit chamber until the new grit chamber is operational in January 2021. To accomplish this, MANCHAC will reconfigure the flow through the aeration basins from parallel flow to serpentine flow as shown in Figure 4. This will be accomplished by installing four (4) slide gates and three (3) stop plates as shown in the drawing. The CITY has issued

purchase orders for both the equipment and to IS for the installation of the equipment. The work is scheduled to begin during the Summer of 2020.

- h. Temporary Sludge Dewatering – In order to provide sludge dewatering services prior to the completion of the Sludge Lagoon No. 2 project, MANCHAC plans to provide belt press sludge dewatering services during the interim. In February, MANCHAC inspected the WWTP’s two (2) belt presses and scheduled an equipment representative to evaluate the condition of both presses.

The diffuser replacement work, barrack repair, sluice gate/stop gate installation work and temporary sludge dewatering have been added to the emergency WWTP repair project construction schedule (see Appendix B); the remaining items are not essential to plant start-up under average dry weather flow conditions and are, therefore, not described in the construction schedule.

- 10. Grit Chamber Construction Project – HEMPHILL began cleaning the existing grit chamber and removing the existing comminutors in February 2020. The work continued through the end of this reporting period.
- 11. WWTP Biosolids Land Application Site – In January 2020, MANCHAC constructed the WWTP biosolids land application site which was approved of by MDEQ and referred to in their approval letter (dated December 3, 2019) as the “Basin Material Removal Plan”. MANCHAC made the site available to HEMPHILL for disposal of the aeration basin material in January.

During the January 23, 2020 public works committee meeting, a neighbor living south of the WWTP, Ms. Sarah Moorman, complained about both the odor from the land application activities and the land application site’s stormwater run-off impacting her property. The CITY told Ms. Moorman that they were operating the land application site within the terms of their MDEQ-approved plan. She stated she would attend the February 4, 2020 council meeting to object to the disposal practices.

On January 30, 2020, MDEQ inspected the site and subsequently instructed MANCHAC to discontinue land application work until the site was dryer and the biosolids could be properly incorporated into the surficial soils as required in MDEQ’s approval plan. This action temporarily forced HEMPHILL to cease basin cleaning activities.

In February 2020, HEMPHILL focused on installing a HDPE pipeline from the aeration basins to the sludge lagoons. This pipeline gave HEMPHILL the option of pumping the biosolid to either the sludge lagoons as originally planned under the grit chamber project or

to the biosolids land application site. The pipeline was completed in February, and was used to convey the solids from the basins to the lagoons during the cleaning of Aeration Basin Nos. 2, 7, and the by-pass channel.

12. WWTP Effluent Pump Station Repair – In March 2020, MANCHAC reported the condition of the effluent pumps to the CITY. Of the three (3) effluent pumps, only two were marginally operational. The situation was such that it could not process the CITY's anticipated wastewater flow during a rain fall event.

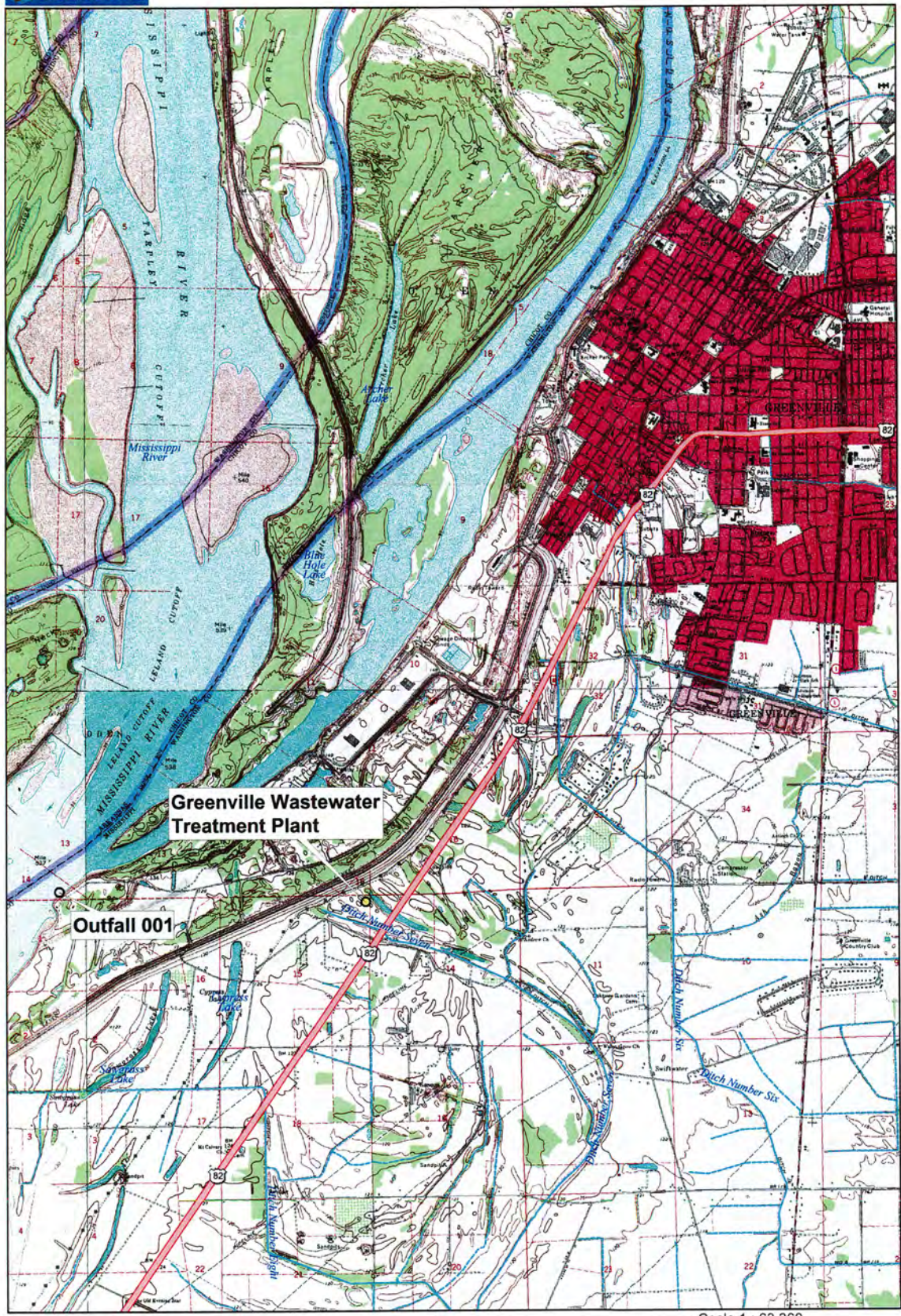
The following actions were taken to address the problem:

- BURLE moved the pump station repair project up in order and assigned Contract No. 6, under MDEQ SRF Loan 11, as the WWTIP Effluent Pump Station Improvement Project. The project will involve the complete replacement of the three pumps/controls. The project has been reschedule such that plans/specifications will be delivered to MDEQ for review/approval in May 2020, instead of the original deadline of September 30, 2020. The bid phase is tentatively scheduled for July/August 2020.
- CITY issued a purchase order to MANCHAC to purchase one (1) new effluent pump. MANCHAC has placed the order. Delivery is expected within 20 weeks. Upon receipt, the CITY will hire a contractor to install it.
- MANCHAC has installed a by-pass pump to meet demand. While it is in use, MANCHAC is making the following repairs:
 - Pump 1 – The motor was removed and taken to Mid-South Electric for repair. The work is ongoing.
 - Pump 2 – Lockett Pumps (LUCKETT) of Tutwiller, MS was hired to remove the pump for a breakdown inspection. The work is ongoing.
 - Pump 3 – LUCKETT was hired to inspect the pump. The work is ongoing.

- End of Section -

FIGURES

FIGURE 1
VICINITY MAP



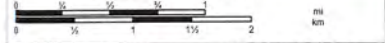
Data use subject to license.

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www.delorme.com



Scale 1 : 63,360



1" = 5,280.0 ft Data Zoom 12-0



W. L. BURLE

ENGINEERS , P. A.
111 South Walnut Street
Greenville, MS 38701

**FIGURE 1
VICINITY MAP**

MONTHLY PROGRESS REPORT
MARCH 2020
WASTEWATER TREATMENT PLANT REPAIR PROJECT
GREENVILLE, MISSISSIPPI



QUADRANGLE LOCATION

Proj. No.	02500-1-0419
CAD File No.	GWWTP_Vicinity.Dwg
Drawn By: MJJ	Dwg. No.
Chkd. By: WLB, JR.	1
Date: 2/28/2020	
Scale: 1"=1 MILE	

FIGURE 2
WWTP MAP NO. 1



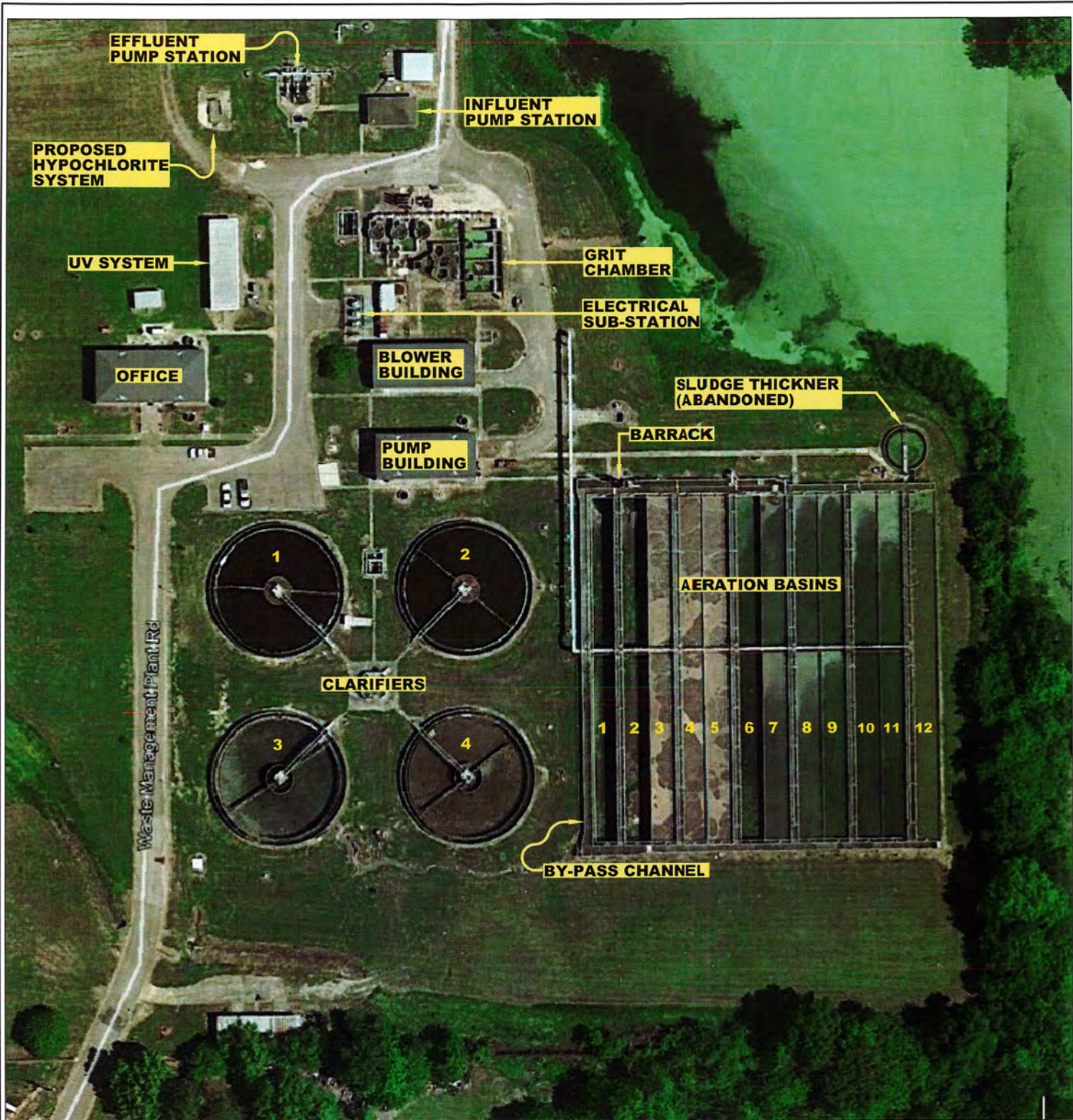
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MONTHLY PROGRESS REPORT
 MARCH 2020
 WASTEWATER TREATMENT PLANT
 REPAIR PROJECT
 GREENVILLE, MISSISSIPPI

FIGURE 2
 WASTEWATER
 TREATMENT
 PLANT MAP

Proj. No. 02500-1-0419	
CAD File No. GreenvilleWWTP Layout.dwg	
Drawn By: MJJ	Dwg. No.
Chkd. By: WLB, Jr.	2
Date: 2/28/2020	
Scale: N.T.S.	

FIGURE 3
WWTP MAP NO. 2



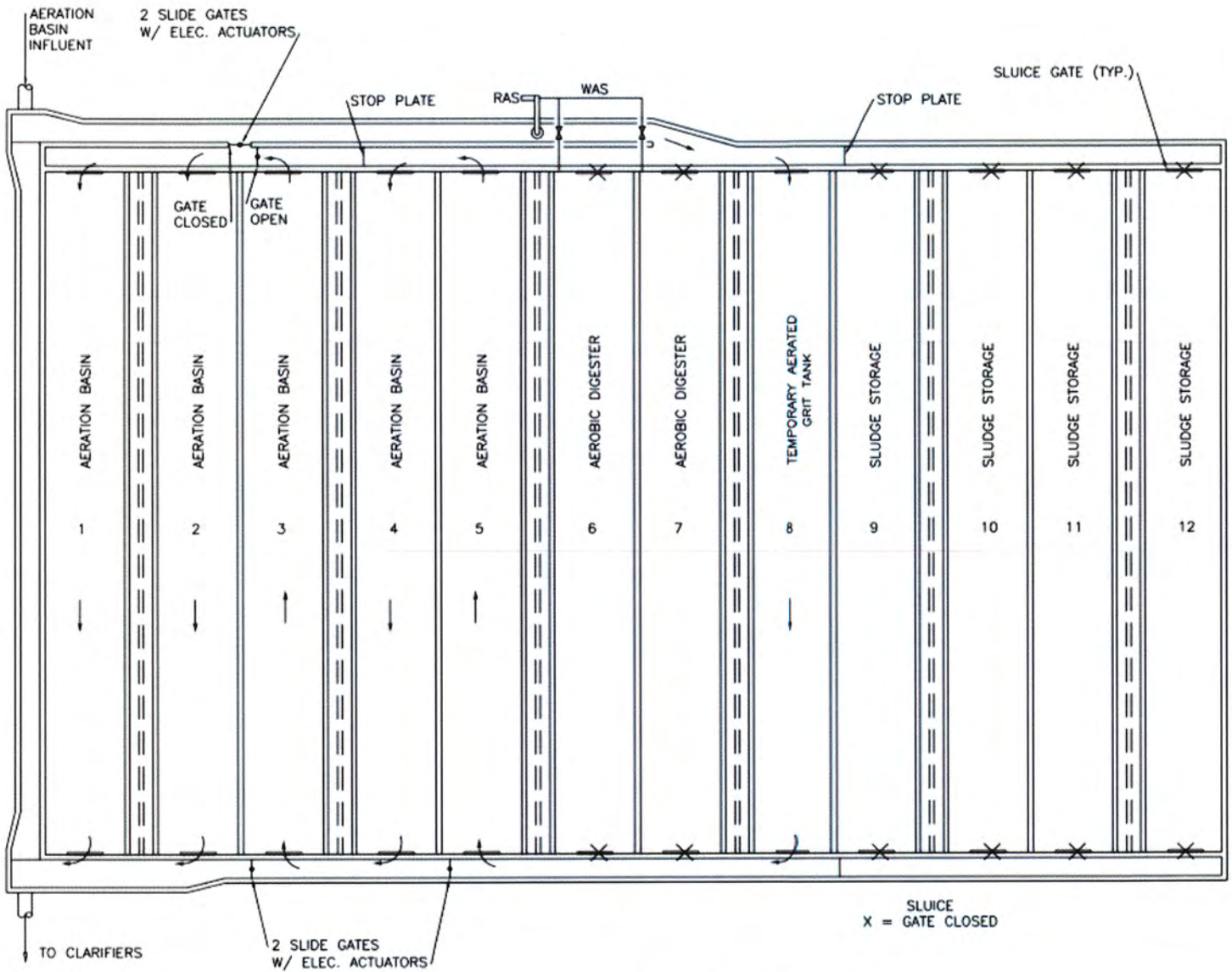
W. L. BURLE
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MONTHLY PROGRESS REPORT
 MARCH 2020
 WASTEWATER TREATMENT PLANT
 REPAIR PROJECT
 GREENVILLE, MISSISSIPPI

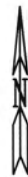
FIGURE 3
 WASTEWATER
 TREATMENT
 PLANT MAP

Proj. No. 02500-1-0419	
CAD File No. GreenvilleWWTP Layout.dwg	
Drawn By: MJJ	Dwg. No.
Chkd. By: WLB, Jr.	3
Date: 2/28/2020	
Scale: N.T.S.	

FIGURE 4
AERATION BASIN RE-CONFIGURATION PLAN



GREENVILLE WWTP
AERATION BASIN OPERATION
NORMAL FLOW



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MONTHLY PROGRESS REPORT
MARCH 2020
WASTEWATER TREATMENT PLANT
REPAIR PROJECT
GREENVILLE, MISSISSIPPI

FIGURE 4
AERATION BASINS
PLAN

Proj. No. 02500-1-0419	
CAD File No. GreenvilleWWTP Layout.dwg	
Drawn By: MJJ	Dwg. No.
Chkd. By: WLB, Jr.	4
Date: 2/28/2020	
Scale: N.T.S.	

APPENDICES

APPENDIX A

WWTP EFFLUENT DATA (MARCH 2020)

William L. Burle, Jr.

From: Danielle Butler <dbutler@manchacgroup.com>
Sent: Monday, April 06, 2020 3:03 PM
To: William L. Burle, Jr.
Subject: RE: March Progress Report
Attachments: Effluent Report.xlsx

I've attached the effluent report that is compiled daily.
The pHs needed are as follows:

1	7.8
2	7.5
3	7.5
4	7.5
5	7.4
6	7.3
7	7.6
8	7.5
9	7.5
10	7.5
11	7.4
12	7.5
13	7.6
14	7.5
15	7.5
16	7.6
17	7.4
18	7.7
19	7.5
20	7.5
21	7.5
22	7.4
23	7.5
24	7.5
25	7.4
26	7.4
27	7.4
28	7.5
29	7.4
30	7.5
31	7.5

From: William L. Burle, Jr. <wlb@wlburle.com>
Sent: Monday, April 6, 2020 9:53 AM

Greenville Daily WWTP Report

	MGD		Effluent (ppm)						colonies/100mL	
	Effluent flow		BOD	TSS	Total N	Chlorine Residual		Total Fecal Coliform		
Sunday, December 08, 2019	4.7			32	17.5	0.1		> 60 mil		
Monday, December 09, 2019	4.8		88	24		0.05		> 60 mil		
Tuesday, December 10, 2019	9.8		111	84		0.21		> 60 mil		
Wednesday, December 11, 2019	7.7		66	62		0.09		> 60 mil		
Thursday, December 12, 2019	7.1		68	40		0.05		> 60 mil		
Friday, December 13, 2019	5.6		120	34		0.02		> 60 mil		
Saturday, December 14, 2019	5.7		52	60		0.04		> 60 mil		
Sunday, December 15, 2019	3		54	58		0.04		>60mil		
Monday, December 16, 2019	19.9		70	72		0		>60mil		
Tuesday, December 17, 2019	15.6		33	86		0		>60mil		
Wednesday, December 18, 2019	10.3		82	82		0.1		500000		
Thursday, December 19, 2019	6.6		51	26		0.07		2200000		
Friday, December 20, 2019	7.1		90	312		0.06		21333333		
Saturday, December 21, 2019	6.4		13	42		0.07		1100000		
Sunday, December 22, 2019	13.7		5	46		0.02		>60mil		
Monday, December 23, 2019	12.9		114	158		0.08		4000000		
Tuesday, December 24, 2019	11		47	52		0.04				
Wednesday, December 25, 2019	4.3		43	100		0.1		>60mil		
Thursday, December 26, 2019	2.7		56	12		0.09		650000		
Friday, December 27, 2019	6.1		33	36		0.07		150000		
Saturday, December 28, 2019	8.4		54	46		0.07		400000		
Sunday, December 29, 2019	15.1		38	28		0		1670000		
Monday, December 30, 2019	12.5		71	34		0.25		0		
Tuesday, December 31, 2019	10.9		70	24		0.15		>60000000		
Wednesday, January 01, 2020	8.7		60.43	18		0.03		400000		
Thursday, January 02, 2020	28.9		60.43	50		0.02		100000		
Friday, January 03, 2020	24.9		36.08	20		0.03				
Saturday, January 04, 2020	11.6		29.54	40		0		300000		
Sunday, January 05, 2020	9.9		50.32	36		0.01		400000		
Monday, January 06, 2020	9.2		40.18	38		0.03		0		
Tuesday, January 07, 2020	6		28.18	16		0.04		500000		

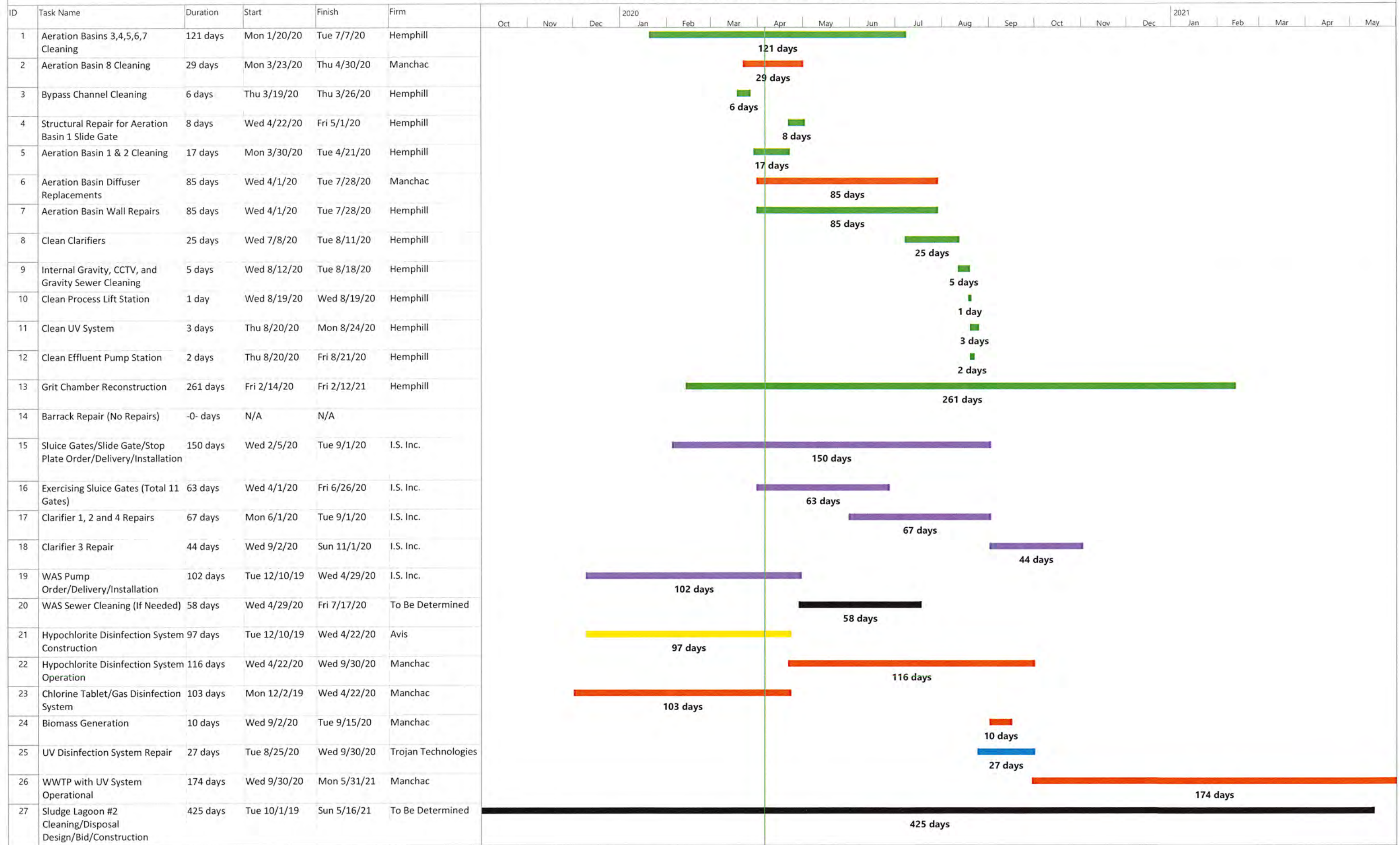
Wednesday, January 08, 2020	4.3			43.01	8			0.94		0
Thursday, January 09, 2020	6.16			9	4			0.47		1600000
Friday, January 10, 2020	11.53			24	26			0.02		100000
Saturday, January 11, 2020	11.2			22	28			0.04		150000
Sunday, January 12, 2020	8			32	22			0.47		0
Monday, January 13, 2020	21			25	24			0.09		50000
Tuesday, January 14, 2020	21.2			22	38			0.02		
Wednesday, January 15, 2020	24.4			115	32			0.09		
Thursday, January 16, 2020	16.5			41	22			0.15		0
Friday, January 17, 2020	18.7			38	18			0.01		0
Saturday, January 18, 2020	18.9			85	106					165000
Sunday, January 19, 2020	14.77			26.27	26					500000
Monday, January 20, 2020	9.62			39.51	42			0		200000
Tuesday, January 21, 2020	10.9			63	16			0.24		10000
Wednesday, January 22, 2020	20.2			123	88			0.01		20000
Thursday, January 23, 2020	20.9			77	40			0.08		50000
Friday, January 24, 2020	14.8			150	26			0.08		20000
Saturday, January 25, 2020	22.2			106	36			0.04		10000
Sunday, January 26, 2020	16.3			42	18			0.26		70000
Monday, January 27, 2020	9.4			53	20			0.6		10000
Tuesday, January 28, 2020	15.3			56	14			0.74		10000
Wednesday, January 29, 2020	22.7			53	56			0.38		20000
Thursday, January 30, 2020	13.5			33	30			0.35		500000
Friday, January 31, 2020	10.9			15	98			0.34		25000
Jun. 2020 Total	462.58	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx
Jun 2020 Average	14.92194			51.54677	34.06452	#DIV/0!		0.192414		#NUM!
Jan.2020 Max	28.9			150	106			0.94		1600000
Jan.2020 Min	4.3			9	4			0		0
Saturday, February 01, 2020	12.5			121	56					100000
Sunday, February 02, 2020	20.6			60	82			0.06		15000
Monday, February 03, 2020	11.7			52	66			0.75		100000
Tuesday, February 04, 2020	13.8			88	70			0.19		35000
Wednesday, February 05, 2020	16.3			135	42			0.04		1366666
Thursday, February 06, 2020	33.3			130	78			0.16		200000
Friday, February 07, 2020	16.2			96	38			0.01		200000
Saturday, February 08, 2020	15.1			102	41			0.39		1266667

Sunday, February 09, 2020	10.9				70	108			0.29		0
Monday, February 10, 2020	20.3				125	34			0.35		10000
Tuesday, February 11, 2020	22				103	138			0.78		50000
Wednesday, February 12, 2020	21.8				59	38			0.17		13333
Thursday, February 13, 2020	21.6				82	38			1.23		25000
Friday, February 14, 2020	21.2				69	26			0.92		10000
Saturday, February 15, 2020	20				73	24			0.64		10000
Sunday, February 16, 2020	16.7				59	32			0.98		15000
Monday, February 17, 2020	18.8				99	18			1.63		15000
Tuesday, February 18, 2020	20.2				112	118			0.99		20000
Wednesday, February 19, 2020	20.2				52	48			1.37		20000
Thursday, February 20, 2020	21.6				72	30			0.64		23333
Friday, February 21, 2020	21.5				50	24			0.61		15000
Saturday, February 22, 2020	22.5				47	20			1.07		10000
Sunday, February 23, 2020	30.7				56	46			0.01		20000
Monday, February 24, 2020	23.2				98	128			0.02		23333
Tuesday, February 25, 2020	19.7				127	138			0.02		35000
Wednesday, February 26, 2020	21.7				124	122			0.01		10000
Thursday, February 27, 2020	15.4				107	116			0		10000
Friday, February 28, 2020	14.4				84	84			0		10000
Saturday, February 29, 2020	14				170	100			0		16666
Feb. 2020 Total	557.9				xxxx	xxxx			xxxx		xxxx
Feb 2020 Average	19.23793				90.41379	65.62069			0.476071		#NUM!
Feb.2020 Max	33.3				170	138			1.63		1366666
Feb.2020 Min	10.9				47	18			0		0
Sunday, March 01, 2020	12.9				139	120			0		15000
Monday, March 02, 2020	14.6				74	84			0.2		15000
Tuesday, March 03, 2020	12.1				60	194			0.09		20000
Wednesday, March 04, 2020	22.9				62	90			0		12500
Thursday, March 05, 2020	23.9				92	142			0.19		10000
Friday, March 06, 2020	17.9				101	42			0.02		17500
Saturday, March 07, 2020	15.8				192	106			0.01		8333
Sunday, March 08, 2020	8.8				112	32			0.01		8333
Monday, March 09, 2020	16.7				46	20			0.06		10000
Tuesday, March 10, 2020	21.2				42	30			2.05		5000
Wednesday, March 11, 2020	20.8				74	168			1.53		7500

APPENDIX B

EMERGENCY WWTP REPAIR PROJECT CONSTRUCTION SCHEDULE

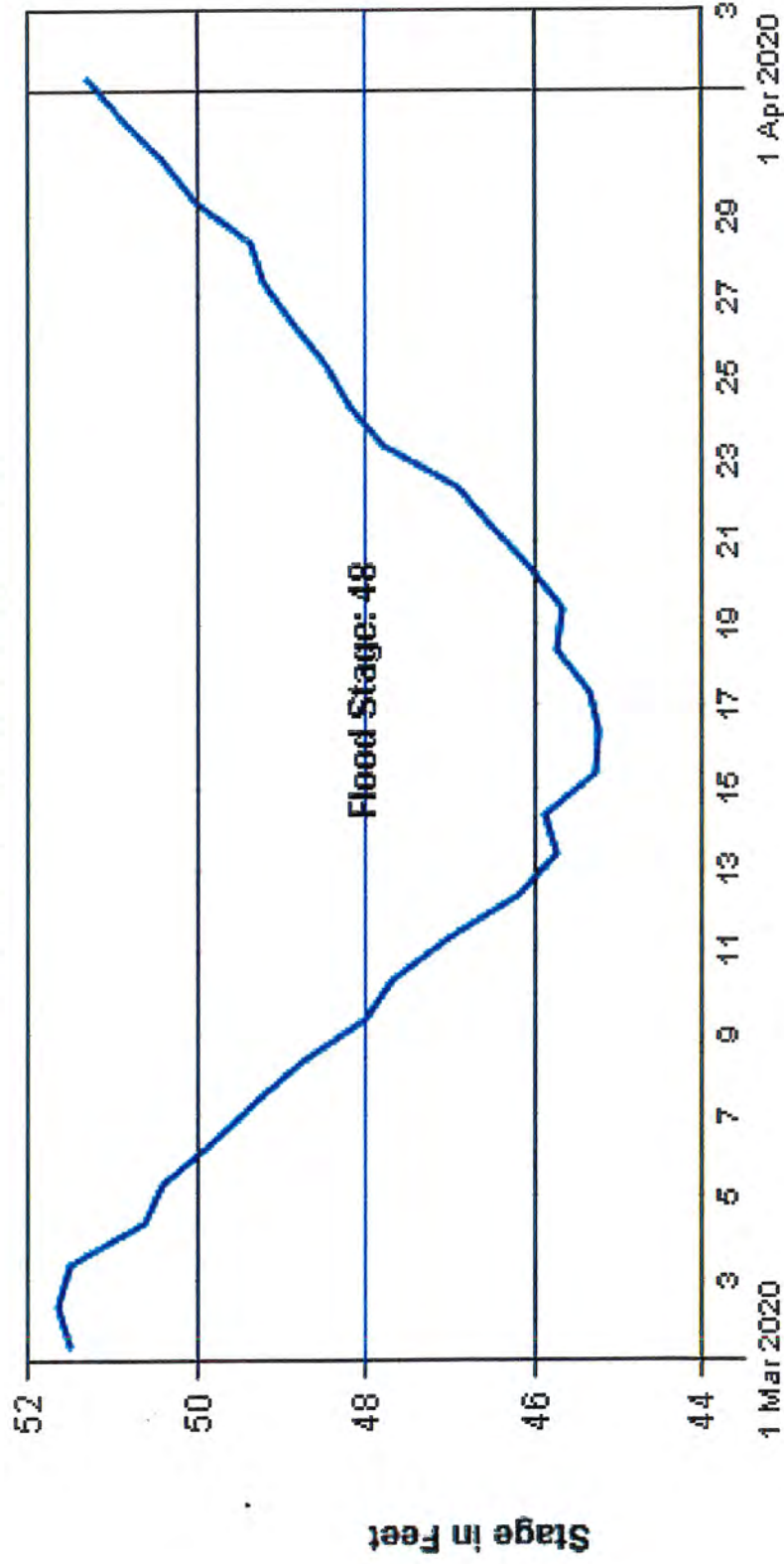
APPENDIX B - EMERGENCY WWTP REPAIR PROJECT, GREENVILLE, MS SCHEDULE



APPENDIX C

MISSISSIPPI RIVER @ GREENVILLE GAGE – MARCH 2020

**Mississippi River @ Greenville, MS
From 03/01/2020 To 04/01/2020**



Gage Zero = 74.92 Ft. NGVD29