



Brunswick-Glynn County Joint Water and Sewer Commission
1703 Gloucester Street, Brunswick GA 31520
Wednesday, October 19, 2022 at 1:00 PM
Commission Meeting Room

FACILITIES COMMITTEE MEETING AGENDA

COMMITTEE MEMBERS: **Committee Chairman Ben Turnipseed**
 Commissioner Bob Duncan
 Commissioner Chuck Cook
 Executive Director Andrew Burroughs

PUBLIC COMMENT PERIOD

Public Comments will be limited to 3 minutes per speaker. Comments are to be limited to relevant information regarding your position and should avoid being repetitious. Individuals should sign in stating your name, address and the subject matter on which you wish to speak. Your cooperation in this process will be greatly appreciated.

APPROVAL

- 1. Minutes from September 14, 2022 Facilities Committee Meeting** *(subject to any necessary changes)*
[REPORT](#)
- 2. Contract Award – Glynn Place Mall and Oglethorpe Elevated Storage Tanks Rehabilitation Project** – A. Burroughs [REPORT](#)
- 3. Contract Award – Inspection Services EST Painting** – A. Burroughs [REPORT](#)
- 4. Contract Award – Engineering Services for Brunswick Villa Area Sewer Extension Project** – A. Burroughs [REPORT](#)
- 5. Contract Award – Administration Bldg. Painting Services** – A. Burroughs [REPORT](#)
- 6. Change Order No. 1 – Arco Water & Sewer Improvements Project** – T. Kline [REPORT](#)
- 7. Contract Award – Paving Services for PS 2002 Force Main Replacement** – A. Burroughs [REPORT](#)

DISCUSSION

- 1. Water Production Report** – A. Burroughs [REPORT](#)
- 2. WPCF Plant Flows Report** – A. Burroughs [REPORT](#)
- 3. Capital Project Report** – T. Kline / A. Burroughs [REPORT](#)
 - **Capital Project Report Photos**
 - **Capital Project Spreadsheet**
 - **Capital Project Gantt Chart**
 - **EVA Report**

MEETING ADJOURNED

*All citizens are invited to attend.
There is a possibility of a quorum of City or County Commissioners being present.*



Brunswick-Glynn Joint Water & Sewer Commission
1703 Gloucester Street, Brunswick, GA 31520
Commission Meeting Room
Wednesday, October 19, 2022 at 1:00 PM

FACILITIES COMMITTEE MINUTES

PRESENT: **Ben Turnipseed, Chairman**
 Bob Duncan, Commissioner
 Charles Cook, Commissioner
 Andrew Burroughs, Executive Director

ALSO PRESENT: **Todd Kline, Director of Engineering**
 Charles Dorminy, HBS Legal Counsel
 LaDonnah Roberts, Deputy Executive Director
 David Owens, Director of Finance
 Janice Meridith, Executive Commission Administrator

Chairman Turnipseed called the meeting to order at 1:00 PM.

Chairman Turnipseed provided the invocation.

PUBLIC COMMENT PERIOD

There being no citizens that wished to address the Committee, Chairman Turnipseed closed the Public Comment Period.

APPROVAL

1. Minutes from Facilities Committee Meeting September 14, 2022
Commissioner Duncan made a motion seconded by Commissioner Cook to approve the minutes from the Facilities Committee Meeting held on September 14, 2022. Motion carried 3-0-0.

2. Contract Award – Glynn Place Mall and Oglethorpe Elevated Storage Tanks Rehabilitation Project – A. Burroughs

Mr. Burroughs provided that the Invitation for Bid on the Elevated Storage Tank Rehabilitation for Glynn Place Mall and Oglethorpe Sites was released on September 1, 2022. The scope of work entails construction related to the repair and painting of two elevated storage tanks. The tanks will be taken down to bare metal and repainted. A pre-bid conference was held on September 20, 2022, resulting in four bids received of which all included the cost of extra as-needed work items and a bid alternate for a higher quality finish coat. The extra work items would be charged out as needed. Staff recommended awarding a contract for the rehabilitation of both the Glynn Place Mall and Oglethorpe tanks to Tank Pro in the amount of \$1,396,617.00 and moving forward with the alternate items as well.

Commissioner Duncan made a motion seconded by Commissioner Cook to move that the Facilities Committee recommend the full Commission award a contract in the amount of \$1,396,617.00 to Tank Pro, Inc. for the Elevated Storage Tank Rehabilitation project for the Glynn Place Mall and Oglethorpe sites.

In response to questions asked by the Commissioners, Mr. Burroughs provided the following. The tanks will both have the JWSC logo painted on them. A curtain will be placed during the blasting and spraying processes to protect the nearby properties. The two tanks are on different systems and both tanks can be worked on at the same time.

Motion carried 3-0-0.

3. Contract Award – Inspection Services EST Painting – A. Burroughs

Mr. Burroughs stated that this contract award is for the inspection services for the rehabilitation of the Glynn Place Mall and Oglethorpe elevated storage tanks as approved in the previous agenda item. Chapman Technical Services has provided ongoing inspection services for all JWSC elevated and ground storage tanks for several years. Through these inspections, the JHWSO has been able to effectively prioritize tanks for maintenance and rehabilitation. Given Chapman’s familiarity with the elevated storage tanks that are being rehabilitated, staff solicited a proposal from Chapman to perform construction inspection services while the tanks are being rehabilitated. Tank inspection services are a specialty service and Chapman brings considerable experience in providing these services. JWSC staff recommends awarding a contract for construction inspection services for both the Glynn Place Mall and Oglethorpe tank rehabilitations in the amount of \$27,000.00. Mr. Burroughs also noted that this cost is actually a reduction of \$2,500 in inspection costs in comparison to the most recent tank rehab inspection contract.

Commissioner Cook made a motion seconded by Commissioner Duncan to move that the Facilities Committee recommend the full Commission award a contract in the amount of \$27,000.00 to Chapman Technical Services, LLC for construction inspection services for the Elevated Storage Tank Rehabilitation for the Glynn Place Mall and Oglethorpe sites. Motion carried 3-0-0.

4. Contract Award – Engineering Services for Brunswick Villa Area Sewer Extension Project – A. Burroughs

Mr. Burroughs advised that the Brunswick Villa area of Glynn County encompasses the neighborhoods and streets off Townsend Street between Altama Avenue and the railroad spur. There are approximately 200 homes and businesses in the area without access to public sewer. The area does have access to public water, although an analysis needs to be completed to determine if there are any necessary fire flow improvements. The Request for Proposals was released on September 2, 2022 with a pre-proposal teleconference held on September 22, 2022. Six proposals were received of which a three-member panel reviewed and scored each proposal. Kimley-Horn and Associates, Inc. was the highest scoring proposal at 93. One item that was included in this proposal is full-time construction inspection services. Mr. Burroughs stated that in recent years, most JWSC projects have included construction inspections by the consultant capped at a budget of 20 hours per week of construction. This proposal includes full-time construction phase services at a budget of 40 hours per week of estimated construction. He added that the 40 hours of inspection services provided will allow JWSC staff to be working at other jobs. Staff recommended awarding a contract for engineering and construction phase services for Brunswick Villa Area Sewer Extensions to Kimley-Horn and Associates, Inc., in the amount of \$486,780. The amount and timeline for completion of services is in line with staff estimates. The proposal submitted by Kimley-Horn and Associates provided preliminary evaluations for gravity and low-pressure sewer options, a commitment to responsiveness and timeliness during the engineering process and had experienced

inspections staff prepared to handle the full-time workload. The engineering contract for production of a bid ready package will be 180 days.

Commissioner Cook made a motion seconded by Commissioner Duncan to move that the Facilities Committee recommend the full Commission award a contract in the amount of \$486,780.00 to Kimley-Horn and Associates, Inc. for engineering and construction inspection services for the Brunswick Villa Area Sewer Extensions project. Motion carried 3-0-0.

5. Contract Award – Administration Bldg. Painting Services – A. Burroughs

Mr. Burroughs advised that as a part of the FY2023 Capital Projects Plan, funds were budgeted to make improvements to JWSC facilities. Improvements are to be made to the Academy Creek warehouse, the Harrington warehouse, and the Administration Building. These were to be handled through smaller contracts due to the disparate nature of the improvements. JWSC obtained estimates for labor and materials to repair stucco issues and painting of the Administration Building located at 1703 Gloucester Street. Mr. Burroughs noted that C. Merrill Construction is the contractor currently performing the renovation construction services for the new Glynn County Elections Board offices located in the old CVS portion of this building, and they also provided the best quote for repairing and painting of the JWSC portions.

Commissioner Duncan made a motion seconded by Commissioner Cook to move that the Facilities Committee recommend the full Commission award a contract in the amount of \$30,000.00 to C. Merrill Construction for stucco repair and painting services for the Administration Building. Motion carried 3-0-0.

6. Change Order No. 1 – Arco Water & Sewer Improvements Project – T. Kline

Mr. Kline highlighted the project background and provided that JWSC received and reviewed Change Order No. 1 recommendation letter from Thomas & Hutton Engineering Co. (EOR). He noted that the bulk of this change order is around water line. The Contractor has requested additional funding in the amount of \$166,003.78 to install an additional 2,600 linear feet of 8-inch PVC water main that was shown on the plans but omitted from the original bid form. The Contractor provided a materials-only increase of \$5.42 per linear foot above the original bid unit cost. The request also includes three new items: six-inch gravity main to facilitate shared extension to two properties; flowable fill for roadway repair at Glynn County designated critical intersections; and clearing and grubbing to accommodate the sewer re-design made possible through the acquisition of easements which will remove quantities of roadway replacement from the contract. A net savings in these items is expected and would be quantified once the re-design option is complete. The Contractor has also requested an additional 135 days of contract time due to supply chain delays for manhole structures/materials, permitting, sewer re-route design changes and easement acquisition. To prevent additional delays and ensure water service is extended to all residents as originally intended, Staff recommends approval of the Contractor's request for additional funding and time extension to the construction contract in the amount of \$166,003.78 and 135 days. Chairman Turnipseed commented that this was an oversight on the EOR's part, yet the quantities were estimated on the bid form and the EOR should not be required to cover the extra cost.

Commissioner Cook made a motion seconded by Commissioner Duncan to move that the Facilities Committee recommend approval of Change Order No. 1 to the Arco Area Water & Sewer Extension to UWS, INC to increase the contract amount by \$166,003.78 and contract time by 135 consecutive calendar days. Motion carried 3-0-0.

7. Contract Award – Paving Services for PS 2002 Force Main Replacement –

A. Burroughs

Mr. Burroughs advised that Pump Station 2002 is located on Arnold Road near the intersection with Ocean Boulevard. The existing force main leaving the station has reached the end of its useful life and needs replacement. T.R. Long Engineering designed improvements to the force main for replacement in the northern shoulder of Arnold Road. Bids were solicited for this work, but project costs came in significantly over budget due to the difficulty of installation in the already crowded right of way. T.R. Long redesigned the force main in the north travel lane of Arnold Road to avoid much of the congestion. JWSC construction crews intend to self-install approximately 1,000 feet of 12-inch PVC force main from the station to the intersection with Demere Road beginning October 31, 2022. There will have to be an additional contract to directionally drill approximately 300 feet of force main along Demere Road and make the three force main connections to swap over to the new force main. JWSC staff will use a “rolling” process to not close the entire road by temporarily patching the open cut sections each day with cold mix and maintaining one lane of travel throughout the project. Once the work is completed, it will be necessary to mill the patches and fully repave Arnold Road. Staff has confidence that installation of this section of force main will be completed and ready for full roadway resurfacing prior to November 14, 2022. Staff contacted paving contractors throughout southeast Georgia and northeast Florida to complete this work and received quotes from two contractors, Allen Owens Construction and Paving, Inc. and Platinum Paving and Concrete. Allen Owens Construction and Paving provided the lower cost and was able to commit to the job on November 14th.

Commissioner Duncan made a motion seconded by Commissioner Cook to move that the Facilities Committee recommend the full Commission award a contract in the amount of \$95,375 to Allen Owens Construction and Paving, Inc. for the paving of Arnold Road due to the Pump Station 2002 Force Main Replacement project. Motion carried 3-0-0.

DISCUSSION

1. Water Production Report – A. Burroughs

Mr. Burroughs presented the Water Production Report for the month of September 2022 to the Facilities Committee. This report provides the Committee with the monthly and daily water production in millions of gallons for each of the BGJWSC water production facilities (wells). The following are Brunswick District production facilities: Howard Coffin, Goodyear Park, Brunswick Villa, FLETC, I-95, Golden Isles I, Golden Isles II, Canal, and Ridgewood. The South Mainland District wells include Fancy Bluff, Exit 29, and Brookman. Mallery, Airport, Harrington, and Hampton South are the wells located in the St. Simons Island District.

2. WPCF Plant Flows Report – A. Burroughs

Mr. Burroughs reviewed the monthly Wastewater Flow Reports with the Commissioners. This report contains data regarding the influent and effluent flows, concentration of elements and chemicals, plant capacity, etc. September 2022 had much more rain than August. The influent flow at Academy Creek for September was 10.4 MGD as compared to August at 5.7. The effluent flow for September went up from 6.5 to 10.7 MGD, with the plant operating at 79% of its capacity. The influent flow at Dunbar Creek was up at 4.2 from the previous 3.1 MGD and the effluent flow increased to 4.1 MGD, with the plant operating at 103% capacity (Violation due to heavy rainfall causing excessive flows). The influent flow at South Port was at 0.247 and the effluent flow remained at 0.449, with the plant operating at 30% capacity. JWSC’s wastewater treatment plants are operating very well.

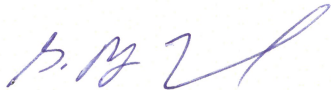
3. Capital Project Report – T. Kline / A. Burroughs

Mr. Kline and Mr. Burroughs presented an update on the September Monthly Project Report for Capital Projects currently in process including those in the engineering phase and those in construction. The

Commissioners were provided with a packet containing: the Capital Project Photographs, Capital Project Report Spreadsheet, the Capital Project Gantt Chart of project timelines, and the Earned Value Analysis Report. Mr. Kline and Mr. Burroughs thoroughly presented the update by discussing each project along with excellent photographs and descriptive details.

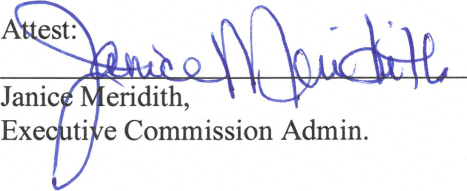
There being no further business, Chairman Turnipseed requested a motion to adjourn the meeting.

Chairman Turnipseed adjourned the meeting at 2:16 p.m.



G. Ben Turnipseed, Chairman

Attest:



Janice Meredith,
Executive Commission Admin.



Brunswick-Glynn

Joint Water and Sewer Commission

Memorandum

To: Facilities Committee
From: Andrew Burroughs, P.E., Executive Director
Date: Wednesday, October 19, 2022
Re: Contract Award – Elevated Storage Tank Rehab – Glynn Place Mall and Oglethorpe Sites

Background:

The Brunswick-Glynn Joint Water & Sewer Commission released Invitation for Bid No. 23-008 Elevated Storage Tank Rehabilitation for Glynn Place Mall and Oglethorpe Sites (Project 2203) on Thursday, September 1, 2022. The scope of work entails construction related to the repair and painting of two (2) elevated storage tanks. The tanks will be taken down to bare metal and repainted.

Staff Report

A pre-bid teleconference and site visits were held on Tuesday, September 20, 2022. Bids were received on Thursday, October 6, 2022. Four bids were received as listed below, including the cost of extra as-needed work items and a bid alternate for a higher quality finish coat:

<u>Contractor</u>	<u>Cost</u>
Tank Pro, Inc.	\$1,396,617
Classic Protective Coatings, Inc.	\$1,722,848
Utility Service Co., Inc.	\$1,864,900
TankRehab.com, LLC	\$2,859,000

Funding

<u>Project</u>	<u>Source</u>	<u>Amount</u>	<u>Rehab Price*</u>	<u>Inspection</u>	<u>Remaining*</u>
Mall & Oglethorpe EST Rehab	R&R	\$1,000,000	\$1,268,117	\$27,000	(\$305,117)

*Does not include extra work items as needed. These will be charged out at time of need.

Recommended Action

Staff recommends awarding a contract for the elevated storage tank rehabilitation projects for the Glynn Place Mall and Oglethorpe sites (Project 2203) to Tank Pro, Inc. in the amount of \$1,396,617.00. As there is no increase in cost for the improved finish coat from Tank Pro, staff recommends moving forward with these alternates as well.

Recommended Motion

“I move that the Facilities Committee recommend that the full Commission award a contract in the amount of \$1,396,617.00 to Tank Pro, Inc. for the Elevated Storage Tank Rehabilitation project for the Glynn Place Mall and Oglethorpe sites.”

Enclosures

Bid Tabulation

Brunswick-Glynn Joint Water & Sewer Commission
IFB No. 23-008
Elevated Storage Tank Rehabilitation Glynn Place Mall and Oglethorpe Sites (Project No. 2203)

Base Bid				Tank Pro, Inc.		Classic Protective Coatings, Inc.		Utility Service Co., Inc.		TankRehab.com, LLC	
Item	Description	Quantity	Units	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total
A1	Oglethorpe EST Mobilization, Demobilization, Insurance & Bonds (2.5% Max)	1	LS	\$ 20,000.00	\$ 20,000.00	\$ 15,000.00	\$ 15,000.00	\$ 7,500.00	\$ 7,500.00	\$ 40,000.00	\$ 40,000.00
A2	Oglethorpe EST Interior Repair and Painting – Furnish all materials, labor, equipment, and appurtenance for rehabilitation of a 500,000 gallons elevated storage tank in accordance with the contract documents, Complete in place.	1	LS	\$ 244,899.00	\$ 244,899.00	\$ 325,000.00	\$ 325,000.00	\$ 100,000.00	\$ 100,000.00	\$ 285,000.00	\$ 285,000.00
A3	Oglethorpe EST Removal and Repair of Altitude Valve – Furnish all materials, labor, equipment, and appurtenance for rehabilitation of a 500,000 gallons elevated storage tank in accordance with the contract documents, Complete in place.	1	LS	\$ 25,000.00	\$ 25,000.00	\$ 20,000.00	\$ 20,000.00	\$ 10,000.00	\$ 10,000.00	\$ 75,000.00	\$ 75,000.00
A4	Oglethorpe EST Exterior Repair and Painting – Furnish all materials, labor, equipment, and appurtenance for rehabilitation of a 500,000 gallons elevated storage tank in accordance with the contract documents, Complete in place.	1	LS	\$ 200,000.00	\$ 200,000.00	\$ 277,948.00	\$ 277,948.00	\$ 515,000.00	\$ 515,000.00	\$ 405,000.00	\$ 405,000.00
A5	Oglethorpe EST SCADA Hardware Installation and Programming – Furnish all materials, labor, equipment, and appurtenance for rehabilitation of a 500,000 gallons elevated storage tank in accordance with the contract documents, Complete in place.	1	LS	\$ 45,000.00	\$ 45,000.00	\$ 45,000.00	\$ 45,000.00	\$ 10,000.00	\$ 10,000.00	\$ 60,000.00	\$ 60,000.00
A6	Oglethorpe EST Electrical Equipment and Installation – Furnish all materials, labor, equipment, and appurtenance for rehabilitation of a 500,000 gallons elevated storage tank in accordance with the contract documents, Complete in place.	1	LS	\$ 100,000.00	\$ 100,000.00	\$ 20,000.00	\$ 20,000.00	\$ 20,000.00	\$ 20,000.00	\$ 100,000.00	\$ 100,000.00
A7	Oglethorpe EST Lettering and Logos – Furnish all materials, labor, equipment, and appurtenance for rehabilitation of a 500,000 gallons elevated storage tank in accordance with the contract documents, Complete in place.	1	LS	\$ 13,000.00	\$ 13,000.00	\$ 9,500.00	\$ 9,500.00	\$ 32,000.00	\$ 32,000.00	\$ 15,000.00	\$ 15,000.00
A8	Oglethorpe EST – Lead/Asbestos/Hazmat Testing and Abatement, Complete in Place. <i>(If necessary)</i>	5,000	EA	\$ 1.00	\$ 5,000.00	\$ 1.00	\$ 5,000.00	\$ 1.00	\$ 5,000.00	\$ 1.00	\$ 5,000.00
SUBTOTAL SECTION A						\$ 652,899.00	\$ 717,448.00	\$ 699,500.00	\$ 699,500.00	\$ 985,000.00	\$ 985,000.00
B1	Glynn Place Mall EST Mobilization, Demobilization, Insurance & Bonds (2.5% Max)	1	LS	\$ 20,000.00	\$ 20,000.00	\$ 15,000.00	\$ 15,000.00	\$ 7,500.00	\$ 7,500.00	\$ 40,000.00	\$ 40,000.00
B2	Glynn Place Mall EST Interior Repair and Painting – Furnish all materials, labor, equipment, and appurtenance for rehabilitation of a 500,000 gallons elevated storage tank in accordance with the contract documents, Complete in place.	1	LS	\$ 207,218.00	\$ 207,218.00	\$ 325,000.00	\$ 325,000.00	\$ 100,000.00	\$ 100,000.00	\$ 285,000.00	\$ 285,000.00
B3	Glynn Place Mall EST Removal and Repair of Altitude Valve – Furnish all materials, labor, equipment, and appurtenance for rehabilitation of a 500,000 gallons elevated storage tank in accordance with the contract documents, Complete in place.	1	LS	\$ 25,000.00	\$ 25,000.00	\$ 20,000.00	\$ 20,000.00	\$ 10,000.00	\$ 10,000.00	\$ 75,000.00	\$ 75,000.00
B4	Glynn Place Mall EST Exterior Repair and Painting – Furnish all materials, labor, equipment, and appurtenance for rehabilitation of a 500,000 gallons elevated storage tank in accordance with the contract documents, Complete in place.	1	LS	\$ 200,000.00	\$ 200,000.00	\$ 375,000.00	\$ 375,000.00	\$ 512,500.00	\$ 512,500.00	\$ 405,000.00	\$ 405,000.00
B5	Glynn Place Mall EST SCADA Hardware Installation and Programming – Furnish all materials, labor, equipment, and appurtenance for rehabilitation of a 500,000 gallons elevated storage tank in accordance with the contract documents, Complete in place.	1	LS	\$ 45,000.00	\$ 45,000.00	\$ 45,000.00	\$ 45,000.00	\$ 10,000.00	\$ 10,000.00	\$ 60,000.00	\$ 60,000.00
B6	Glynn Place Mall EST Electrical Equipment and Installation – Furnish all materials, labor, equipment, and appurtenance for rehabilitation of a 500,000 gallons elevated storage tank in accordance with the contract documents, Complete in place.	1	LS	\$ 100,000.00	\$ 100,000.00	\$ 20,000.00	\$ 20,000.00	\$ 20,000.00	\$ 20,000.00	\$ 100,000.00	\$ 100,000.00
B7	Glynn Place Mall EST Lettering and Logos – Furnish all materials, labor, equipment, and appurtenance for rehabilitation of a 500,000 gallons elevated storage tank in accordance with the contract documents, Complete in place.	1	LS	\$ 13,000.00	\$ 13,000.00	\$ 9,500.00	\$ 9,500.00	\$ 32,000.00	\$ 32,000.00	\$ 15,000.00	\$ 15,000.00
B8	Glynn Place Mall EST – Lead/Asbestos/Hazmat Testing and Abatement, Complete in Place. <i>(If necessary)</i>	5,000	LS	\$ 1.00	\$ 5,000.00	\$ 1.00	\$ 5,000.00	\$ 1.00	\$ 5,000.00	\$ 1.00	\$ 5,000.00

	SUBTOTAL SECTION B			\$ 615,218.00	\$ 814,500.00	\$ 697,000.00	\$ 985,000.00				
	SUBTOTAL SECTIONS A & B			\$1,268,117.00	\$1,531,948.00	\$1,396,500.00	\$1,970,000.00				
AE1	Oglethorpe EST Finish Coat (Alternate) - Furnish all materials, labor, equipment, and appurtenance for rehabilitation of a 500,000 gallons elevated storage tank in accordance with the contract documents, Complete in place.	1	LS	\$0.00	\$0.00	\$ 29,000.00	\$ 29,000.00	\$ 21,300.00	\$ 21,300.00	\$ 295,000.00	\$ 295,000.00
AE2	Glynn Place Mall EST Finish Coat (Alternate) - Furnish all materials, labor, equipment, and appurtenance for rehabilitation of a 500,000 gallons elevated storage tank in accordance with the contract documents, Complete in place.	1	LS	\$0.00	\$0.00	\$ 29,400.00	\$ 29,400.00	\$ 23,100.00	\$ 23,100.00	\$ 295,000.00	\$ 295,000.00
AE3	Furnish all labor, equipment, and appurtenances for "extra welding repair, all weld sizes", Complete in Place.	1,000	LF	\$ 6.00	\$ 6,000.00	\$ 10.00	\$ 10,000.00	\$ 10.00	\$ 10,000.00	\$ 10.00	\$ 10,000.00
AE4	Furnish all materials, labor, equipment, and appurtenances for installation of "extra epoxy caulking at badly pitted surfaces," Complete in Place.	200	GAL	\$ 150.00	\$ 30,000.00	\$ 150.00	\$ 30,000.00	\$ 400.00	\$ 80,000.00	\$ 200.00	\$ 40,000.00
AE5	Furnish all materials, labor, equipment, and appurtenances for "extra 6-inch diameter floor and roof patches including welding in place and grinding smooth", Complete in Place.	200	EA	\$ 75.00	\$ 15,000.00	\$ 75.00	\$ 15,000.00	\$ 150.00	\$ 30,000.00	\$ 250.00	\$ 50,000.00
AE6	Furnish all materials, labor, equipment, and appurtenances for "extra structural members, roof rafters, and all supporting structures, all shape, all sizes including removal and disposal of old members", Complete in Place.	1,500	LBS	\$ 10.00	\$ 15,000.00	\$ 10.00	\$ 15,000.00	\$ 50.00	\$ 75,000.00	\$ 30.00	\$ 45,000.00
AE7	Furnish all materials, labor, equipment, and appurtenances for "extra shell plates, all sizes, all thickness, including removal and disposal of old plates", Complete in Place.	1,500	LBS	\$ 10.00	\$ 15,000.00	\$ 10.00	\$ 15,000.00	\$ 40.00	\$ 60,000.00	\$ 30.00	\$ 45,000.00
AE8	Furnish all materials, labor, equipment, and appurtenances for "extra roof plates, all sizes, all thickness, including removal and disposal of old plates", Complete in Place.	1,500	LBS	\$ 10.00	\$ 15,000.00	\$ 10.00	\$ 15,000.00	\$ 40.00	\$ 60,000.00	\$ 30.00	\$ 45,000.00
AE9	Furnish all materials, labor, equipment, and appurtenances for "extra floor plates, all sizes, all thickness, including sand fill, including removal and disposal of old plates and underlying fill", Complete in Place.	1,500	LBS	\$ 10.00	\$ 15,000.00	\$ 10.00	\$ 15,000.00	\$ 50.00	\$ 75,000.00	\$ 30.00	\$ 45,000.00
AE10	Furnish and install materials, labor, equipment, and appurtenances for installation of "Extra 3/4-inch PVC Schedule 80 conduit", Complete in Place	300	LF	\$ 25.00	\$ 7,500.00	\$ 25.00	\$ 7,500.00	\$ 80.00	\$ 24,000.00	\$ 30.00	\$ 9,000.00
	SUBTOTAL ALTERNATES			\$118,500.00	\$180,900.00	\$458,400.00	\$879,000.00				
	SUBTOTAL SECTIONS A & B, ALTERNATES			\$1,386,617.00	\$1,712,848.00	\$1,854,900.00	\$2,849,000.00				
CASH1	City of Brunswick Code Enforcement and Building Permit(s)	5,000	EA	\$ 1.00	\$ 5,000.00	\$ 1.00	\$ 5,000.00	\$ 1.00	\$ 5,000.00	\$ 1.00	\$ 5,000.00
CASH2	Glynn County Code Enforcement and Building Permit(s)	5,000	EA	\$ 1.00	\$ 5,000.00	\$ 1.00	\$ 5,000.00	\$ 1.00	\$ 5,000.00	\$ 1.00	\$ 5,000.00
	SUBTOTAL CASH ALLOWANCES			\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00				
	TOTAL FOR ALL SECTIONS (A, B, ALTERNATES, CASH)			\$1,396,617.00	\$1,722,848.00	\$1,864,900.00	\$2,859,000.00				



Brunswick-Glynn

Joint Water and Sewer Commission

Memorandum

To: Facilities Committee
From: Andrew Burroughs, P.E., Executive Director
Date: Wednesday, October 19, 2022
Re: Contract Award – Engineering Services for Brunswick Villa Area Sewer Extensions

Background:

The Brunswick Villa area of Glynn County encompasses the neighborhoods and streets off Townsend Street between Altama Avenue and the railroad spur. There are approximately 200 homes and businesses in this area without current access to public sewer. The area does have access to public water, although an analysis needs to be completed to determine if there are any necessary fire flow improvements. In alignment with the ongoing JWSC strategy to prioritize expansion of water and sewer services into currently unserved areas that are adjacent to the existing public system, this area was identified as a target for an expansion project.

Staff Report

Request for Proposals No. 23-010 was released on Friday, September 2, 2022. A pre-proposal teleconference was held on Thursday, September 22, 2022, with seventeen (17) engineering firms in attendance. Six (6) proposals were received on Thursday, October 6, 2022. A three (3) member panel with representation from JWSC Engineering and the Senior Leadership teams reviewed and scored each proposal. A copy of the combined evaluation matrix is attached for your review. Kimley-Horn and Associates, Inc., was the highest scoring proposal at 93. One of the items included in this proposal is full-time construction inspection services. In recent years, most JWSC projects have included construction inspections by the consultant capped at a budget of 20 hours per week of construction. This proposal includes construction phase services at a budget of 40 hours per week of estimated construction.

Funding

<u>Project</u>	<u>Source</u>	<u>Amount</u>	<u>Engineering</u>	<u>Remaining*</u>
Brunswick Villa Area Sewer Extensions	CIF	\$2,750,000	\$486,780	\$2,263,220

Recommended Action

Staff recommends awarding a contract for engineering and construction phase services for Brunswick Villa Area Sewer Extensions (Project 2210) to Kimley-Horn and Associates, Inc., in the amount of \$486,780. The amount and timeline for completion of services is in line with staff estimates. The proposal submitted by Kimley-Horn and Associates provided preliminary evaluations for gravity and low-pressure sewer options, a commitment to responsiveness and timeliness during the engineering process and had experienced inspections staff prepared to handle the proposed full-time workload. The engineering contract for production of a bid ready package will be 180 days.

Recommended Motion

“I move that the Facilities Committee recommend that the full Commission award a contract in the amount of \$486,780.00 to Kimley-Horn and Associates, Inc. for engineering and construction inspection services for the Brunswick Villa Area Sewer Extensions project.”

Enclosures

Combined Proposal Evaluation Scorecard

RFP No. 23-010 Engineering Services for Brunswick Villa Area Sewer Extension		Benchmark Management, LLC			Four Waters			GWES, LLC			Hussey, Gay, Bell			Kimley-Horn			TR Long		
Evaluation Criteria	Possible Points																		
<i>General Experience of the Firm</i>	10	9	10	8	8	10	9	8	10	7	10	10	9	10	10	9	9	10	7
<i>Specific Experience of Proposed Personnel</i>	20	14	17	12	16	19	19	12	17	10	10	18	12	18	18	19	20	19	10
<i>Demonstrated Understanding of Project Objective and Scope</i>	30	24	25	20	30	29	30	26	26	20	26	27	25	28	27	28	28	28	20
<i>Clarity of Project Timeline and Deliverables</i>	25	23	22	20	24	24	23	24	23	20	22	22	20	22	23	25	25	24	20
<i>Pricing</i>	15	9	9	9	10	10	10	14	14	14	15	15	15	14	14	14	12	12	12
COMBINED SCORE		231			271			245			256			279			256		
AVERAGE SCORE		77.0			90.3			81.7			85.3			93.0			85.3		



Brunswick-Glynn

Joint Water and Sewer Commission

Memorandum

To: Facilities Committee
From: Andrew Burroughs, P.E., Executive Director
Date: Wednesday, October 19, 2022
Re: Contract Award – Inspection Services for Elevated Storage Tank Rehabilitation

Background:

The Brunswick-Glynn Joint Water & Sewer Commission released Invitation for Bid No. 23-008 Elevated Storage Tank Rehabilitation for Glynn Place Mall and Oglethorpe Sites (Project 2203) on Thursday, September 1, 2022. The scope of work entails construction related to the repair and painting of two (2) elevated storage tanks. The tanks will be taken down to bare metal and repainted. Chapman Technical Services (Chapman) has provided ongoing inspection services for all JWSC elevated and ground storage tanks for several years. Through these inspections, the JWSC has been able to effectively prioritize tanks for maintenance and rehabilitation.

Staff Report

Given Chapman’s familiarity with the elevated storage tanks that are being rehabilitated, staff solicited a proposal from Chapman to perform construction inspection services while the tanks are being rehabilitated. Tank inspection services are a specialty service and Chapman brings considerable experience in providing these services. JWSC staff recommends accepting Chapman’s proposal for these inspection services in the amount of \$27,000.00. The funding for this project will come from allocated R&R funds.

Funding

<u>Project</u>	<u>Source</u>	<u>Amount</u>	<u>Rehab Price*</u>	<u>Inspection</u>	<u>Remaining*</u>
Mall & Oglethorpe EST Rehab	R&R	\$1,000,000	\$1,268,117	\$27,000	(\$305,117)

*Does not include extra work items as needed. These will be charged out at time of need.

Recommended Action

Staff recommends awarding a contract for construction inspection services for the elevated storage tank rehabilitation projects for the Glynn Place Mall and Oglethorpe sites (Project 2203) to Chapman Technical Services, LLC in the amount of \$27,000.00. This is actually a reduction of \$2,500 in inspection costs in comparison to the most recent tank rehab inspection contract.

Recommended Motion

“I move that the Facilities Committee recommend that the full Commission award a contract in the amount of \$27,000.00 to Chapman Technical Services, LLC for construction inspection services for the Elevated Storage Tank Rehabilitation for the Glynn Place Mall and Oglethorpe sites.”

Enclosures

Chapman Technical Services Proposal



5858 Vaughn Dr E
Satsuma, AL 36572
251-442-5911

August 31, 2022

Brunswick - Glynn County Joint Water & Sewer Commission

RE: Coatings Inspection for Mall Tank & Oglethorpe Tank

Chapman Technical Services is pleased to provide the following quote for coatings inspection.

DESCRIPTION OF PROJECT: Mall Tank - 500,000 Gallon Pedisphere Water Tank

SCOPE OF WORK:

SCOPE OF WORK:

1. Construction inspection with the following inspection schedule. Note-All inspection will include a report with pictures:
 - a. Inspection 1-5—Interior blast prior to priming inside and outside of the water tank.
 - b. Inspection 6-8 –Exterior pressure wash, spot tool, spot prime.
 - c. Inspection 9 -14 -Periodical inspections to see progress of work and check thickness of intermediate and final coats.
 - d. Inspection 15 -Holiday detect inside of tank. The rigging will have to be in place for this to take place. This will include a follow up inspection if holidays are detected.
 - e. Inspection 16 - Substantial Completion Inspection.
 - f. Inspection 17 -Final Inspection.
 - g. Inspection 18- 11 Month Warranty Inspection.

Total Lump Sum Price: \$13,500.00

DESCRIPTION OF PROJECT: Oglethorpe Tank - 500,000 Gallon Pedisphere Water Tank

SCOPE OF WORK:

SCOPE OF WORK:

1. Construction inspection with following inspection schedule:
 - a. Inspection 1-5—Interior blast prior to priming inside and outside of the water tank.
 - b. Inspection 6-8 –Exterior pressure wash, spot tool, spot prime.
 - c. Inspection 9 -14 -Periodical inspections to see progress of work and check thickness of intermediate and final coats.
 - d. Inspection 15 -Holiday detect inside of tank. The rigging will have to be in place for this to take place. This will include a follow up inspection if holidays are detected.
 - e. Inspection 16 - Substantial Completion Inspection.
 - f. Inspection 17 -Final Inspection.
 - g. Inspection 18- 11 Month Warranty Inspection.

Total Lump Sum Price: \$13,500.00

Grand Total Lump Sum Price - \$27,000.00

Clarifications:

1. The inspections listed above are typical, the quantity may vary depending on the circumstances.
2. Price includes daily reports with weather conditions, coatings testing, site conditions, deficiencies, and pictures of activities.
3. Price includes review of, participation with pre-con meeting and construction up-date meetings, review tabulation bids, contract documents, prepare recommendation letter for award, contractor submittals, review of contractor pay request, review of contractor change orders, and provide clarifications on issues that come up during construction.

If you have any questions, please let me know.

Ed Chapman, PE

Chapman Technical Services, LLC



Brunswick-Glynn

Joint Water and Sewer Commission

Memorandum

To: Facilities Committee
From: Andrew Burroughs, P.E., Executive Director
Date: Wednesday, October 19, 2022
Re: Contract Award – Administration Building Painting Services

Background:

As part of the FY2023 Capital Projects Plan, funds were budgeted to make improvements to JWSC facilities. Improvements are to be made to the Academy Creek warehouse, the Harrington warehouse, and the Administration Building. These were to be handled through smaller contracts due to the disparate nature of the improvements.

Staff Report

JWSC staff obtained estimates for labor and materials to repair stucco issues and painting of the Administration Building located at 1703 Gloucester Street. Bids are shown in the table below. Please note C. Merrill Construction is the contractor currently performing the renovation construction services for the new Glynn County Elections Board offices.

<u>Contractor</u>	<u>Cost</u>
C. Merrill Construction	\$30,000
B. James Construction, LLC	\$34,575
D&D Decorators, Inc.	\$94,831

Funding

<u>Project</u>	<u>Source</u>	<u>Budget</u>	<u>Expenses to Date</u>	<u>Encumbrances</u>	<u>Remaining</u>
JWSC Facilities Improvements	R&R	\$450,000	\$28,634	\$11,593	\$410,043

Recommended Action

Staff recommends awarding a contract for stucco repair and painting services for the JWSC Administration Building (Project 2211) to C. Merrill Construction in the amount of \$30,000.00.

Recommended Motion

“I move that the Facilities Committee recommend that the full Commission award a contract in the amount of \$30,000.00 to C. Merrill Construction for stucco repair and painting services for the Administration Building.”

Enclosures

C. Merrill Construction Estimate
B. James Construction, LLC Estimate
D & D Decorators, Inc. Estimate



P.O. Box 3008
Statesboro, GA 30459

Phone 912/988.8934

CMERRILLCONSTRUCTION.COM

9/20/2022

Mark Hopkins
Glynn County

JWSC:

Gentlemen,

Below is our proposal to complete the stucco repair for the Glynn County Board of Elections building. The scope of work is to include all labor, materials, and supervision to patch and repair all holes and cracks at existing stucco, matching texture and finish. Additionally, we will **pressure wash the building** and install 2 coats of elastomeric paint over all existing building stucco and block walls.

Construction Proposal:	\$30,000.00
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We can run this as a change order to our existing project or sign a contract as a new project. Whatever is most amicable to the county, CMC is willing to accommodate.

Thank you for the opportunity to provide you with this price. We are grateful for you and the relationships you continue to build with CMC and Glynn County. If you have any questions, please reach out at any time. I look forward to hearing from you soon.

Sincerely,

Chase Merrill

B. JAMES CONSTRUCTION, LLC
4478 Meadow Wood Road
Blackshear, GA 31516
P: 912-449-3739

October 29, 2021

Mr. Mark Hopkins, Facilities Maintenance & Securities Superintendent
Brunswick-Glynn County Joint Water & Sewer Commission
1715 Gloucester Street
Brunswick, GA 31520

Ref: Pressure Wash and Exterior Repaint
Brunswick-Glynn County Joint Water and Sewer Commission Building

Attention: Mr. Hopkins

We are pleased to quote pressure washing and repainting the exterior of your building with the following items included.

- Pressure wash exterior of building including sidewalks that run along the building and the awnings
- Caulk any cracks in the exterior walls and trim
- Repaint entire exterior of building including walls, trim, doors, frames, wood windows and handrails
- One coat along front and right-hand end
- Two coats at rear and left-hand end of building
- Spot prime areas that have loose paint
- We have enough paint on hand (for two weeks) if you would like for us to do this project. Paint is not readily available
- No permit fees included
- Workers Compensation and General Liability Insurance is included
- Quote is firm for 30 days

All for the lump sum of \$34,575.00

Thank you for giving us this opportunity. We would consider it an honor to be able to do this work for you.

Respectfully Submitted,
Brian D. James



B. James Construction, LLC



Estimate

P.O. Box 1215 Brunswick, GA 31521
 Fax. 912-261-2679
 email. info@dndcompany.com

Name / Address
Brunswick-Glynn Co. Joint Water & Sewer 1703 Gloucester Street Brunswick, GA 31520 912-506-9266

Date	Estimate #
10/13/2021	11886

Project
Exterior Painting

Description	Total
<p>Stucco repairs in multiple locations. Block repair in one location. Painting the block walls, stucco walls, ceilings, columns, doors with frames, windows, soffit with fascia boards, downspouts, metal flashing, metal handrails and bollards, and pressure washing. We will exclude painting any storefront doors, windows, and the blue downspouts on the west side of the building. Price includes the following.</p> <p>I. Repairs</p> <p>1. Stucco repairs: Scrape any loose or flaking finishes and sand smooth. Apply one coat of fine stucco patch to match the existing finish. Spot prime all repairs. Use Kat-5 textured stucco caulk to fill any hairline cracks.</p> <p>2. Block repair: Scrape any loose or flaking cement. Use hydraulic cement to fill any holes or gaps. Fill any holes in the mortar joints. Use elastomeric caulk to caulk all cracks. Spot prime all repairs.</p> <p>II. Painting</p> <p>1. Pressure wash the entire exterior including all sidewalks, walkways, and awnings. Use a chlorine solution and a high pressure washer to remove all dirt, loose paint, mildew, etc. We will hand clean all windows and doors to prevent spotting or streaking.</p> <p>2. Soffit with fascia boards and windows: Scrape any loose or flaking paint and sand smooth. Caulk all cracks and fill all nail holes. Use a rust inhibitor primer to treat any rusted nail heads. Spot prime any exposed surfaces. Apply two coats of 100% acrylic latex.</p> <p>3. Metal flashing, downspouts, and door doors with frames: Scrape any loose or flaking finishes and sand smooth. Sand any surface rust and prime with a rust inhibitor primer. Apply one coat of DTM bonding primer. Caulk all cracks and apply two coats of DTM finish latex.</p> <p>4. Bollards: Scrape any loose paint or surface rust and apply one coat of rust inhibitive primer. Apply two coats of safety yellow 100% acrylic latex.</p> <p>5. Stucco walls, block walls, ceilings and columns: Scrape any loose or flaking</p>	

Total



Estimate

P.O. Box 1215 Brunswick, GA 31521
 Fax. 912-261-2679
 email. info@dndcompany.com

Name / Address
Brunswick-Glynn Co. Joint Water & Sewer 1703 Gloucester Street Brunswick, GA 31520 912-506-9266

Date	Estimate #
10/13/2021	11886

Project
Exterior Painting

Description	Total
finishes and sand smooth. Apply one coat of Loxon masonry bonding primer. Apply two coats of a waterproofing elastomeric latex. 6. Metal handrails: Sand smooth and spot prime and exposed surfaces. Apply two coats of DTM finish latex. Labor and Materials	94,831.00
Note We will use caution tape and cones to block off areas from pedestrians in the areas we are working in.	

Estimates only valid for 60 days after date on estimate. 3% Surcharge on credit card payments. Alternate Prices are not included in base price.	Total \$94,831.00
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Brunswick-Glynn

Joint Water and Sewer Commission

Memorandum

To: Facilities Committee
From: Todd Kline, P.E., Director of Engineering
Date: Wednesday, October 19, 2022
Re: APPROVAL – Change Order #1; Arco Area Water & Sewer Extension

Overview

- Who: Thomas & Hutton Engineering Co. (Engineer of Record) and UWS, Inc. (Contractor)
- What: Request for Additional Funding and Time Extension to the construction contract.
 - Notice to Proceed: March 07, 2022 (210 days, orig. contract time)
 - Contract Amount (Funding): \$3,655,749.60
 - Request for Time Extension: 135 days
 - Request for Addition Funding Amount: \$166,003.78
- Why: Compensation for additional water/sewer/roadway repair/clearing, and additional contract time due to materials delays/permitting/design changes.

Staff Report

JWSC staff received and reviewed a Change Order No. 1 recommendation letter dated October 11, 2022, from Thomas & Hutton Engineering Co. (EOR). The Contractor has requested additional funding in the amount of \$166,003.78 to install an additional 2,600 l.f. of 8-inch PVC water main that was shown on the plans but omitted from the original bid form. The Contractor provided a materials (only) pricing increase of \$5.42/l.f. above the original bid unit cost (supplier documentation attached). The request also includes three new items. Six-inch gravity main to facilitate shared extension to two properties. Flowable fill for roadway repair at Glynn County designated critical intersections. Clearing and grubbing to accommodate the sewer re-design made possible through the acquisition of easements which will remove quantities of roadway replacement from the contract. A net savings in these items is expected and would be quantified once the re-design option is complete.

The Contractor has also requested an additional 135 days of contract time due to supply chain delays for manhole structures/materials, permitting, sewer re-route design changes and easement acquisition.

Recommended Action

To prevent additional delays and ensure water service is extended to all residents as originally intended, Staff recommends approval of the Contractor's request for additional funding and time extension to the construction contract in the amount of \$166,003.78 and 135 days. Staff will work with the EOR to determine their contribution towards compensation for project cost increases.

Recommended Motion

"I move that the Facilities Committee recommend approval of Change Order No. 1 to the Arco Area Water & Sewer Extension to UWS, INC to increase the contract amount by \$166,003.78 and contract time by 135 consecutive calendar days."

Enclosures

Thomas & Hutton Recommendation of Approval
Contractor's Additional Pricing Request (dated 09/14/2022)
Contractor's Material Delays Letter Package

To: Harry Patel, BGJWSC
FROM: Chris Stovall, P.E.
Project: JWSC Project No. #2016
Arco Water & Sewer Improvements
Change Order #1
Date: September 7, 2022

Harry,

Pursuant to a request from the contractor for Change Order #1, the following is provided concerning justifications and recommendations for the work for several additional line items to be added to the bid form.

As work has progressed on the water main portion of the project, the contractor noted by RFI that the quantities on the bid form did not match the plan figures. We then reviewed the plans and bid form and verified this discrepancy. Two other items were also found to be missing from the bid form: 6-inch gravity sewer and flowable fill for pavement repairs.

The change order would apply to the following quantities:

1. 8" Water Main 2,600 l.f. @ \$49.82 = \$129,532.00
2. 6" Gravity Sewer Main 306 l.f. @ \$70.88 = \$21,689.28
3. Flowable Fill, 20 CY @ \$384.75 = \$7,695.00

While it is unfortunate that these items were not included on the original bid form, they are necessary items for completion of the project as designed. The unit prices are reasonable and justifiable for the work to be completed. We would recommend that these line items be added to the contractor's bid form in the form of a change order with the quantities and unit prices as discussed above.

The 6" Gravity Sewer and the Flowable Fill line items are totally new line items. There was an 8" Water Main line item in the original bid form; however, due to the variability of material prices due to material shortages and supply chain issues, the contractor has requested for a modification to the additional pipe installation based on a material-only increase of \$5.42 per linear foot. No change in labor costs is planned. The original unit price was \$44.40. With the pipe material modification, the new unit price is \$49.82. Again, under the mitigating circumstances we are currently facing for materials, the pipe cost increase appears justified as new pipe needs to be ordered.

Lastly, a design modification was completed that will better suit installation of the sewer for final connection of service laterals in the vicinity of Cochran Street and Ogg Street. The original plan was to install sewer within the rights of way of each street, which would necessitate pavement cuts for installation of mains as well as service laterals to the property lines. After discussion with property owners in this area, an agreement was reached to install the sewer main behind the houses, which will facilitate connection to the sewer system for these homes and provide additional sewer use revenues on a quicker basis. There was not a line item for tree removal in the original bid form, so a new line item has been requested for clearing. The cost for the clearing will be \$7,087.50 and is reasonable and justifiable expense for the easement area. Note that there will be some savings in the depth of sewer and the amount of pavement removal and replacement that will be reflected in the final adjusting bid form. At this time, due to the nature of tight quarters of the project, we recommend waiting until the final quantities are known to modify the amounts of the existing line items. Change Order No. 1 will be completed to add the new line items needed for the project.



P.O. Box 516 - Trion, GA 30753
Phone: 706-734-0577 Fax: 706-734-0805
www.uwsinc.net

Additional Pricing Request

6" PVC gravity sewer - \$70.88/LF

Flowable Fill - \$384.75/CY

Additional clearing and restoration due to relocating sewer lines from Ogg to Franklin and from Cochran to back of property - \$7,087.50 lump sum

Additional 8" PVC water main that was left out of bid quantities - \$49.82/LF

Asphalt – Request for line item to be split into two pay items

Removal/disposal - \$10.00/SY

Replacement - \$50.00/SY

Thank you.

Zach Hughes
Vice President



Accounting

Phone:(843) 821-7600

Fax: (843) 821-7627

P.O. Box 3467

Summerville, SC 29484-3467

Sales Office

Phone:(843) 873-3011

Fax:(843) 873-8994

5/16/2022

Knight's Precast
203 Edsel Drive
Richmond Hill, GA31324

Subject: Rock Shortage in Savannah Market

To Whom It May Concern:

Due to a raw material shortage I regret to inform our customer base serviced from our Richmond Hill plant that production efforts have been hindered. We have and will continue our best to exhaust all resources to ensure this issue has minimal impact on our schedule moving forward.

We greatly appreciate your business and your willingness to work through this issue. Please feel free to contact me if you have any additional questions or concerns.

Sincerely,

Jordan Thaxton
Sales Manager
843.259.3565
jthaxton@knightscompanies.com



From: Westin.Cofer@ferguson.com
Subject: BG ARCO LEAD-TIMES
Date: May 16, 2022 at 3:55 PM
To: tripp.guc@gmail.com



Started to order material on 3/15/22 with anticipated lead-times on the following items:

Pipe: 6-8 weeks lead-time – all pipe has delivered

MJ Fittings and Valves 16 weeks- we have supplied what MJ fittings and valves we could from our stock but most of these won't be available for shipment until July.

Sewer Fittings: 7-9 week lead-time on the total order, we have shipped what we have with the remainder coming in end of this month, however some items such as 6" double wyes will not be in until July.

Let me know if you need anything else.

Westin Cofer

Outside Sales

Ferguson Waterworks #312

Ferguson, a Wolseley company 70 Columbia Dr, Pooler, GA 31322

Phone: (912) 330-0140, Mobile: (912) 210-8805 Fax: (912) 330-0187



Brunswick-Glynn

Joint Water and Sewer Commission

Memorandum

To: Facilities Committee
From: Andrew Burroughs, P.E., Executive Director
Date: Wednesday, October 19, 2022
Re: Contract Award – Paving Services for Pump Station 2002 Force Main Replacement

Background:

Pump Station 2002 is located on Arnold Road near the intersection with Ocean Boulevard. The existing iron force main leaving the station has reached the end of its useful life and needs replacement. T.R. Long Engineering designed improvements to the force main for replacement in the northern shoulder of Arnold Road. Bids were solicited for this work, but project costs came in significantly over budget due to the difficulty of installation in the already crowded right of way. T.R. Long redesigned the force main in the north travel lane of Arnold Road to avoid much of the congestion. JWSC construction crews intend to self-install approximately 1,000 feet of 12” PVC force main from the station to the intersection with Demere Road beginning October 31, 2022. There will have to be an additional contract to directionally drill approximately 300 feet of force main along Demere Road and make the three force main connections to swap over to the new force main.

Staff Report

JWSC staff will temporarily patch the open cut sections each day with cold mix and maintain one lane of travel throughout the project. However, once the work is completed, it will be necessary to mill the patches and fully repave Arnold Road. Staff has confidence that installation of this section of force main will be completed and ready for full roadway resurfacing prior to November 14, 2022. Staff has paving contractors throughout southeast Georgia and northeast Florida to complete this work and received quotes from two (2) contractors as shown below.

<u>Contractor</u>	<u>Cost</u>
Allen Owens Construction and Paving, Inc.	\$95,375
Platinum Paving and Concrete	\$128,486

Funding

<u>Project</u>	<u>Source</u>	<u>Amount</u>	<u>Spent to Date</u>	<u>Encumbrances</u>	<u>Paving</u>	<u>Remaining</u>
PS 2002 FM Replacement	R&R	\$500,000	\$142,132.61	\$28,355.47	\$95,375	\$234,136.92

Recommended Action

Staff recommends awarding a contract for paving of Arnold Road for the Pump Station 2002 Force Main Replacement Project (Project 2014) to Allen Owens Construction and Paving, Inc. in the amount of \$95,375.00.

Recommended Motion

“I move that the Facilities Committee recommend that the full Commission award a contract in the amount of \$95,375 to Allen Owens Construction and Paving, Inc. for the paving of Arnold Road due to the Pump Station 2002 Force Main Replacement project”

Enclosures

Allen Owens Quote
Platinum Quote

Allen Owens Construction and Paving, Inc

2990 US Hwy 84 W
Blackshear, Ga. 31516
912-449-3642
owensconst@bellsouth.net

Proposal

Proposal Date:	Proposal #:
10/13/2022	1350

Brunswick Glynn Co Joint Water & Sewer
1703 Gloucester Street
Brunswick, GA 31520

Description	Qty.	Unit	Unit Price	Total
Mobilization	1	LS	2,500.00	2,500.00
Traffic Control	1	LS	10,000.00	10,000.00
Milling 0-1.75"	2,500	SY	11.50	28,750.00
Remove existing cold mix patch	600	SY	7.50	4,500.00
1" of 9.5mm Asphalt Overlay	2,500	SY	15.75	39,375.00
1 - Stop Bar + Double Yellow	1	LS	750.00	750.00
GAB Base	100	Tons	95.00	9,500.00

	Acceptance Signature:	Total	\$95,375.00



PROPOSAL AND CONTRACT

Platinum Paving and Concrete
 1020 Old River Road
 Bloomingdale, GA 31302

September 27, 2022

Brunswick-Glynn County Joint Water & Sewer Commission
 2909 Newcastle Street
 Brunswick, GA 31520

RE: Arnold Street, St Simons Island

Mr. Eric White,

Platinum Paving and Concrete is pleased to provide the following pricing for the above referenced project.

Bid Item	Item Description	Estimated Quantity	Unit of Measure	Unit Price	Estimated Amount
5	Mobilization	1	LS	\$ 9,385.00	\$ 9,385.00
10	Traffic Control	1	LS	\$ 20,875.00	\$ 20,875.00
15	4" HMA Trench Patching Including Grading	600	SY	\$ 73.50	\$ 44,100.00
20	1.5" Milling	1,600.00	SY	\$ 7.05	\$ 11,280.00
25	Tack Coat	2,200.00	SY	\$ 0.46	\$ 1,012.00
30	1.5" HMA Resurfacing	2,200.00	SY	\$ 15.95	\$ 35,090.00
35	4" Yellow Striping Paint	2,400.00	LF	\$ 1.40	\$ 3,360.00
40	4" White Edge Stripe Paint	2,400.00	LF	\$ 1.41	\$ 3,384.00
Estimated Contract Amount					\$ 128,486.00

Quote Specific Notes and Quote Conditions

Quote invalid if not executed and returned within 30 days of the date of this quote.

This proposal will be valid based upon a signed mutually agreeable subcontract.

Payment terms are within 30 days of invoice. Any and all fees and or costs associated with not complying with this contractual requirement, by Customer, shall be paid for by Customer.

Base or subgrade shall be true to line, true to grade, ready to pave by others. HMA volumes required for pave, in excess of theoretical tons shall be billed as an additional line item, at market price inclusive of haul.

PP&C is not responsible for drainage on projects with areas less than 1% slope.

PP&C can not be held responsible for failures in roadway due to existing conditions.

This proposal is tied to the GDOT Asphalt index as of March 1, 2022. Any increase in the index will be passed on to the Client. Any decrease will not be credited. In addition, Price is predicated on aggregate availability at local aggregate rail facilities. No long haul included from quarry. Any increase in aggregate cost shall be passed on to customer.

All grade shall be true to line, compact, ready to design grades for Platinum to complete its scope.

No other items of work are included not specifically listed above.

Quote contemplates work being completed by end of 2022.

Contract Terms and Conditions

1. ENTIRE AGREEMENT

This Contract, together with the provisions, costs, and description of services set forth on the reverse side of this document, or attached hereto, embodies and constitutes the entire agreement between Platinum Paving and Concrete, LLC, and the Customer. No representation, warranty, arrangement or statement, either oral or written, not expressly set forth herein shall be enforceable or binding on the parties.

2. AUTHORITY TO ENTER INTO AGREEMENT

If the premises upon which the work contemplated by this Agreement is owned by a person or entity other than the Customer, or if the Customer should own the premises as tenant in common or otherwise jointly, then the Customer represents to Platinum Paving and Concrete, LLC, that the Customer has the authority to act for, contract on behalf of, and otherwise to bind such other persons or entities or co-owners, as well as the Customer, to the terms and conditions herein.

3. ISSUANCE OF NOTICE TO PROCEED WITHIN FORTY-FIVE DAYS

In the event Platinum Paving and Concrete, LLC, does not receive a Notice to Proceed with the work under this Agreement from the Customer within forty-five days following acceptance of this proposal, then Platinum Paving and Concrete, LLC, at its option, may declare this Contract to be null and void, and Platinum Paving and Concrete, LLC, will have no further obligations hereunder nor be bound by the terms and conditions hereof.

4. THE WORK

Platinum Paving and Concrete, LLC, will perform its services in a workmanlike manner with standard company equipment and materials. The Customer expressly agrees to provide Platinum Paving and Concrete, LLC, with suitable and unimpeded access to the work area. The Customer further expressly agrees to sequence the work of other trades in such a manner as to permit Platinum Paving and Concrete, LLC, to perform its work in an uninterrupted, single shift operation.

5. CHANGES IN THE WORK

Changes to the scope of the Work set forth in this Contract shall be made only upon express agreement of the parties hereto, as set out in a written change order, signed by Platinum Paving and Concrete, LLC, and the Customer. In the event a change order is agreed to between the parties, the contract price and time will be adjusted accordingly

6. TIME

Unless the parties set forth herein an agreed upon schedule for performance of the Work, Platinum Paving and Concrete, LLC, shall commence and perform the Work in the course of its usual and customary operating schedule. Platinum Paving and Concrete, LLC, shall be entitled to recover damages for delays to the progress of the Work caused by the Customer or by entities for whom the Customer is responsible. Platinum Paving and Concrete, LLC, shall be entitled to time extensions in the event the Work is delayed without the fault or neglect of Platinum Paving and Concrete, LLC.

7. PAYMENT

The Customer shall make payment to Platinum Paving and Concrete, LLC, in the manner set forth herein. Interest of one and one-half percent (1.5%) per month, or the highest interest allowed by applicable law, whichever is greater, shall be charged and paid on all unpaid balances. If any unpaid balances are collected through an attorney at law, then the Customer shall pay all such costs of collection, including fifteen percent (15%) of the unpaid balance, plus interest thereon, as attorney's fees.

Robert B. Royal
Vice President

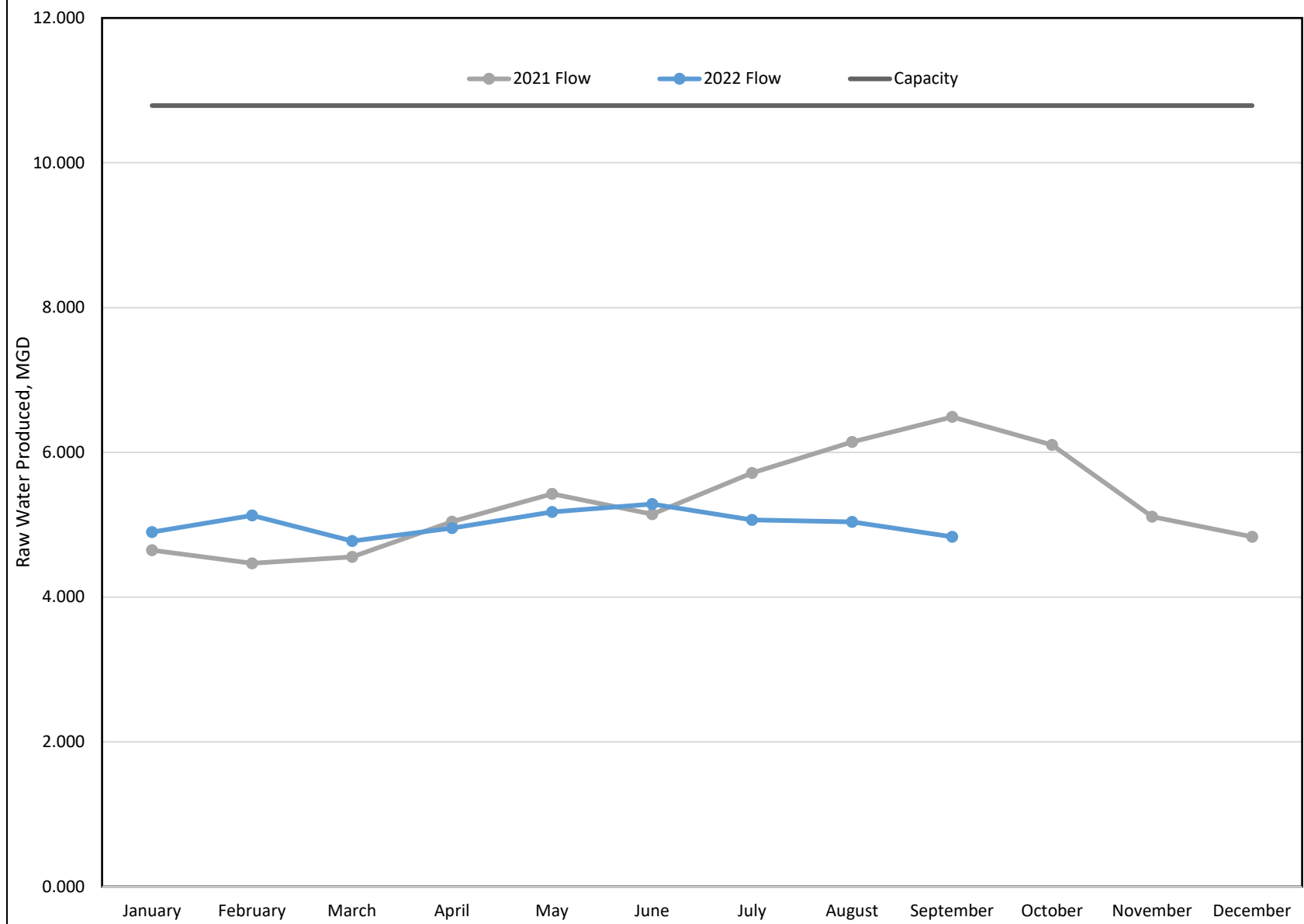
Platinum Paving and Concrete
1020 Old River Rd
Bloomington, GA 31302

O: 912-713-7283 | C: 912-210-6398

rroyal@platinumpavingga.com
www.platinumpavingga.com

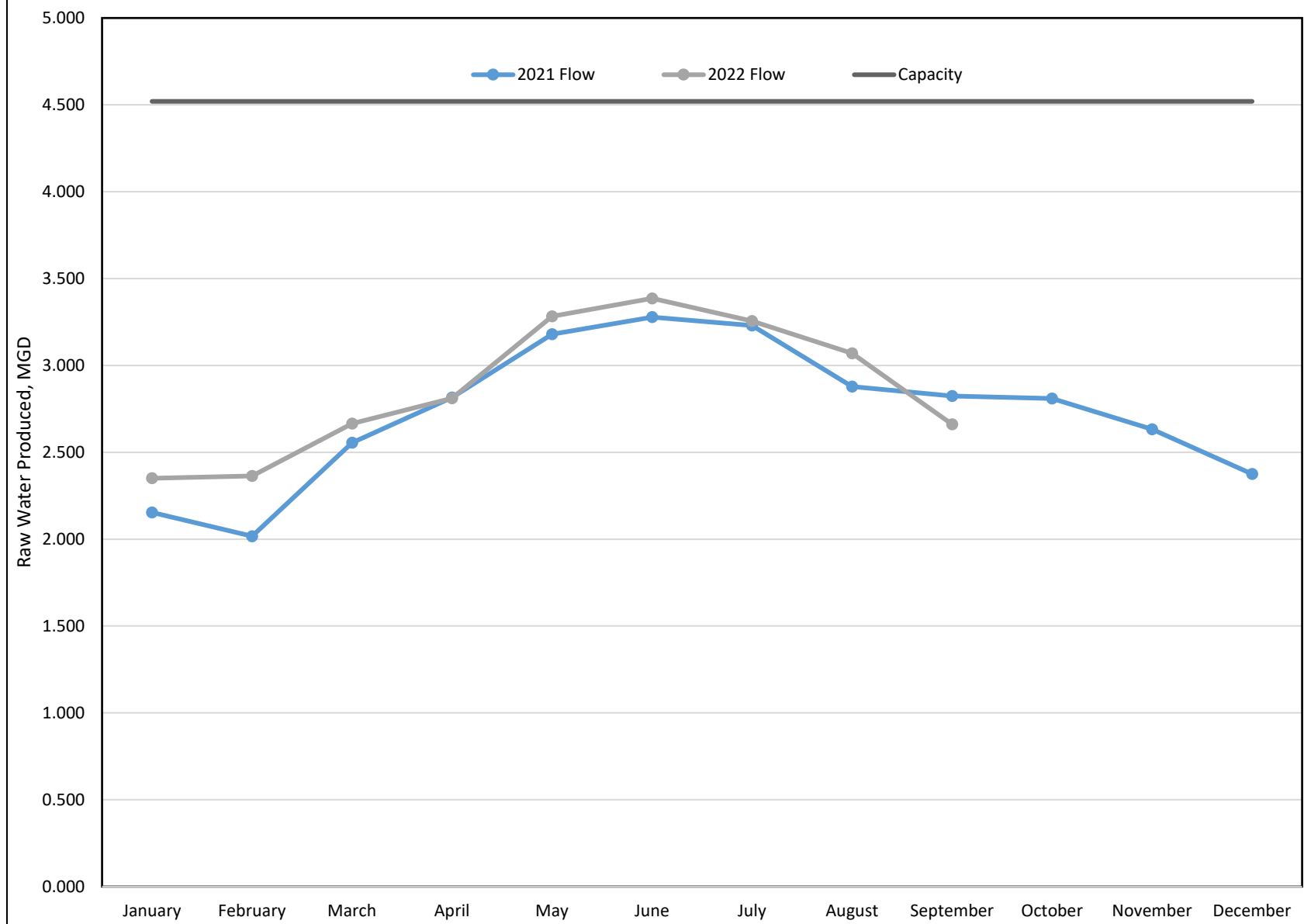
Brunswick District	TOTAL WATER PRODUCED (MG)									DAILY AVERAGE (MGD)								Total Produced	Daily Average	Taste/Odor Complaints		
	Month	Howard Coffin	Goodyear Park	Brunswick Villa	FLETC	I-95	Golden Isles I	Golden Isles II	Canal	Ridgewood	Howard Coffin	Goodyear Park	Brunswick Villa	FLETC	I-95	Golden Isles I	Golden Isles II				Canal	Ridgewood
January 2021	27.473	19.659	20.483	3.608	40.332	9.482	11.585	0.006	11.447	0.886	0.634	0.661	0.116	1.301	0.306	0.374	0.000	0.369	144.075	4.648		
February 2021	22.481	14.924	17.235	6.744	35.076	4.219	2.781	0.000	21.623	0.803	0.533	0.616	0.241	1.253	0.151	0.099	0.000	0.772	125.083	4.467		
March 2021	31.111	7.974	8.903	10.178	48.417	4.351	1.857	0.000	28.399	1.004	0.257	0.287	0.328	1.562	0.140	0.060	0.000	0.916	141.190	4.555		
April 2021	31.111	16.473	19.395	10.702	39.314	6.619	9.538	0.000	18.100	1.037	0.549	0.647	0.357	1.310	0.221	0.318	0.000	0.603	151.252	5.042		
May 2021	42.334	17.385	18.970	8.955	41.358	6.571	7.757	0.000	24.900	1.366	0.561	0.612	0.289	1.334	0.212	0.250	0.000	0.803	168.230	5.427		
June 2021	14.065	28.045	25.994	9.102	41.443	7.643	12.276	0.000	15.831	0.469	0.935	0.866	0.303	1.381	0.255	0.409	0.000	0.528	154.399	5.147		
July 2021	7.415	40.508	42.854	9.072	42.522	8.590	10.954	0.000	15.229	0.239	1.307	1.382	0.293	1.372	0.277	0.353	0.000	0.491	177.144	5.714		
August 2021	18.007	41.924	45.370	8.735	43.386	7.430	9.146	0.015	16.477	0.581	1.352	1.464	0.282	1.400	0.240	0.295	0.000	0.532	190.490	6.145		
September 2021	17.326	44.014	49.671	11.133	39.886	6.647	10.358	0.000	15.612	0.578	1.467	1.656	0.371	1.330	0.222	0.345	0.000	0.520	194.647	6.488		
October 2021	27.202	34.523	41.860	9.423	42.187	8.468	10.016	0.000	15.482	0.877	1.114	1.350	0.304	1.361	0.273	0.323	0.000	0.499	189.161	6.102		
November 2021	19.095	25.771	33.131	3.310	40.075	6.478	8.531	0.000	16.934	0.637	0.859	1.104	0.110	1.336	0.216	0.284	0.000	0.564	153.325	5.111		
December 2021	18.497	22.259	28.534	6.162	42.894	6.886	10.558	0.005	14.072	0.597	0.718	0.920	0.199	1.384	0.222	0.341	0.000	0.454	149.867	4.834		
January 2022	26.666	18.938	26.839	5.987	36.428	5.105	9.155	0.010	22.740	0.860	0.611	0.866	0.193	1.175	0.165	0.295	0.000	0.734	151.868	4.899		
February 2022	27.876	20.840	20.738	7.133	32.000	7.512	13.585	0.005	13.918	0.996	0.744	0.741	0.255	1.143	0.268	0.485	0.000	0.497	143.607	5.129		
March 2022	23.605	17.843	24.557	6.760	34.791	8.264	12.521	0.010	19.646	0.761	0.576	0.792	0.218	1.122	0.267	0.404	0.000	0.634	147.997	4.774		
April 2022	35.604	8.423	21.713	6.697	33.938	7.124	13.629	0.010	21.420	1.187	0.281	0.724	0.223	1.131	0.237	0.454	0.000	0.714	148.558	4.952		
May 2022	42.308	2.447	25.379	9.374	35.227	9.778	15.746	0.005	20.224	1.365	0.079	0.819	0.302	1.136	0.315	0.508	0.000	0.652	160.488	5.177		
June 2022	43.234	4.125	21.022	4.012	38.636	10.706	15.186	0.005	21.623	1.441	0.138	0.701	0.134	1.288	0.357	0.506	0.000	0.721	158.549	5.285	1	
July 2022	44.313	0.018	20.876	3.620	40.568	10.790	15.091	0.006	21.719	1.429	0.001	0.673	0.117	1.309	0.348	0.487	0.000	0.701	157.001	5.065	2	
August 2022	36.429	7.003	22.185	2.757	40.867	9.643	13.911	0.005	23.404	1.175	0.226	0.716	0.089	1.318	0.311	0.449	0.000	0.755	156.204	5.039	3	
September 2022	8.771	21.825	29.960	1.542	39.484	9.771	14.045	0.010	19.587	0.292	0.728	0.999	0.051	1.316	0.326	0.468	0.000	0.653	144.995	4.833	2	
October 2022																						
November 2022																						
December 2022																						
Average	26.901	19.758	26.937	6.905	39.468	7.718	10.868	0.004	18.971	0.885	0.651	0.885	0.227	1.298	0.254	0.358	0.000	0.624	157.530	5.182	2	
Max	44.313	44.014	49.671	11.133	48.417	10.790	15.746	0.015	28.399	1.441	1.467	1.656	0.371	1.562	0.357	0.508	0.000	0.916	194.647	6.488	3	
Min	7.415	0.018	8.903	1.542	32.000	4.219	1.857	0.000	11.447	0.239	0.001	0.287	0.051	1.122	0.140	0.060	0.000	0.369	125.083	4.467	1	

Brunswick District Water Production

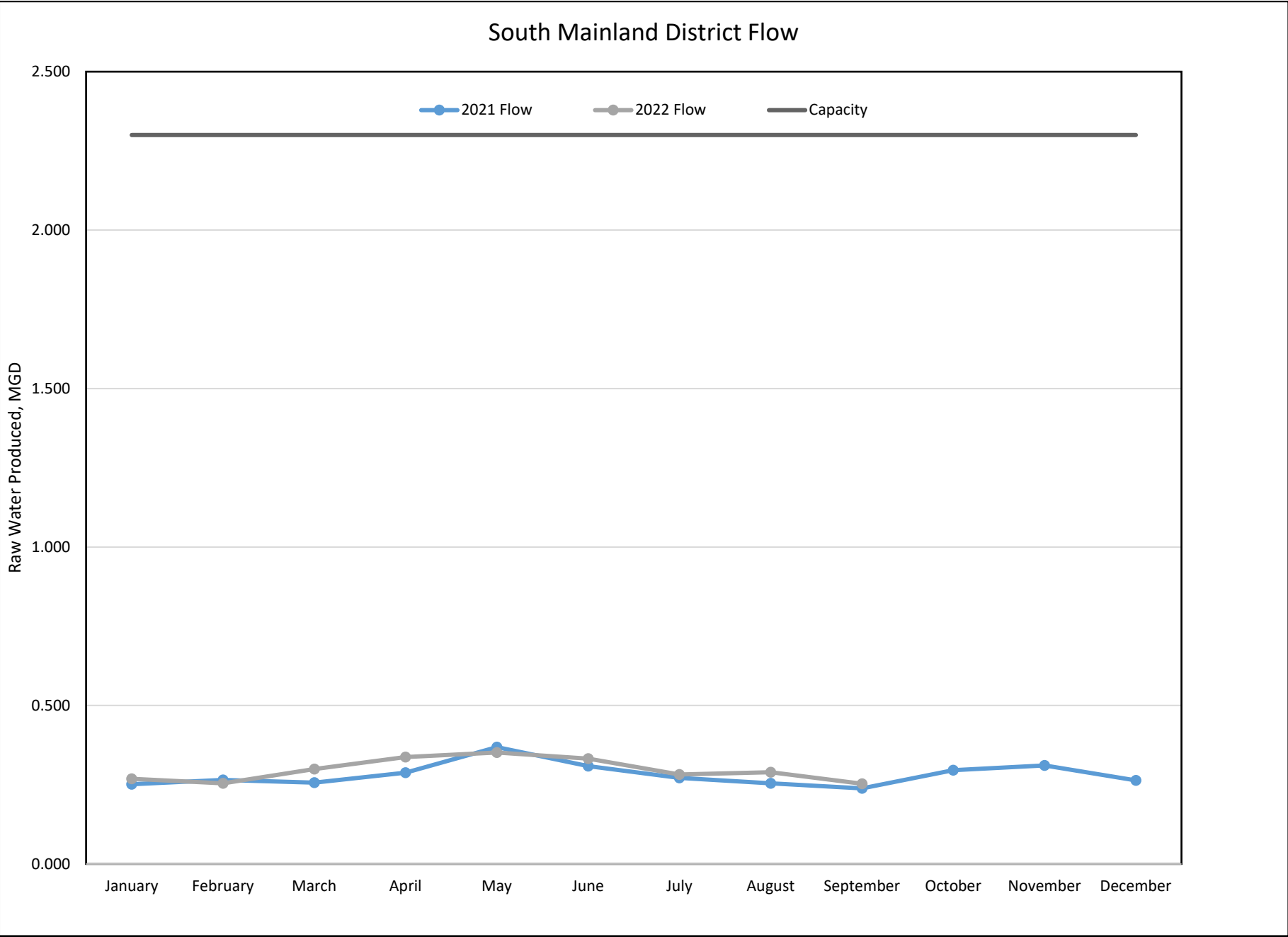


St. Simons Island District	TOTAL WATER PRODUCED (MG)				DAILY AVERAGE (MGD)				Total Produced	Daily Average	Taste/Odor Complaints
	Month	Mallery	Airport	Harrington	Hampton South	Mallery	Airport	Harrington			
January 2021	28.068	28.406	6.304	3.982	0.905	0.916	0.203	0.128	66.760	2.154	
February 2021	24.281	25.390	1.736	5.072	0.867	0.907	0.062	0.181	56.479	2.017	
March 2021	28.849	29.212	15.446	5.691	0.931	0.942	0.498	0.184	79.198	2.555	
April 2021	27.343	29.084	18.099	9.943	0.911	0.969	0.603	0.331	84.469	2.816	
May 2021	33.693	30.969	23.512	10.411	1.087	0.999	0.758	0.336	98.585	3.180	
June 2021	30.761	30.324	24.637	12.618	1.025	1.011	0.821	0.421	98.340	3.278	
July 2021	33.503	30.924	26.017	9.688	1.081	0.998	0.839	0.313	100.132	3.230	
August 2021	30.746	30.122	16.812	11.549	0.992	0.972	0.542	0.373	89.229	2.878	
September 2021	25.898	29.091	17.367	12.366	0.863	0.970	0.579	0.412	84.722	2.824	
October 2021	30.822	29.548	14.715	12.018	0.994	0.953	0.475	0.388	87.103	2.810	
November 2021	22.378	28.661	17.877	10.073	0.746	0.955	0.596	0.336	78.989	2.633	
December 2021	22.953	29.657	13.513	7.504	0.740	0.957	0.436	0.242	73.627	2.375	
January 2022	26.108	28.950	10.592	7.219	0.842	0.934	0.342	0.233	72.869	2.351	
February 2022	31.226	17.923	11.261	5.780	1.115	0.640	0.402	0.206	66.190	2.364	
March 2022	36.673	26.321	11.218	8.419	1.183	0.849	0.362	0.272	82.631	2.666	
April 2022	32.193	27.860	16.504	7.779	1.073	0.929	0.550	0.259	84.336	2.811	
May 2022	40.346	28.566	20.997	11.864	1.301	0.921	0.677	0.383	101.773	3.283	
June 2022	43.067	28.522	21.631	8.367	1.436	0.951	0.721	0.279	101.587	3.386	1
July 2022	38.259	32.075	22.279	8.297	1.234	1.035	0.719	0.268	100.910	3.255	0
August 2022	34.063	31.033	21.086	8.976	1.099	1.001	0.680	0.290	95.158	3.070	2
September 2022	28.520	28.832	17.540	4.959	0.951	0.961	0.585	0.165	79.851	2.662	1
October 2022											
November 2022											
December 2022											
Average	30.940	28.641	16.626	8.694	1.018	0.941	0.545	0.286	84.902	2.790	1
Max	43.067	32.075	26.017	12.618	1.436	1.035	0.839	0.421	101.773	3.386	2
Min	22.378	17.923	1.736	3.982	0.740	0.640	0.062	0.128	56.479	2.017	0

St. Simons Island District Flow



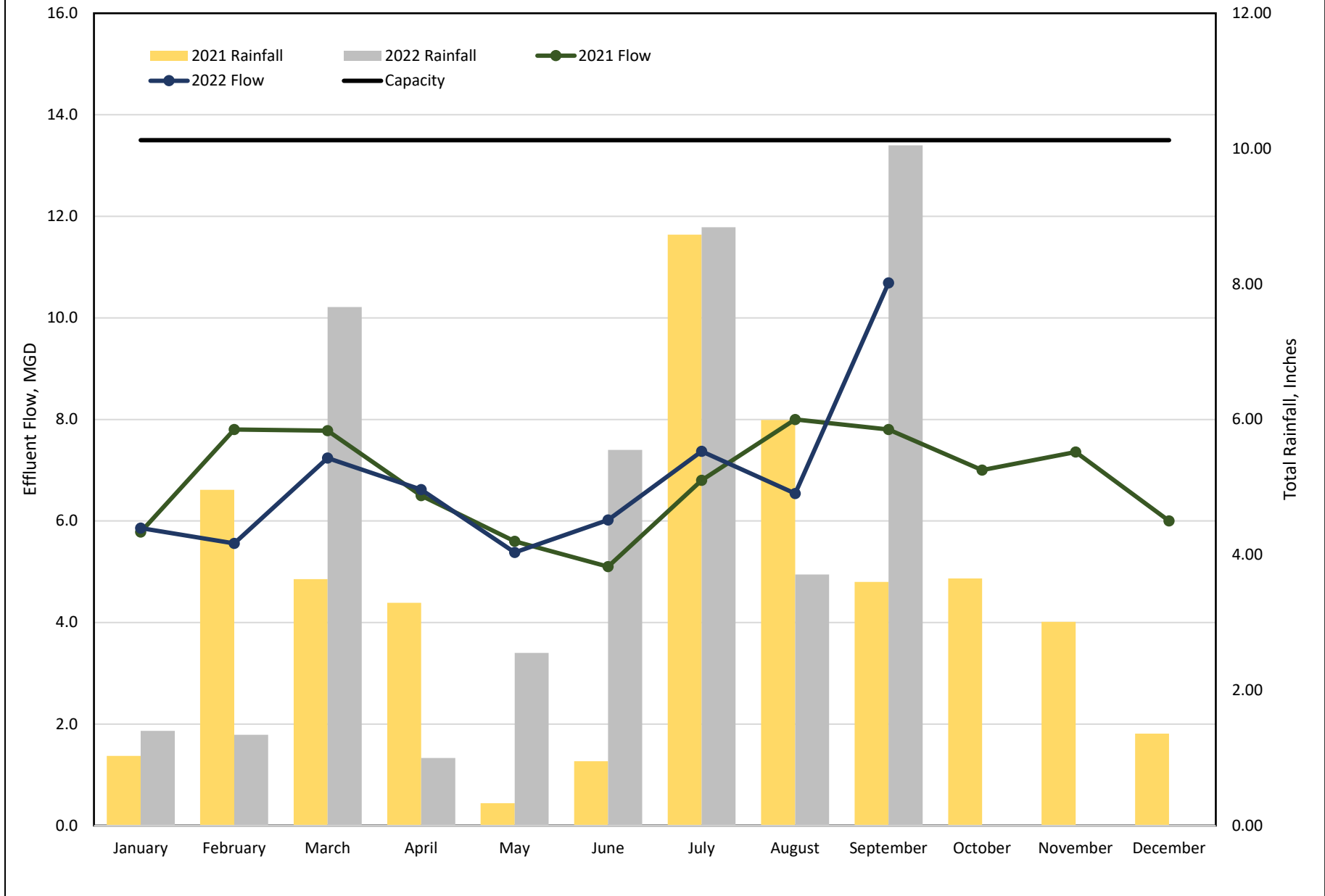
South Mainland District	TOTAL WATER PRODUCED (MG)			DAILY AVERAGE (MGD)			Total Produced	Daily Average	Taste/Odor Complaints
	Month	Fancy Bluff	Exit 29	Brookman	Fancy Bluff	Exit 29			
January 2021	2.714	0.000	5.075	0.088	0.000	0.164	7.789	0.251	
February 2021	3.540	0.000	3.878	0.126	0.000	0.139	7.418	0.265	
March 2021	4.295	0.000	3.662	0.139	0.000	0.118	7.957	0.257	
April 2021	4.575	0.000	4.068	0.153	0.000	0.136	8.643	0.288	
May 2021	7.847	0.000	3.583	0.253	0.000	0.116	11.430	0.369	
June 2021	4.711	0.000	4.544	0.157	0.000	0.151	9.255	0.309	
July 2021	3.847	0.000	4.563	0.124	0.000	0.147	8.410	0.271	
August 2021	3.563	0.000	4.334	0.115	0.000	0.140	7.897	0.255	
September 2021	4.019	0.000	3.137	0.134	0.000	0.105	7.156	0.239	
October 2021	4.902	0.000	4.270	0.158	0.000	0.138	9.172	0.296	
November 2021	5.504	0.000	3.818	0.183	0.000	0.127	9.322	0.311	
December 2021	4.349	0.000	3.832	0.140	0.000	0.124	8.181	0.264	
January 2022	2.937	0.003	5.387	0.095	0.000	0.174	8.327	0.269	
February 2022	3.895	0.010	3.226	0.139	0.000	0.115	7.131	0.255	
March 2022	4.616	0.000	4.673	0.149	0.000	0.151	9.289	0.300	
April 2022	5.022	0.005	5.102	0.167	0.000	0.170	10.129	0.338	
May 2022	5.262	0.002	5.638	0.170	0.000	0.182	10.902	0.352	
June 2022	4.824	0.005	5.136	0.161	0.000	0.171	9.965	0.332	0
July 2022	4.807	0.005	3.943	0.155	0.000	0.127	8.755	0.282	0
August 2022	4.527	0.000	4.454	0.146	0.000	0.144	8.981	0.290	0
September 2022	3.001	0.010	4.585	0.100	0.000	0.153	7.596	0.253	0
October 2022									
November 2022									
December 2022									
Average	4.417	0.002	4.329	0.145	0.000	0.142	8.748	0.288	0
Max	7.847	0.010	5.638	0.253	0.000	0.182	11.430	0.369	0
Min	2.714	0.000	3.137	0.088	0.000	0.105	7.131	0.239	0



ACADEMY CREEK WWTP	FLOW (MGD)				Influent Concentrations						Effluent Concentrations								Removal Efficiency		Rainfall		Water Meter Monthly MGal	Sludge Tons to Landfill		
	Month	INF	PINOVA	EFF	% Cap.	pH s.u.	Alkalinity mg/L	BOD mg/L	TSS mg/L	NH3 mg/L	Phos mg/L	pH s.u.	Alkalinity mg/L	D.O. mg/L	BOD mg/L	TSS mg/L	NH3 mg/L	TRC mg/L	Entero. #/100 mL	Phos. mg/L	BOD	TSS			Maximum Inches	Total Inches
																					%	%				
January 2021	5.7	0.7	5.8	43%	7.5		244	215	20.3	11.9	6.6		6.8	8	11	4.3	0.09	14	5.6	96.72%	94.88%	0.75	1.03	5.578	93.54	
February 2021	7.8	1.0	7.8	58%	7.7		247	261	16.8	13.2	6.7		6.8	10	16	4.5	0.10	4	5.3	95.95%	93.87%	1.50	4.96	4.809	108.47	
March 2021	7.8	0.8	7.8	58%	7.7		252	299	18.9	11.8	6.8		6.8	11	16	6.9	0.10	10	2.8	95.63%	94.65%	1.80	3.64	7.279	88.57	
April 2021	6.4	0.7	6.5	48%	7.7		231	241	20.8	13.4	6.9		6.6	7	9	8.9	0.08	3	4.4	96.97%	96.27%	1.30	3.29	7.845	142.20	
May 2021	5.5	0.8	5.6	41%	7.6		251	276	21.7	8.2	6.9		6.6	7	9	7.0	0.03	5	2.9	97.21%	96.74%	0.21	0.33	5.144	112.74	
June 2021	5.0	0.8	5.1	38%	7.5		441	516	22.9	15.3	6.7		6.1	8	10	8.1	0.01	11	4.5	98.19%	98.06%	0.90	0.95	3.952	123.10	
July 2021	7.6	0.8	6.8	50%	7.6		280	282	19.4	9.8	6.6		6.2	9	11	10.2	0.47	10	3.5	96.79%	96.10%	5.35	8.73	8.186	85.20	
August 2021	8.1	0.8	8.0	59%	7.7		176	159	13.7	6.2	6.6		6.6	8	9	7.7	0.09	14	2.1	95.45%	94.34%	2.15	5.99	10.052	114.21	
September 2021	7.4	0.8	7.8	58%	7.5		180	233	17.5	9.8	6.9		6.5	7	8	9.0	0.04	30	3.3	96.11%	96.57%	1.25	3.60	7.903	113.80	
October 2021	7.0	0.6	7.0	52%	7.5		184	239	21.0	8.0	6.7		6.3	7	8	11.6	0.03	2	1.7	96.20%	96.65%	1.50	3.65	N/A	131.16	
November 2021	7.2	0.8	7.4	55%	7.5		174	229	19.3	9.2	6.6		6.5	6	8	7.6	0.10	1	2.5	96.55%	96.51%	2.15	3.01	10.323	131.95	
December 2021	5.9	0.7	6.0	44%	7.4	194.3	232	256	19.7	9.7	6.6	94.2	5.7	8	9	6.0	0.04	1	1.7	96.55%	96.48%	1.05	1.36	9.727	113.77	
January 2022	5.9	0.8	5.9	43%	7.3	184.0	239	287	19.6	8.5	6.5	105.3	6.8	8	11	5.4	0.01	1	3.4	96.65%	96.17%	1.30	1.40	10.609	140.30	
February 2022	5.8	0.7	5.6	41%	7.3	190.8	247	281	20.5	17.4	6.6	119.7	6.6	15	16	10.9	0.03	1	8.9	93.93%	94.31%	0.44	1.34	5.836	113.35	
March 2022	7.6	0.8	7.2	54%	7.5	176.6	206	247	19.5	12.7	6.5	99.2	7.2	7	6	7.2	0.10	1	4.6	96.60%	97.57%	1.72	7.66	8.525	132.23	
April 2022	6.8	0.8	6.6	49%	7.4	181.2	214	231	21.2	8.5	6.4	87.5	6.6	4	3	2.7	0.01	1	8.5	98.13%	98.70%	0.40	1.00	6.407	79.59	
May 2022	4.9	0.8	5.4	40%	7.4	210.0	214	204	19.4	6.3	6.5	95.1	6.5	5	3	2.2	0.05	1	1.9	97.66%	98.53%	0.85	2.55	5.885	78.08	
June 2022	5.1	1.0	6.0	45%	7.4	180.6	171	163	19.8	4.2	6.5	78.1	6.1	5	2	2.0	0.04	1	2.4	97.08%	98.77%	2.30	5.55	6.800	80.34	
July 2022	6.3	0.9	7.4	55%	7.5	190.8	143	141	13.5	9.9	6.5	97.7	6.4	5	3	2.6	0.04	1	3.6	96.50%	97.87%	2.09	8.84	6.400	75.67	
August 2022	5.7	0.9	6.5	48%	7.4	183.2	180	177	18.4	10.9	6.5	104.6	6.1	5	3	3.7	0.05	1	6.4	97.22%	98.31%	1.35	3.71	5.607	55.44	
September 2022	10.4	0.9	10.7	79%	7.1	171.2	143	153	10.9	5.3	6.5	71.6	7.0	9	8	4.2	0.13	1	3.5	93.71%	94.77%	2.83	10.05	6.628	47.52	
October 2022																										
November 2022																										
December 2022																										
Average	6.7	0.8	6.8	50%	7.5	186.3	221.4	242	18.8	10.0	6.6	95.3	6.5	7.6	8.5	6.3	0.08	5	4.0	96.47%	96.48%	1.58	3.94	7.175	102.92	
Max	10.4	1.0	10.7	79%	7.7	210.0	441.0	516	22.9	17.4	6.9	119.7	7.2	15.0	16.0	11.6	0.47	30	8.9	98.19%	98.77%	5.35	10.05	10.609	142.20	
Min	4.9	0.6	5.1	38%	7.1	171.2	143.0	141	10.9	4.2	6.4	71.6	5.7	4.0	2.0	2.0	0.01	1	1.7	93.71%	93.87%	0.21	0.33	3.952	47.52	
Permit Limits	N/A	N/A	13.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.0-9.0	N/A	2.0	20.0	30.0	17.4	0.14	35	Report	85.00%	85.00%					

BOD - Biochemical Oxygen Demand
TSS - Total Suspended Solids
NH3 - Ammonia
Phos - Phosphorus
D.O. - Dissolved Oxygen
TRC - Total Residual Chlorine
Entero. - Enterococci Bacteria

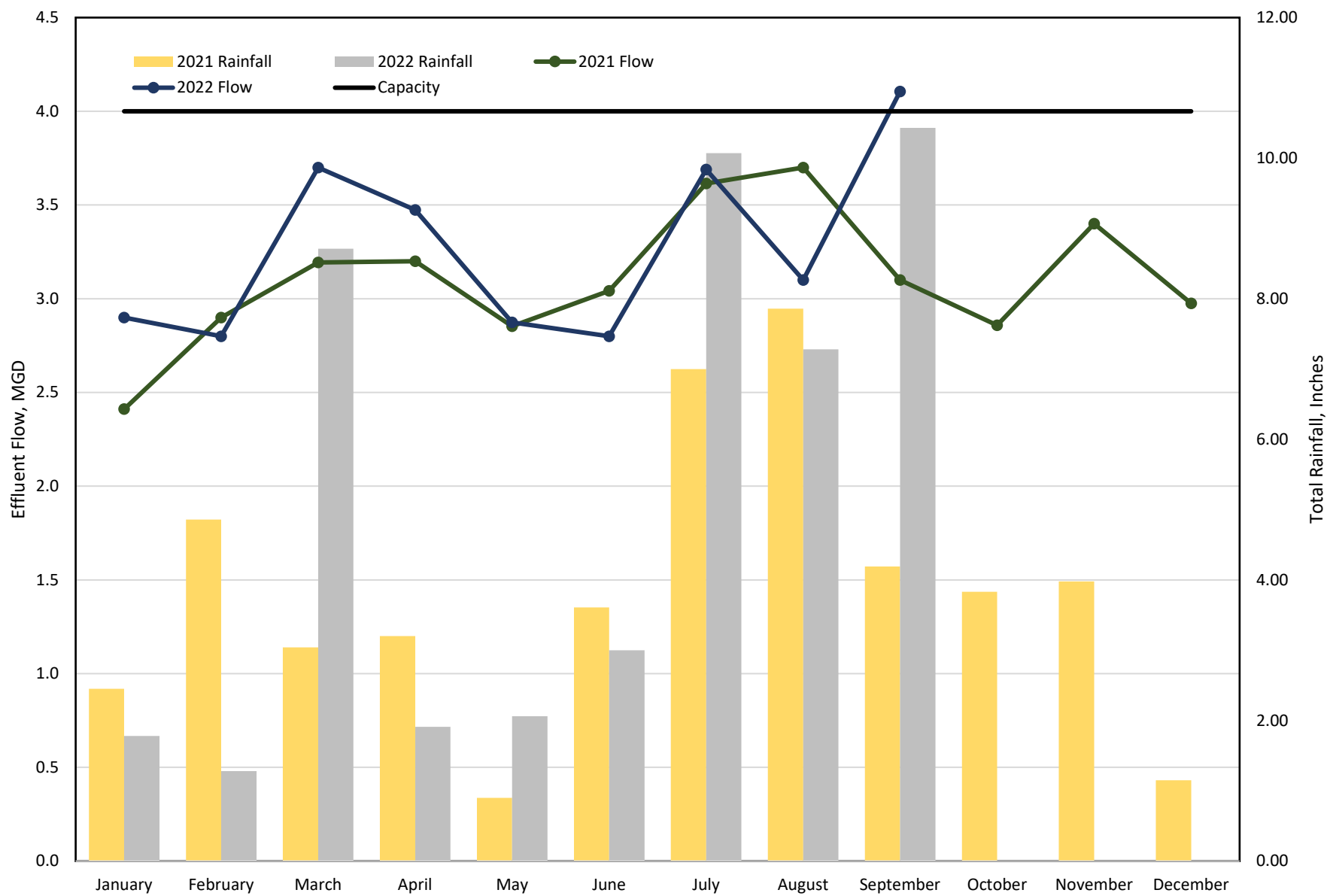
Academy Creek Effluent Flow



DUNBAR CREEK WWTP	FLOW (MGD)			Influent Concentrations						Effluent Concentrations							Removal Efficiency		Rainfall		Water Meter Monthly M/Gal	Sludge Tons to Landfill	
	Month	INF	EFF	% Cap.	pH s.u.	Alkalinity mg/L	BOD mg/L	TSS mg/L	NH3 mg/L	Phos mg/L	pH s.u.	Alkalinity mg/L	D.O. mg/L	BOD mg/L	TSS mg/L	NH3 mg/L	Entero. #/100 mL	Phos. mg/L	BOD %	TSS %			Maximum Inches
January 2021	2.3	2.4	60%	7.1		181	210	34.9	3.90	6.8		8.6	3.0	2.0	0.4	2	3.0	98.34%	99.05%	0.68	2.45	0.560	27.32
February 2021	2.7	2.9	73%	7.1		167	181	31.2	3.80	6.8		8.3	4.0	2.6	0.5	12	2.4	97.60%	98.56%	1.28	4.86	0.531	26.58
March 2021	2.8	3.2	80%	7.2		188	244	42.2	4.70	7.0		8.1	3.0	2.0	0.9	7	3.0	98.40%	99.18%	1.56	3.04	0.410	29.47
April 2021	2.6	3.2	80%	7.2		212	277	53.4	4.20	6.9		7.7	2.0	2.0	0.7	2	2.4	99.06%	99.28%	1.94	3.20	0.562	20.21
May 2021	2.4	2.9	71%	7.2		228	248	32.0	4.30	7.6		7.9	3.0	1.0	0.6	2	2.7	98.68%	99.60%	0.34	0.90	0.430	18.33
June 2021	2.6	3.0	76%	7.1		237	257	23.3	5.05	6.9		6.4	3.0	2.0	0.2	4	2.4	98.73%	99.22%	1.11	3.61	1.067	24.35
July 2021	3.0	3.6	90%	7.0		199	226	40.6	4.55	6.8		7.5	4.0	3.0	0.5	6	3.3	97.99%	98.67%	4.43	7.00	0.634	33.61
August 2021	3.2	3.7	93%	6.9		150	255	24.7	4.05	6.9		7.7	4.0	2.0	0.7	7	2.9	97.33%	99.22%	2.01	7.86	0.470	20.51
September 2021	2.7	3.1	78%	7.1		143	167	27.0	3.10	7.0		7.9	3.8	1.0	0.6	3	2.0	97.34%	99.40%	1.29	4.19	0.297	13.23
October 2021	2.5	2.9	71%	7.0		179	208	29.6	4.05	7.7		7.6	3.0	2.0	0.8	6	2.7	98.32%	99.04%	1.46	3.83	0.506	24.55
November 2021	3.0	3.4	85%	7.2		162	196	21.1	2.60	7.1		8.1	3.0	2.0	0.8	4	1.1	98.15%	98.98%	3.12	3.98	0.754	24.24
December 2021	2.5	3.0	74%	7.0	208.0	183	233	20.8	4.25	7.0	47.7	8.0	3.0	3.0	0.7	2	1.6	98.36%	98.71%	0.84	1.15	1.268	44.38
January 2022	2.5	2.9	73%	7.0	211.0	175	205	26.3	3.65	7.2	57.1	8.2	3.0	3.0	1.0	1	1.2	98.29%	98.54%	0.95	1.78	1.190	28.32
February 2022	2.4	2.8	70%	7.2	253.0	198	228	33.5	3.85	7.1	63.0	8.2	3.3	2.5	0.8	1	1.2	98.36%	98.90%	0.34	1.28	0.047	34.41
March 2022	3.2	3.7	93%	7.2	215.6	185	188	21.5	3.05	7.1	53.1	7.8	3.0	2.0	0.9	7	1.0	98.38%	98.94%	2.81	8.71	0.061	35.13
April 2022	3.0	3.5	87%	7.2	209.0	181	221	19.3	3.45	7.1	60.1	7.6	3.0	3.0	0.5	1	1.6	98.34%	98.64%	1.13	1.91	0.047	25.74
May 2022	2.9	2.9	72%	7.0	250.0	204	217	25.7	4.55	7.0	73.0	7.5	3.0	2.0	0.9	6	2.5	98.53%	99.08%	0.78	2.06	0.051	24.80
June 2022	2.8	2.8	70%	7.2	258.0	218	232	27.9	4.85	7.2	103.0	7.4	4.0	2.0	3.5	2	2.2	98.17%	99.14%	1.13	3.00	0.043	33.39
July 2022	3.6	3.7	92%	7.3	227.0	164	174	28.3	3.85	7.3	71.9	7.3	3.0	2.0	0.7	9	1.2	98.17%	98.85%	2.49	10.07	0.040	22.81
August 2022	3.1	3.1	78%	7.5	216.0	155	170	25.1	3.35	7.8	57.9	7.3	3.0	3.0	0.5	1	1.6	98.06%	98.24%	2.46	7.28	0.072	26.30
September 2022	4.2	4.1	103%	7.3	176.6	110	140	15.9	3.00	7.5	54.2	7.6	3.0	3.0	0.7	2	1.2	97.27%	97.86%	4.09	10.43	0.299	12.14
October 2022																							
November 2022																							
December 2022																							
Average	2.9	3.2	79%	7.1	222.4	181.9	213.2	28.8	3.91	7.1	64.1	7.7	3.2	2.2	0.8	4	2.0	98.19%	98.91%	1.7	4.4	0.445	26.18
Max	4.2	4.1	103%	7.5	258.0	237.0	277.0	53.4	5.05	7.8	103.0	8.6	4.0	3.0	3.5	12	3.3	99.06%	99.60%	4.4	10.4	1.268	44.38
Min	2.3	2.4	60%	6.9	176.6	110.0	140.0	15.9	2.60	6.8	47.7	6.4	2.0	1.0	0.2	1	1.0	97.27%	97.86%	0.3	0.9	0.040	12.14
Permit Limits	N/A	4.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.0-9.0	N/A	6.0	5.0	20.0	2.0	35	Report	85.00%	85.00%				

BOD - Biochemical Oxygen Demand
TSS - Total Suspended Solids
NH3 - Ammonia
Phos - Phosphorus
D.O. - Dissolved Oxygen
TRC - Total Residual Chlorine
Entero. - Enterococci Bacteria

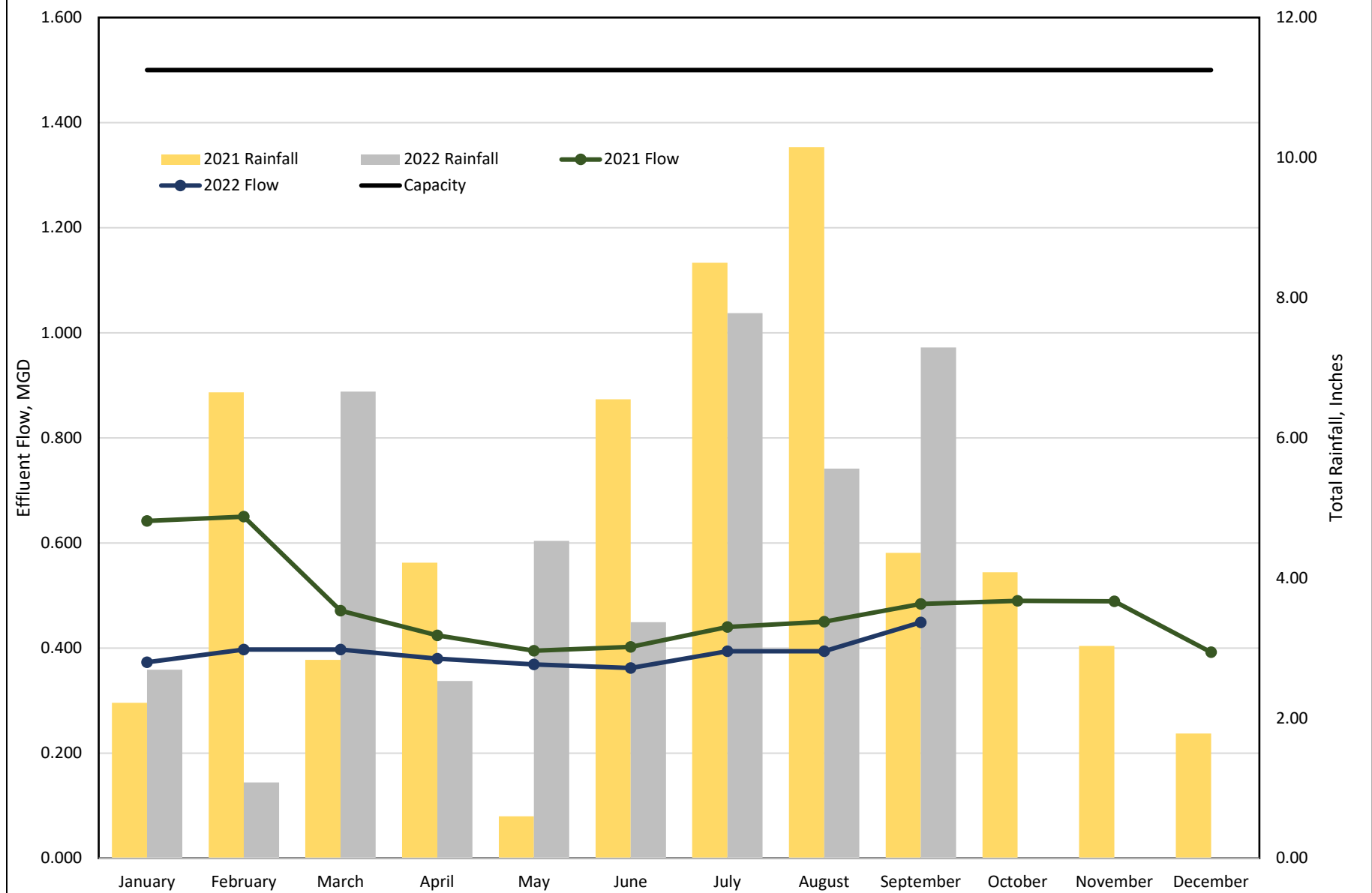
Dunbar Creek Effluent Flow



SOUTH PORT WWTP	FLOW (MGD)			Influent Concentrations						Effluent Concentrations							Removal Efficiency		Rainfall		Water Meter Monthly M/Gal	Sludge Tons to Landfill	
	Month	INF	EFF	% Cap.	pH s.u.	Alkalinity mg/L	BOD mg/L	TSS mg/L	NH3 mg/L	Phos mg/L	pH s.u.	Alkalinity mg/L	D.O. mg/L	BOD mg/L	TSS mg/L	NH3 mg/L	Fecal #/100 mL	Phos. mg/L	BOD %	TSS %			Maximum Inches
January 2021	0.635	0.642	43%	6.9		103	154	27.3	4.20	7.4		8.3	5.0	3.0	0.3	1	0.4	95.15%	98.05%	0.54	2.22	0.708	0.00
February 2021	0.609	0.650	43%	7.0		96	155	24.3	2.75	7.5		8.6	7.0	3.0	0.6	14	0.6	92.71%	98.06%	1.26	6.65	0.131	11.09
March 2021	0.464	0.471	31%	6.9		118	180	37.6	3.60	7.6		7.9	6.0	4.0	1.0	23	1.6	94.92%	97.78%	1.46	2.83	0.044	2.53
April 2021	0.414	0.424	28%	6.5		170	237	53.8	4.20	7.6		7.6	7.0	3.0	0.4	4	1.4	95.88%	98.73%	2.18	4.22	0.124	2.19
May 2021	0.399	0.395	26%	6.8		233	239	40.0	3.40	7.9		7.6	7.0	4.0	0.7	5	2.5	97.00%	98.33%	0.30	0.60	0.010	2.12
June 2021	0.392	0.402	27%	6.9		152	124	25.3	5.10	7.8		7.0	5.0	4.0	0.2	7	2.6	96.71%	96.77%	1.75	6.55	0.421	1.99
July 2021	0.403	0.440	29%	7.0		138	139	43.9	3.95	7.6		7.0	5.0	3.0	2.3	6	3.1	96.38%	97.84%	4.75	8.50	0.393	3.88
August 2021	0.408	0.450	30%	7.0		103	98	35.8	4.60	7.1		7.4	8.0	3.0	0.7	7	2.8	92.23%	96.94%	2.15	10.15	0.033	4.16
September 2021	0.420	0.484	32%	6.8		94	103	32.5	3.05	7.1		6.9	6.0	2.0	0.7	6	1.7	93.62%	98.06%	1.15	4.36	0.051	1.89
October 2021	0.430	0.490	33%	6.9		134	143	33.1	3.75	7.7		7.0	5.0	2.0	1.0	5	1.7	96.27%	98.60%	2.01	4.08	0.026	5.02
November 2021	0.430	0.489	33%	7.0		157	180	29.7	3.65	7.2		8.1	5.0	4.0	0.5	4	1.6	96.82%	97.78%	1.88	3.03	0.020	8.86
December 2021	0.293	0.392	26%	7.3	226.5	159	152	27.6	5.00	7.4	46.7	7.9	6.0	3.0	1.5	10	1.5	96.23%	98.03%	0.62	1.78	0.083	4.00
January 2022	0.323	0.373	25%	7.1	213.0	163	164	33.8	4.45	7.3	36.1	9.7	6.0	4.0	0.8	6	2.4	96.32%	97.56%	1.52	2.69	0.180	4.26
February 2022	0.328	0.397	26%	7.3	224.0	156	162	35.8	2.85	7.4	41.1	9.9	6.0	4.0	0.6	2	1.5	96.15%	97.53%	0.28	1.08	0.027	0.00
March 2022	0.295	0.397	26%	7.3	232.8	151	139	29.0	4.05	7.8	58.4	9.6	6.0	3.0	1.1	5	1.9	96.03%	97.84%	2.36	6.66	0.028	5.75
April 2022	0.201	0.380	25%	6.8	216.0	139	136	25.4	4.00	7.0	66.3	7.1	4.0	2.0	0.4	3	2.0	97.12%	98.53%	1.58	2.53	0.130	6.32
May 2022	0.171	0.369	25%	6.8	249.4	158	170	32.6	5.70	7.4	101.0	8.3	6.0	2.0	0.6	2	3.1	96.20%	98.82%	1.82	4.53	0.139	3.48
June 2022	0.168	0.362	24%	6.8	220.0	134	153	29.8	4.95	7.7	81.6	8.4	4.0	3.0	0.4	2	2.9	97.01%	98.04%	1.01	3.37	0.033	6.98
July 2022	0.168	0.394	26%	6.8	193.5	148	208	28.7	3.95	7.7	45.6	8.3	5.0	7.0	0.5	4	2.6	96.62%	96.63%	2.76	7.78	0.013	1.39
August 2022	0.204	0.394	26%	6.8	181.0	213	174	30.6	3.90	7.6	46.5	8.4	6.0	4.0	0.4	3	2.4	97.18%	97.70%	1.52	5.56	0.028	1.41
September 2022	0.247	0.449	30%	7.0	163.1	131	191	25.3	3.55	7.6	41.8	8.6	8.0	4.0	0.4	2	1.3	93.89%	97.91%	1.82	7.29	0.018	2.82
October 2022																							
November 2022																							
December 2022																							
Average	0.352	0.440	29%	6.9	211.9	145.2	162.0	32.5	4.03	7.5	56.5	8.1	5.9	3.4	0.7	6	2.0	95.73%	97.88%	1.7	4.6	0.126	3.82
Max	0.635	0.650	43%	7.3	249.4	233.0	239.0	53.8	5.70	7.9	101.0	9.9	8.0	7.0	2.3	23	3.1	97.18%	98.82%	4.8	10.2	0.708	11.09
Min	0.168	0.362	24%	6.5	163.1	94.0	98.0	24.3	2.75	7.0	36.1	6.9	4.0	2.0	0.2	1	0.4	92.23%	96.63%	0.3	0.6	0.010	0.00
Permit Limits	N/A	1.500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.0-9.0	N/A	5.0	30.0	30.0	13.0	200	Report	85.00%	85.00%				

BOD - Biochemical Oxygen Demand
TSS - Total Suspended Solids
NH3 - Ammonia
Phos - Phosphorus
D.O. - Dissolved Oxygen
TRC - Total Residual Chlorine
Fecal - Fecal Coliform Bacteria

South Port Effluent Flow



Facility Construction Project Photos – October 2022

#906 WATER POLLUTION CONTROL REHAB- ACADEMY CREEK WPCF (98% - NOVEMBER 2022)



1. Drone view of ongoing construction activities at Academy Creek.
2. Drone view of asphalt paving between the administration and the sludge dewatering building.
3. Construction workers (Subcontractor-Hallsten) handling new Odor Control Covers installation at the Headworks.
4. Drone view of ongoing Odor Control Covers installation using a Truck Crane at the Headworks.

Facility Construction Project Photos – October 2022

#2016 ACRO AREA WATER AND SEWER EXTENSION (17% - NOVEMBER 2022)



1. Drone view of construction laydown yard along grade Cochran Avenue.
2. Ongoing sewer installation and dewatering activities along Knight Street.
3. Cody Hughes (Black Creek Contracting Foreman) inspects construction activities along Knight Street.
4. Aaron Beckworth (BC Superintendent) & Cody discussing daily site cleanup & road cut maintenance.

Facility Construction Project Photos – October 2022

#2021 GALVANIZED REPLACEMENTS- SYSTEM-WIDE (SELF-PERFORMED) (IN PROGRESS-FISCAL YEAR)



1. Alvin Hall (WDD Supervisor) is providing project updates and public education about the JWSC Galvanized Replacement Program to a nearby resident at the intersection of St. Clair & Hopeton Dr.
2. Steven Fones (WDD Crew Leader) and Patrick Limano (WDD Crew member) taught nearby residents the importance of adequately handling tools and site cleanup once the job is completed.
3. Alvin Hall (WDD Supervisor) joyfully showcasing the 2-inch galvanized section removed from 1501 Norwich Street in Downtown Brunswick District.

Facility Construction Project Photos – October 2022

2028 METER REPLACEMENTS – YEAR 1 & 2 (IN PROGRESS-TBD)



1. Eric Maddox (M&E Const. Project Manager) and JaQuez Johnson (M&E Const. Meter Tech) placing concrete around the newly installed meter and box 2308 Lee Street's driveway.
2. Michael Allen (M&E Const. Meter Tech) preparing meter change out for 29 Glynnvilla Apartment.
3. Kevin Clark (M&E Const. Meter Tech) documenting meter change out for 39 Glynnvilla Apartment.

Facility Construction Project Photos – October 2022

2106 DUNBAR CREEK WPCF REHAB (IN PROGRESS-TBD)



1. Wetland surveying activities are underway for the Dunbar Construction/Service Entrance.
2. Survey ribbon delineating wetland boundary limits for the Dunbar Construction/Service Entrance.
3. Existing UV Channels & Post Aeration structures to be demolished & replaced with the new system.
4. Future Odor Control tower to be installed beside existing Grit Chamber Structure and Mech. Screen.

Proj #	Project Name	Programmed Completion Date	Current/Actual Completion Date	Phase	Project Director/ Project Manager	Concept Design 30%	Detail Design 60-90-100%	Construction	BUDGET VS. EXPENDITURES													STATUS	
									BOC APPROVED FUNDING & SOURCE				COMMITTED			EXPENDITURES				BALANCE			
									R&R Reserve	CIF Reserve	SPLOST/ Other	Total Original Approved Budget	Purchase Orders Issued	BOC Approved Change Orders	Total PO+CO	Expenditures Paid to PO's	Remaining Encumbrances	Expenditures Misc.	Total Expenditures	Original Approved Funding (Original Approved Budget - Total Expenditures)	% PO Committed		% Budget Uncommitted
702	North Mainland Sewer Improvements (NMSI)	Sept 2021	Jul 2022	Master	Kline/Vo	JWSC	Thomas & Hutton	(multiple)	\$0	\$2,189,841	\$12,710,159	\$14,900,000	\$14,152,035	-\$621,691.00	\$13,530,344	\$13,433,351	\$32,300	\$0	\$13,465,651	\$1,434,349	99.52%	10%	Design Funds appropriated and divided into three sub-projects.
	NMSI PHII Gravity Sewer Rehab CIPP	Sept 2020	Oct 2022	Complete	Kline/Vo	JWSC	Thomas & Hutton	IPR Southeast			\$2,550,519												Construction Complete.
	NMSI - PHII PS4035 & 4036 Upgrade	Feb 2022	Apr 2022	Complete	Kline/Vo	JWSC	Thomas & Hutton	Southern Civil, LLC			\$2,612,040												Construction Complete.
	NMSI - PHIII Force Main Reroute	Mar 2022	Jul 2022	Complete	Kline/Vo	JWSC	Thomas & Hutton	TB Landmark Construction Inc			\$4,345,168												Construction Complete. Record Drawing submittal under EOR review.
801	FEMA Hazard Mitigation-Academy Creek	TBD	TBD	Const.	Burroughs	Chatham Engineering	Chatham Engineering	Y-Delta	\$3,188,000	\$0	\$0	\$3,188,000	\$2,295,516	\$0	\$2,295,516	\$74,033	\$2,224,783	\$163,747	\$2,462,563	\$725,437	100.14%	23%	Generator purchase orders issued and submittals under review. Significant lead time on items.
906	Water Pollution Rehab-Academy & Dunbar	Apr 2022	Apr 2022	Const.	Burroughs	JWSC	GMC	Ruby-Collins, Inc.	\$0	\$0	\$16,641,306	\$16,641,306	\$12,253,050	\$570,595	\$12,823,645	\$11,314,400	\$1,659,246	\$50,107	\$13,023,753	\$3,617,553	101.17%	22%	Paving completed as of 10/10/2022. Reconfigured odor control covers are currently being installed. Hydraulic control panel for sludge offloading facility set for installation week of 10/24/2022. SCADA start-up is scheduled for the week of 10/24/2022. Replacement of failed components on filters is scheduled week of 10/31/2022.
2001	PS4105-4107 Basin Expansion/FM Reroute & 4036 CIPP*	Jul 2022	TBD	Master	Kline	JWSC	Roberts Civil Engineering/JWSC	(multiple)	\$2,250,000	\$485,000	\$0	\$2,735,000	\$1,013,347	\$9000	\$1,022,347	\$1,022,347	\$0.00	\$0	\$1,022,347	\$1,712,653	100.00%	63%	Design Funds appropriated and divided into two sub-projects.
	PS4105-4107 Basin Expansion/FM Reroute	Jul 2022	TBD	Design	Kline/Patel	JWSC	Roberts Civil Engineering	TBD	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0.00	\$0	\$0	\$0			Increase funding approved with FY23 Budget. CAD files received from RCE 08/05/2022. JWSC to finalize plans and tech specs with current demands prior to project advertisement.
	Basin 4036 CIPP	Jul 2022	Jul 2022	Complete	Kline/Vo	JWSC	JWSC	Bio-Nomics Services, Inc.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0.00	\$0	\$0	\$0			Construction Complete.
2009	Sea Palms East Water Line Rehab	TBD	TBD	Const.	Simmons	JWSC	JWSC	JWSC	\$0	\$0	\$178,595	\$178,595	\$36,548	\$0	\$36,548	\$36,548	\$0	\$1,156	\$37,704	\$140,891	100.00%	79%	Frederica Road open-cut installation sections are proposed during the off-season. JWSC is working with Glynn County in regard to ROW permitting and is currently sourcing materials for construction.
2014	PS 2002 FM Replacement	Dec 2022	TBD	Const.	Burroughs	JWSC	T R Long/AWWIS	Phase 1 - JWSC Phase 2 - TBD	\$500,000	\$0	\$0	\$500,000	\$170,196	\$0	\$170,196	\$142,133	\$28,230	\$1,231	\$171,594	\$328,406	100.10%	66%	The work plan is being created internally for the internal installation of open-cut sections of the force main to begin in November.
2015	Bay Street Water Improvements	Jun 2022	Jun 2022	Const.	Kline	JWSC	Tidewater Engr.	West Const.	\$400,000	\$0	\$0	\$400,000	\$36,267	\$0	\$36,267	\$36,267	\$0	\$542	\$36,809	\$363,191	100.00%	91%	The segment of new 12-inch on Grant completed and pending recording drawings submittal.
2016	Arco Area Water and Sewer Extensions	Jan 2023	Jan 2023	Complete	Patel	JWSC	Thomas & Hutton	N/A	\$0	\$300,000	\$0	\$300,000	\$388,340	\$0	\$388,340	\$290,086	\$98,254	\$(88,340.00)	\$300,000	\$0.00	100.00%	0%	Engineering Complete. Tied to Proj 2101.
2017	PS 2023 Rehab	TBD	TBD	Design	Young	JWSC	TBD	TBD	\$275,000	\$0	\$0	\$275,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$275,000.00	100.00%	100%	Additional survey investigation scheduled 09/27/2022.
2020	Community Rd Sewer Expansion	Jan 2023	Jan 2023	Design	Patel	Hussey Gay Bell	JWSC	TBD	\$0	\$250,000	\$0	\$250,000	\$280,916	\$76,650	\$357,566	\$240,452	\$117,114	\$0	\$357,566	\$(107,566.00)	100.00%	-43%	60% Redesign submittal under JWSC review.
2021	Annual Galvanized Replacements Program	Jul 2022	Jul 2022	Const.	Simmons	JWSC	JWSC	JWSC	\$750,000	\$0	\$0	\$750,000	\$220,207	\$0	\$220,207	\$131,407	\$88,800	\$29,932	\$250,139	\$499,861	100.00%	67%	Cul-de-sac roads in St. Clair replacement completed. New services are currently being installed. Replacement of mains on Rivera Drive is underway by the boring contractor.
2023	SSI PRV	TBD	TBD	Design	Kline	JWSC	TBD	TBD	\$150,000	\$0	\$0	\$150,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150,000	100.00%	100%	Project on hold pending Glynn County Traffic Circle Design.
2024	Master Plan Update	Mar 2021	TBD	Design	Burroughs	JWSC	Four Waters Engineering, Inc.	N/A	\$247,500	\$0	\$0	\$247,500	\$247,500	\$0	\$247,500	\$244,670	\$2,830	\$0	\$247,500	\$0	100.00%	0%	Comments provided to the consultant on project database. Awaiting response.
2025	NM Water PRV	TBD	TBD	Design	Kline	JWSC	TBD	TBD	\$100,000	\$0	\$0	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100,000	100.00%	100%	The project is on hold pending system evaluation after the NM Water Loops project is completed.
2028	Meter Replacements - Years 1 and 2	Jun 2022	Jun 2022	Const.	Roberts/Head	JWSC	JWSC	Delta Municipal Supply/Neptune Technology Group	\$0	\$0	\$18,200,000	\$18,200,000	\$12,489,025	\$6,743,583	\$19,232,608	\$12,530,387	\$5,767,461	\$5,199	\$18,303,047	-\$103,047	95.14%	-1%	Approximately 16,400 meters replaced to date. Overall meter replacement project approximately 55% complete.
2101	Arco Water & Sewer Expansion	Oct 2022	Oct 2022	Const.	Kline/Patel	JWSC	Thomas & Hutton	UWS Inc	\$0	\$0	\$3,500,000	\$3,500,000	\$3,655,750	\$0	\$3,655,750	\$467,889	\$3,187,861	\$0	\$3,655,750	-\$155,750	100.00%	-4%	Approximately 2,700LF of 8-inch WM installed. Gravity main installation along Knight St in progress. Change Order #1 pending BOC approval. Easement acquisition complete.
2102	Canal Road Water Production Facility	Aug 2023	TBD	Design	Kline/Vo	Thomas & Hutton	Thomas & Hutton	TBD	\$1,850,000	\$0	\$0	\$1,850,000	\$225,800	\$0	\$225,800	\$39,540	\$186,260	\$0	\$225,800	\$1,624,200	100.00%	88%	60% review comments returned to EOR 09/16/2022. 60% Constructibility walk-thru scheduled 10/17/2022.
2103	NM Water Loops	Dec 2022	TBD	Design	Kline/Vo	Four Waters Engineering, Inc.	Four Waters Engineering, Inc.	TBD	\$1,250,000	\$0	\$0	\$1,250,000	\$214,000	\$0	\$214,000	\$118,300	\$95,700	\$0	\$214,000	\$1,036,000	100.00%	83%	EOR is coordinating with various agencies (Glynn County and EPD) for permit approval prior to submitting the Bid-Ready package for Construction Advertisement.
2104	PS 4002 Rehab	TBD	TBD	Design	Kline	Kimley-Horn	Kimley-Horn	TBD	\$650,000	\$0	\$0	\$650,000	\$36,686	\$0	\$36,686	\$1,824	\$34,862	\$43,314	\$80,000	\$570,000	100.00%	88%	100% Design submittal under JWSC review for advertisement.
2105	PS 4044 Rehab	Nov 2022	TBD	Design	Kline/Vo	LEA	LEA	TBD	\$550,000	\$0	\$0	\$550,000	\$73,000	\$0	\$73,000	\$35,190	\$37,810	\$0	\$73,000	\$477,000	100.00%	87%	Electrical Plan template submitted to EOR and Deed of Dedication signed 09/07/2022. EOR 90% drawing package submittal pending.
2106	Dunbar Creek Engineering	May 2022	May 2022	Const.	Burroughs	BRW/HGB	HGB	BRW	\$450,000	\$0	\$5,200,222	\$5,650,222	\$5,588,702	\$0	\$5,588,702	\$389,982	\$5,198,720	\$0	\$5,588,702	\$61,520	100.00%	1%	Submittal review ongoing. Contractor has provided drawing for a shift of the proposed entrance road to allow for future installation of full size third clarifier. Awaiting pricing for change.
2108	PS 4001 Rehab	TBD	TBD	Design	Kline	Kimley-Horn	Kimley-Horn	TBD	\$400,000	\$0	\$0	\$400,000	\$18,643	\$0	\$18,643	\$912	\$17,731	\$21,657	\$40,300	\$359,700	100.00%	90%	100% Design submittal under JWSC review for advertisement.
2109	Hwy 17 North Pump Station	TBD	TBD	Design	Kline/Patel	JWSC	JWSC	TBD	\$400,000	\$0	\$0	\$400,000	\$28,577	\$0	\$28,577	\$27,605	\$972	\$0	\$28,577	\$371,423	100.00%	93%	Pumps received and stored at Academy. SCADA/Electrical design sheets forwarded to Electrical Engineer for review/approval. Parcel dedication and acquisition in progress. EPD review packet preparation complete, submission pending property acquisition from Property Owner.
2110	PS 3101 Rehab	TBD	TBD	Design	Kline	Kimley-Horn	Kimley-Horn	TBD	\$375,000	\$0	\$0	\$375,000	\$18,643	\$0	\$18,643	\$912	\$17,731	\$21,657	\$40,300	\$334,700	100.00%	89%	100% Design submittal under JWSC review for advertisement.
2201	Academy Creek RAS Replacements	TBD	TBD	Design	Burroughs	TBD	TBD	TBD	\$1,500,000	\$0	\$0	\$1,500,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500,000	100%	100%	Mechanical and piping design completed. Awaiting electrical design for bidding.
2202	Water Production SCADA	TBD	TBD	Design	Burroughs	TBD	TBD	TBD	\$750,000	\$0	\$0	\$750,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$750,000	100%	100%	WPD and SCADA finalizing the scope of work for Engineering RFP.
2203	EST Rehab at Glynn Place Mall and Ogletrope Sites	June 2023	TBD	Design	Kline/Vo	JWSC	JWSC	TBD	\$1,000,000	\$0	\$0	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000,000	100%	100%	Four bids were received and are under Procurement review 10/06/2022. The apparent low bidder is Tank Pro, Inc. for the amount of \$1,396,617.00.
2204	PS 2056 Pumps and FM Improvements	TBD	TBD	Design	Kline/Vo	JWSC	TBD	TBD	\$700,000	\$0	\$0	\$700,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$700,000	100%	100%	SPMD and SCADA finalizing the scope of work for Engineering RFP.
2205	PS 2033/2034 Rehab	TBD	TBD	Design	Kline/Vo	JWSC	JWSC	TBD	\$1,400,000	\$0	\$0	\$1,400,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,400,000	100%	100%	SPMD and SCADA finalizing the scope of work for Construction Advertisement.
2206	Ocean Boulevard WM Improvements	TBD	TBD	Design	Kline/Vo	JWSC	JWSC	TBD	\$1,750,000	\$0	\$0	\$1,750,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,750,000	100%	100%	Previous engineering design under review. The package will require updated survey, drawings, technical specs, and bid documents prior to project advertisement.

Proj #	Project Name	Programmed Completion Date	Current/Actual Completion Date	Phase	Project Director/ Project Manager	Concept Design 30%	Detail Design 60-90-100%	Construction	BUDGET VS. EXPENDITURES											STATUS			
									BOC APPROVED FUNDING & SOURCE				COMMITTED			EXPENDITURES				BALANCE	% PO Committed	% Budget Uncommitted	Status
									R&R Reserve	CIF Reserve	SPLOST/ Other	Total Original Approved Budget	Purchase Orders Issued	BOC Approved Change Orders	Total PO+CO	Expenditures Paid to PO's	Remaining Encumbrances	Expenditures Misc.	Total Expenditures	Original Approved Funding (Original Approved Budget - Total Expenditures)			
2207	Wesley Oaks Circle WM Improvements	TBD	TBD	Const.	Simmons	JWSC	JWSC	TBD	\$450,000	\$0	\$0	\$450,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$450,000		100%	Preconstruction activities underway. WDD to utilize the on-call HDD contract services with D&C Direction Boring, LLC. Materials being purchased separately per contract.
2208	JWSC Facilities Improvements	TBD	TBD	Design	Burroughs	JWSC	JWSC	Various	\$450,000	\$0	\$0	\$450,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$450,000		100%	Construction activities underway with various contractors and suppliers.
2209	Brunswick Villa Area Sewer Extensions	TBD	TBD	Design	Patel	TBD	TBD	TBD	\$0	\$2,750,000	\$0	\$2,750,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,750,000		100%	Engineering RFP Project advertised 09/02/2022, Prebid 09/22/2022, and Anticipated Bid Open 10/04/2022. Engineering contract award on BOC agenda for approval.
2210	PS 3114 Force Main Reroute	TBD	TBD	Design	Kline	JWSC	TBD	TBD	\$0	\$400,000	\$0	\$400,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400,000		100%	System evaluation in progress by Kimley-Horn.
2211	NM WPCF Land Acquisition and Engineering	TBD	TBD	Design	Burroughs	JWSC	TBD	TBD	\$1,650,000	\$0	\$0	\$1,650,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,650,000	#DIV/0!	100%	Preliminary site acquisition activities underway.
									\$23,435,500	\$6,374,841	\$56,430,282	\$86,240,623	\$53,442,748	\$6,778,137	\$60,220,885	\$40,578,235	\$18,796,665	\$250,202	\$59,625,102	\$26,615,521			

Phase	Amount
Master	2
Design	23
Const.	10
Complete	5
Total Projects	40

Project Director/ Project Manager	Total PO+CO	Total Expenditures
Burroughs	\$21,125,559	\$21,494,112
Kline	\$1,132,586	\$1,219,756
Kline/Patel	\$3,684,327	\$3,684,327
Kline/Vo	\$14,043,144	\$13,978,451
Patel	\$745,906	\$657,566
Roberts/Head	\$19,232,608	\$18,303,047
Simmons	\$256,755	\$287,843
Young	\$0	\$0
Total	\$60,220,885	\$59,625,102

PM	Burroughs	Roberts	Kline	Vo	Patel	Simmons	Head	Young
Total PO+CO	\$21,125,559	\$19,232,608	\$18,860,057	\$14,043,144	\$4,430,233	\$256,755	\$19,232,608	\$0
Total Expenditures	\$21,494,112	\$18,303,047	\$18,882,534	\$13,978,451	\$4,341,893	\$287,843	\$18,303,047	\$0
Percentage Spent	101.74%	95.17%	100.12%	99.54%	98.01%	112.11%	95.17%	#DIV/0!
Total Projects (includes Master/Sub-projects)	9	1	23	12	6	3	1	1

ID	Task Name	Duration	Scheduled Start	Scheduled Finish	Actual Start	Actual Finish	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	
							Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
1	Engineering	1604 days	Thu 11/15/18	Thu 4/6/23	Thu 11/15/18	NA	Engineering										
11	NM Water Loops	326 days	Mon 11/8/21	Thu 9/29/22	Mon 11/8/21	NA	NM Water Loops										
12	Canal Road Water Production Facility	330 days	Thu 12/2/21	Thu 10/27/22	Thu 12/2/21	NA	Canal Road Water Production Facility										
13	PS4044 Rehab	155 days	Thu 5/26/22	Thu 10/27/22	Thu 5/26/22	NA	PS4044 Rehab										
15	PS Rehab 3101-4001-4002	203 days	Fri 4/1/22	Thu 10/20/22	Fri 4/1/22	NA	PS Rehab 3101-4001-4002										
16	Community Road W&S Extension	1018 days	Mon 6/22/20	Thu 4/6/23	Mon 6/22/20	NA	Community Road W&S Extension										
25	Advertisement	1307 days	Fri 10/25/19	Tue 5/23/23	Fri 10/25/19	NA	Advertisement										
30	NM Water Loops	47 days	Fri 9/30/22	Tue 11/15/22	NA	NA	NM Water Loops										
31	Canal Road Water Production Facility	40 days	Fri 10/28/22	Tue 12/6/22	NA	NA	Canal Road Water Production Facility										
32	PS4105-4107 FM	40 days	Fri 10/7/22	Tue 11/15/22	NA	NA	PS4105-4107 FM										
44	PS4044 Rehab	47 days	Fri 10/28/22	Tue 12/13/22	NA	NA	PS4044 Rehab										
46	PS Rehab 3101-4001-4002	47 days	Fri 10/21/22	Tue 12/6/22	NA	NA	PS Rehab 3101-4001-4002										
47	Community Road W&S Extension	47 days	Fri 4/7/23	Tue 5/23/23	NA	NA	Community Road W&S Extension										
49	Contract Administration	1340 days	Wed 11/6/19	Fri 7/7/23	Wed 11/6/19	NA	Contract Administration										
55	Community Road W&S Extension	45 days	Wed 5/24/23	Fri 7/7/23	NA	NA	Community Road W&S Extension										
56	NM Water Loops	45 days	Wed 11/16/22	Fri 12/30/22	NA	NA	NM Water Loops										
57	Canal Road Water Production Facility	45 days	Wed 12/7/22	Fri 1/20/23	NA	NA	Canal Road Water Production Facility										
61	EST Rehab at Glynn Place Mall and Oglethorpe Sites	45 days	Fri 10/7/22	Sun 11/20/22	Fri 10/7/22	NA	EST Rehab at Glynn Place Mall and Oglethorpe Sites										
62	PS4044 Rehab	45 days	Wed 12/14/22	Fri 1/27/23	NA	NA	PS4044 Rehab										
63	PS Rehab 3101-4001-4002	45 days	Wed 12/7/22	Fri 1/20/23	NA	NA	PS Rehab 3101-4001-4002										
64	PS4105-4107 FM	45 days	Wed 11/16/22	Fri 12/30/22	NA	NA	PS4105-4107 FM										
74	Construction	2007 days	Thu 1/10/19	Mon 7/8/24	Thu 1/10/19	NA	Construction										
80	PS2002 FM Replacement	60 days	Mon 10/31/22	Thu 12/29/22	NA	NA	PS2002 FM Replacement										
86	NM Water Loops	180 days	Mon 1/2/23	Tue 7/4/23	NA	NA	NM Water Loops										
87	Canal Road Water Production Facility	365 days	Mon 1/23/23	Mon 1/22/24	NA	NA	Canal Road Water Production Facility										
89	EST Rehab at Glynn Place Mall and Oglethorpe Sites	180 days	Mon 11/21/22	Fri 5/19/23	NA	NA	EST Rehab at Glynn Place Mall and Oglethorpe Sites										
90	PS4105-4107 FM	180 days	Sat 12/31/22	Wed 6/28/23	NA	NA	PS4105-4107 FM										
101	PS4044 Rehab	120 days	Mon 1/30/23	Mon 5/29/23	NA	NA	PS4044 Rehab										
103	Academy Creek WPCF Rehab	670 days	Mon 1/4/21	Fri 11/4/22	Mon 1/4/21	NA	Academy Creek WPCF Rehab										
104	Dunbar Creek WPCF Rehab	340 days	Fri 10/21/22	Mon 9/25/23	Fri 10/21/22	NA	Dunbar Creek WPCF Rehab										
105	Annual Galvanized Replacements Program	365 days	Fri 7/1/22	Fri 6/30/23	Fri 7/1/22	NA	Annual Galvanized Replacements Program										
107	Community Road W&S Extension	365 days	Mon 7/10/23	Mon 7/8/24	NA	NA	Community Road W&S Extension										
108	Sea Palms East Water Line Rehab	851 days	Tue 6/30/20	Fri 10/28/22	Tue 6/30/20	NA	Sea Palms East Water Line Rehab										
112	PS Rehab 3101-4001-4002	365 days	Mon 1/23/23	Mon 1/22/24	NA	NA	PS Rehab 3101-4001-4002										
113	Arco Area Water and Sewer Extension	210 days	Mon 3/7/22	Sun 10/2/22	Mon 3/7/22	NA	Arco Area Water and Sewer Extension										

Project: Capital Projects Gantt C
Date: Fri 10/14/22

Task		Inactive Task		Manual Summary Rollup		External Milestone		Progress	
Split		Inactive Milestone		Manual Summary		Deadline		Manual Progress	
Milestone		Inactive Summary		Start-only		Baseline			
Summary		Manual Task		Finish-only		Baseline Milestone			
Project Summary		Duration-only		External Tasks		Baseline Summary			

**Capital Projects Earned Value Analysis
Financial Data as of 09/09/2022**

Proj #	Project Name	Project Manager	Concept Design	Detail Design	Construction	BAC	PV	EV	AC	SV	CV	ETC	EAC	VAC	SPI	CPI	TCPI
702	North Mainland Sewer Improvements (NMSI)	Kline	JWSC	T&H	(multiple)	\$ 14,900,000.00	\$ 14,900,000.00	\$ 14,886,372.73	\$ 13,283,406.37	\$ (13,627.27)	\$ 1,602,966.36	\$ 12,159.89	\$ 13,295,566.26	\$ 1,604,433.74	1.00	1.12	0.01
801	FEMA Hazard Mitigation-Academy Creek	Burroughs	Haggerty	TBD	TBD	\$ 3,188,000.00	\$ 3,188,000.00	\$ 871,121.00	\$ 237,779.54	\$ (1,212,968.49)	\$ 633,341.46	\$ 632,410.91	\$ 870,190.45	\$ 2,317,809.55	0.27	3.66	0.79
906	Water Pollution Rehab-Academy & Dunbar	Burroughs	JWSC	GMC	Ruby-Collins, LLC	\$ 11,641,306.00	\$ 11,320,150.00	\$ 11,186,665.75	\$ 11,364,506.67	\$ (133,484.25)	\$ (177,840.92)	\$ 461,867.93	\$ 11,826,374.60	\$ (185,068.60)	0.99	0.98	1.64
2001	PS 4105 Basin Expansion	Vo	JWSC	Roberts Civil Engineering	TBD	\$ 2,735,000.00	\$ 2,735,000.00	\$ 1,005,133.69	\$ 1,116,996.74	\$ (1,729,866.31)	\$ (111,863.05)	\$ 1,922,386.09	\$ 3,039,382.83	\$ (304,382.83)	0.37	0.90	1.07
2009	Sea Palms East Water Line Rehab	Simmons	JWSC	N/A	TBD	\$ 178,595.00	\$ 178,595.00	\$ 29,468.18	\$ 34,646.15	\$ (149,126.83)	\$ (5,177.98)	\$ 175,330.52	\$ 209,976.67	\$ (31,381.67)	0.17	0.85	1.04
2014	PS 2002 FM Replacement	Burroughs	JWSC	TR Long	TBD	\$ 500,000.00	\$ 500,000.00	\$ 38,133.38	\$ 140,298.16	\$ (461,866.63)	\$ (102,164.79)	\$ 1,699,273.61	\$ 1,839,571.77	\$ (1,339,571.77)	0.08	0.27	1.28
2016	Arco Water and Sewer Expansion	Patel	JWSC	T&H	UWS	\$ 3,800,000.00	\$ 3,012,500.00	\$ 560,900.00	\$ 757,974.68	\$ (2,451,600.00)	\$ (197,074.68)	\$ 4,377,172.02	\$ 5,135,146.70	\$ (1,335,146.70)	0.19	0.74	1.06
2018	Meter Replacements	Roberts	JWSC	N/A	Delta Municipal Supply	\$ 18,450,000.00	\$ 7,318,082.19	\$ 9,640,593.33	\$ 12,645,374.13	\$ 2,322,511.14	\$ (3,004,780.80)	\$ 11,555,123.15	\$ 24,200,497.28	\$ (5,750,497.28)	1.32	0.76	1.52
2020	Community Rd Area Water and Sewer Expansion	Patel	JWSC	HGB	TBD	\$ 250,000.00	\$ 250,000.00	\$ 142,375.00	\$ 217,004.50	\$ (13,690.48)	\$ (74,629.50)	\$ 164,039.40	\$ 381,043.90	\$ (131,043.90)	0.57	0.66	3.26
2021	Galvanized Replacements	Simmons	JWSC	N/A	JWSC	\$ 750,000.00	\$ 548,076.92	\$ 163,333.33	\$ 161,144.28	\$ (384,743.59)	\$ 2,189.05	\$ 578,803.94	\$ 739,948.22	\$ 10,051.78	0.30	1.01	1.00
2102	Canal Road WPF	Vo	T&H	T&H	TBD	\$ 1,850,000.00	\$ 225,800.00	\$ 121,028.80	\$ 39,540.00	\$ (104,771.20)	\$ 81,488.80	\$ 564,853.33	\$ 604,393.33	\$ 1,245,606.67	0.54	3.06	0.95
2103	North Mainland Water Loops	Vo	4Waters	4Waters	TBD	\$ 1,250,000.00	\$ 214,000.00	\$ 141,946.20	\$ 118,300.50	\$ (72,053.80)	\$ 23,645.70	\$ 923,471.84	\$ 1,041,772.34	\$ 208,227.66	0.66	1.20	0.98
2104	PS 4002 Rehab	Kline	Kimley-Horn	Kimley-Horn	TBD	\$ 650,000.00	\$ 80,000.00	\$ 49,580.00	\$ 45,138.10	\$ (30,420.00)	\$ 4,441.90	\$ 546,628.04	\$ 591,766.14	\$ 58,233.86	0.62	1.10	0.99
2105	PS 4044 Rehab	Kline	LEA	LEA	TBD	\$ 550,000.00	\$ 71,750.00	\$ 43,265.25	\$ 35,190.00	\$ (28,484.75)	\$ 8,075.25	\$ 412,155.16	\$ 447,345.16	\$ 102,654.84	0.60	1.23	0.98
2106	Dunbar Creek WPCF Rehab	Burroughs	BRW/HGB	HGB	BRW	\$ 5,588,893.30	\$ 1,623,230.46	\$ 667,975.67	\$ 312,987.00	\$ (955,254.79)	\$ 354,988.67	\$ 2,305,747.54	\$ 2,618,734.54	\$ 2,970,158.76	0.41	2.13	0.93
2108	PS 4001 Rehab	Kline	Kimley-Horn	Kimley-Horn	TBD	\$ 400,000.00	\$ 40,000.00	\$ 24,790.00	\$ 22,569.05	\$ (15,210.00)	\$ 2,220.95	\$ 341,594.73	\$ 364,163.78	\$ 35,836.22	0.62	1.10	0.99
2109	Highway 17 North Pump Station	Patel	JWSC	JWSC	TBD	\$ 400,000.00	\$ 400,000.00	\$ 10,000.00	\$ 27,604.83	\$ (390,000.00)	\$ (17,604.83)	\$ 1,076,588.37	\$ 1,104,193.20	\$ (704,193.20)	0.03	0.36	1.05
2110	PS 3101 Rehab	Kline	Kimley-Horn	Kimley-Horn	TBD	\$ 375,000.00	\$ 40,000.00	\$ 24,790.00	\$ 22,569.05	\$ (15,210.00)	\$ 2,220.95	\$ 318,834.49	\$ 341,403.54	\$ 33,596.46	0.62	1.10	0.99
TOTALS						\$ 67,456,794.30	\$ 46,645,184.57	\$ 39,607,472.30	\$ 40,583,029.75	\$ (7,037,712.27)	\$ (975,557.45)	\$ 28,068,440.94	\$ 68,651,470.69	\$ (1,194,676.39)	0.85	0.98	1.04

BAC	Budget at Completion	Approved Budget for Project
PV	Planned Value	% of Schedule Used x BAC
EV	Earned Value	% of Work Completed x BAC
AC	Actual Cost	Actual Costs to Date
SV	Schedule Variance	EV - PV
CV	Cost Variance	EV - AC
ETC	Estimate to Complete	(BAC - EV) / CPI
EAC	Estimate at Completion	AC + ETC
VAC	Variance at Completion	BAC - EAC
SPI	Schedule Performance Index	EV / PV
CPI	Cost Performance Index	EV / AC
TCPI	To Complete Performance Index	(BAC - EV) / (BAC - AC)

Positive means ahead of schedule
Positive is better
Estimate to complete based on cost performance to date
Estimated final project cost
Positive means project is projected to be under budget
Greater than 1.0 means ahead of schedule
Greater than 1.0 means costs are ahead of schedule
Greater than 1.0 indicates project management needs to be more efficient to complete project on budget