



Brunswick-Glynn County Joint Water and Sewer Commission
1703 Gloucester Street, Brunswick GA 31520
Wednesday, August 16, 2023, at 1:00 PM
Commission Meeting Room

FACILITIES COMMITTEE MEETING AGENDA

COMMITTEE MEMBERS:

Committee Chairman Ben Turnipseed
Commissioner Chuck Cook
Commissioner Tripp Stephens
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 July 19, 2023, Facilities Committee Meeting (subject to any necessary changes)** [Report](#)
2. **FY2024 Watershed Protection Plans** – A. Burroughs [Report](#)
3. **Contract Award – PS 4044 Rehab** – A. Burroughs [Report](#)
4. **Contract Award – PS 3101/4001/4002 Rehab** – A. Burroughs [Report](#)
5. **Contract Award – North Mainland Water Loops** – A. Burroughs [Report](#)
6. **Dedication of Private Infrastructure & Easement** – T. Kline [Report](#)
 - 113 Circle Drive - Easement

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**

EXECUTIVE SESSION
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, August 16, 2023, at 1:00 PM

FACILITIES COMMITTEE MINUTES

PRESENT: **Ben Turnipseed, Chairman**
 Tripp Stephens, Commissioner
 Charles Cook, Commissioner
 Andrew Burroughs, Executive Director

ALSO PRESENT: **Todd Kline, Director of Engineering**
 LaDonnah Roberts, Deputy Executive Director
 David Owens, Director of Finance
 Pam Crosby, Director of Procurement
 Janice Meridith, Executive Commission Admin.

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

Chairman Turnipseed provided the invocation.

PUBLIC COMMENT PERIOD

Chairman Turnipseed opened the 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 July 19, 2023

Commissioner Stephens made a motion seconded by Commissioner Cook to approve the minutes from the Facilities Committee Meeting held on July 19, 2023. Motion carried 3-0-0.

2. FY2024 Watershed Protection Plan – A. Burroughs

Mr. Burroughs advised that JWSC is required by NPDES permit to maintain a watershed protection plan (WPP) for each of the JWSC-operated water pollution control facilities (WPCF). The plans require both dry and wet weather sampling at multiple locations throughout the watershed that each plant discharges into. The plans require quarterly dry and wet weather sampling plus additional metals and bacterial sampling. Samples are taken from 7 locations in the Academy Creek watershed, 3 locations in the Dunbar Creek watershed, and 2 locations in the South Port watershed. JWSC has a longstanding relationship with Integrated Science & Engineering (ISE) for the completion of the sampling protocol, analysis, and production of the annual reports required by permit for these watershed protection plans.

ISE provided WPP services to Glynn County prior to the formation of the JWSC. The combined total for all three WPCF's is \$65,300 and is budgeted for in the individual plant Technical Services budget.

Commissioner Cook made a motion seconded by Commissioner Stephens that the Facilities Committee recommend the full Commission approve a contract award to Integrated Science & Engineering for the Fiscal Year 2024 Watershed Protection Plan in the amount of \$65,300.00. Motion carried 3-0-0.

3. Contract Award – PS 4044 Rehab – A. Burroughs

Mr. Burroughs stated that Pump Station 4044 is located adjacent to Altama Connector and receives flow from the areas around the Glynn Place Mall, Home Depot, and residential areas in the vicinity. It receives flow from two upstream stations as well. The proposed construction consists of construction of a new pump station including a new wet well, force main, electrical systems, and SCADA systems on a parcel adjacent to Prime South. The existing station will be demolished above ground with the wet well turned into a receiving manhole for the new station. This project was started 3.5 years ago, and the budgeted amount then was \$550,000 and an engineer's cost estimate of \$1,396,142. The lone bid received on July 11, 2023, was from Popco, Inc. in the amount of \$1,980,656.90 which far exceeded both the original budgeted amount and engineer's cost estimate. After various questions by the Commissioners and detailed discussion regarding the critical requirements, condition, and location of this pump station, the Committee recognized staff's recommendation to move forward with the negotiated price presented by Popco with a 330-days contract time to completion.

Commissioner Cook made a motion seconded by Commissioner Stephens that the Facilities Committee recommend the full Commission award a contract to Popco, Inc. for the rehab of Pump Station 4044 in the amount of \$1,980,656.90. Motion carried 3-0-0.

Committee Chairman Turnipseed requested that the Facilities Committee review and discuss future projects prior to the bidding process.

4. Contract Award – PS 3101/4001/4002 Rehab – A. Burroughs

Mr. Burroughs advised that the rehab of Pump Stations 3101, 4001, and 4002 were all identified as high priority projects in the Master Plan due to the condition of the electrical systems. This project was previously bid with the lowest bid at \$3,853,309. The bids far exceeded the budget of \$1,425,000 and the engineer's estimated cost of \$1,659,000. The project scope was reviewed by staff and reduced to include only the items as specified in the Master Plan. The proposed construction consists of electrical upgrades, minor building rehab, and temporary flow bypassing at all three stations. The lone bidder for the revised project was Popco, Inc. in the amount of \$2,334,460. Staff worked with Popco to find potential ways to reduce the project cost. The solution presented was for JWSC to provide flow bypassing utilizing existing equipment, which resulted in Popco's bid being reduced to \$1,755,317. The revised bid still exceeded the budgeted amount and engineer's estimated cost, however JWSC staff recommended moving forward with the project due to the current pricing environment.

Commissioner Cook made a motion seconded by Commissioner Stephens that the Facilities Committee recommend the full Commission award a contract to Popco, Inc. for the rehab of Pump Stations 3101, 4001, and 4002 in the amount of \$1,755,317. Motion carried 3-0-0.

5. Contract Award – North Mainland Water Loops – A. Burroughs

Mr. Burroughs noted that the proposed construction for the North Mainland Water Loops Construction Project consists of watermain interconnections which are located at separate areas within the JWSC service area. He provided the details for the following: 12" diameter PVC watermain to be installed along Hautala Drive; 12" diameter PVC watermain constructed along Bailey Road; 12" diameter PVC installed along Old Jesup Road; 16" diameter HDPE watermain installed under two water courses along Old Jesup

Road; and, 10" diameter HDPE constructed along Perry Lane Road. Vallencourt Construction provided a bid of \$2,996,458.60, and TB Landmark Construction, Inc. provided a bid of \$3,110,253.00. Mr. Burroughs noted that this Project will definitely improve water distribution in the North Mainland area. It connects long dead-end lines and will help keep water flowing to the schools, hotels, and restaurants when part of the system may go down. Commissioner Stephens requested staff go back to bidder to get a materials list of pipes needed for the Project and then obtain pricing and delivery from JWSC's suppliers to compare Project pricing and use the most cost-effective materials source. Staff recommended JWSC award a contract to the lowest bidder Vallencourt Construction. Vallencourt Construction is a new contractor to JWSC and received good references from prior Projects.

Commissioner Cook made a motion seconded by Commissioner Stephens that the Facilities Committee recommend the full Commission accept the bid for the IFB 23-011 Construction Services for N. Mainland Water Loops, in the amount of \$2,996,458.60 and award a contract to Vallencourt Construction. Motion carried 3-0-0.

6. Dedication of Private Infrastructure & Easement – T. Kline

- 113 Circle Drive – Easement

Mr. Kline provided that the Owner of the above-mentioned property wishes to convey an easement to JWSC. They have submitted necessary legal documents defining the transfer of ownership and conveying the easements for access and maintenance. All requirements of the JWSC Standards for Water & Sewer Design and Construction and Development Procedures have been met, and all related documents submitted.

Commissioner Cook made a motion seconded by Commissioner Stephens that the Facilities Committee recommend the full Commission approve and accept the 113 Circle Drive Easement dedication. Motion carried 3-0-0.

Commissioner Stephens left the meeting at 2:30 p.m.

DISCUSSION

1. Water Production Report – A. Burroughs

Mr. Burroughs presented the Water Production Report for the month of July 2023 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 July Monthly Wastewater Flow Report with the Commissioners. This report contains data regarding the influent and effluent flows, concentration of elements and chemicals, plant capacity, etc. July 2023 had a higher recorded rainfall at Academy Creek than the month of June. The influent flow at Academy Creek for July was 6.8 MGD as compared to June at 6.3. The effluent flow for July increased from June's 5.7 MGD to 6.1 MGD, with the plant operating at 45% of its capacity. The influent flow at Dunbar Creek for the month of July was 3.0 MGD, and the effluent flow at 3.1 MGD, with the plant operating at 78% capacity. The influent flow at South Port was at 0.355 and the effluent flow reported at 0.472, with the plant operating at 31% capacity. JWSC's wastewater treatment plants are operating very well.

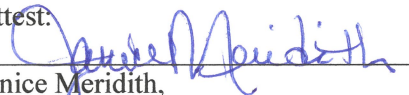
3. Capital Project Report – T. Kline / A. Burroughs

Mr. Kline and Mr. Burroughs presented an update on the 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 adjourned the meeting at 2:50 p.m.



G. Ben Turnipseed,
Facilities Committee Chairman

Attest: 

Janice Meridith,
Executive Commission Administrator



Brunswick-Glynn

Joint Water and Sewer Commission

Memorandum

To: Facilities Committee
From: Andrew Burroughs, P.E., Executive Director
Date: Wednesday, August 16, 2023
Re: Contract Award – FY 2024 Long-Term Water Quality Monitoring

Background:

JWSC is required by NPDES permit to maintain a watershed protection plan (WPP) for each of the JWSC-operated water pollution control facilities (WPCF). The plans require both dry and wet weather sampling at multiple locations throughout the watershed that each plant discharges into. The plans require quarterly dry and wet weather sampling plus additional metals and bacterial sampling. Samples are taken from 7 locations in the Academy Creek watershed, 3 locations in the Dunbar Creek watershed, and 2 locations in the South Port watershed.

Staff Report

JWSC has a longstanding relationship with Integrated Science & Engineering (ISE) for the completion of the sampling protocol, analysis, and production of the annual reports required by permit for these watershed protection plans. ISE provided WPP services to Glynn County prior to the formation of the JWSC. Staff is very pleased with the work product produced by ISE and would like to continue this relationship for another year. In the table below, you will see the breakdown of costs for each plant in the upcoming fiscal year. These expenses are budgeted in the individual plant Technical Services budget.

WPCF	Cost
Academy Creek	\$35,700
Dunbar Creek	\$14,975
South Port	\$14,625
Combined	\$65,300

Recommended Action

Staff recommends entering into a work authorization agreement with Integrated Science & Engineering for the completion of the watershed protection plans for the three water pollution control facilities in the amount of \$65,300.

Recommended Motion

“I move that the Facilities Committee recommend the full Commission approve a contract award to Integrated Science & Engineering for the Fiscal Year 2024 Watershed Protection Plans in the amount of \$65,300.00”

Enclosures

Academy Creek Proposal
Dunbar Creek Proposal
South Port Proposal

To: Todd Kline, P.E.
Company: Brunswick-Glynn Joint Water & Sewer Commission
Address: 1703 Gloucester Street
 Brunswick, GA 31520

Date: July 6, 2023
From: Jason Ray, GISP
Copy to: file

Project: FY 2024 Long-Term Water Quality Monitoring
 Academy Creek WPCP Watershed Protection Plan

Background Information:

The Brunswick-Glynn Joint Water & Sewer Commission (the Commission) developed a watershed protection plan (WPP) as part of the NPDES permit (No. GA0025313) for the Academy Creek Water Pollution Control Plant (WPCP). The WPP was approved by EPD on July 25, 2019. This work authorization outlines the scope of work, schedule, and proposed fee for Integrated Science & Engineering, Inc. (ISE) to assist the Commission with implementing long-term water quality monitoring for the 2024 fiscal year ending June 30, 2024 within the service area of the Academy Creek WPCP.

The WPP for Academy Creek WPCP includes long-term water quality monitoring of streams, canals, and rivers draining the sewer service area. Monitoring activities include chemical and biologic monitoring at various locations within the service area. Chemical monitoring is performed annually and biological assessment is performed twice every five years.

Scope of Work:

ISE will conduct long-term water quality monitoring to include sampling and analysis of physical, bacteria, and chemical parameters. Monitoring will be performed at these seven locations:

Site ID	Reach Name	Road Crossing
3	Burnett Creek	Old Jesup Road
5	Purvis Creek	Lakeside Circle at power line right-of-way
6	East River	Newcastle Street near M Street intersection
10	Mill Creek	end of Dolphin Street off 4 th Street
12	Troup Tributary	Darien Highway north of John S Tarr Drive
13	Tributary to Troup Creek	Darien Highway north of Pheasant Drive
14	Brunswick-Altamaha Canal North	Highway 99 near Shell Road intersection

WORK AUTHORIZATION

Dry and wet weather sampling is performed quarterly (four times per year) for all parameters except dissolved metals and bacteria. Sampling is conducted for one (1) dry weather event and one (1) wet weather event during the summer season from May through October and for two (2) dry weather events during the winter season from November through April. Bacteria sampling for enterococci is performed during the summer season to calculate two geometric means, each including 4 samples collected over a 30-day period. Dissolved metals sampling is performed during the summer season wet weather event.

Field measurements (*in-situ*) and laboratory analysis of water samples will be conducted for these parameters:

Air Temperature	Total Kjeldahl nitrogen (TKN)
Water Temperature (<i>in-situ</i>)	Ammonia nitrogen (NH ₃)
Dissolved Oxygen (<i>in-situ</i>)	Nitrate/Nitrite nitrogen (NO ₃ -NO ₂)
Conductivity (<i>in-situ</i>)	Total phosphorus
pH (<i>in-situ</i>)	Orthophosphate
Turbidity (<i>in-situ</i>)	5-day Biochemical Oxygen Demand (BOD ₅)
Salinity (<i>in-situ</i>)	Chemical Oxygen Demand (COD)
Estimated Stream Flow	Total Hardness
Total suspended solids (TSS)	Dissolved metals (cadmium, copper, lead, selenium, zinc)
Total Alkalinity	Enterococci

Water Quality Sampling and Analysis

ISE proposes to collect water quality data over ten (10) sampling events divided into 4 tasks.

Task 1: Q3 2023 Summer Water Quality Monitoring

The first water quality monitoring period is July 1 to October 31, 2023 and consists of four separate sampling events. The initial sampling event will focus on collecting water quality samples during a period preceded by at least 72-hours of no rainfall; this shall qualify as a “dry weather” event. This event will monitor water quality for the aforementioned *in-situ*, chemical, and bacteria parameters. Following this event, three additional sampling events will be conducted within 30 days and water quality will be monitored for *in-situ* and bacteria parameters. These three events will occur approximately every 7 days irrespective of the weather. Following completion of all four sampling events, ISE will submit a memo to the Commission summarizing the monitoring results for this task.

Task 2: Q4 2023 Winter Water Quality Monitoring

The second water quality monitoring period is November 1 to December 31, 2023 and consists of one sampling event that will collect water quality samples during a period preceded by at least 72-hours of no rainfall; this shall qualify as a “dry weather” event. This event will monitor water quality for the

WORK AUTHORIZATION

aforementioned *in-situ* and chemical parameters. This event concludes the 2023 calendar year water quality sampling activities.

Task 3: Q1 2024 Winter Water Quality Monitoring

The third water quality monitoring period is January 1 to April 30, 2024 and consists of one sampling event that will collect water quality samples during a period preceded by at least 72-hours of no rainfall; this shall qualify as a “dry weather” event. This event will monitor water quality for the aforementioned *in-situ* and chemical parameters. Following this event, ISE will submit a memo to the Commission summarizing the monitoring results for this task.

Task 4: Q2 2024 Summer Water Quality Monitoring

The fourth water quality monitoring period is May 1 to June 30, 2024 and consists of four separate sampling events. The initial sampling event will focus on collecting water quality samples during or immediately following a storm event of at least 0.2-inches of rainfall over the previous 24-hour period. This shall qualify as a “wet weather” event. This event will monitor water quality for the aforementioned *in-situ*, chemical, and bacteria parameters as well as the dissolved metals cadmium, copper, lead, selenium, and zinc. Following completion of the wet weather sampling event, three additional sampling events will be conducted within 30 days and water quality will be monitored for *in-situ* and bacteria parameters. These three events will occur approximately every 7 days irrespective of the weather. Following completion of all four sampling events, ISE will submit a memo to the Commission summarizing the monitoring results for this task.

Summary of Sampling Events

The following table provides a summary of the proposed water quality sampling schedule.

Task	Event	Parameters to be Tested	Time Period
Task 1	Event #1	<i>In-situ</i> , Chemical, Bacteria (Dry Event)	July - October, 2023
	Events #2 - 4	<i>In-situ</i> , Bacteria	
Task 2	Event #5	<i>In-situ</i> , Chemical (Dry Event)	November - December, 2023
Task 3	Event #6	<i>In-situ</i> , Chemical (Dry Event)	January - April, 2024
Task 4	Event #7	<i>In-situ</i> , Chemical, Bacteria, Metals (Wet Event)	May - June, 2024
	Events #8 - 10	<i>In-situ</i> , Bacteria	

Task 5: Water Quality Evaluation and Report

Following completion of the 2023 water quality monitoring activities, ISE will evaluate the data and prepare a water quality report summarizing the calendar year 2023 monitoring results. The water quality evaluation will include a comparison of the 2023 results with EPD or other common standards for the parameters. The report will include a Certification Statement, to be signed by the Commission, and the 2023 monitoring data in an EPD formatted spreadsheet saved to CD-ROM.

WORK AUTHORIZATION

Deliverables

ISE will complete all sampling activities by June 30, 2024. ISE will prepare and submit one (1) copy of the following documents to both the Commission and EPD prior to EPD's June 30, 2024 reporting deadline for watershed protection plans:

- 2023 Annual Water Quality Report
- Certification Statement
- EPD Spreadsheet of Water Quality Data (CD-ROM)
- Electronic Copy of 2023 Annual Report

Schedule:

ISE will begin work following the signing of this Work Authorization. Sampling will be completed by June 30, 2024. Project deliverables will be submitted to the Commission and EPD by June 30, 2024.

Fee Estimate:

Task No.	Task Name	Contract Amount	Billing Type
1	Q3 2023 Summer Water Quality Monitoring	\$ 9,650	Lump Sum
2	Q4 2023 Winter Water Quality Monitoring	3,825	Lump Sum
3	Q1 2024 Winter Water Quality Monitoring	3,825	Lump Sum
4	Q2 2024 Summer Water Quality Monitoring	11,250	Lump Sum
5	Water Quality Evaluation and Report	7,150	Lump Sum
TOTAL		\$ 35,700	

All work will be performed in accordance with the attached Terms and Conditions. The fees listed contain ISE labor, subconsultants, and direct project expenses previously noted in the Scope of Work. Additional efforts, including fees and services outside the Scope of Work detailed herein will be coordinated directly with the Commission prior to proceeding. Additional fees will be billed hourly and in accordance with the rate schedule herein.

If this Work Authorization is acceptable, please sign and return a copy for our records as our notice to proceed.

Authorization:

Authorized by: _____ Title: _____

Print Name: _____ Date: _____

Terms and Conditions Included

WORK AUTHORIZATION

TERMS AND CONDITIONS

Integrated Science & Engineering, Inc. (ISE) shall perform the services outlined in this agreement for the stated fee arrangement.

Access to Site: Unless otherwise stated ISE will have reasonable access to the site for activities necessary for the performance of the services. If reasonable access is not provided and consequently ISE is denied or delayed in performing their services, the associated cost may be viewed as a reimbursable expense.

Billings/Payment: Invoices for ISE's services shall be submitted, at ISE's option, either upon completion of such services or on a monthly basis (unless noted otherwise) and are due when rendered. Invoices shall be considered "Past Due" if not paid within 30 days after the invoice date. If the invoice is not paid within 30 days, ISE may, without waiving any claim or right against the Client, and without liability whatsoever to the Client, terminate the performance of the service. Unpaid accounts shall be subject to a monthly service charge of 1.5% on the unpaid balance at the sole election of ISE. In the event any portion or all of an account remains unpaid 90 days after billing, the Client shall pay all costs of collection, including attorney's fees.

Reimbursable Expenses: Any expenses that are required beyond those identified under professional services will be billed at a multiple of 1.15 times the cost incurred.

Additional Services: Additional services include increase or change in scope of project, major revisions when such revisions are inconsistent with written approvals or instructions previously given, services after award of contract in evaluation of substitutions proposed by the construction contractor, and other services that are not included under professional services; provided, however, that additional services shall not be classified as reimbursable expenses and will be billed at ISE's cost incurred or normal prevailing rate. ISE will only perform additional services when authorized in writing by the Client.

Indemnification: The Client shall indemnify and hold harmless ISE and all of its personnel from and against any claims, damages, losses and expenses (including attorney's fees) arising out of or resulting from the performance of the services, provided that any such claim, damage, loss or expense is caused by the negligent act, omission, and/or strict liability of the Client, anyone directly employed by the Client (except ISE), or anyone for whose acts any of them may be liable.

ISE shall indemnify and hold harmless Client and all of Client's personnel from and against any claims, damages, losses and expenses (including attorney's fees) arising out of or resulting from the performance of the services, provided that any such claim, damage, loss or expense is caused by the negligent act, omission, and/or strict liability of ISE, anyone directly employed by ISE, or anyone for whose acts any of them may be liable.

Risk Allocation: In recognition of the relative risks, rewards and benefits of the project to both the Client and ISE, the risks have been allocated such that ISE and the Client agree that, to the fullest extent permitted by the law, each parties' total aggregate liability to the one another and their respective contractors, subcontractors, consultants and other parties with legal standing to file claims resulting from any and all injuries, claims, losses, expenses, damages or claim expenses arising out of this agreement from any cause or causes, shall not exceed \$50,000 or the total fee for services contemplated under this Agreement, whichever is less. Such causes include, but are not limited to, ISE's or Client's negligence, errors, omissions, strict liability, breach of contract or breach of warranty.

Termination of Services: This agreement may be terminated by written notice by either the Client or ISE should the other fail to perform its obligations

hereunder. In the event of termination, the Client shall pay ISE for all services rendered to the date of termination and all reimbursable expenses.

Ownership of Documents: All documents produced by ISE under this agreement shall remain the property of ISE and may not be used by the Client for any other endeavor without the written consent of ISE. Any unauthorized use or distribution shall be at Client's and Recipient's sole risk and without liability to ISE. Client further agrees that documents produced by ISE pursuant to this agreement will not be used at any location or for any project not expressly provided for in this agreement without ISE's written approval.

Discovery of Unanticipated Hazardous Materials: Hazardous materials may exist where there is no reason to believe they could or should be present. The client acknowledges that ISE's scope of services for this project does not include any services related to hazardous wastes. ISE and the Client agree that the discovery of unanticipated hazardous materials constitutes a changed condition mandating a renegotiation of the scope of work or termination of services. ISE and the Client also agree that the discovery of unanticipated hazardous materials may make it necessary for ISE to take immediate measures to protect human health and safety, and/or the environment. ISE agrees to notify the Client as soon as practically possible should unanticipated hazardous materials or suspected hazardous materials be encountered. The Client encourages ISE to take any and all measures that in ISE professional opinion are justified to preserve and protect the health and safety of ISE personnel and the public, and/or the environment, and the Client agrees to compensate ISE for the additional cost of such work.

Site Operations: ISE field personnel will avoid hazards or utilities which are visible to them at the site. If ISE is advised or given data in writing that reveals the presence or potential presence of underground or overground obstructions, such as utilities, ISE will give special instructions to their field personnel. ISE will conduct the research that in its professional opinion is necessary to locate utility lines and other man-made objects that may exist beneath the site's surface. The Client recognizes that ISE's research may not identify all subsurface utility lines and man-made objects, and that the information upon which ISE relies may contain errors or may not be complete. ISE is not responsible for any damage or loss due to undisclosed or unknown surface or subsurface conditions, owned by Client or third parties. Evaluations of existing buildings require that certain assumptions be made regarding existing conditions, many of which are not able to be reviewed by reasonable visual observation. These assumptions cannot be verified without substantial cost of demolition. Where the detailed investigation of such a condition is not authorized, ISE shall not be responsible for the condition of the existing structure. The Client understands that actual field conditions may subsequently be found to vary from design assumptions which in turn may alter or increase the scope of the design and/or construction services. The Client is fully responsible for and assumes all risks associated with such conditions.

Construction Activities: Unless specifically stated otherwise, the Client and his contractor(s) are fully and solely liable for all means and methods of construction, temporary bracing and shoring, and construction site safety.

Integration: This agreement, the attached documents and those incorporated herein constitute the entire agreement between the parties and cannot be changed except by a written instrument signed by both parties.

Governing Law: Unless otherwise specified, this agreement shall be governed by the laws in the State of Georgia.

WORK AUTHORIZATION

UNIT RATES – 2023 BILLING RATES

Integrated Science & Engineering, Inc.

	Rate/Hour
Sr. Principal	\$ 230.00
Principal	\$ 210.00
Sr. Project Manager	\$ 185.00
Project Manager	\$ 170.00
Project Engineer III	\$ 165.00
Project Engineer II	\$ 150.00
Project Engineer I	\$ 135.00
Engineer II	\$ 125.00
Engineer I	\$ 110.00
Sr. Environmental Scientist	\$ 145.00
Environmental Scientist	\$ 115.00
Sr. Professional Land Surveyor	\$ 160.00
Survey Crew (1-person)	\$ 150.00
Survey Crew (2-person)	\$ 175.00
Planner	\$ 125.00
Technician III	\$ 125.00
Technician II	\$ 105.00
Technician I	\$ 85.00
Administrative	\$ 75.00
Subcontractor / Subconsultant	Cost + 15%
Reimbursables	Cost + 15%

To: Todd Kline, P.E.
Company: Brunswick-Glynn Joint Water & Sewer Commission
Address: 1703 Gloucester Street
Brunswick, GA 31520

Date: July 6, 2023
From: Jason Ray, GISP
Copy to: file

Project: FY 2024 Long-Term Water Quality Monitoring
St. Simons WPCP Watershed Protection Plan

Background Information:

This work authorization outlines the scope of work, schedule, and proposed fee for Integrated Science & Engineering, Inc. (ISE) to assist the Brunswick-Glynn Joint Water & Sewer Commission (JWSC) with implementing long-term water quality monitoring for the 2024 fiscal year ending June 30, 2024 within the service area of the St. Simons WPCP. This work is required by the Glynn County Watershed Protection Plan (WPP) that includes water quality monitoring within the service area for the St. Simons WPCP. Glynn County (County) developed watershed protection plans as part of the NPDES permitting process for expansion of the St. Simons WPCP from a capacity of 3.0 MGD to 4.0 MGD and for expansion of the Exit 29 WPCP from 0.3 MGD to 1.5 MGD. As a result, the County developed a county-wide watershed protection plan that included an appendix specific to the service area for the St. Simons WPCP. The county-wide WPP including the St. Simons WPCP service area was approved by EPD on May 23, 2006. The Exit 29 WPCP WPP was added later and approved by EPD on February 8, 2008.

The WPP for St. Simons WPCP includes long-term water quality monitoring in streams, ditches and canals draining the sewer service area. Monitoring activities include chemical and biological monitoring at various monitoring locations within the service area. Chemical monitoring is performed annually and biological assessment is performed twice every five years; biological monitoring was last conducted in 2021.

Scope of Work:

ISE will conduct long-term water quality monitoring to include sampling and analysis of physical, bacteria, and chemical parameters. Monitoring will be performed at these three locations:

Site ID	Reach Name	Road Crossing
S2	Dunbar Creek	Sea Island Road
W1	Gully Hole Creek	Frederica Road
C*	Unnamed Ditch / Canal	Demere Road
*Only wet weather sampling is performed at this site as this is a drainage canal rather than a free-flowing stream		

WORK AUTHORIZATION

Dry and wet weather sampling is performed quarterly (four times per year) for all parameters except dissolved metals and bacteria. Sampling is conducted for one (1) dry weather event and one (1) wet weather event during the summer season from May through October and for one (1) dry weather event and one (1) wet weather event during the winter season from November through April. Bacteria sampling for enterococci is performed to calculate three geometric means, each including 4 samples collected over a 30-day period at intervals not less than 24 hours. Dissolved metals sampling is performed during the summer season wet weather event.

Field measurements (*in-situ*) and laboratory analysis of water samples will be conducted for these parameters:

Air Temperature	Ammonia nitrogen (NH ₃)
Water Temperature (<i>in-situ</i>)	Nitrate nitrogen (NO ₃)
Dissolved Oxygen (<i>in-situ</i>)	Nitrite nitrogen (NO ₂)
Conductivity (<i>in-situ</i>)	Total phosphorus
pH (<i>in-situ</i>)	Chemical Oxygen Demand (COD)
Turbidity (<i>in-situ</i>)	Total Hardness
Salinity (<i>in-situ</i>)	Dissolved metals (cadmium, copper, lead, zinc)
Total suspended solids (TSS)	Enterococci
Total Kjeldahl nitrogen (TKN)	

Water Quality Sampling and Analysis

ISE proposes to collect water quality data over thirteen (13) sampling events divided into 4 tasks.

Task 1: Q3 2023 Summer Water Quality Monitoring

The first water quality monitoring period is July 1 to October 31, 2023 and consists of four separate sampling events at two monitoring locations. The initial sampling event will focus on collecting water quality samples during a period preceded by at least 72-hours of no rainfall; this shall qualify as a “dry weather” event. This event will monitor water quality for the aforementioned *in-situ*, chemical, and bacteria parameters. Following this event, three additional sampling events will be conducted within 30 days and water quality will be monitored for *in-situ* and bacteria parameters. These three events will occur approximately every 7 days irrespective of the weather. Following completion of all four sampling events, ISE will submit a memo to the JWSC summarizing the monitoring results for this task.

Task 2: Q4 2023 Winter Water Quality Monitoring

The second water quality monitoring period is November 1 to December 31, 2023 and consists of one sampling event at three monitoring locations. The event will collect water quality samples during or immediately following a storm event of at least 0.2-inches of rainfall over the previous 24-hour period; this

WORK AUTHORIZATION

shall qualify as a “wet weather” event. This event will monitor water quality for the aforementioned *in-situ* and chemical parameters. This event concludes the 2023 calendar year water quality sampling activities.

Task 3: Q1 2024 Winter Water Quality Monitoring

The third water quality monitoring period is January 1 to April 30, 2024 and consists of four separate sampling events at two monitoring locations. The initial sampling event will collect water quality samples during a period preceded by at least 72-hours of no rainfall; this shall qualify as a “dry weather” event. This event will monitor water quality for the aforementioned *in-situ* and chemical parameters. Following this event, three additional sampling events will be conducted within 30 days and water quality will be monitored for *in-situ* and bacteria parameters. These three events will occur approximately every 7 days irrespective of the weather. Following completion of all four sampling events, ISE will submit a memo to the JWSC summarizing the monitoring results for this task.

Task 4: Q2 2024 Summer Water Quality Monitoring

The fourth water quality monitoring period is May 1 to June 30, 2024 and consists of four separate sampling events. The initial sampling event will collect water quality samples during or immediately following a storm event of at least 0.2-inches of rainfall over the previous 24-hour period; this shall qualify as a “wet weather” event. This event will monitor water quality at three monitoring locations for the aforementioned *in-situ*, chemical, and bacteria parameters as well as the dissolved metals cadmium, copper, lead, and zinc. Following completion of the wet weather sampling event, three additional sampling events will be conducted within 30 days and water quality will be monitored at two monitoring locations for *in-situ* and bacteria parameters. These three events will occur approximately every 7 days irrespective of the weather. Following completion of all four sampling events, ISE will submit a memo to the JWSC summarizing the monitoring results for this task.

Summary of Sampling Events

The following table provides a summary of the proposed water quality sampling schedule.

Task	Event	Parameters to be Tested	Time Period
Task 1	Event #1	<i>In-situ</i> , Chemical, Bacteria (Dry Event), 2 sites	July - October, 2023
	Events #2 - 4	<i>In-situ</i> and Bacteria, 2 sites	
Task 2	Event #5	<i>In-situ</i> , Chemical (Wet Event), 3 sites	November - December, 2023
Task 3	Event #6	<i>In-situ</i> , Chemical, Bacteria (Dry Event), 2 sites	January - April, 2024
	Events # 7 - 9	<i>In-situ</i> and Bacteria, 2 sites	
Task 4	Event #10	<i>In-situ</i> , Chemical, Bacteria, Metals (Wet Event), 3 sites	May - June, 2024
	Events #11 - 13	<i>In-situ</i> and Bacteria, 2 sites	

WORK AUTHORIZATION

Task 5: Water Quality Evaluation and Report

Following completion of the 2023 water quality monitoring activities, ISE will evaluate the data and prepare a water quality report summarizing the calendar year 2023 monitoring results. The water quality evaluation will include a comparison of the 2023 results with EPD or other common standards for the parameters. The report will include a Certification Statement, to be signed by the JWSC, and the 2023 monitoring data in an EPD formatted spreadsheet saved to CD-ROM.

Deliverables

ISE will complete all sampling activities by June 30, 2024. ISE will prepare and submit one (1) copy of the following documents to both the JWSC and EPD prior to EPD's June 30, 2024 reporting deadline for watershed protection plans:

- 2023 Annual Water Quality Report
- Certification Statement
- EPD Spreadsheet of Water Quality Data (CD-ROM)
- Electronic Copy of 2023 Annual Report

Schedule:

ISE will begin work following the signing of this Work Authorization. Sampling will be completed by June 30, 2024. Project deliverables will be submitted to the JWSC and EPD by June 30, 2024.

Fee Estimate:

Task No.	Task Name	Contract Amount	Billing Type
1	Q3 2023 Summer Water Quality Monitoring	\$ 3,250	Lump Sum
2	Q4 2023 Winter Water Quality Monitoring	1,200	Lump Sum
3	Q1 2024 Winter Water Quality Monitoring	3,250	Lump Sum
4	Q2 2024 Summer Water Quality Monitoring	3,700	Lump Sum
5	Water Quality Evaluation and Report	3,575	Lump Sum
TOTAL		\$ 14,975	

All work will be performed in accordance with the attached Terms and Conditions. The fees listed contain ISE labor, subconsultants, and direct project expenses previously noted in the Scope of Work. Additional efforts, including fees and services outside the Scope of Work detailed herein will be coordinated directly with the JWSC prior to proceeding. Additional fees will be billed hourly and in accordance with the rate schedule herein.

If this Work Authorization is acceptable, please sign and return a copy for our records as our notice to proceed.

WORK AUTHORIZATION

Authorization:

Authorized by: _____ Title: _____

Print Name: _____ Date: _____

Terms and Conditions Included

WORK AUTHORIZATION

TERMS AND CONDITIONS

Integrated Science & Engineering, Inc. (ISE) shall perform the services outlined in this agreement for the stated fee arrangement.

Access to Site: Unless otherwise stated ISE will have reasonable access to the site for activities necessary for the performance of the services. If reasonable access is not provided and consequently ISE is denied or delayed in performing their services, the associated cost may be viewed as a reimbursable expense.

Billings/Payment: Invoices for ISE's services shall be submitted, at ISE's option, either upon completion of such services or on a monthly basis (unless noted otherwise) and are due when rendered. Invoices shall be considered "Past Due" if not paid within 30 days after the invoice date. If the invoice is not paid within 30 days, ISE may, without waiving any claim or right against the Client, and without liability whatsoever to the Client, terminate the performance of the service. Unpaid accounts shall be subject to a monthly service charge of 1.5% on the unpaid balance at the sole election of ISE. In the event any portion or all of an account remains unpaid 90 days after billing, the Client shall pay all costs of collection, including attorney's fees.

Reimbursable Expenses: Any expenses that are required beyond those identified under professional services will be billed at a multiple of 1.15 times the cost incurred.

Additional Services: Additional services include increase or change in scope of project, major revisions when such revisions are inconsistent with written approvals or instructions previously given, services after award of contract in evaluation of substitutions proposed by the construction contractor, and other services that are not included under professional services; provided, however, that additional services shall not be classified as reimbursable expenses and will be billed at ISE's cost incurred or normal prevailing rate. ISE will only perform additional services when authorized in writing by the Client.

Indemnification: The Client shall indemnify and hold harmless ISE and all of its personnel from and against any claims, damages, losses and expenses (including attorney's fees) arising out of or resulting from the performance of the services, provided that any such claim, damage, loss or expense is caused by the negligent act, omission, and/or strict liability of the Client, anyone directly employed by the Client (except ISE), or anyone for whose acts any of them may be liable.

ISE shall indemnify and hold harmless Client and all of Client's personnel from and against any claims, damages, losses and expenses (including attorney's fees) arising out of or resulting from the performance of the services, provided that any such claim, damage, loss or expense is caused by the negligent act, omission, and/or strict liability of ISE, anyone directly employed by ISE, or anyone for whose acts any of them may be liable.

Risk Allocation: In recognition of the relative risks, rewards and benefits of the project to both the Client and ISE, the risks have been allocated such that ISE and the Client agree that, to the fullest extent permitted by the law, each parties' total aggregate liability to the one another and their respective contractors, subcontractors, consultants and other parties with legal standing to file claims resulting from any and all injuries, claims, losses, expenses, damages or claim expenses arising out of this agreement from any cause or causes, shall not exceed \$50,000 or the total fee for services contemplated under this Agreement, whichever is less. Such causes include, but are not limited to, ISE's or Client's negligence, errors, omissions, strict liability, breach of contract or breach of warranty.

Termination of Services: This agreement may be terminated by written notice by either the Client or ISE should the other fail to perform its obligations

hereunder. In the event of termination, the Client shall pay ISE for all services rendered to the date of termination and all reimbursable expenses.

Ownership of Documents: All documents produced by ISE under this agreement shall remain the property of ISE and may not be used by the Client for any other endeavor without the written consent of ISE. Any unauthorized use or distribution shall be at Client's and Recipient's sole risk and without liability to ISE. Client further agrees that documents produced by ISE pursuant to this agreement will not be used at any location or for any project not expressly provided for in this agreement without ISE's written approval.

Discovery of Unanticipated Hazardous Materials: Hazardous materials may exist where there is no reason to believe they could or should be present. The client acknowledges that ISE's scope of services for this project does not include any services related to hazardous wastes. ISE and the Client agree that the discovery of unanticipated hazardous materials constitutes a changed condition mandating a renegotiation of the scope of work or termination of services. ISE and the Client also agree that the discovery of unanticipated hazardous materials may make it necessary for ISE to take immediate measures to protect human health and safety, and/or the environment. ISE agrees to notify the Client as soon as practically possible should unanticipated hazardous materials or suspected hazardous materials be encountered. The Client encourages ISE to take any and all measures that in ISE professional opinion are justified to preserve and protect the health and safety of ISE personnel and the public, and/or the environment, and the Client agrees to compensate ISE for the additional cost of such work.

Site Operations: ISE field personnel will avoid hazards or utilities which are visible to them at the site. If ISE is advised or given data in writing that reveals the presence or potential presence of underground or overground obstructions, such as utilities, ISE will give special instructions to their field personnel. ISE will conduct the research that in its professional opinion is necessary to locate utility lines and other man-made objects that may exist beneath the site's surface. The Client recognizes that ISE's research may not identify all subsurface utility lines and man-made objects, and that the information upon which ISE relies may contain errors or may not be complete. ISE is not responsible for any damage or loss due to undisclosed or unknown surface or subsurface conditions, owned by Client or third parties. Evaluations of existing buildings require that certain assumptions be made regarding existing conditions, many of which are not able to be reviewed by reasonable visual observation. These assumptions cannot be verified without substantial cost of demolition. Where the detailed investigation of such a condition is not authorized, ISE shall not be responsible for the condition of the existing structure. The Client understands that actual field conditions may subsequently be found to vary from design assumptions which in turn may alter or increase the scope of the design and/or construction services. The Client is fully responsible for and assumes all risks associated with such conditions.

Construction Activities: Unless specifically stated otherwise, the Client and his contractor(s) are fully and solely liable for all means and methods of construction, temporary bracing and shoring, and construction site safety.

Integration: This agreement, the attached documents and those incorporated herein constitute the entire agreement between the parties and cannot be changed except by a written instrument signed by both parties.

Governing Law: Unless otherwise specified, this agreement shall be governed by the laws in the State of Georgia.

WORK AUTHORIZATION

UNIT RATES – 2023 BILLING RATES Integrated Science & Engineering, Inc.

	Rate/Hour
Sr. Principal	\$ 230.00
Principal	\$ 210.00
Sr. Project Manager	\$ 185.00
Project Manager	\$ 170.00
Project Engineer III	\$ 165.00
Project Engineer II	\$ 150.00
Project Engineer I	\$ 135.00
Engineer II	\$ 125.00
Engineer I	\$ 110.00
Sr. Environmental Scientist	\$ 145.00
Environmental Scientist	\$ 115.00
Sr. Professional Land Surveyor	\$ 160.00
Survey Crew (1-person)	\$ 150.00
Survey Crew (2-person)	\$ 175.00
Planner	\$ 125.00
Technician III	\$ 125.00
Technician II	\$ 105.00
Technician I	\$ 85.00
Administrative	\$ 75.00
Subcontractor / Subconsultant	Cost + 15%
Reimbursables	Cost + 15%

To: Todd Kline, P.E.
Company: Brunswick-Glynn Joint Water & Sewer Commission
Address: 1703 Gloucester Street
Brunswick, GA 31520

Date: July 6, 2023
From: Jason Ray, GISP
Copy to: file

Project: FY 2024 Long-Term Water Quality Monitoring
Exit 29 WPCP Watershed Protection Plan

Background Information:

This work authorization outlines the scope of work, schedule, and proposed fee for Integrated Science & Engineering, Inc. (ISE) to assist the Brunswick-Glynn Joint Water & Sewer Commission (JWSC) with implementing long-term water quality monitoring for the 2024 fiscal year ending June 30, 2024 within the service area of the Exit 29 WPCP. This work is required by the Glynn County Watershed Protection Plan (WPP) that includes water quality monitoring within the service area for the Exit 29 WPCP. Glynn County (County) developed watershed protection plans as part of the NPDES permitting process for expansion of the St. Simons WPCP from a capacity of 3.0 MGD to 4.0 MGD and for expansion of the Exit 29 WPCP from 0.3 MGD to 1.5 MGD. As a result, the County developed a county-wide watershed protection plan that included an appendix specific to the service area for the Exit 29 WPCP. The county-wide WPP including the St. Simons WPCP service area was approved by EPD on May 23, 2006. The Exit 29 WPCP WPP was added later and approved by EPD on February 8, 2008.

The WPP for the Exit 29 WPCP includes long-term water quality monitoring in streams and creeks draining the sewer service area. Monitoring activities include chemical and biological monitoring at various monitoring locations within the service area. Chemical monitoring is performed annually and biological assessment is performed twice every five years; biological monitoring was last conducted in 2021.

Scope of Work:

ISE will conduct long-term water quality monitoring to include sampling and analysis of physical, bacteria, and chemical parameters. Monitoring will be performed at these two locations:

Site ID	Reach Name	Road Crossing
CC	College Creek	US Highway 82
LGC	Laurel Grove Creek	Buck Swamp Road

WORK AUTHORIZATION

Dry and wet weather sampling is performed quarterly (four times per year) for all parameters except dissolved metals and bacteria. Sampling is conducted for one (1) dry weather event and one (1) wet weather event during the summer season from May through October and for one (1) dry weather event and one (1) wet weather event during the winter season from November through April. Bacteria sampling for enterococci is performed to calculate three geometric means, each including 4 samples collected over a 30-day period at intervals not less than 24 hours. Dissolved metals sampling is performed during the summer season wet weather event.

Field measurements (*in-situ*) and laboratory analysis of water samples will be conducted for these parameters:

Air Temperature	Ammonia nitrogen (NH ₃)
Water Temperature (<i>in-situ</i>)	Nitrate nitrogen (NO ₃)
Dissolved Oxygen (<i>in-situ</i>)	Nitrite nitrogen (NO ₂)
Conductivity (<i>in-situ</i>)	Total phosphorus
pH (<i>in-situ</i>)	Chemical Oxygen Demand (COD)
Turbidity (<i>in-situ</i>)	Total Hardness
Salinity (<i>in-situ</i>)	Dissolved metals (cadmium, copper, lead, zinc)
Total suspended solids (TSS)	Enterococci
Total Kjeldahl nitrogen (TKN)	

Water Quality Sampling and Analysis

ISE proposes to collect water quality data over thirteen (13) sampling events divided into 4 tasks.

Task 1: Q3 2023 Summer Water Quality Monitoring

The first water quality monitoring period is July 1 to October 31, 2023 and consists of four separate sampling events. The initial sampling event will focus on collecting water quality samples during a period preceded by at least 72-hours of no rainfall; this shall qualify as a “dry weather” event. This event will monitor water quality for the aforementioned *in-situ*, chemical, and bacteria parameters. Following this event, three additional sampling events will be conducted within 30 days and water quality will be monitored for *in-situ* and bacteria parameters. These three events will occur approximately every 7 days irrespective of the weather. Following completion of all four sampling events, ISE will submit a memo to the JWSC summarizing the monitoring results for this task.

Task 2: Q4 2023 Winter Water Quality Monitoring

The second water quality monitoring period is November 1 to December 31, 2023 and consists of one sampling event. The event will collect water quality samples during or immediately following a storm event of at least 0.2-inches of rainfall over the previous 24-hour period; this shall qualify as a “wet weather” event.

WORK AUTHORIZATION

This event will monitor water quality for the aforementioned *in-situ* and chemical parameters. This event concludes the 2023 calendar year water quality sampling activities.

Task 3: Q1 2024 Winter Water Quality Monitoring

The third water quality monitoring period is January 1 to April 30, 2024 and consists of four separate sampling events. The initial sampling event will collect water quality samples during a period preceded by at least 72-hours of no rainfall; this shall qualify as a “dry weather” event. This event will monitor water quality for the aforementioned *in-situ* and chemical parameters. Following this event, three additional sampling events will be conducted within 30 days and water quality will be monitored for *in-situ* and bacteria parameters. These three events will occur approximately every 7 days irrespective of the weather. Following completion of all four sampling events, ISE will submit a memo to the JWSC summarizing the monitoring results for this task.

Task 4: Q2 2024 Summer Water Quality Monitoring

The fourth water quality monitoring period is May 1 to June 30, 2024 and consists of four separate sampling events. The initial sampling event will focus on collecting water quality samples during or immediately following a storm event of at least 0.2-inches of rainfall over the previous 24-hour period. This shall qualify as a “wet weather” event. This event will monitor water quality for the aforementioned *in-situ*, chemical, and bacteria parameters as well as the dissolved metals cadmium, copper, lead, and zinc. Following completion of the wet weather sampling event, three additional sampling events will be conducted within 30 days and water quality will be monitored for *in-situ* and bacteria parameters. These three events will occur approximately every 7 days irrespective of the weather. Following completion of all four sampling events, ISE will submit a memo to the JWSC summarizing the monitoring results for this task.

Summary of Sampling Events

The following table provides a summary of the proposed water quality sampling schedule.

Task	Event	Parameters to be Tested	Time Period
Task 1	Event #1	<i>In-situ</i> , Chemical, and Bacteria (Dry Event)	July - October, 2023
	Events #2 - 4	<i>In-situ</i> and Bacteria	
Task 2	Event #5	<i>In-situ</i> and Chemical (Wet Event)	November - December, 2023
Task 3	Event #6	<i>In-situ</i> , Chemical, and Bacteria (Dry Event)	January - April, 2024
	Events # 7 - 9	<i>In-situ</i> and Bacteria	
Task 4	Event #10	<i>In-situ</i> , Chemical, Bacteria, and Metals (Wet Event)	May - June, 2024
	Events #11 - 13	<i>In-situ</i> and Bacteria	

WORK AUTHORIZATION

Task 5: Water Quality Evaluation and Report

Following completion of the 2023 water quality monitoring activities, ISE will evaluate the data and prepare a water quality report summarizing the calendar year 2023 monitoring results. The water quality evaluation will include a comparison of the 2023 results with EPD or other common standards for the parameters. The report will include a Certification Statement, to be signed by the JWSC, and the 2023 monitoring data in an EPD formatted spreadsheet saved to CD-ROM.

Deliverables

ISE will complete all sampling activities by June 30, 2024. ISE will prepare and submit one (1) copy of the following documents to both the JWSC and EPD prior to EPD's June 30, 2024 reporting deadline for watershed protection plans:

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Schedule:

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5	Water Quality Evaluation and Report	3,575	Lump Sum
TOTAL		\$ 14,625	

All work will be performed in accordance with the attached Terms and Conditions. The fees listed contain ISE labor, subconsultants, and direct project expenses previously noted in the Scope of Work. Additional efforts, including fees and services outside the Scope of Work detailed herein will be coordinated directly with the JWSC prior to proceeding. Additional fees will be billed hourly and in accordance with the rate schedule herein.

If this Work Authorization is acceptable, please sign and return a copy for our records as our notice to proceed.

WORK AUTHORIZATION

Authorization:

Authorized by: _____

Title: _____

Print Name: _____

Date: _____

Terms and Conditions Included

WORK AUTHORIZATION

TERMS AND CONDITIONS

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WORK AUTHORIZATION

UNIT RATES – 2023 BILLING RATES

Integrated Science & Engineering, Inc.

	Rate/Hour
Sr. Principal	\$ 230.00
Principal	\$ 210.00
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Project Manager	\$ 170.00
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Project Engineer I	\$ 135.00
Engineer II	\$ 125.00
Engineer I	\$ 110.00
Sr. Environmental Scientist	\$ 145.00
Environmental Scientist	\$ 115.00
Sr. Professional Land Surveyor	\$ 160.00
Survey Crew (1-person)	\$ 150.00
Survey Crew (2-person)	\$ 175.00
Planner	\$ 125.00
Technician III	\$ 125.00
Technician II	\$ 105.00
Technician I	\$ 85.00
Administrative	\$ 75.00
Subcontractor / Subconsultant	Cost + 15%
Reimbursables	Cost + 15%



Brunswick-Glynn

Joint Water and Sewer Commission

Memorandum

To: Facilities Committee
From: Andrew Burroughs, Executive Director
Date: Wednesday, August 16, 2023
Re: Contract Award – PS 4044 Rehab

Background

PS 4044 is located adjacent to Altama Connector and receives flow from the areas around the Glynn Place Mall, Home Depot, and residential areas in the vicinity. It receives flow from two upstream pump stations as well. The JWSC issued Invitation for Bids No. 23-021 Construction Services for Rehabilitation of PS4044 on Friday, June 9, 2023. The proposed construction consists of construction of a new pump station including a new wet well, force main, electrical systems, and SCADA systems on a parcel adjacent to Primesouth Bank. The existing station will be demolished above ground with the wet well turned into a receiving manhole for the new station.

A mandatory pre-bid teleconference and site visit was held on Thursday, June 29, 2023, and was attended by five (5) construction firms. One (1) bid was submitted to JWSC on Tuesday, July 11, 2023, from Popco, Inc. in the amount of \$1,989,201.90.

Staff Report

Staff negotiated with the lone bidder to find potential ways to reduce the cost of the project. As a result, minor cost savings were found with a new total cost of \$1,980,656.90. Funding for this project will come from the R&R Reserve. With a budgeted amount of \$550,000 and an engineer's cost estimate of \$1,396,142, the bid price of \$1,980,656.90 submitted by the only bidder, Popco, Inc., far exceeds both. Given the critical nature of this pump station, the challenging location adjacent to a busy street, and the need to increase pumping capacity to handle current flow conditions, staff recommends moving forward with the negotiated price presented by Popco.

Recommended Action

Staff recommends awarding a contract to Popco, Inc. for the rehab of Pump Station 4044 in the amount of \$1,980,656.90.

Recommended Motion

"I move that the Facilities Committee recommend the full Commission award a contract to Popco, Inc. for the rehab of Pump Station 4044 in the amount of \$1,980,656.90."

Enclosure

Engineer's Recommendation of Award
Bid Tab

Bid Tab Summary

Pump Station 4044 REHAB

Prepared by: LEA, PC

Date: 8/10/2023

**ORIGINAL BID**

Item	Description	Quantity	Unit	Unit Cost	Total Cost
1	Mobilization, Demobilization, Insurance & Bonds	1	LS	\$ 140,400.00	140,400.00
2	Demolition of existing structures, equipment, and materials (remove and dispose)	1	LS	\$ 76,050.00	76,050.00
3	Traffic Control	1	LS	\$ 35,100.00	35,100.00
4	Abandon Existing Foremain	124	LF	\$ 93.60	11,606.40
5	Temporary Bypass Pumping	1	LS	\$ 87,750.00	87,750.00
6	Existing Wetwell Cleaning, Coating, New Frame & Cover	1	LS	\$ 44,460.00	44,460.00
7	Convert Private Lift Station to Manhole, New Frame and Cover, 8 LF 8" PVC gravity connection	1	LS	\$ 29,250.00	29,250.00
8	Retrofit Existing Wetwell to Influent Manhole	1	LS	\$ 70,200.00	70,200.00
9	Abandon Existing Valve Pit	1	LS	\$ 16,965.00	16,965.00
10	Electrical	1	LS	\$ 97,750.00	97,750.00
11	SCADA	1	LS	\$ 139,171.50	139,171.50
12	New Precast Wetwell	1	LS	\$ 478,560.00	478,560.00
13	Pumps, Piping, Vaults, Misc. Valves and Appurtenances	1	LS	\$ 278,050.00	278,050.00
14	Rosemount Meter, Vault, and Appurtenances	1	LS	\$ 31,900.00	31,900.00
15	15" PVC Gravity Sewer	100	LF	\$ 432.00	43,200.00
16	12" HDPE Foremain	45	LF	\$ 201.00	9,045.00
17	2" Poly Water Service	110	LF	\$ 40.00	4,400.00
18	Fittings (Sewer Safe)	1	LS	\$ 14,040.00	14,040.00
19	Connect to Existing MH, New Frame & Cover, Coasting MH	1	LS	\$ 44,460.00	44,460.00
20	Relocate and Install Water Meter & RPZ, Yard Hydrant, Hose, Nozzle, and Hose Rack	1	LS	\$ 8,775.00	8,775.00
21	Fencing and Gate	1	LS	\$ 23,400.00	23,400.00
22	Tree Removal	1	LS	\$ 7,605.00	7,605.00
23	Hydroseeding / Sodding (Stabilization)	1	LS	\$ 11,700.00	11,700.00
24	Erosion Control and Grassing	1	LS	\$ 9,360.00	9,360.00
25	Dewatering / Groundwater Control	1	LS	\$ 63,050.00	63,050.00
26	Trench Safety System for trench excavation	1	LS	\$ 52,650.00	52,650.00
27	Glenn County asphalt pavement replacement	267	SY	\$ 211.00	56,337.00
28	Sidewalk Removal and Replacement	50	SF	\$ 0.00	0.00
29	Remove and replace roll-back curb	25	LF	\$ 117.00	2,925.00
30	Pavement Striping	1	EA	\$ 4,095.00	4,095.00
31	Cash allowance for signage	200	EA	\$ 1.00	200.00
32	Cash Allowance for Gas Main Relocation	78600	EA	\$ 1.00	78,600.00
33	Cash Allowance for Georgia Power Relocation	25000	EA	\$ 0.10	2,500.00
34	Cash Allowance for Glynn County Permits	5000	EA	\$ 1.00	5,000.00
35	Extra Hand Excavation	1	CY	\$ 585.00	585.00
36	Extra Machine Excavation	10	CY	\$ 292.50	2,925.00
37	Extra Placement of Backfill Material	5	CY	\$ 292.50	1,462.50
38	Extra placement of Granular Fill	1	CY	\$ 702.00	702.00
39	Extra Cement - Stabilized Sand	1	CY	\$ 0.00	0.00
40	Extra Ductile Iron Compact Fitting (in-place)	0.25	TN	\$ 19,890.00	4,972.50

Total \$1,989,201.90**REVISED BID**

Unit Cost	Total Cost
140,400.00	140,400.00
76,050.00	76,050.00
35,100.00	35,100.00
93.60	11,606.40
87,750.00	87,750.00
44,460.00	44,460.00
29,250.00	29,250.00
70,200.00	70,200.00
16,965.00	16,965.00
186,518.00	186,518.00
15,258.50	15,258.50
478,560.00	478,560.00
278,050.00	278,050.00
31,900.00	31,900.00
432.00	43,200.00
201.00	9,045.00
40.00	4,400.00
14,040.00	14,040.00
44,460.00	44,460.00
8,775.00	8,775.00
23,400.00	23,400.00
7,605.00	7,605.00
11,700.00	11,700.00
9,360.00	9,360.00
63,050.00	63,050.00
52,650.00	52,650.00
211.00	56,337.00
75.00	3,750.00
117.00	2,925.00
4,095.00	4,095.00
1.00	200.00
1.00	78,600.00
1.00	25,000.00
1.00	5,000.00
585.00	585.00
292.50	2,925.00
292.50	1,462.50
702.00	702.00
350.00	350.00
19,890.00	4,972.50

*Moved \$88,768 from line item 11 to 10 (High Voltage, etc)
*Deduct \$35,145 already included in line item 13 and 14

*Added unit cost omitted in original bid

*Revised allowance to match quote from GP

*Added unit cost for item that had 0 quantity on original bid

Total \$1,980,656.90

SECTION 00410
BID FORM

DATE SUBMITTED:

July 11, 2023

PROJECT NAME:

PUMP STATION 4044

REHAB PROJECT NO. 2105

BRUNSWICK, GEORGIA

SUBMITTED TO:

Brunswick – Glynn County Joint

Water and Sewer Commission

1703 Gloucester Street,

Brunswick, Georgia 31520

SUBMITTED BY:

Company Name:

Popco, Inc

Address:

P O Box 526

Sylvester GA 31791

Georgia Utility Contractor's License No.

UC301473

Acknowledge Receipt of Addenda Numbers

1 (6/16/23)

The undersigned as BIDDER hereby declares that the only person or persons interested in the BID as principal or Principals is or are named herein and that no other person than herein mentioned has any interest in the BID or in the Contract to be entered into; that this BID is made without connection with any other person or parties making a BID, and that it is in all respects fair and in good faith without collusion or fraud.

The BIDDER declares that he has examined the site of the work and informed himself fully in regard to all conditions pertaining to the place where the work is to be done; that he has examined the plans and

specifications for the work and the documents relative thereto; and has read all General and Special Conditions furnished prior to the opening of bids; that he has satisfied himself relative to the work to be performed.

The BIDDER proposes and agrees, if the BID is accepted, to contract with the Brunswick – Glynn County Joint Water and Sewer Commission to furnish all necessary materials, equipment, machinery, tools, apparatus, means of transportation and labor to complete the work in full and complete accordance with the shown, noted, described and reasonably intended requirements of the plans, specifications and contract documents to the full and entire satisfaction of the Brunswick – Glynn County Joint Water and Sewer

PUMP STATION 4044 REHABILITATION PROJECT NO. 2105

SECTION 00410

Commission with a definite understanding that no money will be allowed for extra work except as set forth in the attached General Conditions and contract documents for the prices set forth below.

ITEM 1 – WASTEWATER PUMPING STATION

For furnishing all labor materials and equipment (including the items of major mechanical equipment) necessary to construct the wastewater pumping station including, but not limited to, mobilization; earthwork; concrete work; installation of precast concrete wet well top; valve pit; electrical shelter; furnish and install new submersible pumps; furnish and install required station hardware; furnish and install new piping, effluent flow meter, valves and fittings; furnish and install new duplex control panel and SCADA system; electrical shelter and concrete pad; security fencing and related site work; electrical work; erosion control and grassing; demobilization; complete surface restoration and all other work and appurtenances required.

ITEM	EST QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
1	1	LS	Mobilization, Demobilization, Insurance & Bonds	\$ 140,400.00	\$ 140,400.00
2	1	LS	Demolition of existing structures, equipment, and materials (remove and dispose)	\$ 76,050.00	\$ 76,050.00
3	1	LS	Traffic Control	\$ 35,100.00	\$ 35,100.00
4	124	LF	Abandon Existing Forcemain	\$ 93.60	\$ 11,606.40
5	1	LS	Temporary Bypass Pumping	\$ 87,750.00	\$ 87,750.00
6	1	LS	Existing Wetwell Cleaning, Coating, new frame & cover	\$ 44,460.00	\$ 44,460.00
7	1	LS	Convert Private Lift Station to Manhole, new frame, and cover, 8 LF 8" PVC gravity connection	\$ 29,250.00	\$ 29,250.00
8	1	LS	Retrofit Existing Wetwell to Influent Manhole	\$ 70,200.00	\$ 70,200.00
9	1	LS	Abandon Existing Valve Pit	\$ 16,965.00	\$ 16,965.00
10	1	LS	Electrical	\$ 97,750.00	\$ 97,750.00
11	1	LS	SCADA	\$ 139,171.50	\$ 139,171.50

PUMP STATION 4044 REHABILITATION PROJECT NO. 2105
SECTION 00410

ITEM	EST QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
12	1	LS	New Precast Well	\$ 478,560.00	\$ 478,560.00
13	1	LS	Pumps, Piping, Vaults, Misc. Valves and Appurtenances	\$ 278,050.00	\$ 278,050.00
14	1	LS	Rosemount Meter, Vault, and Appurtenances	\$ 31,900.00	\$ 31,900.00
15	100	LF	15" PVC Gravity Sewer	\$ 432.00	\$ 43,200.00
16	45	LF	12" HDPE Forcemain	\$ 201.00	\$ 9045.00
17	110	LF	2" Poly Water Service	\$ 40.00	\$ 4400.00
18	1	LS	Fittings (Sewer Safe)	\$ 14,040.00	\$ 14,040.00
19	1	LS	Connect to Existing MH, new frame & cover, Coating manhole	\$ 44,460.00	\$ 44,460.00
20	1	LS	Relocate & install water meter & RPZ, yard hydrant, hose, nozzle, and hose rack	\$ 8775.00	\$ 8775.00
21	1	LS	Fencing and Gate	\$ 23,400.00	\$ 23,400.00
22	1	LS	Tree Removal	\$ 7605.00	\$ 7605.00
23	1	LS	Hydroseeding / sodding (stabilization)	\$ 11,700.00	\$ 11,700.00
24	1	LS	Erosion Control and Grassing	\$ 9360.00	\$ 9360.00
25	1	LS	Dewatering / Groundwater Control	\$ 63,050.00	\$ 63,050.00
26	1	LS	Trench Safety system for trench excavation	\$ 52,150.00	\$ 52,150.00
27	267	SY	Glynn County asphalt pavement replacement	\$ 211.00	\$ 56,337.00

PUMP STATION 4044 REHABILITATION PROJECT NO. 2105
SECTION 00410

28	50	LF	Sidewalk removal and replacement	\$ 75.00	\$ 3750.00
ITEM	EST QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
29	25	LS	Remove & re place curb	\$ 117.00	\$ 2925.00
30	1	EA	Pavement striping	\$ 4095.00	\$ 4095.00
31	1	EA	Cash allowance for signage	\$ 200.00	\$ 200.00
32	1	EA	Cash allowance for gas main relocation (AGL)	\$ 78,600.00	\$ 78,600.00
33	1	EA	Cash allowance for Georgia Power relocation	\$ 2,500.00	\$ 2,500.00
34	1	EA	Cash allowance for Glynn County permits	\$ 5,000.00	\$ 5,000.00
35	1	CY	Extra had excavation	\$ 585.00	\$ 585.00
36	10	CY	Extra machine excavation	\$ 292.50	\$ 2925.00
37	5	CY	Extra placement of backfill material	\$ 292.50	\$ 1462.50
38	1	CY	Extra placement of granular fill	\$ 702.00	\$ 702.00
39		CY	Extra cement - stabilized sand	\$ 350.00	
40	.25	TN	Extra ductile iron compact fitting (in place)	\$ 19,890.00	\$ 4972.50

Total Bid (Items 1 through 40) one million nine hundred eighty - nine

thousand two hundred one dollars & 90/100

(Words) one million nine hundred ninety - two thousand
nine hundred fifty - one dollars & 90/100

PUMP STATION 4044 REHABILITATION PROJECT NO. 2105
SECTION 00410

(~~\$ 1,989,201.90~~)

~~\$ 1,992,951.90~~ 7/11/23

(Numbers)

The Bidder further agrees to accomplish all work and provide all material for the lump sum price submitted and understands that the lump sum price is subject to adjustment by either increase or decrease, only through a properly executed change order.

The Bidder further proposes and agrees to commence work under this contract, with adequate force and equipment, on a date to be specified in a written order of the Owner and shall fully complete all work hereunder within three hundred and thirty (330) consecutive calendar days from and including said date.

The undersigned further agrees that, in case of failure on his part to execute the said Contract and Bonds within fifteen (15) consecutive calendar days after receipt of the conformed Contract Documents, the check or bid bond accompanying this Bid and the monies payable thereto, shall be paid into the funds of the Owner as liquidated damages for such failure otherwise, the check or Bid Bond accompanying this Bid shall be returned to the undersigned.

I understand that collusive bidding is a violation of state and federal law and can result in fines, prison sentences, and civil damage awards. I agree to abide by all conditions of this Invitation for Bids and certify that I am authorized to sign this Bid for the Bidder.

This 11th day of July 2023.

Company Name: (Please Type or Print)

Person Authorized to Sign:

Name: Popco, Inc

Name: Jeff Lewis

Street: P O Box 526

Signature: 

City: Sylvester

Title: Sec/Tres

State: GA Zip: 31791

Telephone Number: (229) 436-1411

Fax Number: (229) 436-1411

E-Mail: popco@pophammech.com



Brunswick-Glynn

Joint Water and Sewer Commission

Memorandum

To: Facilities Committee
From: Andrew Burroughs, Executive Director
Date: Wednesday, August 16, 2023
Re: Contract Award – PS 3101/4001/4002 Rehab

Background

These projects were listed as high priority in the Master Plan Update due to current condition of the electrical systems. This project was previously bid with a more extensive scope of work that included piping and pump replacements. The apparent low bid at that time was \$3,853,309. Bids were rejected, and the project scope was reduced to included only those items specified in the Master Plan. The JWSC issued Invitation for Bids No. 23-013 Construction Services for Rehabilitation of PS3101, PS4001 and PS4002 on Friday, June 9, 2023. The proposed construction consists of electrical upgrades, minor building rehab, and temporary flow bypassing and at all three (3) stations.

A mandatory pre-bid teleconference and site visit was held on Thursday, June 29, 2023, and was attended by two (2) construction firms. One (1) bid was submitted to JWSC on Tuesday, August 8, 2023, from Popco, Inc. in the amount of \$2,334,460. The breakdown for each station is listed below:

Station	Original Bid	JWSC Bypass
3101	\$473,986	\$385,986
4001	\$487,131	\$389,131
4002	\$1,373,343	\$980,200
Total	\$2,334,460	\$1,755,317

Staff Report

Staff negotiated with the lone bidder to find potential ways to reduce the cost of the project. As a result, the JWSC will be provided bypass pumping for the project utilizing existing equipment. This reduces the bid prices to the second column in the table above. Funding for this project will come from the R&R Reserve. With a budgeted amount of \$1,425,000 and an engineer's cost estimate of \$1,659,000. The bid price of \$1,755,317 submitted by the only bidder, Popco, Inc., exceeds both. However, in the current pricing environment, staff feels comfortable moving forward with the provided bid by Popco.

Recommended Action

Staff recommends awarding a contract to Popco, Inc. for the rehab of Pump Stations 3101, 4001, and 4002 in the amount of \$1,755,317.

Recommended Motion

"I move that the Facilities Committee recommend the full Commission award a contract to Popco, Inc. for the rehab of Pump Stations 3101, 4001, and 4002 in the amount of \$1,755,317."

Enclosure

Bid Tab

POPCO, INC.

PHONE: 229-436-1411

FAX: 229-883-0382

AUGUST 11, 2023

BRUNSWICK JOINT WATER AND SEWER COMMISSION
1703 GLOUCESTER STREET
BRUNSWICK, GA. 31520

ATTENTION: MR. TODD KLINE, DIRECTOR OF ENGINEERING

RE: IFB NO. 23-013 REBID
PS 3101, PS 4001 & PS 4002

DEAR MR. KLINE:

POPCO, INC. HAS REVIEWED THE ABOVE REFERENCED PROJECT AS PER OUR PHONE CONVERSATION FOR THE JOINT WATER AND SEWER TO PROVIDE THE BY-PASS SYSTEM FOR THE PUMP STATIONS DURING CONSTRUCTION AND REVIEWED THE MOBILIZATION.

THE MOBILIZATION COST HAS BEEN REVIEWED AND **NO** DEDUCTS CAN BE ALLOWED DUE TO THE SPECIFICATIONS ONLY ALLOWING 5% TOTAL WHICH IS NOT ENOUGH TO COVER THE MOBILIZATION, BONDS AND INSURANCE AS STATED, THEREFORE SPREADING THE ADDITIONAL THROUGH ALL THE BID ITEMS.

AS FOR THE BY-PASS SYSTEM, POPCO, INC. HAS REVIEWED THIS COST AND CAN PROVIDE A TOTAL DEDUCT OF **\$579,143.00** IF THE OWNER SHOULD ELECT TO PROVIDE AND MAINTAIN THE BY-PASS SYSTEM FOR ALL LOCATIONS.

SINCERELY,

JEFF LEWIS

JEFF LEWIS
POPCO, INC.
PROJECT#PC23-076

DATE SUBMITTED:

August 8, 2023

PROJECT NAME:

CONSTRUCTION SERVICES FOR PUMP
STATIONS 3101, 4001 AND 4002
REHABILITATION PROJECT

Glynn County Georgia

SUBMITTED TO:

Brunswick-Glynn County Joint Water and
Sewer Commission
1703 Gloucester Street
Brunswick, Georgia 31520

SUBMITTED BY:

Company Name:

Popco, Inc

Address:

P O Box 526

Sylvester GA 31791

Georgia Utility Contractor's License No.

UC301473

Acknowledge Receipt of Addenda Numbers

1 (7/13/23)

Please **CIRCLE** which pumpstations a bid form
is being submitted for:

PS3101

PS4001

PS4002

The undersigned as BIDDER hereby declares that the only person or persons interested in the BID as principal or Principals is or are named herein and that no other person than herein mentioned has any interest in the BID or in the Contract to be entered into; that this BID is made without connection with any other person or parties making a BID, and that it is in all respects fair and in good faith without collusion or fraud.

The BIDDER declares that he has examined the site of the work and informed himself fully in regard to all conditions pertaining to the place where the work is to be done; that he has examined the plans and specifications for the work and the documents relative thereto; and has read all General and Special Conditions furnished prior to the opening of bids; that he has satisfied himself relative to the work to be performed.

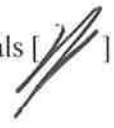
The BIDDER proposes and agrees, if the BID is accepted, to contract with the Brunswick – Glynn County Joint Water and Sewer Commission to furnish all necessary materials, equipment, machinery, tools, apparatus, means of transportation and labor to complete the work in full and complete accordance with the shown, noted, described and reasonably intended requirements of the plans, specifications and contract documents to the full and entire satisfaction of the Brunswick – Glynn County Joint Water and Sewer Commission with a definite understanding that no money will be allowed for extra work except as set forth in the attached General Conditions and contract documents for the prices set forth below.

BID FORM IFB NO. 23-013**AUGUST 2023**

Pump Station 3101 293 South Port Parkway Brunswick, GA 31523					
Item	Description	QTY	Unit	Unit Price	Total
1	Mobilization, Demobilization, Insurance, & Bonds	1	LS	24,000	24,000.00
2	Demolition	1	LS	35,000	35,000.00
3	Temporary Bypass Pumping	1	LS	88,000	88,000.00
4	Electrical	1	LS	233,986	233,986.00
5	Instrumentation/SCADA	1	LS	78,000	78,000.00
6	Architectural and Structural Improvements	1	LS	9,000	9,000.00
7	Erosion Control	1	LS	6,000	6,000.00
BASE BID PS3101 ONLY TOTAL					473,986.00
A.1	Bid Alternate - Canopy and Foundation Structure	1	LS	38,000	38,000.00
TOTAL					511,986.00

Total Base Bid for PS3101


in Words: four hundred seventy-three thousand nine hundred
eighty-six dollars + 00/100

Bidder Initials []

Pump Station 4001 301 3rd Avenue Brunswick, GA 31520					
Item	Description	QTY	Unit	Unit Price	Total
1	Mobilization, Demobilization, Insurance, & Bonds	1	LS	25,000	25,000.00
2	Demolition	1	LS	35,000	35,000.00
3	Temporary Bypass Pumping	1	LS	98,000	98,000.00
4	Electrical	1	LS	236,131	236,131.00
5	Instrumentation/SCADA	1	LS	78,000	78,000.00
6	Architectural and Structural Improvements	1	LS	9,000	9,000.00
7	Erosion Control	1	LS	6,000	6,000.00
BASE BID PS4001 ONLY TOTAL					487,131.00
A.1	Bid Alternate - Canopy and Foundation Structure	1	LS	38,000	38,000.00
TOTAL					525,131.00

Total Base Bid for PS4001

in Words: five hundred twenty-five thousand one hundred thirty-one dollars & 10/100

Bidder Initials []

Pump Station 4002 1309 Reynolds Street Brunswick, GA 31520					
Item	Description	QTY	Unit	Unit Price	Total
1	Mobilization, Demobilization, Insurance, & Bonds	1	LS	69,000	69,000.00
2	Demolition	1	LS	188,000	188,000.00
3	Temporary Bypass Pumping	1	LS	393,143	393,143.00
4	Electrical	1	LS	298,000	298,000.00
5	Instrumentation/SCADA	1	LS	168,200	168,200.00
6	Infill Wall Openings	1	LS	85,000	85,000.00
7	Electrical Control Room	1	LS	215,000	215,000.00
8	Door Replacement	1	LS	17,000	17,000.00
BASE BID PS4002 ONLY TOTAL					1,373,343.00
A.1	Bid Alternate – Cleaning and Painting	1	LS	95,000	95,000.00
TOTAL					1,468,343.00

Total Base Bid for PS4002

in Words:

one million three hundred seventy-three thousand
three hundred - three 10/100 + 10/100

Bidder Initials []



Brunswick-Glynn County

Joint Water and Sewer Commission

Memorandum

To: Facilities Committee
From: Andrew Burroughs, Executive Director
Date: Wednesday, August 16, 2023
Re: Contract Award - North Mainland Water Loops

Background

The JWSC issued Invitation To Bid No. 23-011 Construction Services for N. Mainland Water Loops on Thursday, June 1, 2023. The proposed construction consists of watermain interconnection which are located at separate areas within the JWSC service area. The proposed construction consists of the following:

- 12" diameter PVC (DR18) watermain installed along Hautala Drive with connection points at Cate Road and Old Jesup Road, including fire hydrants, services and all necessary appurtenances.
- 12" diameter PVC (DR18) watermain constructed along Bailey Road with connection points at Perry Lane Road and Old Jesup Road, including fire hydrants, services and all necessary appurtenances.
- 12" diameter PVC (DR18) watermain installed along Old Jesup Road with connection points near Lillie Way and Tractor Supply Company's entrance along Old Jesup Road, including fire hydrants, services and all necessary appurtenances.
- 16" (OD) diameter HDPE (DR11) watermain installed under two water courses along Old Jesup Road. This watermain is to be installed via horizontal directional drilling at these two locations.
- 10" (OD) diameter HDPE (DR11) watermain constructed along Perry Lane Road with connection points near Millennium Boulevard and Venture Drive. This water main is to be installed via horizontal directional drilling under Golden Isles Parkway.

A mandatory pre-bid teleconference was held on Thursday, June 29, 2023, with (5) construction firms in attendance. Two (2) bids were submitted to JWSC on Tuesday, August 8, 2023, from the following firms:

Bidder	Bid Amount
Vallencourt Construction	\$2,996,458.60
TB Landmark Construction, Inc.	\$3,110,253.00

Staff Report

Funding for this project will come from the R& R funds. With a budgeted amount of \$1,250,000.00 and an engineer's cost estimate of \$ 2,218,255.00, the bid price of \$2,996,458.60 submitted by Vallencourt Construction exceeds both of these by a substantial amount. Bid analysis determines the low bid amount is within 5% of the second bidder, T.B. Landmark Construction, Inc., and the Engineer of Record, 4 Waters Engineering have provided the attached Letter of Recommendation for your review.

Recommended Action

Staff recommends JWSC accept the low bid from Vallencourt Construction for the project.

Recommended Motion

“I move that the Facilities Committee recommend the full Commission accept the bid for the IFB 23-011 Construction Services for N. Mainland Water Loops, in the amount of \$2,996,458.60 and award a contract to Vallencourt Construction.”

Enclosure:

Bid Tab

Four Waters Engineering EOR Letter of Recommendation dated 11AUG2023

North Mainland Water Loops Project

Bid Schedule

TB Landmark Construction, Inc.

Vallencourt Construction

Item	Description	Unit	Quantity	Unit Price	Item Price	Unit Price	Item Price
1	Mobilization and Demobilization	LS	1	\$143,870.00	\$143,870.00	\$335,700.00	\$335,700.00
2	Maintenance of Traffic (Traffic and Pedestrian Control)	LS	1	\$88,000.00	\$88,000.00	\$193,300.00	\$193,300.00
3	Erosion, Sedimentation and Pollution Control	LS	1	\$68,500.00	\$68,500.00	\$61,250.00	\$61,250.00
4	Tree Trimming Operations	LS	1	\$40,000.00	\$40,000.00	\$73,350.00	\$73,350.00
5	Dewatering Operations	LS	1	\$95,000.00	\$95,000.00	\$53,430.00	\$53,430.00
6	6-inch PVC (DR18) Watermain by Open Cut, with Select Backfill	LF	13	\$500.00	\$6,500.00	\$133.50	\$1,735.50
7	6-inch PVC (DR18) Watermain by Open Cut, with Unshrinkable Flowable Fill Backfill	LF	23	\$550.00	\$12,650.00	\$260.00	\$5,980.00
8	8-inch PVC (DR18) Watermain by Open Cut, with Select Backfill	LF	18	\$500.00	\$9,000.00	\$324.50	\$5,841.00
9	12-inch PVC (DR18) Watermain by Open Cut, with Select Backfill	LF	2691	\$176.00	\$473,616.00	\$116.50	\$313,501.50
10	12-inch PVC (DR18) Watermain by Open Cut, with Structural Backfill	LF	1518	\$250.00	\$379,500.00	\$199.50	\$302,841.00
11	12-inch PVC (DR18) Watermain by Open Cut, with Unshrinkable Flowable Fill Backfill	LF	288	\$402.00	\$115,776.00	\$215.50	\$62,064.00
12	10-Inch (OD) HDPE (DR11) Watermain by Horizontal Directional Drilling, including End Treatment	LF	455	\$152.00	\$69,160.00	\$171.00	\$77,805.00
13	16-Inch (OD) HDPE (DR11) Watermain by Horizontal Directional Drilling, including End Treatment	LF	569	\$202.00	\$114,938.00	\$342.50	\$194,882.50
14	24-Inch (OD) HDPE (DR11) Watermain by Horizontal Directional Drilling, including End Treatment	LF	455	\$357.00	\$162,435.00	\$466.00	\$212,030.00
15	Short Length 1-inch Single Water Service, via Open Cut (complete, Std Dtl 2-16)	ea.	18	\$2,000.00	\$36,000.00	\$1,534.00	\$27,612.00
16	Long Length 1-inch Single Water Service, via Trenchless (complete, Std Dtl 2-16)	ea.	27	\$2,500.00	\$67,500.00	\$3,873.00	\$104,571.00
17	12" DI MJt 11.25° Bend (Std Dtl 2-4, 2-7)	ea.	9	\$2,000.00	\$18,000.00	\$1,218.00	\$10,962.00
18	12" DI MJt 22.5° Bend (Std Dtl 2-4, 2-7)	ea.	2	\$2,000.00	\$4,000.00	\$1,242.00	\$2,484.00
19	12" DI MJt 45° Bend (Std Dtl 2-4, 2-7)	ea.	27	\$2,000.00	\$54,000.00	\$1,870.00	\$50,490.00
20	12" DI MJt 90° Bend (Std Dtl 2-4, 2-7)	ea.	2	\$2,000.00	\$4,000.00	\$2,531.00	\$5,062.00
21	PVC to HDPE Transition Coupling (MJ Adapter 12-inch X 16-inch and DI MJ Reducer)	ea.	4	\$4,500.00	\$18,000.00	\$4,952.00	\$19,808.00
22	PVC to HDPE Transition Coupling (MJ Adapter 8-inch X 10-inch and DI MJ Reducer)	ea.	2	\$4,000.00	\$8,000.00	\$2,009.00	\$4,018.00
23	6" x 6" DI MJt Tee (Std Dtl 2-3)	ea.	1	\$2,000.00	\$2,000.00	\$780.00	\$780.00
24	6"x12" DI MJt Tee (Std Dtl 2-3)	ea.	13	\$2,500.00	\$32,500.00	\$1,552.00	\$20,176.00
25	12"x12" DI MJt Tee (Std Dtl 2-3)	ea.	2	\$2,520.00	\$5,040.00	\$2,173.00	\$4,346.00
26	8"x12" DI MJt Reducer (Std Dtl 2-5)	ea.	1	\$2,510.00	\$2,510.00	\$1,565.00	\$1,565.00
27	12"x16" DI MJt Reducer (Std Dtl 2-5)	ea.	1	\$2,850.00	\$2,850.00	\$2,621.00	\$2,621.00

North Mainland Water Loops Project

Bid Schedule

TB Landmark Construction, Inc.

Vallencourt Construction

Item	Description	Unit	Quantity	Unit Price	Item Price	Unit Price	Item Price
28	Short Length Fire Hydrant Assembly with Granular Backfill (complete, Std Dtl 2-14)	ea.	10	\$10,500.00	\$105,000.00	\$7,090.00	\$70,900.00
29	Long Length Fire Hydrant Assembly with Unshrinkable Flowable Fill Backfill (complete, Std Dtl 2-14)	ea.	3	\$12,000.00	\$36,000.00	\$13,360.00	\$40,080.00
30	Above Grade 2" Flushing Assembly (complete, Sht D-4)	ea.	1	\$5,500.00	\$5,500.00	\$2,899.00	\$2,899.00
31	6" MJt Gate Valve with Box and Cover (complete, Std Dtl 2-13)	ea.	1	\$3,500.00	\$3,500.00	\$2,888.00	\$2,888.00
32	8" MJt Gate Valve with Box and Cover (complete, Std Dtl 2-13)	ea.	2	\$4,000.00	\$8,000.00	\$4,577.00	\$9,154.00
33	12" MJt Gate Valve with Box and Cover (complete, Std Dtl 2-13)	ea.	10	\$5,500.00	\$55,000.00	\$9,547.00	\$95,470.00
34	Tie-In to 12-Inch Existing Watermain at intersection of Cate Road and Hautala Drive	LS	1	\$12,000.00	\$12,000.00	\$10,180.00	\$10,180.00
35	Tie-In to 16-Inch Existing Watermain at intersection of Hautala Drive and Old Jesup Road via Tapping Sleeve and Valve (Std Dtl 2-15)	LS	1	\$21,000.00	\$21,000.00	\$24,880.00	\$24,880.00
36	Tie-In to 8-Inch Existing Watermain at "Tractor Supply" (5940 New Jesup Highway) Access Drive	LS	1	\$12,500.00	\$12,500.00	\$8,596.00	\$8,596.00
37	Tie-In to 16-Inch Existing Watermain at intersection of Lillie Way and Old Jesup Road	LS	1	\$14,500.00	\$14,500.00	\$4,630.00	\$4,630.00
38	Tie-In to 12-Inch Existing Watermain at intersection of Perry Lane Road and Bailey Road via Tapping Sleeve and Valve (Std Dtl 2-15)	LS	1	\$20,000.00	\$20,000.00	\$23,350.00	\$23,350.00
39	Tie-In to 8-Inch Existing Watermain at intersection of Golden Isles Parkway and Millennium Boulevard	LS	1	\$12,500.00	\$12,500.00	\$11,470.00	\$11,470.00
40	Tie-In to 8-Inch Existing Watermain at intersection of Perry Lane Road and Venture Drive	LS	1	\$12,500.00	\$12,500.00	\$11,470.00	\$11,470.00
41	2" Waterline Disconnection and Reconnect into new Watermain System	ea.	1	\$6,500.00	\$6,500.00	\$4,231.00	\$4,231.00
42	1" Temporary Sample Tap Assembly	ea.	6	\$2,000.00	\$12,000.00	\$3,816.00	\$22,896.00
43	Remove and Replace Gravel Driveways (restoration)	SY	67	\$50.00	\$3,350.00	\$109.50	\$7,336.50
44	Remove and Replace Asphalt Driveways (restoration)	SY	68	\$300.00	\$20,400.00	\$163.50	\$11,118.00
45	Remove and Replace Concrete Driveways (restoration)	SY	70	\$95.00	\$6,650.00	\$179.00	\$12,530.00
46	Remove and Resurface 2" of Asphalt on Municipal Roadway (restoration)	SY	5862	\$58.00	\$339,996.00	\$34.30	\$201,066.60
47	Remove and Replace Curb and Gutter (restoration)	LF	20	\$100.00	\$2,000.00	\$142.00	\$2,840.00
48	Existing Poles (Utility, Streetlight, Traffic Signal, Pylon Signs, etc.) to be Supported, Protected and Preserved during Watermain Installation	LS	1	\$8,000.00	\$8,000.00	\$4,108.00	\$4,108.00
49	Existing Utility Equipment (Switchgear, Transformers, Boxes, Pads, etc.) to be Protected and Preserved during Watermain Installation	LS	1	\$10,000.00	\$10,000.00	\$1,370.00	\$1,370.00
50	Existing Sign (traffic, business, personal, etc.) to be Protected and Preserved during Watermain Installation	LS	1	\$10,000.00	\$10,000.00	\$867.50	\$867.50

North Mainland Water Loops Project

Bid Schedule

TB Landmark Construction, Inc.

Vallencourt Construction

Item	Description	Unit	Quantity	Unit Price	Item Price	Unit Price	Item Price
51	Existing Sign (traffic, business, personal, etc.) to be Temporarily Relocated and Reinstalled upon Completion of Watermain Installation (restoration)	LS	1	\$10,000.00	\$10,000.00	\$1,735.00	\$1,735.00
52	Existing Mailboxes to be Temporarily Relocated and Reinstalled upon Completion of Watermain Installation (restoration)	LS	1	\$8,000.00	\$8,000.00	\$867.50	\$867.50
53	Existing 18-inch CMP Storm Pipe Replacement upon Completion of Watermain Installation (restoration)	LF	30	\$408.00	\$12,240.00	\$280.00	\$8,400.00
54	Regrading and Restoration of Drainage Swales of Ditches affected by Watermain Installation	LS	1	\$38,450.00	\$38,450.00	\$28,220.00	\$28,220.00
55	Loaming, Seeding and Mulching (restoration)	SY	3160	\$5.00	\$15,800.00	\$3.15	\$9,954.00
56	Disposal and Replacement (with A-3 Sand) of Unsuitable Soils	CY	222	\$65.00	\$14,430.00	\$160.00	\$35,520.00
57	Cash Allowance	ea.	5000	\$1.00	\$5,000.00	\$1.00	\$5,000.00
58	Permanent Sampling Point	ea.	4	\$3,000.00	\$12,000.00	\$5,864.00	\$23,456.00
59	Remove Miscellaneous Concrete and Masonry	CY	100	\$75.00	\$7,500.00	\$63.80	\$6,380.00
60	6-inch Over Excavate Trench Bottom	LF	100	\$55.00	\$5,500.00	\$5.00	\$500.00
61	Excavation around Obstruction	CY	100	\$60.00	\$6,000.00	\$100.50	\$10,050.00
62	Extra Hand Excavation	CY	100	\$80.00	\$8,000.00	\$150.50	\$15,050.00
63	Extra Machine Excavation	CY	100	\$65.00	\$6,500.00	\$92.40	\$9,240.00
64	Extra Placement of Backfill Material	CY	100	\$85.00	\$8,500.00	\$64.30	\$6,430.00
65	Extra Placement of Granular Fill	CY	100	\$200.00	\$20,000.00	\$197.00	\$19,700.00
66	Extra Placement of Cement Stabilized Sand	CY	100	\$285.00	\$28,500.00	\$148.00	\$14,800.00
67	Extra Ductile Iron Compact Fitting in Place	TON	1	\$37,092.00	\$37,092.00	\$12,770.00	\$12,770.00
68	Extra Class "A" Concrete with or without Forms	CY	100	\$265.00	\$26,500.00	\$208.50	\$20,850.00
69	Removal and Replacement of Soil, Erosion, Sediment Control, and Pollution Control in case of a Named Severe Weather Event	LF	5000	\$14.00	\$70,000.00	\$7.00	\$35,000.00
Total Base Bid				\$3,110,253.00		\$2,996,458.60	



August 11, 2023

Mr. Andrew Burroughs, PE
Executive Director
Brunswick-Glynn JWSC
1703 Gloucester Street
Brunswick, GA 31520
ABurroughs@bgjwsc.org

RE: ITM No. 23-011
North Mainland Water Loops Project
Engineer's Recommendation and Certified Bid Tabulation

Dear Mr. Burroughs:

On August 8, 2023, the Brunswick-Glynn Joint Water and Sewer Commission (JWSC) received two (2) responsive bids for the reference project. As the engineer of record for the project, Four Waters Engineering, Inc. (4Waters) has reviewed the bids and prepared a Certified Bid Tabulation which is attached. In review of both contractors' bids, there are no mathematical errors in either one.

Based on 4Waters' review of the bids, Vallencourt Construction is the lowest responsible bidder. Their provided references were contacted to verify their performance on past projects. These references did not respond to these requests. Although 4Waters have not undertaken a project with Vallencourt Construction, within the Jacksonville area, they generally have a good reputation. This reputation is based on third party impressions and has not been verified by 4 Waters. At this time, 4Waters recommends that the Brunswick-Glynn JWSC award the contract to Vallencourt Construction in the total amount of **\$2,996,458.60**.

A summary comparison of the bids received for the base bid is attached to the letter.

The following Base Bid is recommended for award:

- Base Bid - North Mainland Water Loops Project (Items 1-69):	<u>\$2,996,458.60</u>
Total Recommended Award:	\$2,996,458.60

Sincerely,
Four Waters Engineering, Inc.

Dwaine R. Falls
Principal Engineer



Brunswick-Glynn

Joint Water and Sewer Commission

Memorandum

To: Facilities Committee
From: Todd Kline, P.E., Director of Engineering
Date: Wednesday, August 16, 2023
Re: Easement Dedication: 113 Circle Drive, St. Simons Island

Background

The Brunswick-Glynn Joint Water & Sewer Commission (JWSC) Standards for Water & Sewer Design and Development Procedures support the acceptance of privately constructed water and wastewater systems as public infrastructure, when specified conditions are met.

Staff Report

As a result of a request by the applicant to the Glynn County Board of Commissioners for right-of-way abandonment of the alley way adjacent to their property, the Watson Family Revocable Trust has submitted legal documentation to convey an easement for access, maintenance, and repair of an 8-inch sanitary sewer gravity main located within this property. The infrastructure is understood to have complied with applicable standards at the time of construction. JWSC inspection records indicate the infrastructure was constructed to JWSC Standards, is functioning and is in acceptable condition.

Additionally, all right-of-way abandonments are at the discretion of the Glynn County Board of Commissioners. Prior to this request, the Glynn County Commission at its' regular meeting on Thursday, August 3, 2023, approved a request to abandon a portion of a dedication public right-of-way behind 113 Circle Drive.

Recommended Action

All requirements of the JWSC Standards for Water & Sewer Design and Construction and Development Procedures have been met, and all related documents submitted. Staff recommends acceptance and approval of this easement dedication.

Recommended Motion

"I move that the Facilities Committee recommend the full Commission approve and accept the 113 Circle Drive Easement dedication."

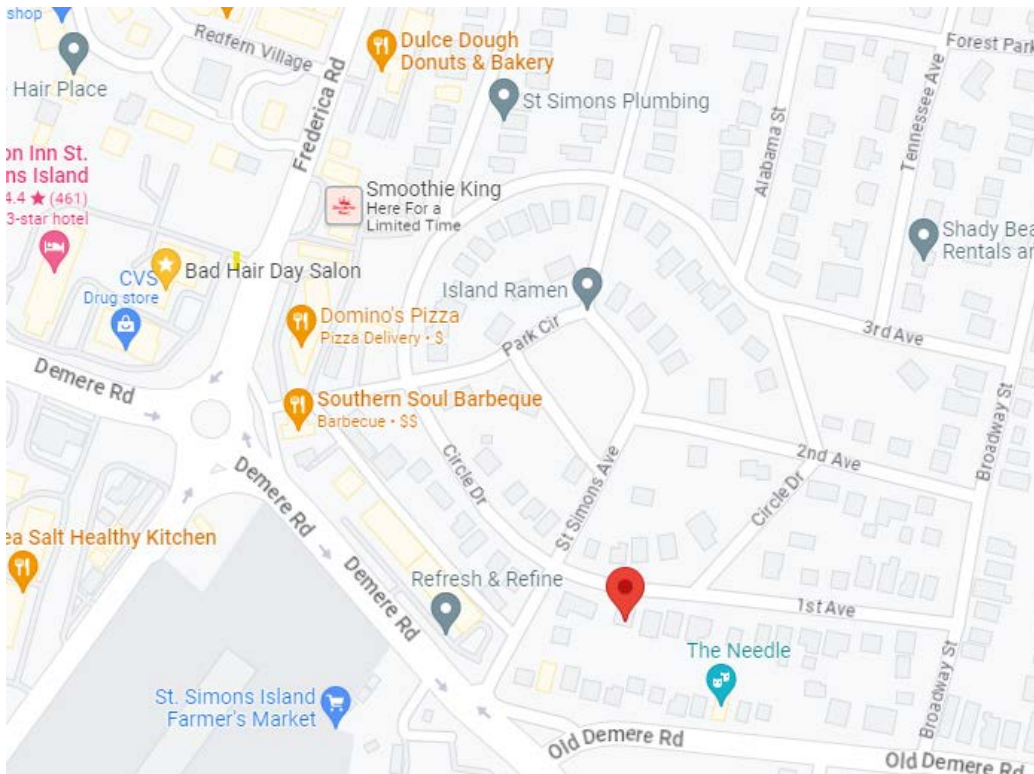
Enclosures

113 Circle Drive Easement Conveyance Document w/ Exhibits

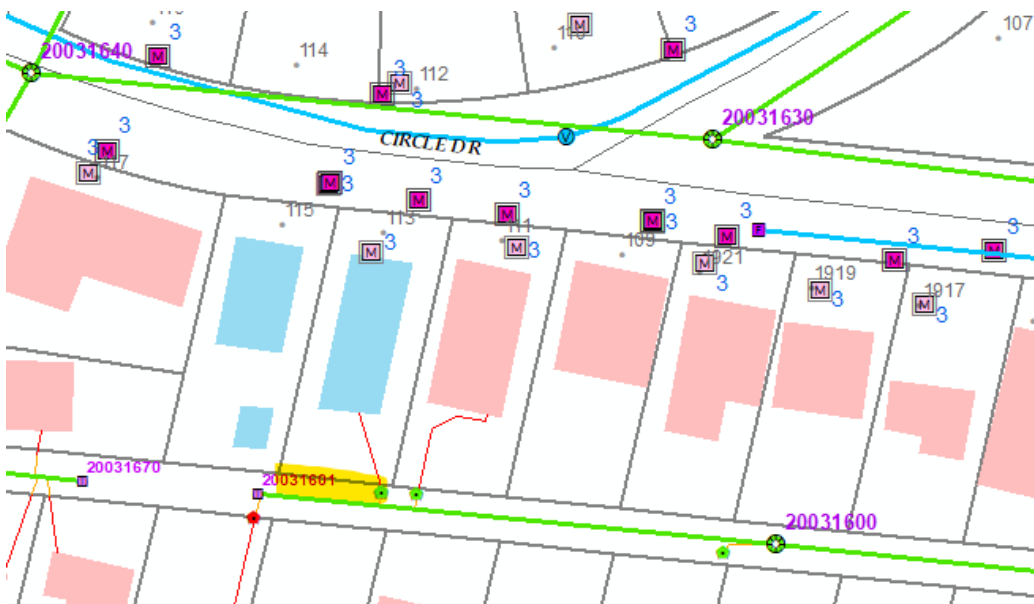
113 CIRCLE DRIVE - EASEMENT

Owner of Record	Brian C. Watson and Lisa S. Watson as Co-Trustees of the Watson Family Revocable Trust
Legal Documents under Consideration	Easement w/ Legal Description
Supporting Documents	Survey Exhibit from Abandonment (AB 5419) Application

Location Map – 113 Circle Drive, St. Simons Island



GIS Map – To be Updated following Acceptance of Dedication. Note: The approved Abandonment by Glynn County is half of the alley on the applicant's side as highlighted



(Above the Line Reserved for Clerk Recording Data)

Return to:
Brunswick-Glynn County Joint
Water and Sewer Commission
Attn: Andrew Burroughs, Exec. Dir.
1703 Gloucester Street Brunswick,
GA 31520

**STATE OF GEORGIA
COUNTY OF GLYNN**

WATER AND SEWER UTILITIES EASEMENT

THIS WATER AND SEWER UTILITIES EASEMENT grant and dedication, made and entered into this day of , 20 , by and between Brian C. Watson and Lisa S. Watson, as Co-Trustees of the Watson Family Revocable Trust, (hereinafter referred to as the "Grantor") and the **BRUNSWICK-GLYNN COUNTY JOINT WATER AND SEWER COMMISSION**, a body corporate and politic and a public corporation, established by a Local Act of the General Assembly of the State of Georgia, acting by and through its Commissioners (hereinafter referred to as the "Grantee").

WITNESSETH:

For and in consideration of the premises, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Grantor does hereby grant and convey unto said Grantee, its successors and assigns, a perpetual easement and right to

construct, reconstruct, install, locate, relocate, maintain, repair, replace and use water lines, sanitary sewer lines, valves, manholes, such other lines Grantee deems necessary for water and sewer service, and related equipment and facilities over, across and through a portion of the Grantor's Property (the "Easement Area"), described as follows:

SEE EXHIBIT "A" ATTACHED HERETO AND INCORPORATED HEREIN BY REFERENCE.

1. Grant of Easement for Utilities:

a. Grantor hereby transfers and conveys an easement in and to all property described in Exhibit "A" for the location, maintenance, and repair of water lines, sanitary sewer lines, valves, manholes, access roads, ditch or creek crossings and related equipment and facilities (hereinafter referred to as "Water and Sewer Utilities") in the Easement Area.

b. The grant of this easement includes the right at all times for representatives of Grantee to enter upon said Easement Area for purposes described herein, including the right to cut away and keep clear of Water and Sewer Utilities any and all vegetation that might, in the opinion of the Grantee, endanger or injure the Water and Sewer Utilities or their appurtenances, or interfere with their proper operation or maintenance; the right of ingress to and egress from the Easement Area across the land referred to herein for the purpose of exercising the rights herein granted; provided, that failure of the Grantee to exercise any of the rights herein granted shall not be construed as a waiver or abandonment of the right hereafter at any time and from time to time to exercise any or all of same. Grantee shall not be liable for, or bound by, any statement, agreement or understanding not herein expressed.

c. Grantor warrants that no building, shed, mobile home, fence, swimming pool or other such structures, or any crops, trees or large shrubs shall be erected or planted over the Water and Sewer Utilities nor within the boundary of the Easement Area as stated

herein; that no other utility shall be permitted within the Easement Area that interferes with the operation and maintenance of the Water and Sewer Utilities; that no fill material or paving shall be placed within the Easement Area unless permitted in writing by the Grantee; and, that any structure/fill material placed upon, or vegetation planted within the Easement Area in contradiction herein shall be removed at the property owner's expense.

d. In the event a building or other structure should be erected within the Easement Area, no claim for damages shall be made by Grantor, its heirs or assigns, on account of any damage that might occur to such structure, building or contents thereof due to the operation or maintenance of said Water and Sewer Utilities or their appurtenances, or any accident or mishap that might occur therein or thereto.

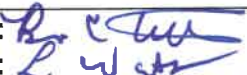

2. Maintenance: Except as hereinafter provided, that in the event excavation, construction, reconstruction, installation, location, relocation, maintenance, repair or replacement are necessary to the Water and Sewer Utilities, or equipment and facilities, as described above, the Grantee shall, at its expense, perform such work. Provided, however, the Grantee shall not be responsible for full restoration of the Easement Area to match the original condition.

3. Limitation of Easement Rights: The Grantor does not convey any land, but merely grants the rights, privileges and easement herein above set out.

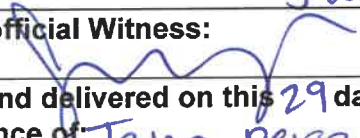

4. Encumbrances: Grantor herein by these presents warrants there are no liens, mortgages, or other encumbrances to a clear title to the Easement Area, except as follows: which is recorded in the office of the Superior Court real property records of Glynn County in Book at Page and that Grantor is legally qualified and entitled to grant the easement herein with respect to the lands described.

TO HAVE AND TO HOLD the above described water and sewer easement rights in and to the said Easement Area to the Grantee, so that neither the Grantor nor any person or persons claiming under it shall at any time, by an means or ways, dispute the perpetual easement right of the Grantee to the use of said easement.

IN WITNESS WHEREOF, the said Grantor has set their hand and affixed their seal of the undersigned and delivered these presents on this the day and year first above written.

Printed Name of Grantor: (1) Brian C. Watson and (2) Lisa S. Watson	
Titles of Grantors:	
Signature 1 of Grantor: 	Date Signed(1): 6-29-23
Signature 2 of Grantor: 	Date Signed(2): 6-29-23

STAMP CORPORATE SEAL (if Grantor is an LLC or INC)

Printed Name of Unofficial Witness: Jana Perry
Signature of Unofficial Witness: 
Signed, sealed and delivered on this 29 day of June , 20 23 and in the presence of: Jana Perry
Signature of Notary Public: 
My Commission Expires: 12/06/2026

STAMP NOTARY SEAL



ACCEPTED THIS _____ DAY
OF _____, 20____.

**BRUNSWICK-GLYNN COUNTY JOINT
WATER AND SEWER COMMISSION**

By:

Name:

Chairman

Attest to:

Name:

Commission Clerk

EXHIBIT A

All that tract or parcel of land, lying and being in the 25th G.M.D., St. Simons Island, Glynn County, Georgia, containing 530 square feet, further described as follows:

Begin at a 1/2" capped iron rebar found at the southwest corner of Lot 23, Block C, St. Simons Heights Subdivision (which is also the southeast corner of Lot 22, Block C, St. Simons Heights Subdivision), with said capped iron rebar found being the POINT OF BEGINNING of the herein described easement, run thence along the southern boundary line of said Lot 23, South 81 degrees 02 minutes 04 seconds East 49.91 feet to a 1/2" iron rebar found; run thence into an abandoned alley South 16 degrees 14 minutes 52 seconds West 10.78 feet to a 1/2" capped iron rebar set; run thence North 80 degrees 51 minutes 16 seconds West 49.95 feet to a 1/2" capped iron rebar set; run thence North 16 degrees 34 minutes 52 seconds East 10.63 feet to the Point of Beginning.

Said description according to plat of survey prepared for Brian C. Watson and Lisa S. Watson entitled, "Alley Abandonment Survey of a Portion of a 20' Alley Adjacent to Lot 23, Block C, St. Simons Heights Subdivision," by Shupe Surveying Company, P.C., certified by Gary N. Nevil, Georgia Registered Land Surveyor No. 2401, drawn February 21, 2023, and attached hereto as Exhibit B and made a part hereof by this specific reference thereto.

© 2000 Blackwell Science Ltd *Journal of Internal Medicine* 247: 395–402

ST. SIMONS AVENUE (50' PUBLIC R/W)

CIRCLE DRIVE (50' PUBLIC R/W)

(SEE NOTE 1)

VICINITY MAP (NOT TO SCALE)

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SURVEYORS RECORDING CERTIFICATION

[illegible]

CARTER R. NEVILL, CA #15724

ALLEY ABANDONMENT SURVEY OF

ALLEY ADJACENT TO
LOT 23, BLOCK C
ST. SIMONS HEIGHTS

25TH G.M.D.,
ST. SIMONS ISLAND,
GLYNN COUNTY, GEORGIA



SHUPP SURVEYING COMPANY, P.C.
3837 DARTON HIGHWAY

CERTIFICATE OF AUTHORIZATION: LPTI

SCALE 1" = 10' DRAINING DATE 02/21/2005
FILE 18168 DRAIN BY AJS
DRAWING 18168-ALTY-ABAND CHECKED BY AI
SHEET 1 OF 1

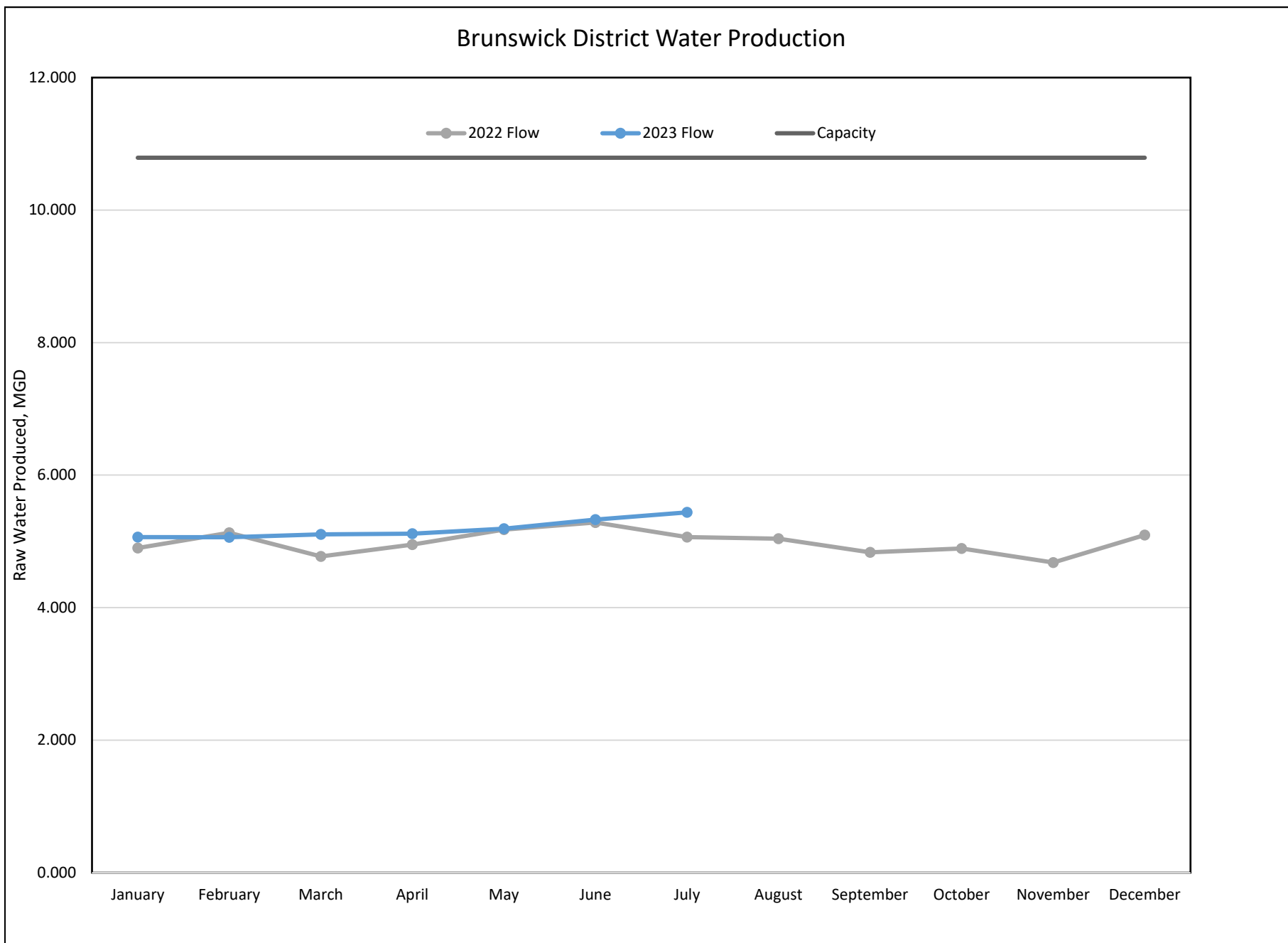
Line	Reading	Distance
1	M 1034.52" E	10.85
2	M 1014.52" E	10.70
3	M 1014.52" E	10.78
4	M 1034.52" W	10.85

- [illegible]

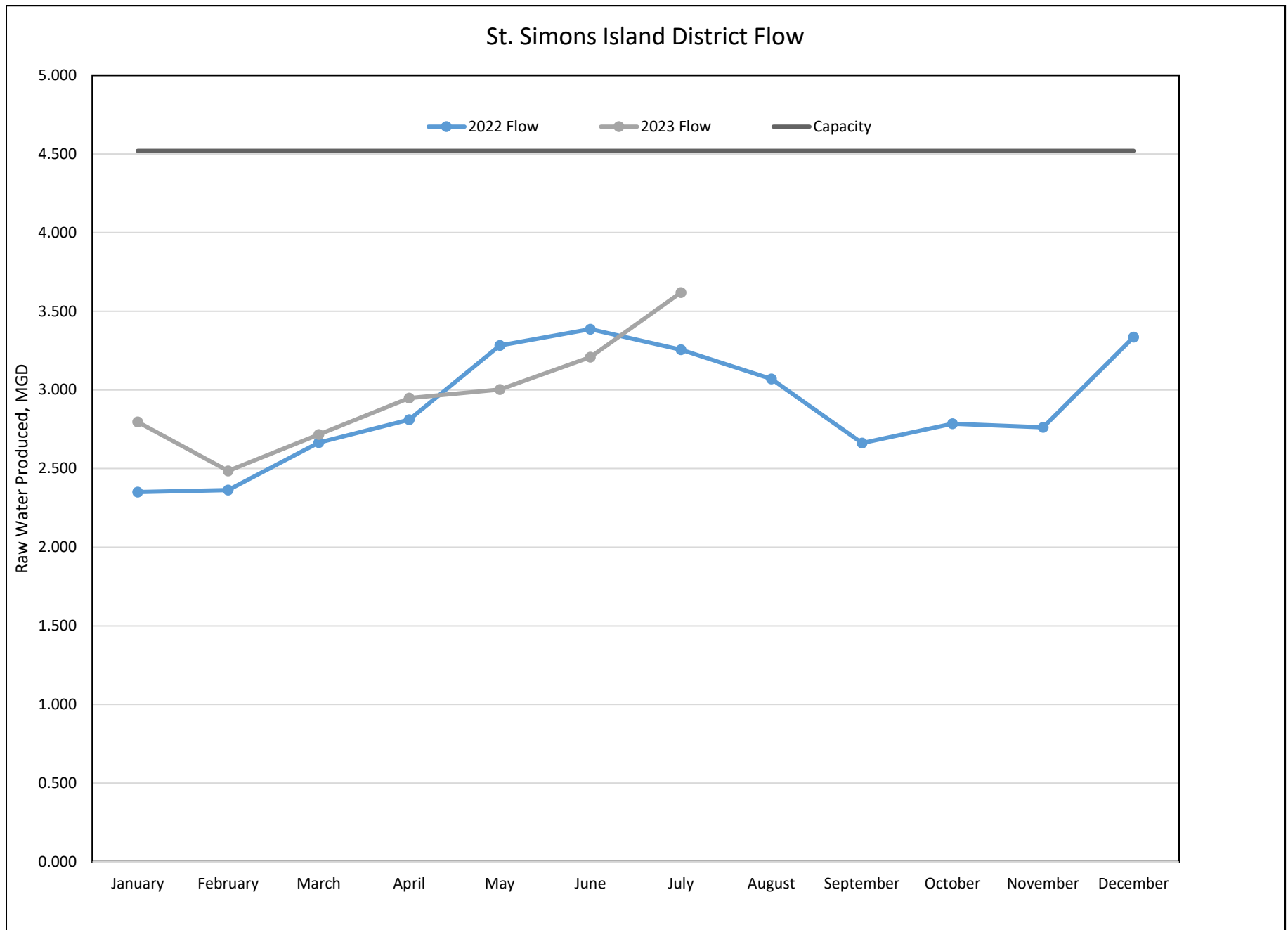
NOTES:

1. FIELD EVALUATION OF THE SHIPBOARD LIFEBOAT ON THE SHORELINE: INSPECTOR LINE OF
2. FIELD EVALUATION OF THE SHIPBOARD LIFEBOAT ON THE SHORELINE: INSPECTOR LINE OF
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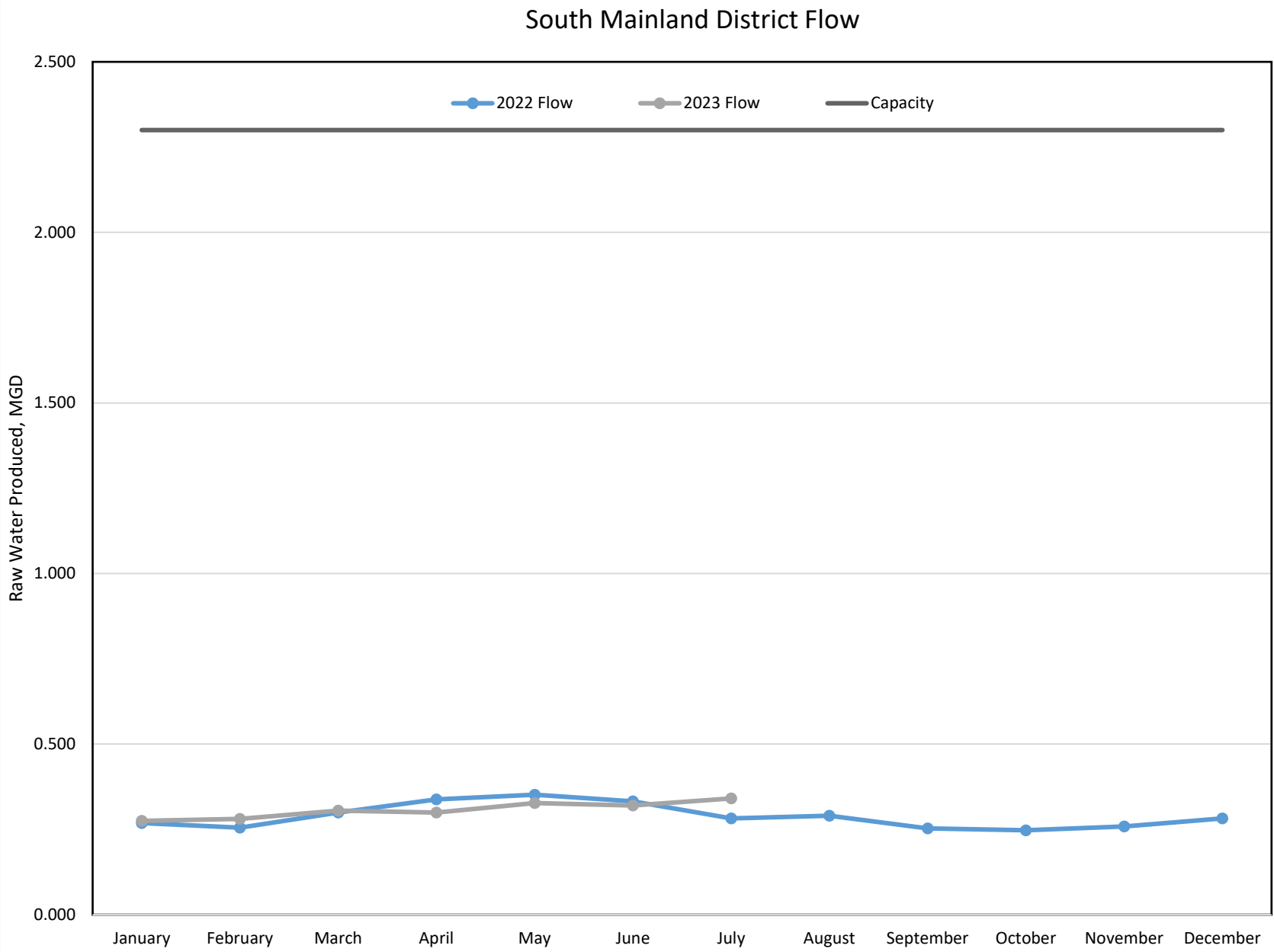
Brunswick District	TOTAL WATER PRODUCED (MG)									DAILY AVERAGE (MGD)									Total Produced	Daily Average	Taste/Odor Complaints
	Month	Howard Coffin	Goodyear Park	Brunswick Villa	FLETC	I-95	Golden Isles I	Golden Isles II	Canal	Ridgewood	Howard Coffin	Goodyear Park	Brunswick Villa	FLETC	I-95	Golden Isles I	Golden Isles II	Canal			
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	
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	1
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	2
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	3
October 2022	5.849	16.038	42.688	2.022	38.169	10.498	15.011	0.005	21.412	0.189	0.517	1.377	0.065	1.231	0.339	0.484	0.000	0.691	151.692	4.893	0
November 2022	2.721	26.755	28.652	2.735	33.414	9.290	11.301	0.000	25.557	0.091	0.892	0.955	0.091	1.114	0.310	0.377	0.000	0.852	140.425	4.681	1
December 2022	20.629	22.135	30.754	2.071	33.594	9.660	15.998	0.105	23.021	0.665	0.714	0.992	0.067	1.084	0.312	0.516	0.003	0.743	157.967	5.096	0
January 2023	11.492	25.238	39.457	0.392	29.264	12.994	18.202	0.005	19.971	0.371	0.814	1.273	0.013	0.944	0.419	0.587	0.000	0.644	157.015	5.065	1
February 2023	12.938	27.363	26.109	0.000	30.811	9.423	15.644	0.005	19.451	0.462	0.977	0.932	0.000	1.100	0.337	0.559	0.000	0.695	141.744	5.062	0
March 2023	12.617	32.261	24.216	2.216	34.170	13.158	18.025	0.005	21.602	0.407	1.041	0.781	0.071	1.102	0.424	0.581	0.000	0.697	158.270	5.105	1
April 2023	13.076	26.855	25.886	3.550	33.938	11.660	16.787	0.005	21.689	0.436	0.895	0.863	0.118	1.131	0.389	0.560	0.000	0.723	153.446	5.115	2
May 2023	21.042	25.245	20.300	4.935	35.650	13.055	18.202	0.005	22.446	0.679	0.814	0.655	0.159	1.150	0.421	0.587	0.000	0.724	160.880	5.190	3
June 2023	14.251	27.441	24.273	7.151	36.682	10.000	14.603	0.005	25.498	0.475	0.915	0.809	0.238	1.223	0.333	0.487	0.000	0.850	159.904	5.330	0
July 2023	27.680	32.154	11.173	8.910	37.902	10.596	16.385	0.005	23.760	0.893	1.037	0.360	0.287	1.223	0.342	0.529	0.000	0.766	168.565	5.438	1
August 2023																					
September 2023																					
October 2023																					
November 2023																					
December 2023																					
Average	27.680	19.102	25.620	4.309	35.554	9.949	14.896	0.011	21.510	0.746	0.632	0.844	0.142	1.171	0.327	0.491	0.000	0.708	153.641	5.059	1
Max	44.313	32.261	42.688	9.374	40.867	13.158	18.202	0.105	25.557	1.441	1.041	1.377	0.302	1.318	0.424	0.587	0.003	0.852	168.565	5.438	3
Min	2.721	0.018	11.173	0.000	29.264	5.105	9.155	0.000	13.918	0.091	0.001	0.360	0.000	0.944	0.165	0.295	0.000	0.497	140.425	4.681	0



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	Hampton South			
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	41.948	26.802	12.997	4.593	1.353	0.865	0.419	0.148	86.340	2.785	5
November 2022	41.401	27.036	12.560	1.857	1.380	0.901	0.419	0.062	82.854	2.762	0
December 2022	38.956	26.929	26.517	10.985	1.257	0.869	0.855	0.354	103.387	3.335	3
January 2023	24.972	27.550	27.259	6.915	0.806	0.889	0.879	0.223	86.696	2.797	1
February 2023	20.030	22.930	21.717	4.905	0.715	0.819	0.776	0.175	69.582	2.485	0
March 2023	34.455	20.693	22.886	6.155	1.111	0.668	0.738	0.199	84.189	2.716	2
April 2023	26.169	26.692	22.882	12.715	0.872	0.890	0.763	0.424	88.458	2.949	0
May 2023	29.422	26.096	25.571	11.978	0.949	0.842	0.825	0.386	93.067	3.002	2
June 2023	34.864	25.494	25.145	10.747	1.162	0.850	0.838	0.358	96.250	3.208	1
July 2023	37.245	44.361	30.002	0.589	1.201	1.431	0.968	0.019	112.197	3.619	0
August 2023											
September 2023											
October 2023											
November 2023											
December 2023											
Average	33.680	27.614	20.034	7.532	1.107	0.908	0.659	0.248	88.859	2.921	1
Max	43.067	44.361	30.002	12.715	1.436	1.431	0.968	0.424	112.197	3.619	5
Min	20.030	17.923	10.592	0.589	0.715	0.640	0.342	0.019	66.190	2.351	0

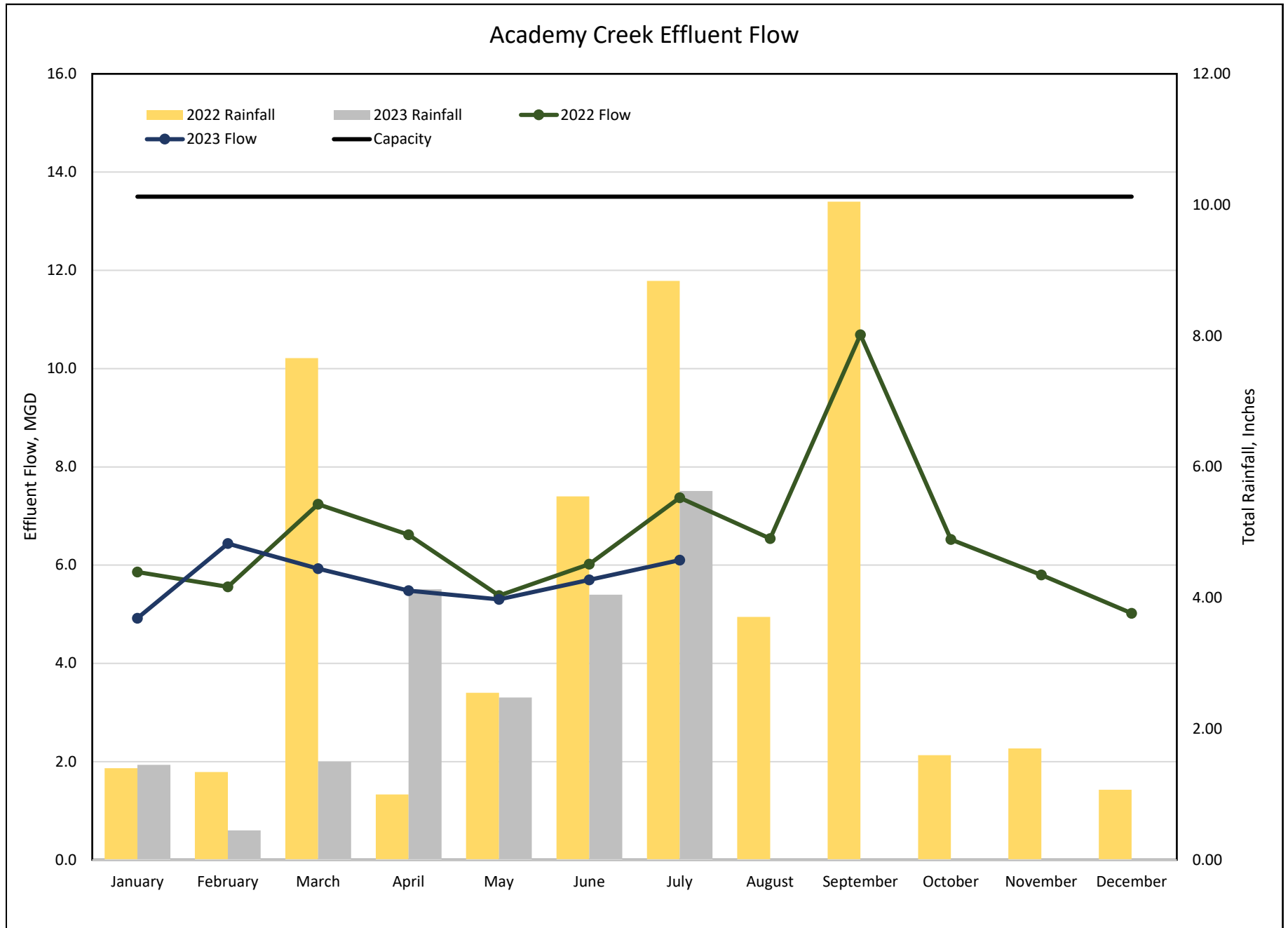


South Mainland District	TOTAL WATER PRODUCED (MG)			DAILY AVERAGE (MGD)			Total Produced	Daily Average	Taste/Odor Complaints
Month	Fancy Bluff	Exit 29	Brookman	Fancy Bluff	Exit 29	Brookman			
January 2022	2.937	0.003	5.387	0.095	0.000	0.174	8.327	0.269	
February 2022	3.895	0.010	3.226	0.139	0.000	0.115	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	1.537	0.005	6.129	0.050	0.000	0.198	7.671	0.247	1
November 2022	3.470	0.000	4.289	0.116	0.000	0.143	7.759	0.259	0
December 2022	4.416	0.000	4.341	0.142	0.000	0.140	8.757	0.282	0
January 2023	4.677	0.005	3.844	0.151	0.000	0.124	8.526	0.275	0
February 2023	4.108	0.005	3.746	0.147	0.000	0.134	7.859	0.281	0
March 2023	4.733	0.015	4.701	0.153	0.000	0.152	9.449	0.305	0
April 2023	4.762	0.005	4.204	0.159	0.000	0.140	8.971	0.299	0
May 2023	5.735	0.005	4.413	0.185	0.000	0.142	10.153	0.328	0
June 2023	4.313	0.005	5.291	0.144	0.000	0.176	9.609	0.320	0
July 2023	5.461	0.005	5.097	0.176	0.000	0.164	10.563	0.341	0
August 2023									
September 2023									
October 2023									
November 2023									
December 2023									
Average	4.321	0.005	4.642	0.142	0.000	0.153	8.968	0.295	0
Max	5.735	0.015	6.129	0.185	0.000	0.198	10.902	0.352	1
Min	1.537	0.000	3.226	0.050	0.000	0.115	7.131	0.247	0



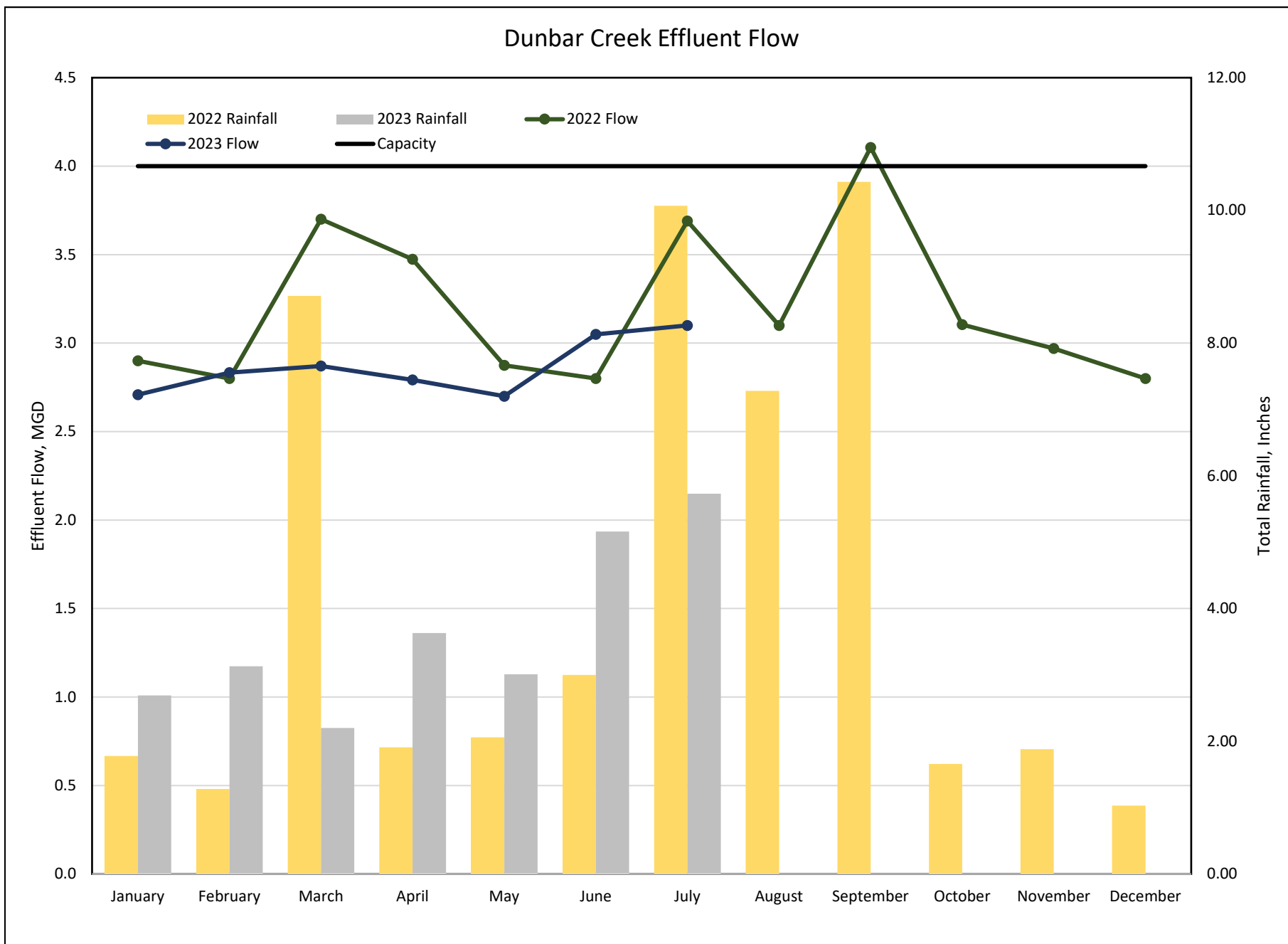
ACADEMY CREEK WWTP	FLOW (MGD)				Influent Concentrations						Effluent Concentrations									Removal Efficiency		Rainfall		Water Meter Monthly	Sludge Tons to Landfill
	INF	PINOVA	EFF	% Cap.	pH s.u.	Alkalinity mg/L	BOD mg/L	TSS mg/L	NH3 mg/L	Phos mg/L	pH s.u.	Alkalinity mg/L	D.O. mg/L	BOD mg/L	TSS mg/L	NH3 mg/L	TRC mg/L	Entero. #/100 mL	Phos. mg/L	BOD %	TSS %	Maximum Inches	Total Inches	MGal	
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	6.1	0.8	6.5	48%	7.5	144.2	204	170	16.7	5.9	6.6	69.1	6.6	6	6	2.7	0.04	1	2.6	97.06%	96.47%	1.30	1.60	5.598	62.62
November 2022	5.6	0.8	5.8	43%	7.5	192.4	193	159	20.5	7.8	6.4	78.0	6.5	5	6	2.5	0.07	1	4.1	97.41%	96.23%	1.50	1.70	6.142	63.39
December 2022	6.1	0.6	5.0	37%	7.7	182.8	215	193	21.1	6.8	6.4	95.1	6.9	4	2	2.1	0.12	1	7.8	98.14%	98.96%	0.35	1.07	6.816	42.96
January 2023	6.7	0.4	4.9	36%	7.4	185.2	199	182	20.0	12.0	6.4	82.0	6.9	4	3	3.8	0.08	6	7.4	97.99%	98.35%	0.85	1.45	7.155	62.02
February 2023	7.5	0.8	6.4	48%	7.4	178.2	207	191	19.9	9.6	6.4	93.8	6.7	4	3	4.2	0.02	9	5.9	98.00%	98.48%	0.40	0.45	5.873	72.53
March 2023	6.9	0.8	5.9	44%	7.5	191.2	231	236	21.2	16.1	6.1	108.0	5.0	7	4	5.7	0.06	9	9.4	96.97%	98.31%	0.80	1.50	6.816	42.96
April 2023	5.4	0.6	5.5	41%	7.2	222.8	220	192	28.4	25.7	6.5	129.9	6.5	7	3	9.4	0.05	12	9.9	96.82%	98.44%	2.80	4.13	9.181	62.49
May 2023	6.2	0.2	5.3	39%	7.4	205.2	232	229	22.5	17.1	6.3	80.3	6.5	5	3	3.5	0.04	14	8.1	97.84%	98.69%	0.50	2.48	10.135	84.82
June 2023	6.3	0.3	5.7	42%	7.2	197.4	200	173	24.3	10.3	6.3	80.8	7.1	4	2	0.8	0.02	9	4.3	98.00%	98.84%	1.37	4.05	6.969	38.37
July 2023	6.8	0.2	6.1	45%	7.2	176.0	151	148	17.3	8.0	6.3	67.8	7.1	5	2	0.3	0.03	18	3.6	96.69%	98.65%	1.75	5.63	9.609	62.62
August 2023																									
September 2023																									
October 2023																									
November 2023																									
December 2023																									
Average	6.4	0.7	6.2	46%	7.4	186.5	200	198	19.7	10.7	6.4	91.8	6.6	6.0	4.7	4.0	0.05	5	5.6	96.97%	97.71%	1.31	3.48	7.210	73.54
Max	10.4	1.0	10.7	79%	7.7	222.8	247	287	28.4	25.7	6.6	129.9	7.2	15.0	16.0	10.9	0.13	18	9.9	98.14%	98.96%	2.83	10.05	10.609	140.30
Min	4.9	0.2	4.9	36%	7.1	144.2	143	141	10.9	4.2	6.1	67.8	5.0	4.0	2.0	0.3	0.01	1	1.9	93.71%	94.31%	0.35	0.45	5.598	38.37
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	<1.0**	<0.14	<35	Report	>85.00%	>85.00%				

BOD - Biochemical Oxygen Demand
TSS - Total Suspended Solids
NH3 - Ammonia (Limit Changed June 2023)
Phos - Phosphorus
D.O. - Dissolved Oxygen
TRC - Total Residual Chlorine
Entero. - Enterococci Bacteria



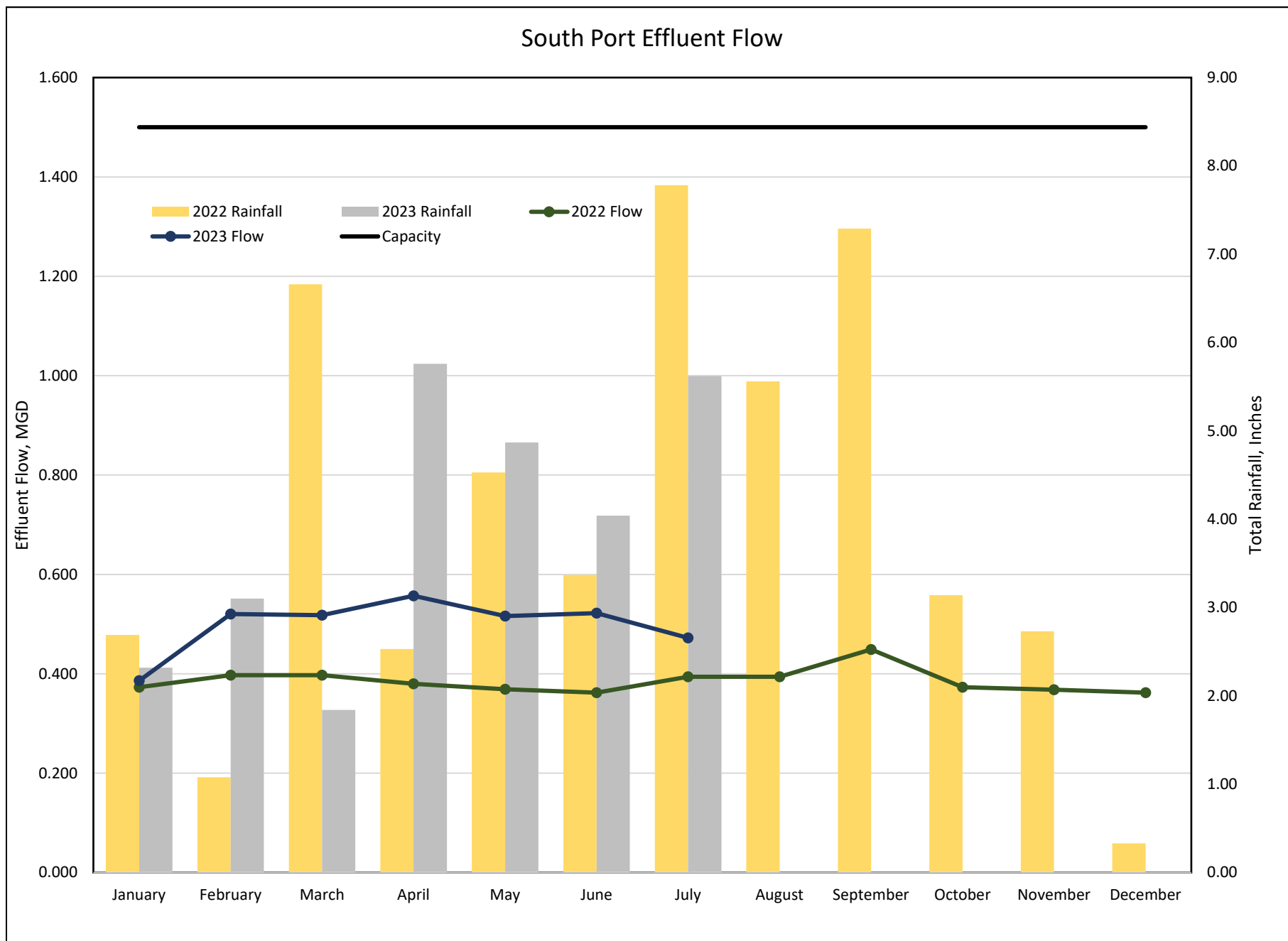
DUNBAR CREEK WWTP	FLOW (MGD)			Influent Concentrations						Effluent Concentrations								Removal Efficiency		Rainfall		Water Meter Monthly	Sludge Tons to Landfill
	INF	EFF	% Cap.	pH s.u.	Alkalinity mg/L	BOD mg/L	TSS mg/L	NH3 mg/L	Phos mg/L	pH s.u.	Alkalinity mg/L	D.O. mg/L	BOD mg/L	TSS mg/L	NH3 mg/L	Entero. #/100 mL	Phos. mg/L	BOD %	TSS %	Maximum Inches	Total Inches	M/Gal	
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	3.2	3.1	78%	7.7	212.0	164	194	14.7	3.00	7.5	51.2	8.0	3.0	3.0	0.8	1	2.3	98.17%	98.45%	1.41	1.66	0.412	9.25
November 2022	3.0	3.0	74%	7.1	209.0	173	184	20.9	3.00	7.2	56.0	8.2	3.0	3.0	1.0	23	2.5	98.27%	98.37%	1.39	1.88	1.989	38.08
December 2022	2.8	2.8	70%	7.1	234.0	190	210	21.4	3.70	7.6	55.6	7.8	3.0	3.0	0.4	13	1.9	98.42%	98.57%	0.39	1.03	2.025	24.15
January 2023	2.9	2.7	68%	6.9	230.0	186	194	21.5	4.20	7.5	58.7	8.5	3.0	3.0	0.5	13	1.9	98.39%	98.45%	1.09	2.69	2.154	41.91
February 2023	4.0	2.8	71%	6.9	228.0	354	602	25.0	4.35	6.9	56.7	8.0	3.9	6.9	0.9	6	1.7	98.89%	98.86%	2.42	3.13	1.730	22.10
March 2023	N/A	2.9	72%	6.9	252.0	182	205	14.2	3.50	6.9	60.8	7.6	3.0	4.0	0.6	8	1.8	98.35%	98.05%	0.59	2.20	2.042	22.44
April 2023	2.5	2.8	70%	7.0	251.8	189	195	24.1	4.00	7.0	58.7	7.0	4.0	3.0	0.3	10	1.8	97.88%	98.46%	2.43	3.63	2.120	25.74
May 2023	2.8	2.7	68%	7.0	244.0	174	209	24.6	4.01	6.7	64.6	7.5	3.0	3.0	0.9	4	2.0	98.28%	98.56%	0.58	3.01	2.478	31.79
June 2023	3.1	3.0	76%	6.9	257.0	187	203	30.3	4.05	6.9	68.3	7.7	3.0	4.0	1.9	14	2.1	98.40%	98.03%	1.25	5.16	2.532	29.84
July 2023	3.0	3.1	78%	6.9	245.0	178	160	30.4	2.30	6.6	81.2	7.6	4.0	4.0	1.6	6	2.3	97.75%	97.50%	1.23	5.73	2.781	32.23
August 2023																							
September 2023																							
October 2023																							
November 2023																							
December 2023																							
Average	3.0	3.1	77%	7.1	230.5	187.7	217.4	23.7	3.67	7.2	63.4	7.7	3.2	3.1	1.0	7	1.8	98.23%	98.50%	1.5	4.0	1.164	27.40
Max	4.2	4.1	103%	7.7	258.0	353.9	602.1	33.5	4.85	7.8	103.0	8.5	4.0	6.9	3.5	23	2.5	98.89%	99.14%	4.1	10.4	2.781	41.91
Min	2.4	2.7	68%	6.9	176.6	110.0	140.0	14.2	2.30	6.6	51.2	7.0	3.0	2.0	0.3	1	1.0	97.27%	97.50%	0.3	1.0	0.040	9.25
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



SOUTH PORT WWTP	FLOW (MGD)			Influent Concentrations						Effluent Concentrations								Removal Efficiency		Rainfall		Water Meter Monthly	Sludge Tons to Landfill
	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	Total Inches	M/Gal	
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	0.309	0.373	25%	6.9	206.0	129	156	21.3	4.25	7.5	30.8	9.2	4.0	3.0	0.6	4	1.6	96.90%	98.08%	2.92	3.14	0.018	1.13
November 2022	0.407	0.368	25%	6.8	215.0	141	180	23.5	4.55	7.5	38.5	9.2	4.0	4.0	1.4	3	2.0	97.16%	97.78%	2.02	2.73	0.025	3.46
December 2022	0.359	0.362	24%	6.9	259.6	169	183	25.4	4.60	8.3	42.0	8.9	6.0	4.0	0.7	3	2.4	96.45%	97.81%	0.22	0.33	0.037	4.00
January 2023	0.388	0.386	26%	7.1	242.0	169	194	25.3	3.90	7.4	104.9	8.6	6.0	3.0	4.0	2	2.3	96.45%	98.45%	1.07	2.32	0.019	3.63
February 2023	0.466	0.520	35%	7.2	234.0	180	206	27.8	4.15	7.5	58.1	8.3	4.4	1.8	0.5	1	2.6	97.55%	99.15%	1.50	3.10	0.012	4.98
March 2023	0.435	0.518	35%	7.2	225.0	182	212	13.8	5.30	7.6	50.9	7.1	4.0	2.0	3.6	2	3.1	97.80%	99.06%	0.68	1.84	0.013	3.33
April 2023	0.499	0.557	37%	7.3	229.8	160	192	23.9	5.40	7.4	51.1	7.7	4.0	3.0	0.4	1	3.4	97.50%	98.44%	3.38	5.76	0.008	1.87
May 2023	0.422	0.516	34%	7.2	222.4	160	199	28.9	3.42	7.7	91.5	6.1	5.0	3.0	3.6	2	2.5	96.88%	98.49%	1.56	4.87	0.029	4.62
June 2023	0.416	0.522	35%	7.2	219.0	162	181	30.8	3.70	7.8	75.8	8.4	6.0	4.0	5.7	1	2.7	96.30%	97.79%	0.94	4.04	0.024	6.09
July 2023	0.355	0.472	31%	7.0	204.0	157	150	31.3	3.90	7.5	45.2	6.9	4.0	4.0	0.2	2	3.4	97.45%	97.33%	0.60	5.62	0.004	0.00
August 2023																							
September 2023																							
October 2023																							
November 2023																							
December 2023																							
Average	0.324	0.427	28%	7.0	218.4	158.0	176.3	27.5	4.24	7.6	58.3	8.4	5.2	3.4	1.4	3	2.4	96.68%	98.05%	1.6	4.0	0.041	3.45
Max	0.499	0.557	37%	7.3	259.6	212.7	212.0	35.8	5.70	8.3	104.9	9.9	8.0	7.0	5.7	6	3.4	97.80%	99.15%	3.4	7.8	0.180	6.98
Min	0.168	0.362	24%	6.8	163.1	129.0	136.0	13.8	2.85	7.0	30.8	6.1	4.0	1.8	0.2	1	1.3	93.89%	96.63%	0.2	0.3	0.004	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



Facility Construction Project Photos – August 2023

#2016 ARCO AREA WATER AND SEWER EXTENSION (45% - DECEMBER 2023)



1. Robert Lindsay (PCD Inspector), Jason Waldrop (UWS Superintendent), and Amber Hunt (ECS Field Testing Engineer) are discussing the compaction testing limits along Knight Street.
2. UWS Crew Members are assisting Amber in preparation for the compaction testing using a nuclear moisture density & thin layer gauge equipment at the intersection of Knight Street and Cedar Street.
3. UWS Crew Member performing an 8-inch sewer line connection to a manhole in the sewer easement between Ogg Avenue and Cochran Avenue.

Facility Construction Project Photos – August 2023

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



1. **Derrick Simmons (WDD Superintendent) showcasing a 1-inch galvanized line removed from the College Park Subdivision in the North Mainland District.**
2. **A 2-inch galvanized line was removed from Cooper Avenue (Saint Clair Subdivision) in the Saint Simons Island District.**
3. **Michael Powell (WDD Crew Member) is inspecting a 2-inch galvanized line removed from the FLETC Campus in the North Mainland District.**

Facility Construction Project Photos – August 2023

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



1. Mike Ellis (M&E Owner) performs a QA/QC inspection on Dennis Richardson (M&E Meter Tech) while preparing for six water meter replacements at the Eagle Point Apartment Complex Unit 112 in the North Mainland District.
2. M&E Meter Tech is showing the resident where the location of the hose bibb is and explaining to her the meter change-out process at 303 Warren Mason Blvd (Coastal Condominium) in the North Mainland District.
3. Two M&E Meter Techs are preparing for a water meter changeout in a tight location between the bldg. and sidewalk at the 844 Warren Mason (Old Mill Apartments) in the North Mainland District.

Facility Construction Project Photos – August 2023

#2106 DUNBAR CREEK WPCF REHAB (IN PROGRESS-TBD)



- 1. Post-Aeration Basin Construction activities & mechanical installation anticipated next month.**
- 2. Black fiberglass enclosure cover installation is ongoing at the Headworks.**
- 3. Aeration Basin #2 mixer awaiting final electrical wiring and start-up testing.**

Facility Construction Project Photos – August 2023

#2203 EST REHAB AT GLYNN PLACE MALL AND OGLETHORPE SITES (88% - AUGUST 2023)



1. Oglethorpe EST – Drone footage of the tank bowl and logo from the OPES side.
2. Oglethorpe EST – Contractor welding on flange in preparation for weight flap valve installation.
3. Mall EST – Local Marshes Edge Community resident inspects the finish coat at the tank's base – he is satisfied with the work and looks forward to seeing the tank return online.
4. Mall EST – Drone footage of the tank showcasing the CCGA logo.

Facility Construction Project Photos – August 2023

#2215B HWY 341 CRISPEN (IN PROGRESS-TBD)



1. Views of the steel plates installed at Highway 341 and Crispin Blvd intersection.
2. The Contractor is ordering materials and anticipates it arriving onsite within two-four weeks.
3. Updated schedule shows the Contractor to be fully mobilized on site after the Labor Day Holiday.

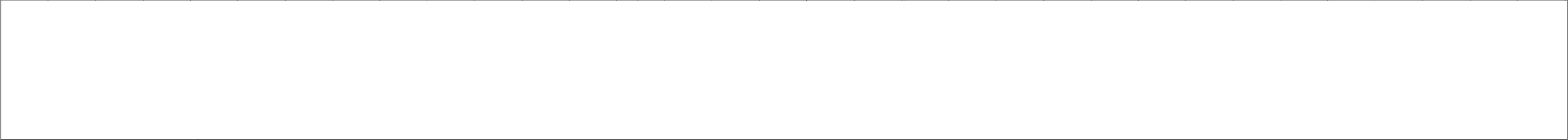
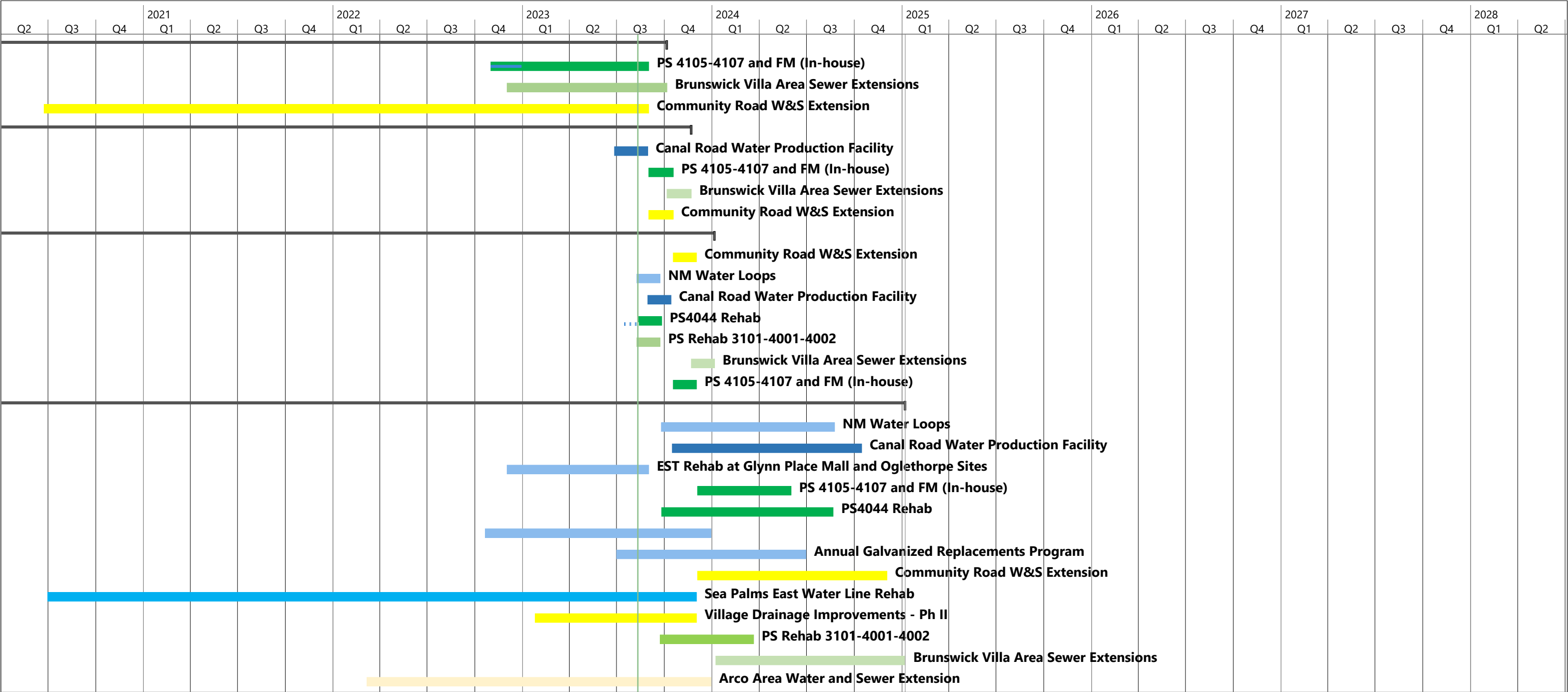
									BUDGET VS. EXPENDITURES													
									BOC APPROVED FUNDING & SOURCE				COMMITTED			EXPENDITURES				BALANCE	% Funds Committed	STATUS
Proj #	Project Name	Programmed Completion Date	Current/Actual Completion Date	Phase	Project Director/ Project Manager	Concept Design 30%	Detail Design 60-90-100%	Construction	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)		
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	\$130,361	\$2,168,455	\$163,747	\$2,462,563	\$725,437	77.24%	Submittals approved. Transfer switches associated with permanent generator installations have begun arriving.
906	Water Pollution Rehab-Academy & Dunbar	TBD	Jun 2023	Complete	Burroughs	JWSC	EMC	Ruby-Collins	\$0	\$0	\$6,853,989	\$6,853,989	\$11,671,433	\$578,172	\$12,249,605	\$1,285,950	\$65,718	\$50,107	\$1,401,775	\$5,452,214	20.45%	Record drawings under review.
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	\$9,000	\$1,022,347	\$1,022,347	\$0	\$0	\$1,022,347	\$1,712,653	37.38%	Design Funds appropriated and divided into two sub-projects and Project 4036 CIPP is construction completed.
	PS4105-4107 Basin Expansion/FM Reroute	Jul 2022	TBD	Design	Kline/Patel	JWSC	Robers Civil Engineering	TBD	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		Plans redlined to reflect FM installation work only. EPD approval received. CSX RR permit agreement under JWSC legal review prior to execution. NS permit package submitted for review.
2009	Sea Palms East Water Line Rehab	TBD	TBD	On Hold	Simmons	JWSC	JWSC	JWSC	\$0	\$0	\$178,595	\$178,595	\$36,548	\$0	\$36,548	\$36,548	\$0	\$1,156	\$37,704	\$140,891	21.11%	Project on hold pending Frederica Rd open-cut installation sections to coordinate with adjacent planned private development. JWSC is working w/ Glynn County regarding ROW permitting & sourcing materials for construction.
2014	PS 2002 FM Replacement	Dec 2022	Mar 2022	Const.	Burroughs	JWSC	T R Long/AWWIS	Phase 1 - JWSC Phase 2 - TBD	\$500,000	\$0	\$0	\$500,000	\$316,357	\$29,125	\$345,482	\$322,200	\$0	\$1,231	\$323,431	\$176,569	64.69%	Project complete.
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		\$542	\$36,809	\$363,191	9.20%	Next section of improvements in planning.
2016	Arco Area Water and Sewer Extensions	Jan 2023	Jan 2023	Complete	Patel	JWSC	Thomas & Hutton	N/A	\$0	\$300,000	\$0	\$300,000	\$300,000	\$0	\$300,000	\$300,281	\$0	\$ -	\$300,281	-\$280.82	100.09%	Engineering Complete. Tied to Proj 2101.
2017	PS 2023 Rehab	TBD	TBD	On Hold	Young	JWSC	TBD	TBD	\$275,000	\$0	\$0	\$275,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$275,000.00	0.00%	Project on hold pending additional survey investigation.
2020	Community Rd Sewer Expansion	Jan 2023	Jul 2024	Design	Patel	Hussey Gay Bell	JWSC	TBD	\$0	\$250,000	\$0	\$250,000	\$280,916	\$76,650	\$357,566	\$265,921	\$91,645	\$0	\$357,566	-\$107,566.00	143.03%	GDOT permitting approved. Construction easement acquisition underway. EOR finalizing bid ready package including alternate route.
2021	Annual Galvanized Replacements Program	Jul 2023	Jul 2023	Const.	Simmons	JWSC	JWSC	JWSC	\$750,000	\$0	\$0	\$750,000	\$299,823	\$0	\$299,823	\$329,659	\$28,000	\$383	\$358,042	\$391,958	47.74%	Progress has slowed due to contractor equipment failure.
2023	SSI PRV	TBD	TBD	On Hold	Kline	JWSC	TBD	TBD	\$150,000	\$0	\$0	\$150,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150,000	0.00%	Project on hold pending Glynn County Sea Island-Federica Road 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	\$0	\$0	\$244,670	\$2,830	98.86%	Complete.
2025	NM Water PRV	TBD	TBD	On Hold	Kline	JWSC	TBD	TBD	\$100,000	\$0	\$0	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100,000	0.00%	Project is on hold pending system evaluation after the NM Water Loops project is completed.
2028	Meter Replacements - Years 1 and 2	Jun 2022	Dec 2023	Const.	Roberts/Head	JWSC	JWSC	Delta Muncipal Supply/Neptun e Technology Group	\$0	\$0	\$18,200,000	\$18,200,000	\$12,461,012	\$6,743,583	\$19,204,595	\$15,150,577	\$2,698,447	\$19,145	\$17,868,169	\$331,831	98.18%	Approximately 25,150 meters have been replaced to date. Overall meter replacement project is approximately 84% complete.
2101	Arco Water & Sewer Expansion	Oct 2022	Jul 2023	Const.	Kline/Patel	JWSC	Thomas & Hutton	UWS Inc	\$0	\$0	\$3,500,000	\$3,500,000	\$3,744,090	\$209,174	\$3,953,264	\$1,631,888	\$2,321,375	\$0	\$3,953,263	-\$453,263	112.95%	Sewer Installation along Ninth St, Dudley Av, Hill St, Knight St, Tenth St, completed and tested. Sewer installation along Franklin St complete. Awaiting paving mobilization/completion prior to beginning sewer installation on Phase II. Sewer Re-route design along Cochran in progress. Change order and time extension request documentation in progress.
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	\$227,800	\$0	\$227,800	\$108,860	\$118,940	\$0	\$227,800	\$1,622,200	12.31%	Advertisement 06/27/2023, Prebid 07/12/2023, and Anticipated Bid Open 08/29/2023.
2103	NM Water Loops	Dec 2022	Sep 2024	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	\$161,000	\$53,000	\$0	\$214,000	\$1,036,000	17.12%	Bid Open held on 08/08/2023 with two bids received and the apparent low bidder is Vallencourt Construction for \$2,996,458.60.
2104	PS 4002 Rehab	TBD	TBD	Design	Kline	Kimley-Horn	Kimley-Horn	TBD	\$650,000	\$0	\$0	\$650,000	\$36,686	\$0	\$36,686	\$17,000	\$19,686	\$43,314	\$80,000	\$570,000	12.31%	One bid was received. Staff and EOR are reviewing. Recommendation to Facilities Committee on 08/16/2023.
2105	PS 4044 Rehab	Nov 2022	Aug 2024	Design	Kline/Vo	LEA	LEA	TBD	\$550,000	\$0	\$0	\$550,000	\$79,350	\$0	\$79,350	\$49,550	\$29,800	\$0	\$79,350	\$470,650	14.43%	One bid was received. Staff and EOR are reviewing. Recommendation to Facilities Committee on 08/16/2023.
2106	Dunbar Creek Engineering	May 2022	May 2022	Const.	Burroughs	BRW/HGB	HGB	BRW	\$5,650,000	\$0	\$5,200,000	\$10,850,000	\$5,690,405	\$4,128,961	\$9,819,366	\$3,579,321	\$6,240,046	\$900	\$9,820,267	\$1,029,733	90.51%	Concrete work is ongoing in filters and UV. New diffusers and valves installed on AB2. Power cable on mixer was too short. New cable is to be delivered week of 07/17/2023 for installation. AB2 to be put back in service once mixer is functional.
2108	PS 4001 Rehab	TBD	TBD	Design	Kline	Kimley-Horn	Kimley-Horn	TBD	\$400,000	\$0	\$0	\$400,000	\$18,643	\$0	\$18,643	\$13,647	\$4,996	\$21,657	\$40,300	\$359,700	10.08%	One bid was received. Staff and EOR are reviewing. Recommendation to Facilities Committee on 08/16/2023.
2109	Hwy 17 North Pump Station	TBD	TBD	Design	Kline/Patel	JWSC	JWSC	TBD	\$400,000	\$0	\$0	\$400,000	\$34,927	\$0	\$34,927	\$31,805	\$3,122	\$0	\$34,927	\$365,073	8.73%	Project placed on hold due to lack of interest from contractors.
2110	PS 3101 Rehab	TBD	TBD	Design	Kline	Kimley-Horn	Kimley-Horn	TBD	\$375,000	\$0	\$0	\$375,000	\$18,643	\$0	\$18,643	\$13,647	\$4,996	\$21,657	\$40,300	\$334,700	10.75%	One bid was received. Staff and EOR are reviewing. Recommendation to Facilities Committee on 08/16/2023.
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	0.00%	Awaiting EPD review and approval. Bid package being finalized.
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	0.00%	WPD and SCADA finalizing the scope of work for Engineering RFP.
2203	EST Rehab at Glynn Place Mall and Oglethrope Sites	June 2023	Aug 2023	Const.	Kline/Vo	JWSC	JWSC	TankPro	\$1,000,000	\$0	\$0	\$1,000,000	\$1,441,022	\$0	\$1,441,022	\$1,129,938	\$311,084	\$0	\$1,441,022	-\$441,022	144.10%	Both ESTs are pending remaining electrical, SCADA, and valve replacements. Anticipated completion by the end of August.
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	0.00%	Forcemain Improvements Engineering RFP pending scheduling for advertisement.
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	0.00%	Construction advertisement package pending SCADA/Electrical scope of work update.
2206	Ocean Boulevard WM Improvements	TBD	TBD	On Hold	Burroughs	JWSC	JWSC	TBD	\$1,750,000	\$0	\$0	\$1,750,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,750,000	0.00%	Project on hold. The package will require an updated SUE/survey, drawings, reports, and technical specs to be submitted for permit approval prior to construction project advertisement.
2207	Wesley Oaks Circle WM Improvements	TBD	TBD	Const.	Simmons	JWSC	JWSC	D&C Directional	\$450,000	\$0	\$0	\$450,000	\$179,906	\$0	\$179,906	\$79,465	\$100,440	\$0	\$179,905	\$270,095	39.98%	Materials have been ordered and beginning to arrive, and working with the Contractor to determine a start date for improvements.
2208	JWSC Facilities Improvements	TBD	TBD	Const.	Burroughs	JWSC	JWSC	Various	\$450,000	\$0	\$0	\$450,000	\$103,053	\$0	\$103,053	\$103,452	\$0	\$2,924	\$106,376	\$343,624	23.64%	HVAC replacement for admin building completed. Working with City of Brunswick and Glynn County on storm improvements to parking lot.

									BUDGET VS. EXPENDITURES													
Proj #	Project Name	Programmed Completion Date	Current/Actual Completion Date	Phase	Project Director/ Project Manager	Concept Design 30%	Detail Design 60-90-100%	Construction	BOC APPROVED FUNDING & SOURCE				COMMITTED			EXPENDITURES				BALANCE	% Funds Committed	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 Spending (Original Approved Budget - Total Expenditures)		
2209	Brunswick Villa Area Sewer Extensions	TBD	TBD	Design	Patel	Kimley-Horn	Kimley-Horn	TBD	\$0	\$2,750,000	\$0	\$2,750,000	\$551,180	\$0	\$551,180	\$212,653	\$338,528	\$0	\$551,181	\$2,198,819	20.04%	Awaiting 90% submittal. Once recieved and reviewed, will begin the process of various permit applications.
2210	PS 3114 Force Main Reroute	TBD	TBD	Design	Kline	JWSC	TBD	TBD	\$0	\$400,000	\$0	\$400,000	\$9,375	\$0	\$9,375	\$8,650	\$725	\$0	\$9,375	\$390,625	2.34%	Engineering Survey received. In-house preliminary FM design layout in progress.
2211	NM WPCF Land Acquisition and Engineering	TBD	TBD	Design	Burroughs	JWSC	TBD	TBD	\$3,750,000	\$0	\$0	\$3,750,000	\$10,854	\$0	\$10,854	\$10,854	\$0	\$2,275	\$13,129	\$3,736,871	0.35%	Property acquisition MOU approved. Working on design-build RFP for advertisement.
2212	Village Drainage Improvements - Ph II	TBD	TBD	Design	Patel	JWSC	Glynn County	Allen Owens Construction	\$0	\$0	\$250,000	\$250,000	\$250,000	\$0	\$250,000	\$0	\$217,325	\$0	\$217,325	\$32,675	86.93%	Glynn Co. project: contract awarded to Allen Owens Construction. Construction NTP pending Contractor to schedule. Partial submittals received and reviewed; comments forwarded to Glynn County. Anticipated start day after Labor Day Holiday.
2213	Exit 42 Elevated Storage Tank	TBD	TBD	Design	Kline	JWSC	JWSC	TBD	\$0	\$0	\$3,000,000	\$3,000,000	\$3,000,000	\$0	\$3,000,000	\$7,500	\$9,100	\$0	\$16,600	\$2,983,400	0.55%	In-house Engineering plans in progress. Awaiting feedback from GA power in regards to electrical. David Grantham is reviewing electrical plans. Finalizing Plan set.
2214	Academy Creek UV Installation	TBD	TBD	Design	Burroughts	BRW/HGB	HGB	BRW	\$1,900,000	\$0	\$0	\$1,900,000	\$644,000	\$0	\$644,000	\$0	\$644,000	\$276,000	\$920,000	\$980,000	48.42%	Awaiting EPD review and approval. Bid package being finalized.
2215B	Hwy 341 and Crispen Blvd	August 2023	Aug 2023	Const.	Kline/Vo	TBD	TBD	Popco Inc. & Bio-Nomics Services, Inc.	\$679,000	\$0	\$0	\$679,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$679,000	0.00%	GDOT GUPS Permit approved. Anticipated mobilization 09/05/2023.
2216S	SPLOST Exit 29 WPF and EST	TBD	TBD	Design	Kline/Vo	Thomas & Hutton	Thomas & Hutton	TBD	\$0	\$0	\$6,000,000	\$6,000,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,000,000	0.00%	Design kickoff meeting with EOR 07/14/2023. Notice of survey fieldwork sent to adjacent property owners 07/25/2023.
2401R	PS 2001/2002 Rehab	TBD	TBD	On Hold	Kline	TBD	TBD	TBD	\$1,350,000	\$0	\$0	\$1,350,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,350,000	0.00%	Not started
2402R	Harrington, Airport, and Mallery WPF Improvements	TBD	TBD	On Hold	Burroughs	TBD	TBD	TBD	\$1,850,000	\$0	\$0	\$1,850,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,850,000	0.00%	Not started
2403C	PS 3103 Expansion & FM	TBD	TBD	On Hold	Kline	TBD	TBD	TBD	\$0	\$3,500,000	\$0	\$3,500,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,500,000	0.00%	Not started
2404CIF	PS 4119 Expansion & FM	TBD	TBD	On Hold	Kline	TBD	TBD	TBD	\$0	\$6,300,000	\$0	\$6,300,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,300,000	0.00%	Not started
2405S	SPLOST W&S Service Extensions	TBD	TBD	Design	Kline/Vo	TBD	TBD	TBD	\$0	\$0	\$7,000,000	\$7,000,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,000,000	0.00%	Working on design-build RFP for advertisement.
									\$36,514,500	\$13,985,000	\$50,182,584	\$100,682,084	\$45,212,653	\$11,774,665	\$56,987,318	\$26,284,011	\$15,469,428	\$605,038	\$42,358,477	\$58,323,608		

Phase	Amount
Master	1
Design	22
Const.	11
On Hold	9
Complete	3
Total Projects	46

Project Director/ Project Manager	Total PO+CO	Total Expenditures
Burroughs	\$25,071,376	\$14,372,211
Kline	\$4,141,961	\$1,245,731
Kline/Patel	\$3,988,191	\$3,988,190
Kline/Vo	\$1,962,172	\$1,962,172
Patel	\$1,458,746	\$1,426,353
Roberts/Head	\$19,204,595	\$17,868,169
Simmons	\$516,277	\$575,651
Young	\$0	\$0
Total	\$56,343,318	\$41,438,477

PM	Burroughs	Roberts	Kline	Vo	Patel	Simmons	Head	Young
Total PO+CO	\$25,071,376	\$19,204,595	\$10,092,324	\$1,962,172	\$5,446,937	\$516,277	\$19,204,595	\$0
Total Expenditures	\$14,372,211	\$17,868,169	\$7,196,093	\$1,962,172	\$5,414,543	\$575,651	\$17,868,169	\$0
Percentage Spent	57.33%	93.04%	71.30%	100.00%	99.41%	111.50%	93.04%	#DIV/0!
Total Projects (includes Master/Sub-projects)	11	1	25	10	7	3	1	1



Project: Capital Projects Gantt C Date: Fri 8/11/23	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 08/11/2023

Proj #	Project Name	Project Manager	Concept Design	Detail Design	Construction	BAC	PV	EV	AC	SV	CV	ETC	EAC	VAC	SPI	CPI	TCPI
801	FEMA Hazard Mitigation-Academy Creek	Burroughs	Haggerty	TBD	TBD	\$ 3,188,000.00	\$ 3,188,000.00	\$ 871,121.00	\$ 347,911.32	\$ (1,212,968.49)	\$ 523,209.68	\$ 925,323.15	\$ 1,273,234.47	\$ 1,914,765.53	0.27	2.50	0.82
906	Water Pollution Rehab-Academy & Dunbar	Burroughs	JWSC	GMC	Ruby-Collins, LLC	\$ 11,641,306.00	\$ 11,320,150.00	\$ 11,319,880.13	\$ 12,045,611.69	\$ (269.87)	\$ (725,731.56)	\$ 342,032.88	\$ 12,387,644.57	\$ (746,338.57)	1.00	0.94	-0.80
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 (Complete)	Burroughs	JWSC	TR Long	TBD	\$ 500,000.00	\$ 500,000.00	\$ 500,000.00	\$ 322,199.94	\$ -	\$ 177,800.06	\$ -	\$ 322,199.94	\$ 177,800.06	1.00	1.55	0.00
2016	Arco Water and Sewer Expansion	Patel	JWSC	T&H	UWS	\$ 3,800,000.00	\$ 3,800,000.00	\$ 2,243,961.76	\$ 1,945,891.22	\$ (2,087,420.00)	\$ 298,070.54	\$ 1,349,346.14	\$ 3,295,237.36	\$ 504,762.64	0.59	1.15	0.84
2018	Meter Replacements	Roberts	JWSC	N/A	Delta Municipal Supply	\$ 18,450,000.00	\$ 7,318,082.19	\$ 15,585,926.67	\$ 15,281,320.29	\$ 8,267,844.47	\$ 304,606.38	\$ 2,808,098.80	\$ 18,089,419.09	\$ 360,580.91	2.13	1.02	0.90
2020	Community Rd Area Water and Sewer Expansion	Patel	JWSC	HGB	TBD	\$ 250,000.00	\$ 250,000.00	\$ 159,125.00	\$ 265,921.00	\$ (13,690.48)	\$ (106,796.00)	\$ 151,865.33	\$ 417,786.33	\$ (167,786.33)	0.64	0.60	-5.71
2021	Galvanized Replacements	Simmons	JWSC	N/A	JWSC	\$ 750,000.00	\$ 750,000.00	\$ 269,160.35	\$ 330,041.93	\$ (480,839.65)	\$ (60,881.58)	\$ 589,601.12	\$ 919,643.05	\$ (169,643.05)	0.36	0.82	1.14
2102	Canal Road WPF	Vo	T&H	T&H	TBD	\$ 1,850,000.00	\$ 1,771,250.91	\$ 149,773.14	\$ 108,860.00	\$ (1,621,477.77)	\$ 40,913.14	\$ 1,235,780.30	\$ 1,344,640.30	\$ 505,359.70	0.08	1.38	0.98
2103	North Mainland Water Loops	Vo	4Waters	4Waters	TBD	\$ 1,250,000.00	\$ 1,250,000.00	\$ 143,236.62	\$ 160,999.70	\$ (1,106,763.38)	\$ (17,763.08)	\$ 1,244,015.48	\$ 1,405,015.18	\$ (155,015.18)	0.11	0.89	1.02
2104	PS 4002 Rehab	Kline	Kimley-Horn	Kimley-Horn	TBD	\$ 650,000.00	\$ 483,222.22	\$ 53,546.40	\$ 60,313.98	\$ (429,675.82)	\$ (6,767.58)	\$ 671,837.71	\$ 732,151.69	\$ (82,151.69)	0.11	0.89	1.01
2105	PS 4044 Rehab	Kline	LEA	LEA	TBD	\$ 550,000.00	\$ 71,750.00	\$ 48,024.43	\$ 49,550.00	\$ (23,725.57)	\$ (1,525.57)	\$ 517,921.63	\$ 567,471.63	\$ (17,471.63)	0.67	0.97	1.00
2106	Dunbar Creek WPCF Rehab	Burroughs	BRW/HGB	HGB	BRW	\$ 9,338,893.30	\$ 6,010,126.18	\$ 3,835,214.52	\$ 4,032,714.48	\$ (2,174,911.66)	\$ (197,499.96)	\$ 5,787,098.74	\$ 9,819,813.22	\$ (480,919.92)	0.64	0.95	1.04
2108	PS 4001 Rehab	Kline	Kimley-Horn	Kimley-Horn	TBD	\$ 400,000.00	\$ 294,666.67	\$ 26,773.20	\$ 35,303.94	\$ (267,893.47)	\$ (8,530.74)	\$ 492,147.99	\$ 527,451.93	\$ (127,451.93)	0.09	0.76	1.02
2109	Highway 17 North Pump Station	Patel	JWSC	JWSC	TBD	\$ 400,000.00	\$ 400,000.00	\$ 10,000.00	\$ 31,804.83	\$ (390,000.00)	\$ (21,804.83)	\$ 1,240,388.37	\$ 1,272,193.20	\$ (872,193.20)	0.03	0.31	1.06
2110	PS 3101 Rehab	Kline	Kimley-Horn	Kimley-Horn	TBD	\$ 375,000.00	\$ 276,981.48	\$ 26,773.20	\$ 35,303.94	\$ (250,208.28)	\$ (8,530.74)	\$ 459,182.24	\$ 494,486.18	\$ (119,486.18)	0.10	0.76	1.03
2203	Mall EST & Oglethorpe EST Rehab	Vo	JWSC	JWSC	TankPro, Inc.	\$ 1,000,000.00	\$ 1,000,000.00	\$ 950,000.00	\$ 1,129,938.02	\$ (50,000.00)	\$ (179,938.02)	\$ 59,470.42	\$ 1,189,408.44	\$ (189,408.44)	0.95	0.84	-0.38
2207	Wesley Oaks Circle Water Main Improvements	Burroughs	JWSC	JWSC	D&D Directional Drilling	\$ 450,000.00	\$ 450,000.00	\$ 11,250.00	\$ 79,465.70	\$ (438,750.00)	\$ (68,215.70)	\$ 3,099,162.30	\$ 3,178,628.00	\$ (2,728,628.00)	0.03	0.14	1.18
2208	JWSC Facilities Improvements	Crosby	JWSC	N/A	Multiple	\$ 450,000.00	\$ 450,000.00	\$ 105,500.00	\$ 106,376.00	\$ (344,500.00)	\$ (876.00)	\$ 347,360.49	\$ 453,736.49	\$ (3,736.49)	0.23	0.99	1.00
2209	Brunswick Villa Area Sewer Extensions	Patel	JWSC	Kimley-Horn	TBD	\$ 2,750,000.00	\$ 581,080.83	\$ 260,914.08	\$ 212,652.50	\$ (320,166.75)	\$ 48,261.58	\$ 2,028,676.81	\$ 2,241,329.31	\$ 508,670.69	0.45	1.23	0.98
TOTALS						\$ 60,956,794.30	\$ 43,078,905.48	\$ 37,604,782.37	\$ 37,733,823.37	\$ (5,474,123.11)	\$ (129,041.00)	\$ 25,447,026.51	\$ 63,180,849.88	\$ (2,224,055.58)	0.87	1.00	1.01

BAC
PV
EV
AC
SV
CV
ETC
EAC
VAC

Budget at Completion
Planned Vaue
Earned Value
Actual Cost
Schedule Variance
Cost Variance
Estimate to Complete
Estimate at Completion
Variance at Completion

Approved Budget for Project
% of Schedule Used x BAC
% of Work Completed x BAC
Actual Costs to Date
EV - PV
EV - AC
(BAC - EV) / CPI
AC + ETC
BAC - EAC

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