



Brunswick-Glynn County Joint Water and Sewer Commission
1703 Gloucester Street, Brunswick GA 31520
Wednesday, September 20, 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 August 16, 2023, Facilities Committee Meeting (subject to any necessary changes)** [Report](#)
2. **Contract Award – Canal Road Water Production Facility** – A. Burroughs [Report](#)
3. **Academy Creek Influent Pumps Purchase** – A. Burroughs [Report](#)

DISCUSSION

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

MEETING ADJOURNED

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



Brunswick-Glynn Joint Water & Sewer Commission
1703 Gloucester Street, Brunswick, GA 31520
Commission Meeting Room
Wednesday, September 20, 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
David Owens, Director of Finance
Pam Crosby, Director of Procurement
Janice Meridith, Executive Commission Admin.
Chris Stovall, Thomas & Hutton Engineering

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 August 16, 2023

Commissioner Cook made a motion seconded by Commissioner Stephens to approve the minutes from the Facilities Committee Meeting held on August 16, 2023. Motion carried 3-0-0.

2. Contract Award – Canal Road Water Production Facility – A. Burroughs

Mr. Burroughs advised that the Canal Road Well located off Harry Driggers Boulevard is permitted but does not have treatment processed or storage facilities onsite. The well is in the Upper Floridian aquifer and is similar to the Ridgewood well conversion that occurred in 2019 and 2020. The mandatory pre-bid teleconference and site visit was held on July 12, 2023, and out of the seven firms attending only two firms submitted bids. The apparent low bidder was Reeves Young, LLC in the amount of \$5,496,000. The apparent low bid on this project significantly exceeds the budgeted amount for construction. The project was budgeted in 2021 with a total budget of \$1,850,000, which was in line with costs seen the previous year on the Ridgewood Project at \$1,433,921. The Engineer's Opinion of Probable cost from May 2023 was \$3,777,000. There is \$1,622,200 remaining in the budget for this project after

engineering. If awarded, the balance of \$3,873,800 would come from the R&R Reserve. This total value includes deductive alternates for a 250,000-gallon ground storage tank in lieu of a 300,000-gallon ground storage tank and undercutting and structural backfill in lieu of concrete piling for the ground storage tank. These deductive alternates were valued at \$253,000. The Engineer of Record, Thomas & Hutton, has begun working with Reeves Young to determine where cost savings may be found. It is the recommendation of Thomas & Hutton to award a contract to Reeves Young for the project while a deductive change order is negotiated. The expectation is that a deductive change order would be presented to the Commission for consideration either in October or November. It is unknown at this time how much of a deduction may be available.

Commissioner Cook made a motion seconded by Commissioner Stephens that the Facilities Committee recommend awarding a contract to Reeves Young, LLC for the construction of the Canal Road Water Production Facility in the amount of \$5,496,000.

Chris Stovall, the Engineer of Record from Thomas & Hutton, was present to discuss details and provide responses to the Commissioners' questions. Q&A included: Tank sizes and GPM requirements; generator cost and lead time; rising prices / increases in materials and labor costs; contingency items; items such as dewatering that have a significant cost; holding award; value engineering; allowances, etc. After a very thorough and lengthy discussion on the project and challenges JWSC is experiencing with the industry's continuously increasing material costs, labor, and delivery lead times, the Committee decided to defer this item until the next meeting to allow for more research and understanding of the bid from Reeves Young, and possible value engineering. Chris Stovall and staff will continue to work with the contractor and this item will be revisited at the October meetings.

Motion carried 0-3-0. The vote against the motion was unanimous.

Commissioner Cook made a motion seconded by Commissioner Stephens to amend the original motion that this will be brought back next month to the Facilities Committee with the understanding that there will be some additional explanation of the bid and possible value engineering. Motion carried 3-0-0.

3. Academy Creek Influent Pumps Purchase – A. Burroughs

Mr. Burroughs provided that the JWSC operates four (4) submersible pumps at Academy Creek to deliver the wastewater throughout the treatment process. There are currently two pumps down which were sent for rehab but the 12" Yeomans pumps are obsolete, and parts are not available. While some parts could be machined, staff has received quotes of \$30,000 to machine a new impeller for the Yeomans pump. Given the critical nature of these pumps, staff solicited quotes from Flyght, KSB, and Grundfos for the purchase of two new pumps for the plant. Hydraulic pumps have been rented to provide additional pumping capacity at the plant during high flow events. Due to advances in motor and pump efficiencies all three manufacturers quoted pumps that were lower hp than the existing 125 hp pumps. This will allow the existing VFDs to be reutilized with the pumps. The Flyght pump is preferred for the applications, and they have an adaptor plate to allow for the use of the currently designed guide rail system and pump base. The other two manufacturers' pumps will require machining an adaptor plate specifically for the plant setup.

Commissioner Cook made a motion seconded by Commissioner Stephens that the Facilities Committee recommend that the full Commission approve the purchase of two new Flyght influent pumps for Academy Creek from Xylem Water Solutions USA, Inc. in the amount of \$161,972.40.
Motion carried 3-0-0.

DISCUSSION

1. **Capital Project Report** – T. Kline / A. Burroughs

Chris Stovall with Thomas & Hutton Engineering began the monthly update by reporting on the status of the ARCO project. He provided details on the water system having been installed and on the sewer portion of the project that is partially done. Mr. Kline and Mr. Burroughs presented the remainder of the 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.

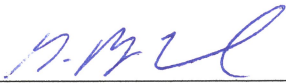
2. **Water Production Report** – A. Burroughs

Mr. Burroughs presented the Water Production Report for the month of August 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.

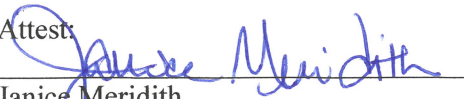
3. **WPCF Plant Flows Report** – A. Burroughs

Mr. Burroughs reviewed the August 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. August 2023 had a higher recorded rainfall at Academy Creek than the month of July. The influent flow at Academy Creek for August was 6.9 MGD as compared to July at 6.8. The effluent flow for August increased from July's 6.1 MGD to 6.4 MGD, with the plant operating at 47% of its capacity. The influent flow at Dunbar Creek for the month of August was 2.9 MGD, and the effluent flow at 2.7 MGD, with the plant operating at 68% capacity. The influent flow at South Port was at 0.432 and the effluent flow reported at 0.517, with the plant operating at 34% capacity. JWSC's wastewater treatment plants are operating very well.

There being no further business, Chairman Turnipseed adjourned the meeting at 2:35 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, Executive Director
Date: Wednesday, September 20 , 2023
Re: Academy Creek Influent Pumps Purchase

Background:

The JWSC operates four (4) submersible influent pumps at Academy Creek to pump the wastewater throughout the treatment process. There are currently two (2) pumps down that were sent to separate repair shops for consideration of rehabbing the pumps. The existing 125 horsepower (hp), 12” Yeomans pumps are obsolete, and parts are not available for rehabbing the existing pumps. The lack of availability of parts was confirmed by both repair shops and a manufacturer’s representative for the Yeomans line of pumps. While some parts could be machined, staff has received quotes of \$30,000 to machine a new impeller for the Yeomans pump. Given the critical nature of these pumps, staff solicited quotes for the purchase of two (2) new pumps for the plant. Hydraulic pumps have been rented to provide additional pumping capacity at the plant during high flow events.

Staff Report

Staff has been working with multiple pump manufacturers to determine the best combination of fit and price for these replacement pumps. Staff solicited quotes from Flygt, KSB, and Grundfos for replacement of the two pumps. Due to advances in motor and pump efficiencies since the last replacement of the influent pumps, all three manufacturers quoted pumps that were lower hp than the existing 125 hp pumps, which will allow the existing VFDs to be reutilized with new pumps. The quotes for two pumps are shown below:

Company	Pump Manufacturer	Cost	hp	Discharge
Goforth Williamson, Inc.	Grundfos	\$125,352.00	107	10”
Pump & Process Equipment, Inc.	KSB	\$129,970.00	121	15”
Xylem Water Solutions USA, Inc.	Flygt	\$161,972.40	110	12”

One significant item to note is that the Flygt pumps have an adaptor plate to allow for use of the currently designed guide rail system and pump base. Staff has done multiple Yeomans to Flygt conversions with no issues. The other two manufacturers will require machining an adaptor plate specifically for the plant setup.

Recommended Action

Staff recommends purchasing two (2) Flygt pumps from Xylem Water Solutions for a cost of \$161,972.40. While these pumps are more costly, Flygt is the most direct conversion from the current Yeomans pump and are the standard pump that we use throughout our system for larger applications.

Recommended Motion

“I move that the Facilities Committee recommend that the full Commission approve the purchase of two new Flygt influent pumps for Academy Creek from Xylem Water Solutions USA, Inc. in the amount of \$161,972.40.”

Enclosures

Pump Quotes



**Xylem Water Solutions USA, Inc.
Flygt Products**

August 3, 2023

BRUNSWICK-GLYNN JNT SWR & WTR
1703 GLOUCESTER ST
1703 GLOUCESTER ST
BRUNSWICK GA 31520-6902

128 A Airport Park Drive
Garden City, GA 31408
Tel (912) 966-1577
Fax (912) 966-1579

Quote # 2023-SAV-0313
Project Name: BRUNSWICK GLYNN
Job Name: Influent Pump Replacement

Xylem Water Solutions USA, Inc. is pleased to provide a quote for the following Flygt equipment.

Qty	Part Number	Description	Unit Price
2	3315.185-YYYY	Flygt Model NP-3315.185 12" volute Submersible pump equipped with a 460 Volt / 3 phase / 60 Hz 110 HP 1150 RPM motor, 626 impeller, 1 x 50 Ft. length of SUBCAB 3x50+2G35/2+S(2x0,5) submersible cable, FLS leakage detector, volute is prepared for Flush Valve	\$ 75,253.70
		3315.185-0179 except with EPO	
			Price \$ 150,507.40

Recommended Services

Qty	Part Number	Description	Unit Price
1	14-69 00 09A	START UP,FLYGT,NO TAX 1-TP MODELS: 3000,7000,8000	\$ 1,575.00

Recommended Services Price \$ 0.00

Total Price \$ 150,507.40

Freight Charge \$ 11,465.00

Total Price \$ 161,972.40

Terms & Conditions

This order is subject to the Standard Terms and Conditions of Sale – Xylem Americas effective on the date the order is accepted which terms are available at <http://www.xyleminc.com/en-us/Pages/terms-conditions-of-sale.aspx> and incorporated herein by reference and made a part of the agreement between the parties.

Purchase Orders: Please make purchase orders out to: Xylem Water Solutions USA, Inc.

Page 1 of 3



Freight Terms: 3 DAP - Delivered At Place 08 - Jobsite (per Incoterms 2020)
See Freight Payment (Delivery Terms) below.

Taxes: State, local and other applicable taxes are not included in this quotation.

Back Charges: Buyer shall not make purchases nor shall Buyer incur any labor that would result in a back charge to Seller without prior written consent of an authorized employee of Seller.

Shortages: Xylem will not be responsible for apparent shipment shortages or damages incurred in shipment that are not reported within two weeks from delivery to the jobsite. Damages should be noted on the receiving slip and the truck driver advised of the damages. Please contact our office as soon as possible to report damages or shortages so that replacement items can be shipped and the appropriate claims made.

Terms of delivery: Freight PP/Line Item

Time of delivery: Approx. 12-14 working weeks after release of order.

Terms of payment: 100% N60 after invoice date – upon acceptance of purchase order and credit review

Please note: If this is an FM Factory certified product it must be serviced by an EX/FM Flygt manufacture trained technician through an approved Xylem Flygt repair shop to retain qualifying status of product to retain the "EX/FM" designation.

Our current delivery lead-times are forecasted estimates only due to the outbreak of the COVID-19 virus pandemic and its global effects on commerce, supply chain, and logistics. Xylem will, however, use all commercially reasonable efforts to minimize any delivery delay impacts.

Thank you for the opportunity to provide this quotation. Please contact us if there are any questions.

Sincerely,



Kirsten Royals
Senior Technical Inside Sales III
Phone: 678-804-5692
Cell: 404-831-4726
kirsten.royals@xylem.com
Fax: 770-932-4321



Xylem Water Solutions USA, Inc.
Flygt Products

Customer Acceptance

This order is subject to the Standard Terms and Conditions of Sale – Xylem Americas effective on the date the order is accepted which terms are available at <http://www.xyleminc.com/en-us/Pages/terms-conditions-of-sale.aspx> and incorporated herein by reference and made a part of the agreement between the parties.

A signed copy of this Quote is acceptable as a binding contract.

Purchase Orders: Please make purchase orders out to: Xylem Water Solutions USA, Inc.

Quote #: 2023-SAV-0313
Customer Name: BRUNSWICK-GLYNN JNT SWR & WTR
Job Name: Influent Pump Replacement
Total Amount: \$ 150,507.40
(excluding freight)

Signature: _____	Name: _____ (PLEASE PRINT)
Company/Utility: _____	PO: _____
Address: _____	Date: _____
_____	Phone: _____
_____	Email: _____
_____	Fax: _____





Goforth Williamson, Inc.
 Mail To: 373 O'Dell Road
 Ship To: 377 O'Dell Road
 Griffin, GA 30224
 United States of America

Ph: 770-467-0303

Fax: 770-467-0301

Quote

ID: P222643

Date: 02-May-23

To

Brunswick Glynn County Joint Water & Sewer
 1703 Gloucester St
 Brunswick, GA 31520
 United States of America

Quote To

SAME

Ph: 912-261-7100

Fax: 912-261-7178

Terms		Ship Via		Salesperson
Net 30 Days		Pre-Pay& ADD		JLEGAN
Quantity	Description	Unit Price	Amount	
	Reference: Academy Creek Yeoman PER YOUR REQUEST, WE ARE PLEASED TO QUOTE THE FOLLOWING:			
1	Line: 001 Part: 92763813 S2.40.A100.1070.8.70H.C.523.G S2.40.A100.1070.8.70H.C.523.G.EX.D.611.Z Grundfos Submersible Solids Handling Pump 10" Horizontal Flanged Discharge / 3-15/16" Solids 2 Channel Enclosed Impeller 107 hp 882rpm 460/3/60 Explosion Proof Motor Seal Leakage Detector / Winding Thermal Switches 49 ft Long EMC Cord ea	Expiration Date: 01-Jun-23 Rev:	\$57,426.00	\$57,426.00
1	Line: 002 Part: 10" GRUNDFOS TO 12" YEOMANS Adapter Scope of Work: 1. Machine/manufacture the following: a) 1 ea. – Grundfos to Yeomans Adapter Note: Customer must be able to provide the existing Yeomans guide claw. This adapter does not replace the existing guide claw, but rather converts it for use with an ANSI discharge pump. For the above scope of work, GWI Quotes:	Expiration Date: 01-Jun-23 Rev: BUDGET	\$4,450.00	\$4,450.00



Goforth Williamson, Inc.
 Mail To: 373 O'Dell Road
 Ship To: 377 O'Dell Road
 Griffin, GA 30224
 United States of America

Ph: 770-467-0303

Fax: 770-467-0301

Quote

ID: P222643

Date: 02-May-23

To

Brunswick Glynn County Joint Water & Sewer
 1703 Gloucester St
 Brunswick, GA 31520
 United States of America

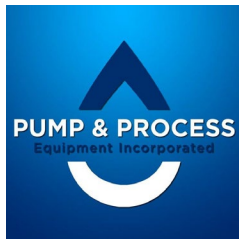
Quote To

SAME

Ph: 912-261-7100

Fax: 912-261-7178

Terms		Ship Via		Salesperson
Net 30 Days		Pre-Pay& ADD		JLEGAN
Quantity	Description	Unit Price	Amount	
1	Line: 003 Part: SHIPPING & HANDLING CHARGES Shipping & Handling Charges In Bound Standard Ground Shipping Charges ea	Expiration Date: 01-Jun-23 Rev:	\$800.00	
	Quote prepared by Jesse Larios PLEASE NOTE: 1. Freight: FOB Origin, ground freight prepaid and charged to curbside of first location. 2. Price "does not" reflect Sales Tax, Documentation, Drawings, or Special Paperwork. 3. We can now accept Visa, Mastercard, American Express and Discover. Please contact us if you would like to pay via credit card. 4. Please reference Quote on Purchase order and send your Purchase orders to PurchaseOrders@GoforthWilliamson.com THANK YOU FOR THE OPPORTUNITY TO PROVIDE THIS QUOTE. PLEASE CALL 770-467-0303, OR YOUR SALES REP, IF YOU HAVE ANY QUESTIONS.	Total:	\$62,676.00	



Pump and Process Equipment

8343 Roswell Road, Suite 315
Atlanta, GA 30350
Cell (912) 659-6180
Office (770) 814-0402

Sales
Service
Support

April 28, 2023

Quote #23-1092G

To: David Grantham @ BGJWSC
From: Jay Boudreaux @ Pump & Process Equipment, Inc.
Re: Academy Creek Influent Pump

Pump and Process Equipment, Inc. is pleased to offer the following equipment for your consideration:

- (1) KSB Model KRT K 300-400/1006XNG-K Dry Pit Submersible Pump
121 HP, 460/3/60, 50ft Cable
- (1) Cooling Jacket
- (1) ANSI Discharge Flange to Mate to Existing Claw
- (1) Pump Safe Relay with Base
- (1) Seven Year Warranty
- (1) Submittals, Start-Up and O&M Manuals

Price **\$64,985.00 price including freight**

Note: Taxes not included. Terms are NET 30.

We appreciate the opportunity to offer this proposal for your approval and look forward to earning your business. Should you have any questions or need any additional information please do not hesitate to contact us.

Sincerely,

Jay Boudreaux

Jay Boudreaux
Pump and Process Equipment Inc.
jay@pumpandprocess.net
912-659-6180

Data sheet



Customer item no.:
Communication dated: 28/04/2023
Doc. no.: JWSC Influent Pump
Quantity: 1

Number: ES 8002374626
Item no.: 100
Date: 28/04/2023
Page: 1 / 6

KRTK 300-400/1006XNG-K

Version no.: 1

Operating data

Requested flow rate	6250.00 US GPM	Actual flow rate	6251.68 US GPM
Requested developed head	53.00 ft	Actual developed head	53.03 ft
Pumped medium	Wastewater, municipal untreated	Efficiency	83.9 %
Pumped medium details	Not containing chemical and mechanical substances which affect the materials	Power absorbed	102.70 HP
Ambient air temperature	68.0 °F	Pump speed of rotation	1183 rpm
Fluid temperature	104.0 °F	Shutoff head	95.18 ft
Fluid density	64.175984 lb/ft ³	Design	Single system 1 x 100 %
Fluid viscosity	0.0010 in ² /s	Performance test	No
Max. power on curve	102.89 HP		
			Tolerances to ISO 9906 Class 3B; below 10 kW acc. to paragraph 4.4.2

Design

Design	Close-coupled submersible	Impeller type	Multivane radial flow impeller (K)
Orientation	Vertical	Wear ring	Casing wear ring
Suction flange pump drilled according to(DN1)	unmachined	Impeller diameter	14.96 in
Discharge flange pump drilled according to(DN2)	ASME B 16.1 / NPS 12 / CL 125 / FF	Free passage size	3.9 in
Shaft seal	2 mech. seals in tandem arrangement with oil reservoir	Direction of rotation from drive	Clockwise
Shaft seal manufacturer	KSB	Ex protection	Explosion protection to NEC Class1, Div 1, Gr.C, D T3
Type (MS inboard)	MG	Temperature sensor PT100 inboard	With
Material code (MS inboard)	SIC/SIC/NBR	Color	Ultramarine blue (RAL 5002) KSB-blue

Driver, accessories

Driver type	Electric motor	Motor winding	460 V
Model (make)	KSB	Number of poles	6
Motor const. type	KSB Sub. motor	Starting mode	Direct-on-line starting
NEMA code letter	F	Connection mode	Delta
Frequency	60 Hz	Motor cooling method	closed-circuit jacket cooling
Rated voltage	460 V	Motor cooling jacket	With
Rated power P2	121.00 HP	Motor version	X
Available reserve	17.82 %	Cable design	Rubber hose
Rated current	140.0 A	Cable entry	Sealed along entire length
Starting current ratio	6	Power cable	AWG 3-4
Insulation class	H according IEC 34-1	Number of power cables	2
Type of protection	XP/II/1/CD	Control cable	AWG 15-10
Motor enclosure	IP68	Number of control cables	1
Cos phi at 4/4 load	0.88	Moisture sensor	With
Motor efficiency at 4/4 load	91.6 %	Cable length	49.21 ft
Motor service factor	1.15		
Temperature sensor	PTC resistor		

Data sheet



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KRTK 300-400/1006XNG-K

Version no.: 1

Materials G

Pump casing (101)	Cast iron A 48 Class 35 B	Casing wear ring (502.1)	Cast iron A 48 Class 35 B
Discharge cover (163)	Cast iron A 48 Class 35 B	Shaft protecting sleeve (524)	Chrome steel A 276 Type 420
Shaft (210)	Chrome steel ASTM A276 Type 420 T	Cooling jacket (66-2)	Stainless steel A 276 Type 316 Ti
Impeller (230)	Cast iron A 48 Class 35 B	Motor housing (811)	Cast iron A 48 Class 35 B
Bearing bracket (330)	Cast iron A 48 Class 35 B	Motor cable (824)	Chloroprene rubber
O-Ring (412)	Nitrile rubber NBR	Screw (900)	Stainless steel A 193 B8M

Packaging

IPPC Standard ISPM 15	Yes	Packaging for transport	Truck
Packaging category	B1 Wooden or plywood case, cover provided with polypropylene cellular sheet, outdoor storage up to 3 months	Outdoor storage at -40 °C to +50°C for up to 3 months. Packet must be covered. No corrosion protection, only transport protection.	
Packaging for storage	Indoor		

Nameplates

Nameplates language	International	Duplicate nameplate	With
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Installation parts

Scope of supply	Pump without installation parts
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Performance curve

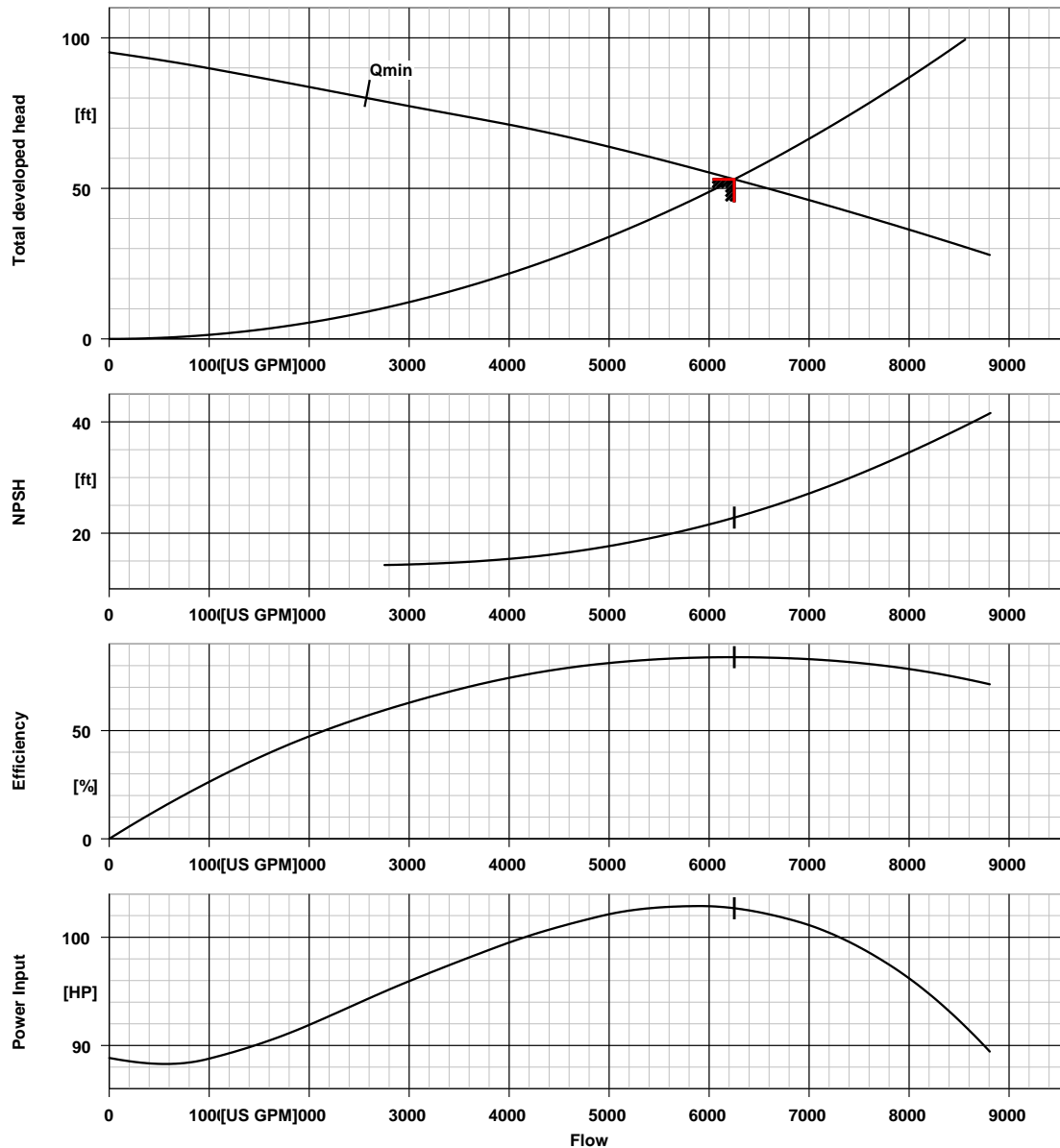


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Page: 3 / 6

KRTK 300-400/1006XNG-K

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Curve data

Speed of rotation	1183 rpm
Fluid density	64.175984 lb/ft ³
Viscosity	0.0010 in ² /s
Flow rate	6251.68 US GPM
Requested flow rate	6250.00 US GPM
Total developed head	53.03 ft
Requested developed head	53.00 ft

Efficiency	83.9 %
Power absorbed	102.70 HP
NPSH 3%	22.80 ft
Curve number	K41682/6
Effective impeller diameter	14.96 in
Acceptance standard	Tolerances to ISO 9906 Class 3B; below 10 kW acc. to paragraph 4.4.2

Motor data sheet



Customer item no.:
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Page: 4 / 6

KRTK 300-400/1006XNG-K

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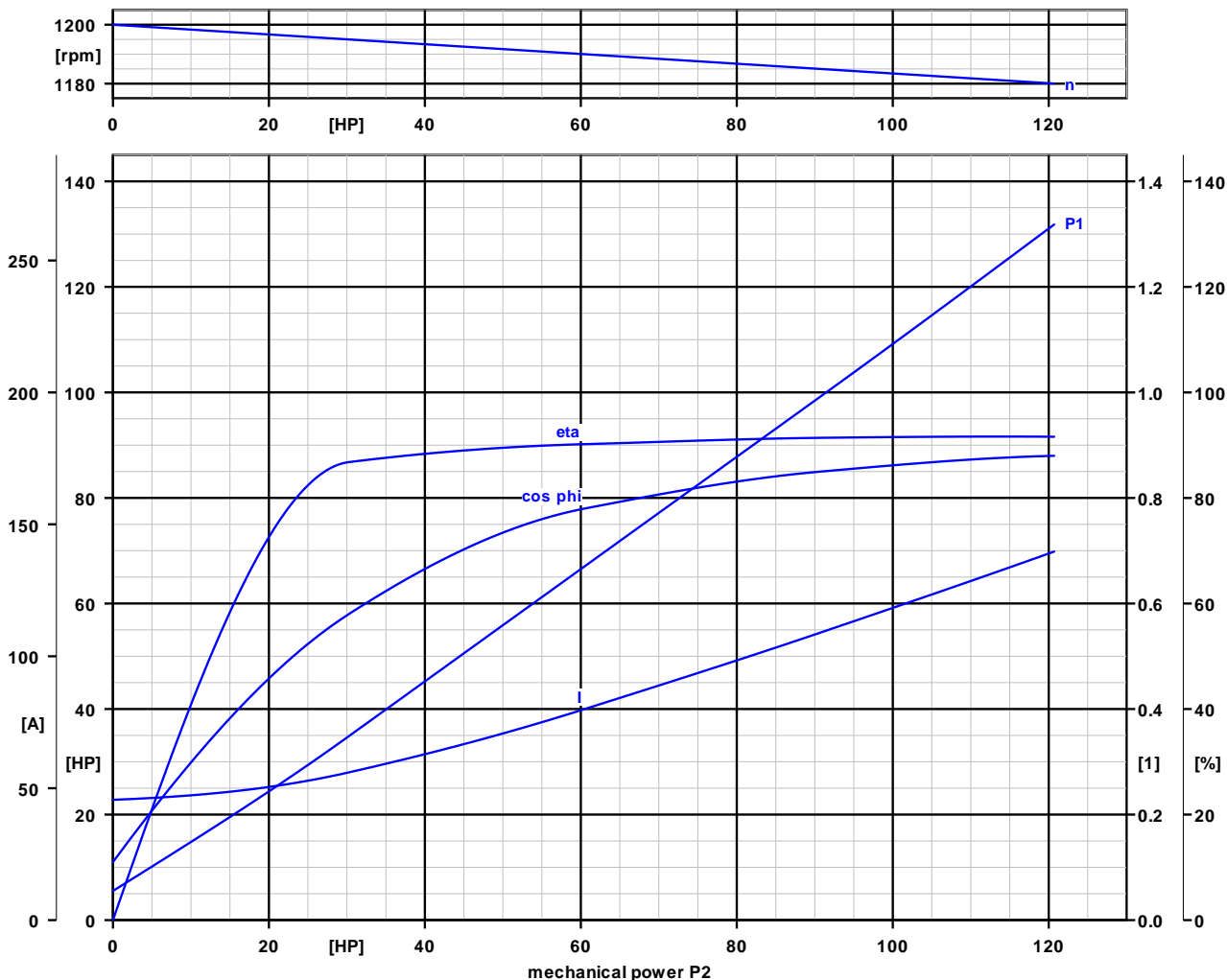
Motor data

Motor manufacturer	KSB	Starting mode	Direct-on-line starting
Motor size	100N	Power cable	AWG 3-4
Motor construction type	KSB Sub. motor	Number of power cables	2
Motor material	Grey cast iron EN-GJL-250	Power cable Ø min.	1.06 in
Efficiency class	not classified	Power cable Ø max.	1.13 in
Rated voltage	460 V	Control cable	AWG 15-10
Frequency	60 Hz	Number of control cables	1
Motor power	121.00 HP	Ctrl. cable diameter, min.	0.63 in
Rated current	140.0 A	Ctrl. cable diameter, max.	0.67 in
Rated speed	1180 rpm	Cable standard	NEC
Starting current ratio	6	Switching frequency	10.00 1/h

Curve data

The no-load point is not a guarantee point within the meaning of IEC 60034

Load	0.0 %	25.0 %	50.0 %	75.0 %	100.0 %
P2	0.00 HP	30.25 HP	60.49 HP	90.75 HP	121.00 HP
n	1200 rpm	1195 rpm	1190 rpm	1185 rpm	1180 rpm
P1	5.53 HP	34.87 HP	67.05 HP	99.24 HP	132.16 HP
I	45.6 A	56.0 A	80.0 A	109.0 A	140.0 A
Eta	0.0 %	86.8 %	90.2 %	91.4 %	91.6 %
cos phi	0.11	0.58	0.78	0.85	0.88



Installation plan

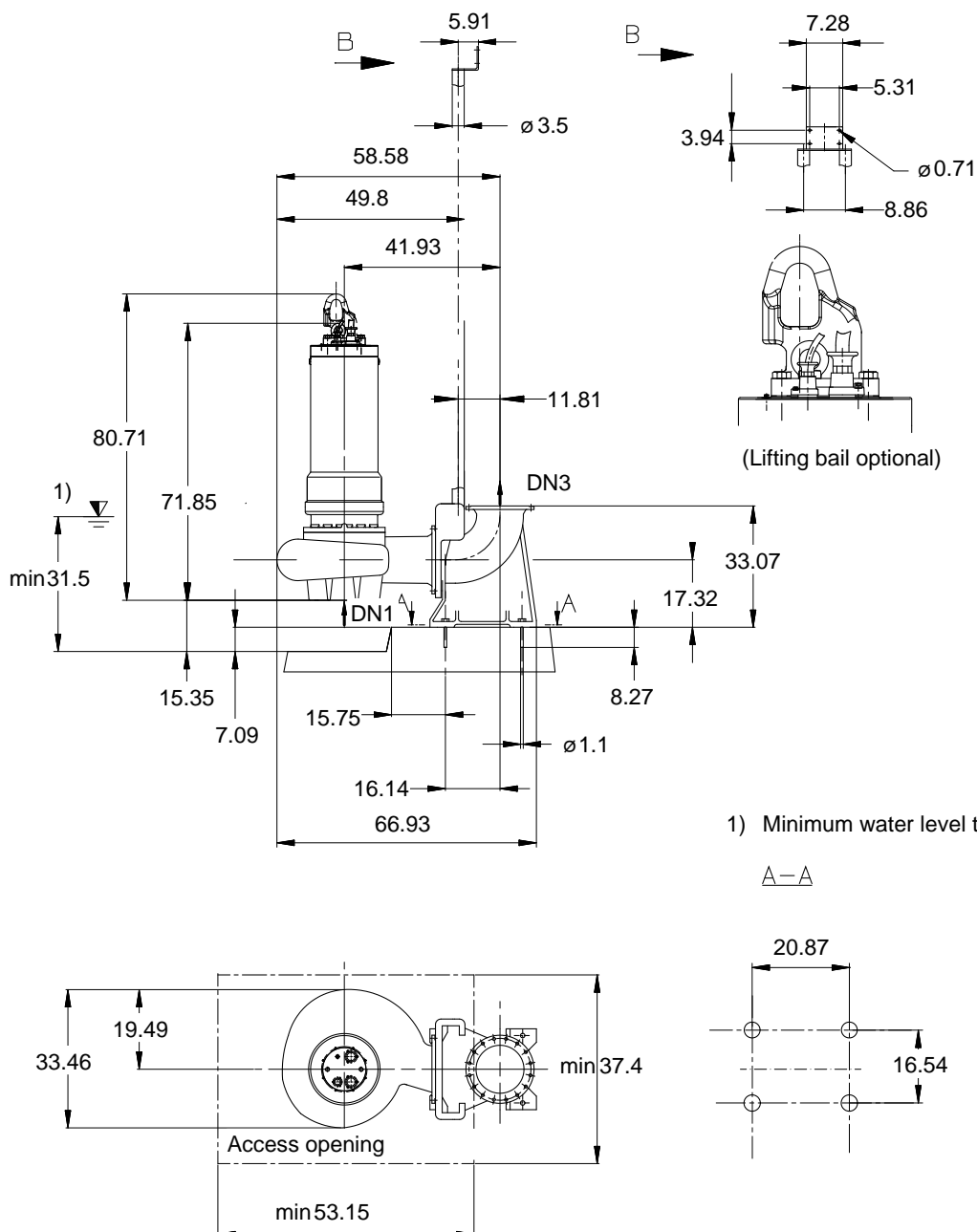


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KRTK 300-400/1006XNG-K

Version no.: 1



Drawing is not to scale

Dimensions in in

Installation plan



Customer item no.:
Communication dated: 28/04/2023
Doc. no.: JWSC Influent Pump
Quantity: 1

Number: ES 8002374626
Item no.:100
Date: 28/04/2023
Page: 6 / 6

KRTK 300-400/1006XNG-K

Version no.: 1

Motor

Motor manufacturer	KSB
Motor size	100N
Motor power	121.00 HP
Number of poles	6
Speed of rotation	1180 rpm
Motor enclosure	IP68

Connections

Suction flange pump drilled according to(DN1)	unmachined
Discharge flange pump drilled according to(DN2)	ASME B 16.1 / NPS 12 / CL 125 / FF

Weight net

Pump, Motor, Cable	3124 lbm
Total	3124 lbm

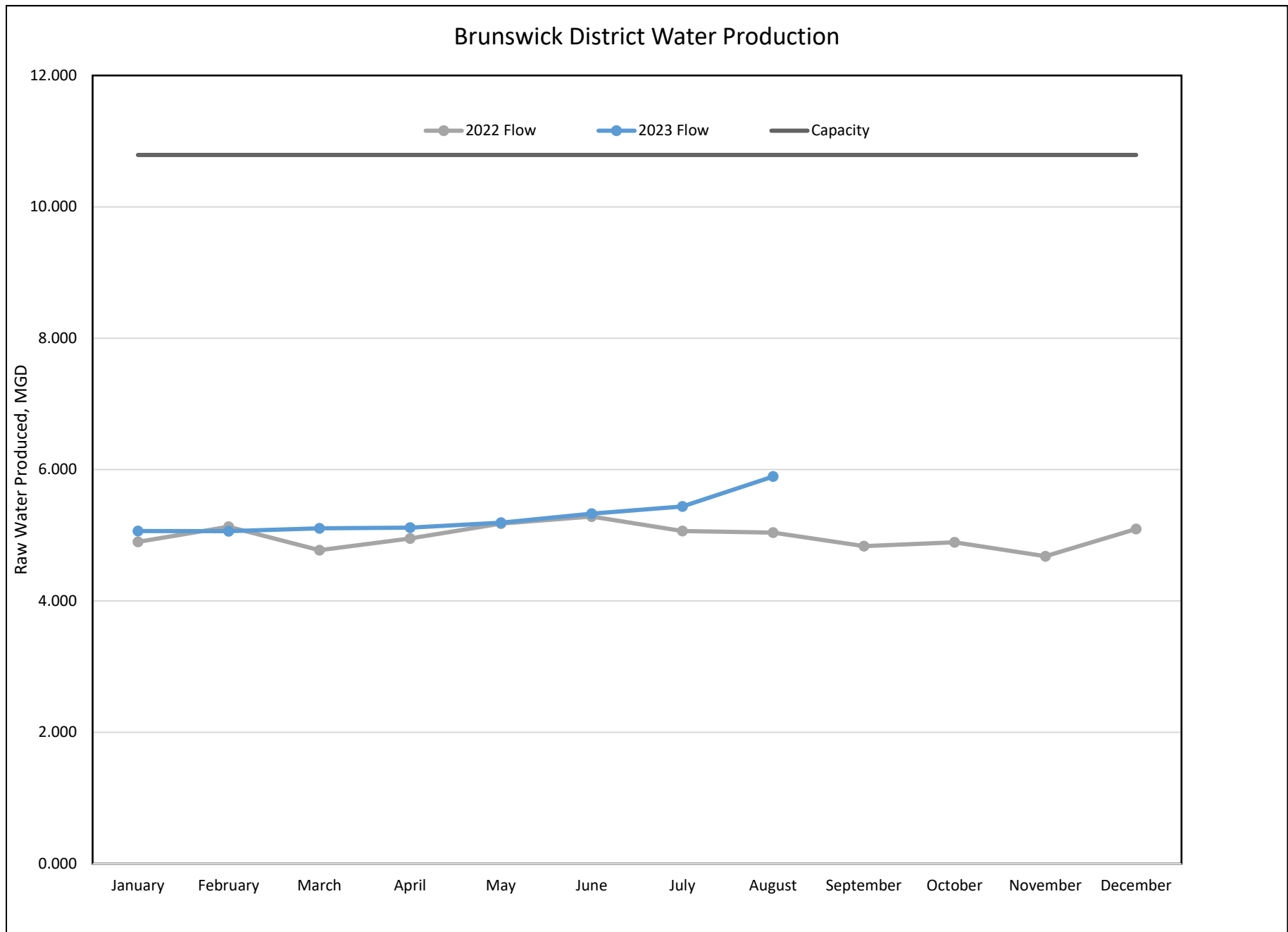
For auxiliary connections see separate drawing.

Connect pipes without stress or strain!

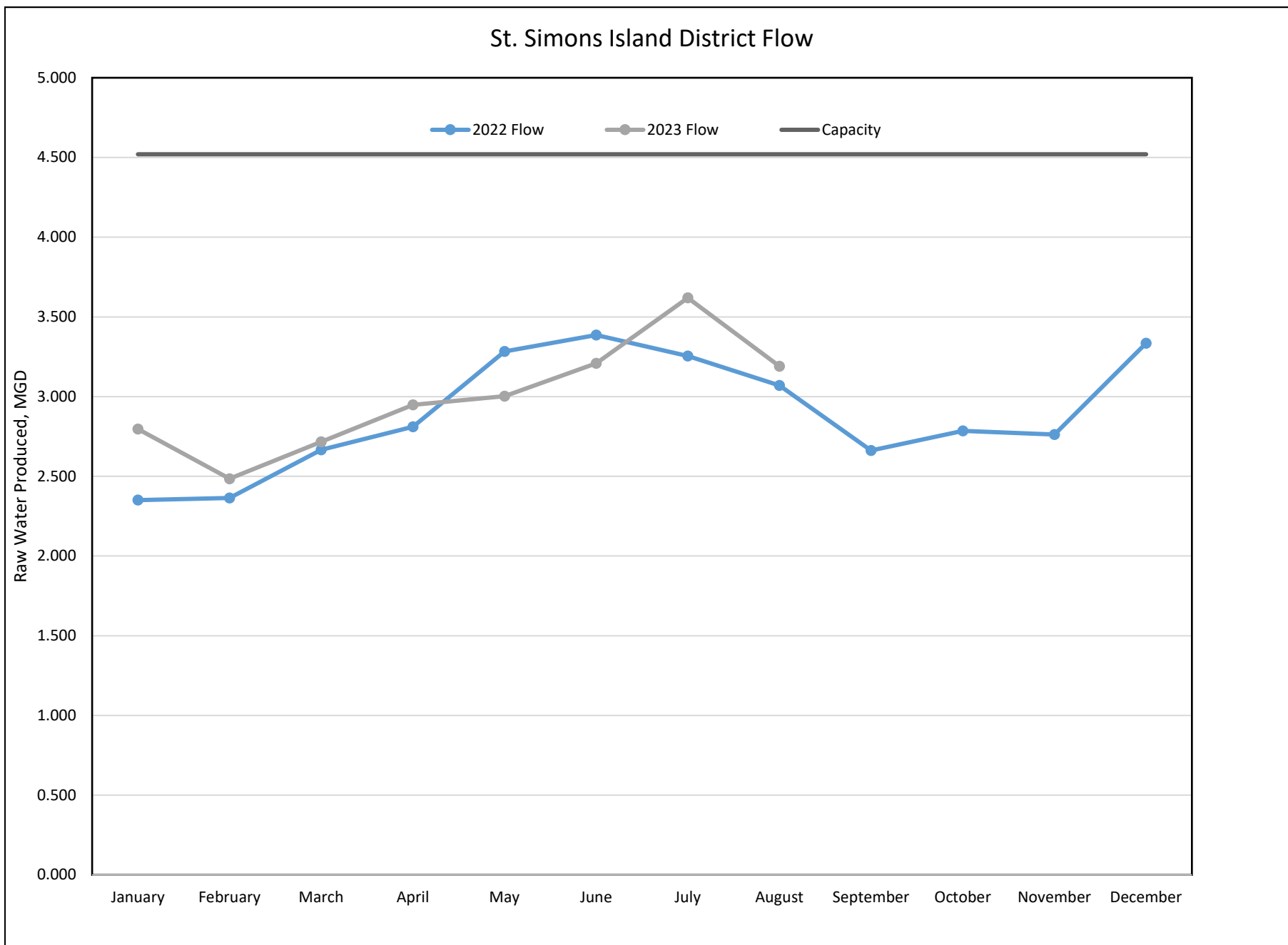
Dimensional tolerances for shaft axis height: DIN 747
Dimensions without tolerances, middle tolerances to:
Connection dimensions for pumps:
Dimensions without tolerances - welded parts:
Dimensions without tolerances - gray cast iron parts:
Dimensions without tolerances - stainless steel parts:

ISO 2768-m
EN735
ISO 13920-B
ISO 8062-CT11
ISO 8062-CT12

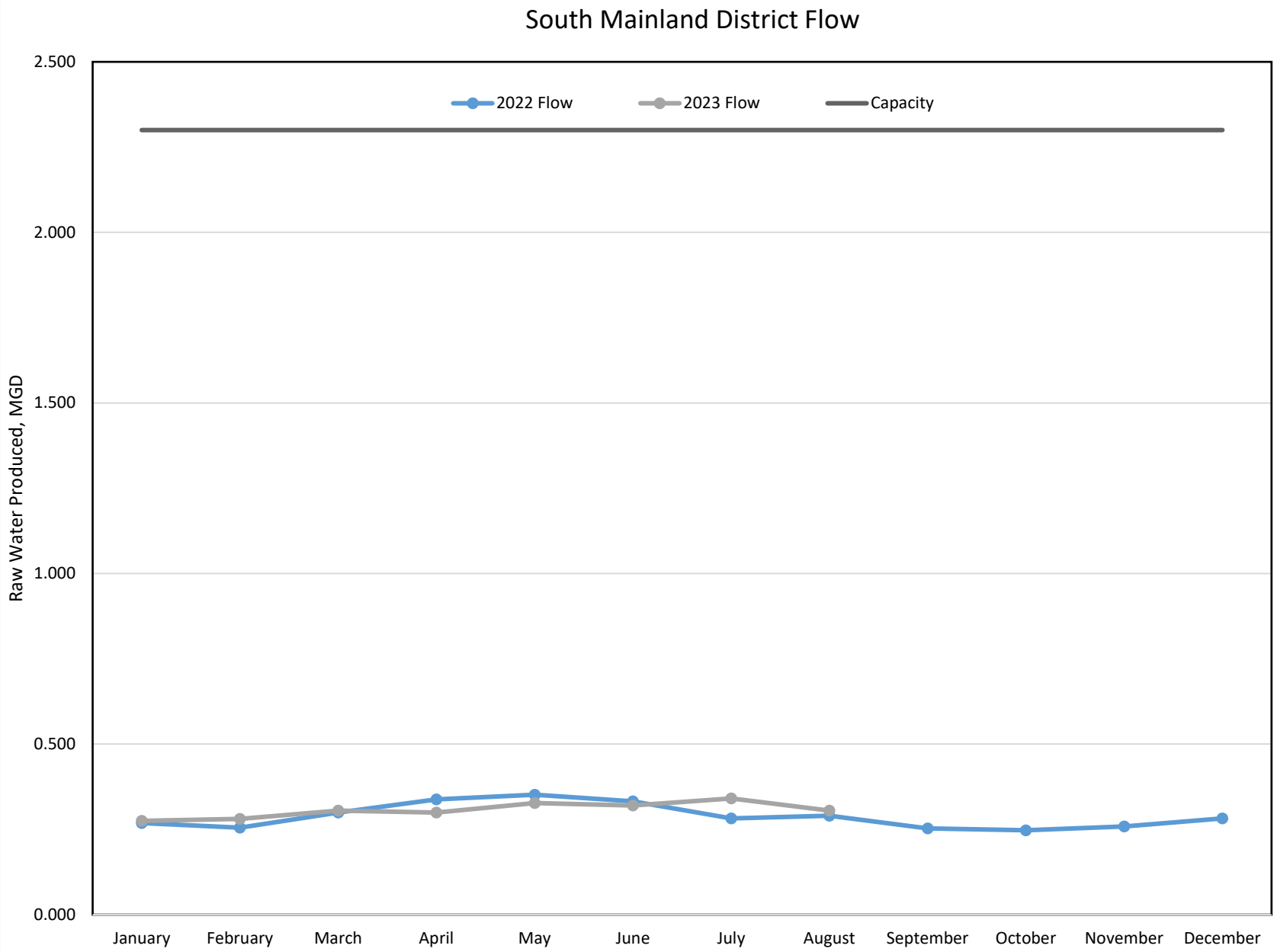
Brunswick District	TOTAL WATER PRODUCED (MG)									DAILY AVERAGE (MGD)									Total Produced	Daily Average	Taste/Odor Complaints
	Month	Howard Coffin	Goodyear Park	Brunswick Villa	FLETC	I-95	Golden Isles I	Golden Isles II	Canal	Ridgewood	Howard Coffin	Goodyear Park	Brunswick Villa	FLETC	I-95	Golden 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	1
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	2
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	3
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	0
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	1
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	0
August 2023	27.962	29.920	24.009	8.358	36.989	13.259	17.443	0.005	24.775	0.902	0.965	0.774	0.270	1.193	0.428	0.563	0.000	0.799	182.720	5.894	
September 2023																					
October 2023																					
November 2023																					
December 2023																					
Average	27.680	19.643	25.539	4.511	35.626	10.114	15.024	0.011	21.673	0.754	0.648	0.840	0.148	1.172	0.332	0.494	0.000	0.712	155.095	5.101	1
Max	44.313	32.261	42.688	9.374	40.867	13.259	18.202	0.105	25.557	1.441	1.041	1.377	0.302	1.318	0.428	0.587	0.003	0.852	182.720	5.894	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	39.127	23.427	22.195	14.140	1.262	0.756	0.716	0.456	98.889	3.190	1
September 2023											
October 2023											
November 2023											
December 2023											
Average	33.952	27.405	20.142	7.862	1.115	0.900	0.662	0.258	89.361	2.935	1
Max	43.067	44.361	30.002	14.140	1.436	1.431	0.968	0.456	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

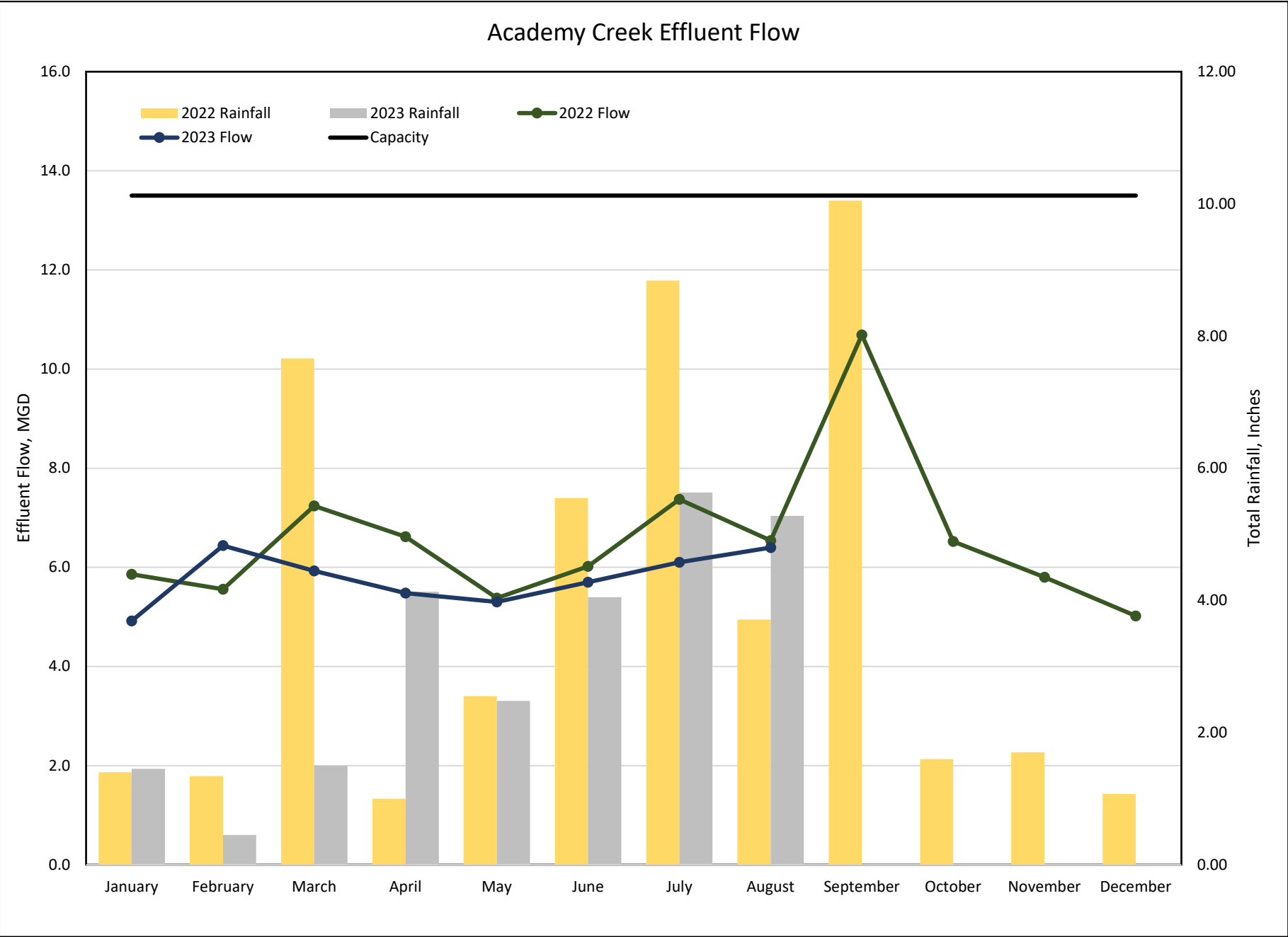


South Mainland District	TOTAL WATER PRODUCED (MG)			DAILY AVERAGE (MGD)			Total Produced	Daily Average	Taste/Odor Complaints
Month	Fancy Bluff	Exit 29	Brookman	Fancy Bluff	Exit 29	Brookman			
January 2022	2.937	0.003	5.387	0.095	0.000	0.174	8.327	0.269	
February 2022	3.895	0.010	3.226	0.139	0.000	0.115	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	4.710	0.005	4.748	0.152	0.000	0.153	9.463	0.305	0
September 2023									
October 2023									
November 2023									
December 2023									
Average	4.341	0.005	4.647	0.143	0.000	0.153	8.993	0.296	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	6.9	0.2	6.4	47%	7.1	187.8	123	128	19.5	11.1	6.3	61.7	6.6	3	3	0.7	0.04	28	3.9	97.56%	97.66%	2.25	5.28	9.676	74.41
September 2023																									
October 2023																									
November 2023																									
December 2023																									
Average	6.4	0.7	6.2	46%	7.4	186.6	197	194	19.7	10.7	6.4	90.3	6.6	5.9	4.6	3.8	0.05	6	5.5	97.00%	97.70%	1.36	3.57	7.333	73.59
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	28	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	123	128	10.9	4.2	6.1	61.7	5.0	3.0	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%				

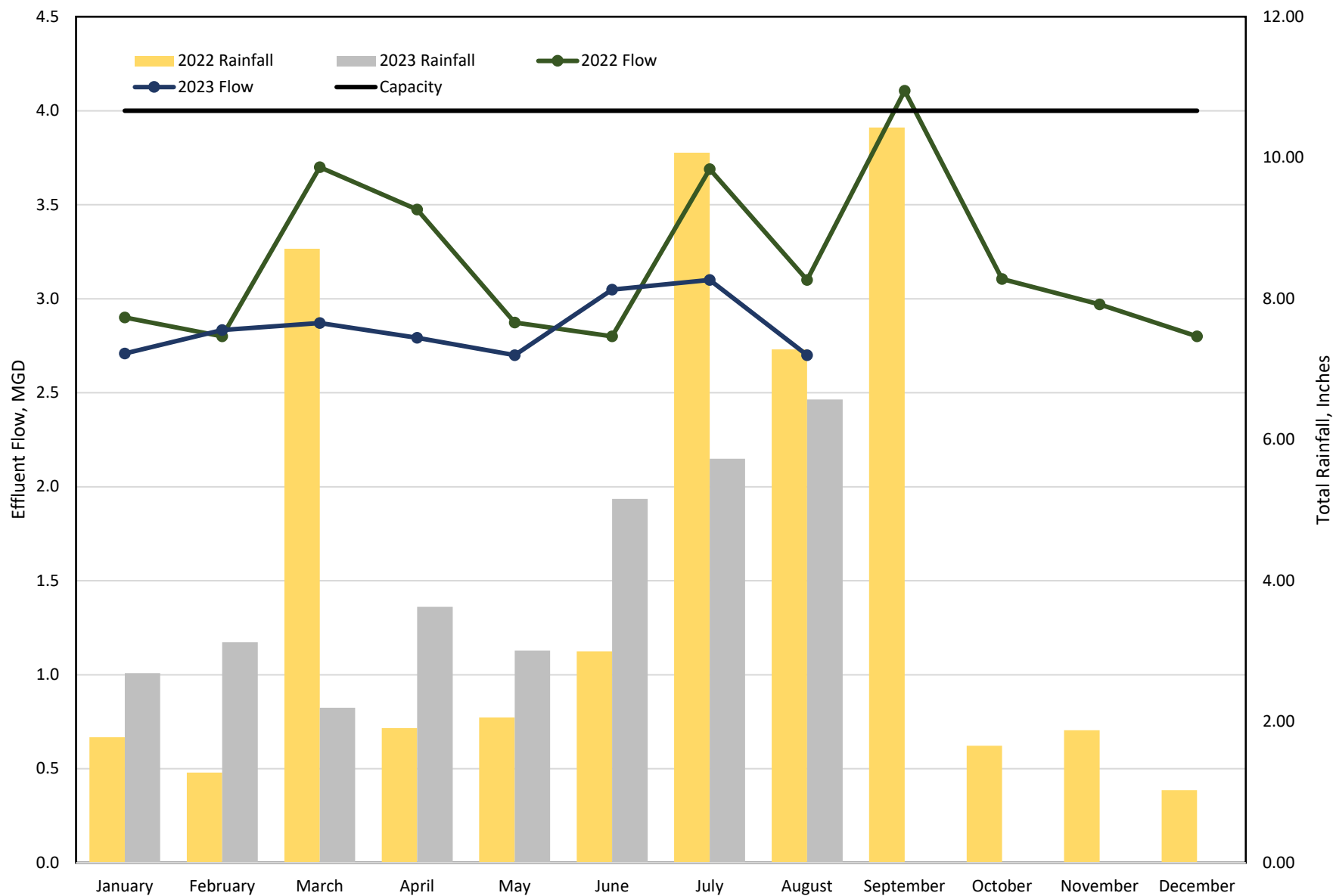
BOD - Biochemical Oxygen Demand
TSS - Total Suspended Solids
NH3 - Ammonia (Limit Changed June 2023)
Phos - Phosphorus
D.O. - Dissolved Oxygen
TRC - Total Residual Chlorine
Entero. - Enterococci Bacteria



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	2.9	2.7	68%	7.0	223.4	161	161	23.0	3.55	7.0	57.9	7.2	3.0	3.0	0.8	9	2.8	98.14%	98.14%	2.23	6.57	3.207	28.10
September 2023																							
October 2023																							
November 2023																							
December 2023																							
Average	3.0	3.1	76%	7.1	230.1	186.4	214.6	23.7	3.66	7.2	63.2	7.7	3.2	3.1	1.0	7	1.8	98.22%	98.48%	1.6	4.2	1.266	27.43
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	2.8	98.89%	99.14%	4.1	10.4	3.207	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%				

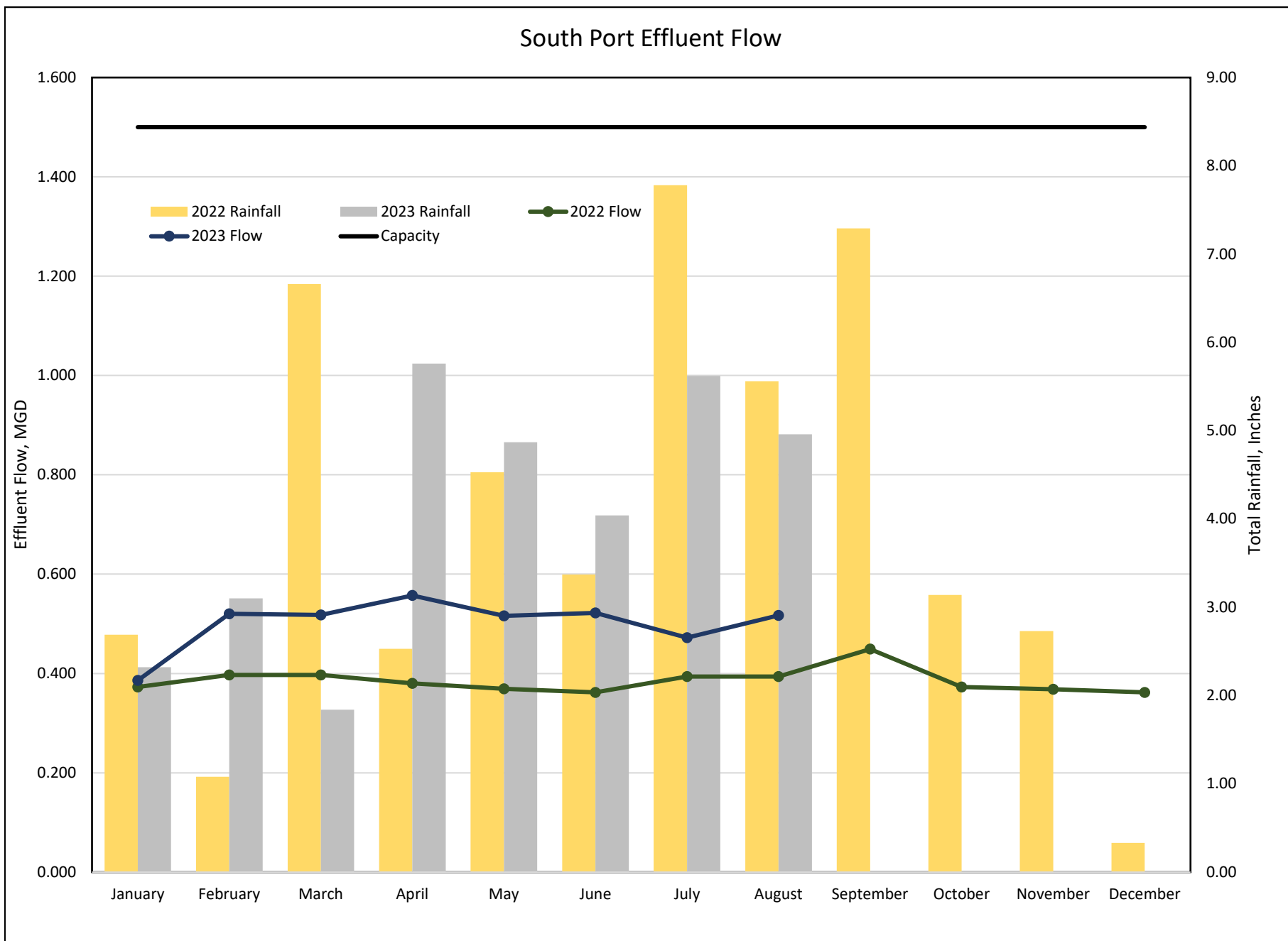
BOD - Biochemical Oxygen Demand
TSS - Total Suspended Solids
NH3 - Ammonia
Phos - Phosphorus
D.O. - Dissolved Oxygen
TRC - Total Residual Chlorine
Entero. - Enterococci Bacteria

Dunbar Creek Effluent Flow



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	0.432	0.517	34%	7.1	194.4	149	138	20.9	4.20	7.7	42.7	6.2	4.0	3.0	0.4	1	2.6	97.32%	97.83%	1.54	4.96	0.004	4.04
September 2023																							
October 2023																							
November 2023																							
December 2023																							
Average	0.330	0.431	29%	7.0	217.2	157.5	174.4	27.2	4.24	7.6	57.5	8.2	5.1	3.4	1.3	3	2.4	96.71%	98.04%	1.6	4.0	0.039	3.48
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 – September 2023

#2016 ARCO AREA WATER AND SEWER EXTENSION (49% - DECEMBER 2023)



1. Robert Lindsay (PCD Inspector) and UWS Crew members are preparing for the water line connection at 9th Street and Emanuel Avenue.
2. Alvin Hall (WDD Supervisor) and Patrick Limano (WDD Crew Leader) performing valve exercises at 8th Street and Emanuel Avenue.
3. Jason Waldrop (UWS Superintendent) and UWS Crew Members are preparing for the water line connection to use 6-inch HYMAX coupling at 9th Street and Pine Street.

Facility Construction Project Photos – September 2023

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



1. A 2-inch galvanized line segment with fittings and valve removed from the City of Brunswick District.
2. A 2-inch galvanized line segment was removed in the Saint Simons Island District.
3. Various 2-inch galvanized fittings and line segments with 1-inch tee removed from the North Mainland District.

Facility Construction Project Photos – September 2023

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



1. Dennis Richardson (M&E Meter Tech) is preparing for 1-inch water meter replacements at the Kut-Kwick Corporation at 1927 Newcastle Street in the City of Brunswick District.
2. M&E Meter Tech is preparing for 1-inch water meter replacements at the Friendly Express Gas Station at 4341 New Jesup Highway in the North Mainland District.
3. M&E Meter Tech is preparing for three 3/4-inch water meter replacements near Adams Meat Market at 1700 Norwich Street in the City of Brunswick District.

Facility Construction Project Photos – September 2023

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



1. Drone View of the Dunbar Creek plant from Sea Island Road.
2. Post-Aeration Basin Construction activities & mechanical installation are underway.
3. Black fiberglass enclosure cover installation is completed at Headworks.
4. AB#2 (right side) is online. Notice the difference? Aeration bubbles are finer & evenly distributed.

Facility Construction Project Photos – September 2023

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



1. Mall EST – Matt Lane (WPD Supervisor) & Tom Chapman (CTS Inspector) inspecting the temp welding repair completed. The leak was discovered during the tank filling in preparation for Hurricane Idalia.
2. Mall EST – View inside the valve pit vault – final painting and valve replacement are pending.
3. Oglethorpe EST – Tom Chapman preparing to perform a post-Hurricane Idalia leak repair inspection.
4. Oglethorpe EST – Overflow isolation valve leaking and is scheduled for valve replacement.
5. Oglethorpe EST – RPZ and Yard Hydrant Station were recently installed for routine cleaning.

Facility Construction Project Photos – September 2023

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



1. Mike Fields (PCD Senior Inspector) and James Merritt (PopCo Superintendent) performing public notification and discussing planned construction activities with Sonny's BBQ Restaurant Manager.
2. PopCo crewmembers are performing excavation activities in preparation for sewer bypass tie-in.
3. Sunbelt (Subcontractor) preparing Sewer bypass piping fusion.
4. PopCo crewmembers are performing valve assemblies in preparation for sewer bypass tie-in.

									BUDGET VS. EXPENDITURES														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	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 Budget Remaining (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	\$188,745	\$2,110,071	\$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	\$6,853,990	\$6,853,990	\$11,671,433	\$578,172	\$12,249,605	\$1,285,950	\$65,718	\$50,107	\$1,401,775	\$5,452,215	20.45%	Record drawings under review. Awaiting schedule from contractor for rework on sludge offloading facility and filter hydraulics.		
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	\$2,500	\$1,024,847	\$1,710,153	37.47%	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.		
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	\$ 843.00	\$301,124	-\$1,123.82	100.37%	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. EOPC 2.6M		
2021	Annual Galvanized Replacements Program	Jul 2023	Jul 2023	Const.	Simmons	JWSC	JWSC	JWSC	\$750,000	\$0	\$0	\$750,000	\$311,823	\$0	\$311,823	\$330,211	\$40,000	\$394	\$370,605	\$379,395	49.41%	Finalizing work in St. Clair, with paving repairs needed. Trying to acquire easement in El Dorado neighborhood to better loop that system with replacements.		
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 Muncpal Supply/Neptun e Technology Group	\$0	\$0	\$18,200,000	\$18,200,000	\$12,502,869	\$6,743,583	\$19,246,452	\$15,454,965	\$2,415,835	\$19,145	\$17,889,945	\$310,055	98.30%	Approximately 26,750 meters have been replaced to date. Overall meter replacement project is approximately 89% 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	\$1,642,724	\$2,310,539	\$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, CCTV sheduled for 09/20/23 . Awaiting paving mobilization/completion prior to beginning sewer installation on Phase II. Sewer Re-route design along Cochran in progress. Townsend St wm isolation in progress.		
2102	Canal Road Water Production Facility	Aug 2023	Nov 2024	Design	Kline/Vo	Thomas & Hutton	Thomas & Hutton	Reeves Young LLC	\$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%	Two bids were received. Staff and EOR are reviewing. Recommendation to Facilities Committee on 09/20/2023		
2103	NM Water Loops	Dec 2022	Sep 2024	Design	Kline/Vo	Four Waters Engineering, Inc.	Four Waters Engineering, Inc.	Vallencourt Counstruction	\$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%	Precon kickoff meeting is scheduled for 09/28/2023.		
2104	PS 4002 Rehab	TBD	Apr 2024	Design	Kline	Kimley-Horn	Kimley-Horn	PopCo Inc.	\$650,000	\$0	\$0	\$650,000	\$36,686	\$0	\$36,686	\$17,000	\$19,686	\$43,314	\$80,000	\$570,000	12.31%	Precon kickoff meeting held 09/14/2023. NTP pending contractor scheduling.		
2105	PS 4044 Rehab	Nov 2022	Sep 2024	Design	Kline/Vo	LEA	LEA	PopCo Inc.	\$550,000	\$0	\$0	\$550,000	\$79,350	\$0	\$79,350	\$53,450	\$25,900	\$0	\$79,350	\$470,650	14.43%	Precon kickoff meeting held 09/14/2023. NTP pending contractor scheduling.		
2106	Dunbar Creek Engineering	May 2022	May 2022	Const.	Burroughs	BRW/HGB	HGB	BRW	\$4,200,000	\$0	\$5,200,000	\$9,400,000	\$5,690,405	\$4,128,961	\$9,819,366	\$4,245,345	\$5,574,021	\$900	\$9,820,266	-\$420,266	104.47%	Mechanical installation of filters and UV is scheduled over the next month. Startup tentatively scheduled for week of 10/23/2023. AB2 is online and functioning well. Base contract completion expected in November with new clarifier expected to be complete by July 2024.		
2108	PS 4001 Rehab	TBD	Apr 2024	Design	Kline	Kimley-Horn	Kimley-Horn	PopCo Inc.	\$400,000	\$0	\$0	\$400,000	\$18,643	\$0	\$18,643	\$13,647	\$4,996	\$21,657	\$40,300	\$359,700	10.08%	Precon kickoff meeting held 09/14/2023. NTP pending contractor scheduling.		
2109	Hwy 17 North Pump Station	TBD	TBD	On Hold	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%	Bid alternate for HDPE and FRP wet well included in the Bid Form. Finalizing re-advertising		
2110	PS 3101 Rehab	TBD	Apr 2024	Design	Kline	Kimley-Horn	Kimley-Horn	PopCo Inc.	\$375,000	\$0	\$0	\$375,000	\$18,643	\$0	\$18,643	\$13,647	\$4,996	\$21,657	\$40,300	\$334,700	10.75%	Precon kickoff meeting held 09/14/2023. NTP pending contractor scheduling.		
2201	Academy Creek RAS Replacements	TBD	TBD	Design	Burroughs	JWSC	JWSC	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	JWSC	JWSC	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 September.		
2204	PS 2056 Pumps and FM Improvements	TBD	TBD	Design	Kline/Vo	JWSC	JWSC	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%	Design package pending final electrical drawings for construction advertisement.		
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.		
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	\$281,640	\$269,540	\$0	\$551,180	\$2,198,820	20.04%	90% submittal received and EOPC is \$5.3M. Preparing various permitting packets.		

									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 Budget Remaining (Original Approved Budget - Total Expenditures)		
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	\$250,000	\$0	\$0	\$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. Pre-construction meeting held on 08/17/2023. 120-day contract. 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/Patel	JWSC	JWSC	TBD	\$0	\$0	\$3,000,000	\$3,000,000	\$16,663	\$0	\$16,663	\$16,663	\$0	\$0	\$16,663	\$2,983,337	0.56%	In-house Engineering plans in progress. GA power +/- 1.5 years away from extending power to site. Staff looking at different ways to operate tank and electrical components. David Grantham is reviewing electrical plans. Finalizing Plan set and specifications for EPD submission. Entrance road improvements will be required.
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	Nov 2023	Const.	Kline	JWSC	JWSC	PopCo Inc. & Bio-Nomics Services, Inc.	\$0	\$0	\$679,000	\$679,000	\$679,000	\$0	\$679,000	\$0	\$679,000	\$0	\$679,000	\$0	100.00%	GDOT GUPS Permit approved. Crews mobilized and construction activties ongoing 09/11/2023.
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. Provided EOR PS3113 FN reroute survey 09/01/2023. EOR is working on 30% submittal package.
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.
									\$34,135,500	\$13,985,000	\$50,611,585	\$98,732,085	\$42,645,816	\$11,745,540	\$54,391,356	\$27,084,045	\$15,060,583	\$607,161	\$42,751,789	\$55,980,296		

Phase	Amount
Master	1
Design	21
Const.	10
On Hold	10
Complete	3
Total Projects	45

Project Director/ Project Manager	Total PO+CO	Total Expenditures
Burroughs	\$24,725,894	\$14,048,779
Kline	\$1,820,961	\$1,910,631
Kline/Patel	\$4,004,854	\$4,004,853
Kline/Vo	\$1,962,172	\$1,962,172
Patel	\$1,458,746	\$1,427,195
Roberts/Head	\$19,246,452	\$17,889,945
Simmons	\$528,277	\$588,214
Young	\$0	\$0
Total	\$53,747,356	\$41,831,789

PM	Burroughs	Roberts	Kline	Vo	Patel	Simmons	Head	Young
Total PO+CO	\$24,725,894	\$19,246,452	\$7,787,987	\$1,962,172	\$5,463,600	\$528,277	\$19,246,452	\$0
Total Expenditures	\$14,048,779	\$17,889,945	\$7,877,656	\$1,962,172	\$5,432,048	\$588,214	\$17,889,945	\$0
Percentage Spent	56.82%	92.95%	101.15%	100.00%	99.42%	111.35%	92.95%	#DIV/0!
Total Projects (Includes Master/Sub-projects)	10	1	25	9	8	3	1	1

ID	Task Name	Duration	Scheduled Start	Scheduled Finish	Actual Start	Actual Finish	Gantt Chart																																															
1	Engineering	2031 days	Thu 11/15/18	Thu 6/6/24	Thu 11/15/18	NA	Engineering																																															
6	PS 4105-4107 and FM (In-house)	330 days	Tue 11/1/22	Thu 9/28/23	Tue 11/1/22	NA	PS 4105-4107 and FM (In-house)																																															
13	Brunswick Villa Area Sewer Extensions	308 days	Fri 12/2/22	Thu 10/5/23	Fri 12/2/22	NA	Brunswick Villa Area Sewer Extensions																																															
17	SPLOST Exit 29 WPF EST	330 days	Thu 7/13/23	Thu 6/6/24	Thu 7/13/23	NA	SPLOST Exit 29 WPF EST																																															
18	Community Road W&S Extension	1172 days	Mon 6/22/20	Thu 9/7/23	Mon 6/22/20	NA	Community Road W&S Extension																																															
27	Advertisement	1734 days	Fri 10/25/19	Tue 7/23/24	Fri 10/25/19	NA	Advertisement																																															
34	PS 4105-4107 and FM (In-house)	47 days	Fri 9/29/23	Tue 11/14/23	NA	NA	PS 4105-4107 and FM (In-house)																																															
49	Brunswick Villa Area Sewer Extensions	47 days	Fri 10/6/23	Tue 11/21/23	NA	NA	Brunswick Villa Area Sewer Extensions																																															
50	SPLOST Exit 29 WPF EST	47 days	Fri 6/7/24	Tue 7/23/24	NA	NA	SPLOST Exit 29 WPF EST																																															
51	Community Road W&S Extension	47 days	Fri 9/8/23	Tue 10/24/23	NA	NA	Community Road W&S Extension																																															
53	Contract Administration	1767 days	Wed 11/6/19	Fri 9/6/24	Wed 11/6/19	NA	Contract Administration																																															
59	Community Road W&S Extension	45 days	Wed 10/25/23	Fri 12/8/23	NA	NA	Community Road W&S Extension																																															
61	Canal Road Water Production Facility	45 days	Fri 9/8/23	Sun 10/22/23	Fri 9/8/23	NA	Canal Road Water Production Facility																																															
68	Brunswick Villa Area Sewer Extensions	45 days	Wed 11/22/23	Fri 1/5/24	NA	NA	Brunswick Villa Area Sewer Extensions																																															
69	SPLOST Exit 29 WPF EST	45 days	Wed 7/24/24	Fri 9/6/24	NA	NA	SPLOST Exit 29 WPF EST																																															
70	PS 4105-4107 and FM (In-house)	45 days	Wed 11/15/23	Fri 12/29/23	NA	NA	PS 4105-4107 and FM (In-house)																																															
80	Construction	2189 days	Thu 1/10/19	Mon 1/6/25	Thu 1/10/19	NA	Construction																																															
92	NM Water Loops	330 days	Thu 9/28/23	Mon 8/26/24	NA	NA	NM Water Loops																																															
93	Canal Road Water Production Facility	365 days	Mon 10/23/23	Mon 10/21/24	NA	NA	Canal Road Water Production Facility																																															
95	EST Rehab at Glynn Place Mall and Oglethorpe Sites	302 days	Fri 12/2/22	Fri 9/29/23	Fri 12/2/22	NA	EST Rehab at Glynn Place Mall and Oglethorpe Sites																																															
96	PS 4105-4107 and FM (In-house)	180 days	Mon 1/1/24	Fri 6/28/24	NA	NA	PS 4105-4107 and FM (In-house)																																															
107	PS4044 Rehab	330 days	Fri 9/29/23	Fri 8/23/24	NA	NA	PS4044 Rehab																																															
110	Dunbar Creek WPCF Rehab	435 days	Fri 10/21/22	Fri 12/29/23	Fri 10/21/22	NA	Dunbar Creek WPCF Rehab																																															
111	Annual Galvanized Replacements Program	365 days	Mon 7/3/23	Mon 7/1/24	Mon 7/3/23	NA	Annual Galvanized Replacements Program																																															
113	Community Road W&S Extension	365 days	Mon 12/11/23	Mon 12/9/24	NA	NA	Community Road W&S Extension																																															
114	Sea Palms East Water Line Rehab	1250 days	Tue 6/30/20	Fri 12/1/23	Tue 6/30/20	NA	Sea Palms East Water Line Rehab																																															
118	Village Drainage Improvements - Ph II	120 days	Tue 9/5/23	Tue 1/2/24	Tue 9/5/23	NA	Village Drainage Improvements - Ph II																																															
119	PS Rehab 3101-4001-4002	180 days	Fri 9/29/23	Tue 3/26/24	NA	NA	PS Rehab 3101-4001-4002																																															
120	Brunswick Villa Area Sewer Extensions	365 days	Mon 1/8/24	Mon 1/6/25	NA	NA	Brunswick Villa Area Sewer Extensions																																															
121	SPLOST Exit 29 WPF EST	540 days	Sat 9/7/24	Sat 2/28/26	NA	NA	SPLOST Exit 29 WPF EST																																															
122	Highway 341 and Crispend Blvd	45 days	Mon 9/11/23	Wed 10/25/23	Mon 9/11/23	NA	Highway 341 and Crispend Blvd																																															
123	Arco Area Water and Sewer Extension	663 days	Mon 3/7/22	Fri 12/29/23	Mon 3/7/22	NA	Arco Area Water and Sewer Extension																																															
Project: Capital Projects Gantt Chart Date: Fri 9/15/23		Task	<div></div>	Project Summary	<div></div>	Manual Task	<div></div>	Start-only	<div></div>	Deadline	<div></div>	Progress	<div></div>																																									
		Split	<div></div>	Inactive Task	<div></div>	Duration-only	<div></div>	Finish-only	<div></div>	Baseline	<div></div>	Manual Progress	<div></div>																																									
		Milestone	<div></div>	Inactive Milestone	<div></div>	Manual Summary Rollup	<div></div>	External Tasks	<div></div>	Baseline Milestone	<div></div>																																											
		Summary	<div></div>	Inactive Summary	<div></div>	Manual Summary	<div></div>	External Milestone	<div></div>	Baseline Summary	<div></div>																																											
Page 1																																																						

Capital Projects Earned Value Analysis
Financial Data as of 09/15/2023

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	\$ 352,491.80	\$ (1,212,968.49)	\$ 518,629.20	\$ 937,505.64	\$ 1,289,997.44	\$ 1,898,002.56	0.27	2.47	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	\$ 1,119,496.74	\$ (1,729,866.31)	\$ (114,363.05)	\$ 1,926,688.67	\$ 3,046,185.41	\$ (311,185.41)	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
2016	Arco Water and Sewer Expansion	Patel	JWSC	T&H	UWS	\$ 3,800,000.00	\$ 3,800,000.00	\$ 2,450,375.00	\$ 1,943,847.89	\$ (2,087,420.00)	\$ 506,527.11	\$ 1,070,638.46	\$ 3,014,486.35	\$ 785,513.65	0.64	1.26	0.73
2018	Meter Replacements	Roberts	JWSC	N/A	Delta Municipal Supply	\$ 18,450,000.00	\$ 7,318,082.19	\$ 16,548,706.67	\$ 15,585,156.65	\$ 9,230,624.47	\$ 963,550.02	\$ 1,790,590.35	\$ 17,375,747.00	\$ 1,074,253.00	2.26	1.06	0.66
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	\$ 330,605.27	\$ (480,839.65)	\$ (61,444.92)	\$ 590,607.49	\$ 921,212.76	\$ (171,212.76)	0.36	0.81	1.15
2102	Canal Road WPF	Vo	T&H	T&H	TBD	\$ 1,850,000.00	\$ 1,850,000.00	\$ 149,773.14	\$ 108,860.00	\$ (1,700,226.86)	\$ 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	\$ 557,111.11	\$ 53,546.40	\$ 60,313.98	\$ (503,564.71)	\$ (6,767.58)	\$ 671,837.71	\$ 732,151.69	\$ (82,151.69)	0.10	0.89	1.01
2105	PS 4044 Rehab	Kline	LEA	LEA	TBD	\$ 550,000.00	\$ 71,750.00	\$ 48,024.43	\$ 53,450.00	\$ (23,725.57)	\$ (5,425.57)	\$ 558,686.40	\$ 612,136.40	\$ (62,136.40)	0.67	0.90	1.01
2106	Dunbar Creek WPCF Rehab	Burroughs	BRW/HGB	HGB	BRW	\$ 9,338,893.30	\$ 6,369,715.22	\$ 4,055,730.01	\$ 4,246,245.26	\$ (2,313,985.21)	\$ (190,515.25)	\$ 5,531,336.41	\$ 9,777,581.67	\$ (438,688.37)	0.64	0.96	1.04
2108	PS 4001 Rehab	Kline	Kimley-Horn	Kimley-Horn	TBD	\$ 400,000.00	\$ 341,333.33	\$ 26,773.20	\$ 35,303.94	\$ (314,560.13)	\$ (8,530.74)	\$ 492,147.99	\$ 527,451.93	\$ (127,451.93)	0.08	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	\$ 320,407.41	\$ 26,773.20	\$ 35,303.94	\$ (293,634.21)	\$ (8,530.74)	\$ 459,182.24	\$ 494,486.18	\$ (119,486.18)	0.08	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	\$ 911,133.75	\$ 277,221.21	\$ 281,640.00	\$ (633,912.54)	\$ (4,418.79)	\$ 2,512,193.85	\$ 2,793,833.85	\$ (43,833.85)	0.30	0.98	1.00
TOTALS						\$ 60,456,794.30	\$ 43,511,278.01	\$ 38,510,798.22	\$ 38,007,478.56	\$ (5,000,479.79)	\$ 503,319.67	\$ 24,436,821.29	\$ 62,444,299.85	\$ (1,987,505.55)	0.89	1.01	0.98

BAC	Budget at Completion	Approved Budget for Project
PV	Planned Vaue	% of Schedule Used x BAC
EV	Earned Value	% of Work Completed x BAC
AC	Actual Cost	Actual Costs to Date
SV	Schedule Variance	EV - PV
CV	Cost Variance	EV - AC
ETC	Estimate to Complete	(BAC - EV) / CPI
EAC	Estimate at Completion	AC + ETC
VAC	Variance at Completion	BAC - EAC
SPI	Schedule Performance Index	EV / PV
		Positive means ahead of schedule
		Positive is better
		Estimate to complete based on cost performance to date
		Estimated final project cost
		Positive means project is projected to be under budget
		Greater than 1.0 means ahead of schedule