

**GWINNETT COUNTY WATER AND SEWERAGE AUTHORITY AGENDA****Monday, April 10, 2023 - 4:00 P.M.**Department of Water Resources, Training Room  
684 Winder Highway, Lawrenceville, GA 30045

Present:

B. Kerlin, JC Lan, B. Martin, C. Thompson, D. Witham

- I. Call to Order
- II. Approval of Agenda  
  
**Action Approved: Motion: Witham; Second: Lan; Vote 5-0  
(Kerlin - Yes; Lan - Yes; Martin - Yes; Thompson - Yes; Witham- Yes)**
- III. Approval of Minutes – February 14, 2023  
  
**Action Approved: Motion: Martin; Second: Thompson; Vote 5-0  
(Kerlin - Yes; Lan - Yes; Martin - Yes; Thompson - Yes; Witham- Yes)**
- IV. Approval to renew BL057-22, purchase of water meter assembly repair parts, fittings, and meter boxes on an annual contract (June 21, 2023 through June 20, 2024), with Delta Municipal Supply Company and Ferguson Enterprises, LLC, base bid \$1,600,000.00 (negotiated cost savings of approximately \$80,000.00).  
  
**Action Approved: Motion: Lan; Second: Martin; Vote 5-0  
(Kerlin - Yes; Lan - Yes; Martin - Yes; Thompson - Yes; Witham- Yes)**
- V. Approval to renew BL015-20, utility easement maintenance program on an annual contract (May 19, 2023 through May 18, 2024), with Premier Tree & Shrub Care, LLC, base bid \$1,500,000.00.  
  
**Action Approved: Motion: Witham; Second: Lan; Vote 5-0  
(Kerlin - Yes; Lan - Yes; Martin - Yes; Thompson - Yes; Witham- Yes)**
- VI. Award of BL026-23, purchase of copper tubing on an annual contract (June 22, 2023 through June 21, 2024), to Delta Municipal Supply Co., Inc., base bid \$700,000.00.  
  
**Action Approved: Motion: Lan; Second: Martin; Vote 5-0  
(Kerlin - Yes; Lan - Yes; Martin - Yes; Thompson - Yes; Witham- Yes)**
- VII. Award of BL029-23, HVAC system maintenance, repair, and replacement services for various Department of Water Resources locations, to 5 Seasons Mechanical, LLC; Aircond Corporation dba EMCOR Services; Maxair Mechanical, LLC; and United Maintenance, Inc.,

Monday, April 10, 2023 – 4:00 pm

Page Two

amount not to exceed \$2,500,000.00. Contract to follow award. Subject to approval as to form by the Law Department.

Action Approved: Motion: Martin; Second: Lan; Vote 5-0  
(Kerlin - Yes; Lan - Yes; Martin - Yes; Thompson – Yes; Witham- Yes)

- VIII. Approval to renew OS002-19, purchase of products and services for Xylem/Flygt submersible pumps on an annual contract (May 21, 2023 through May 20, 2024), with Xylem Water Solutions USA, Inc., base amount \$1,700,000.00.

Action Approved: Motion: Thompson; Second: Lan; Vote 5-0  
(Kerlin - Yes; Lan - Yes; Martin - Yes; Thompson – Yes; Witham- Yes)

- IX. Award of BL017-23, Frontier Drive phase II water main replacement, to JDS, Inc., amount not to exceed \$4,258,964.00. Contract to follow award. Subject to approval as to form by the Law Department.

Action Approved: Motion: Lan; Second: Witham; Vote 5-0  
(Kerlin - Yes; Lan - Yes; Martin - Yes; Thompson – Yes; Witham- Yes)

- X. Award of BL002-23, Lanier Filter Plant new chemical building and Shoal Creek Filter Plant onsite sodium hypochlorite generation system, to Alberici Constructors, Inc., amount not to exceed \$83,654,856.00. Contract to follow award. Subject to approval as to form by the Law Department.

Action Approved: Motion: Lan; Second: Thompson; Vote 5-0  
(Kerlin - Yes; Lan - Yes; Martin - Yes; Thompson – Yes; Witham- Yes)

- XI. Award of BL001-23, Lanier Filter Plant chemical addition and sampling improvements project, to Reeves Young, LLC, amount not to exceed \$2,940,000.00. Contract to follow award. Subject to approval as to form by the Law Department.

Action Approved: Motion: Martin; Second: Witham; Vote 5-0  
(Kerlin - Yes; Lan - Yes; Martin - Yes; Thompson – Yes; Witham- Yes)

- XII. Approval to renew RP031-18, watershed improvements on an annual contract (May 22, 2023 through May 21, 2024), with Clean Water Consultants, Inc., base amount \$4,630,000.00. Amount to be approved by the Water and Sewerage Authority is \$3,630,000.00.

Action Approved: Motion: Lan; Second: Thompson; Vote 5-0  
(Kerlin - Yes; Lan - Yes; Martin - Yes; Thompson – Yes; Witham- Yes)

- XIII. Award of BL123-22, Evermore North Boulevard (Hewatt Road to Parkwood Road/Parkwood Road to Britt Drive) roadway improvement project, to E.R. Snell Contractor, Inc., amount not to exceed \$17,997,629.00. Contract to follow award. Subject to approval as to form by the Law Department. This contract is 59% funded by various



Monday, April 10, 2023 – 4:00 pm

Page Two

SPLOST programs. Amount to be approved by the Water and Sewerage Authority is \$7,348,853.00.

Action Approved: Motion: Lan; Second: Martin; Vote 5-0  
(Kerlin - Yes; Lan - Yes; Martin - Yes; Thompson – Yes; Witham- Yes)

- XIV. Approval/Authorization for the Chairwoman to execute an Intergovernmental Agreement between Gwinnett County, Gwinnett County Water and Sewerage Authority, and the City of Lawrenceville to outline the responsibilities of the parties as it pertains to water and road infrastructure improvements within the Camelot Woods Subdivision in the City of Lawrenceville. Subject to approval as to form by the Law Department.

Action Approved: Motion: Witham; Second: Martin; Vote 5-0  
(Kerlin - Yes; Lan - Yes; Martin - Yes; Thompson – Yes; Witham- Yes)

- XV. Comments

- XVI. Adjourn


The April 10, 2023  
Gwinnett County  
Water and Sewerage  
Authority meeting  
will begin at  
4:00pm



1

Welcome  
to the April 10, 2023  
Gwinnett County  
Water and Sewerage  
Authority meeting


Please mute your  
phone unless  
speaking



2

**BL057-22**  
Renewal  
Purchase of Water Meter Repair  
Parts, Fittings, and Meter Boxes on  
an Annual Contract


4/10/2023



3

**Background**  
BL057-22 – Purchase of Water Meter Repair Parts, Fittings and Meter Boxes


- Renewal of Contract
- One-Year Contract Term with One Option to Renew
- Market volatility limits renewals



4

**Background**  
BL057-22 – Purchase of Water Meter Repair Parts, Fittings, and Meter Boxes


- Supplies the necessary ancillary parts and fittings for water meter installations.
- Specifications tight regarding metal content Assist crews in locating assets.
- Two Vendors Selected Respective low-price bid per each Line Item



5

**Summary**  
BL057-22 - Purchase of Water Meter Repair Parts, Fittings, and Meter Boxes



- Vendors:**  
Delta Municipal Supply Company  
Ferguson Enterprises Inc.
- \$ 1,600,000 requested**
- 33% increase in unit rates**



6

BL057-22  
Renewal - Purchase of Water Meter Repair  
Parts, Fittings, and Meter Boxes on an  
Annual Contract

Questions ?

7

BL 015-20  
Renewal -  
Utility Easement Maintenance  
Program On An Annual Contract





4/10/2023



8

BL 015-20  
Utility Easement Maintenance Program  
On An Annual Contract



- Second renewal of Four options
- Premier Tree & Shrub Care, LLC
- Vendor history is good without complaints from customers or internally

9

BL 015-20  
Utility Easement Maintenance Program On  
An Annual Contract



- 800 miles of utility easements
- Provides access for maintenance of our mains that are not in the Right-of-Way.
- Physical removal of trees, shrubs and undergrowth

10

BL 015-20  
Utility Easement Maintenance Program On  
An Annual Contract



- Easements assigned as large groups To promote efficiency
- Clearing is also assigned to specifically support projects and repairs
- Vendor has been cooperative Regardless of work assigned

11

BL 015-20  
Utility Easement Maintenance Program On  
An Annual Contract

- Requested Amount \$1,500,000
- No Increase in Unit Rates
- Balance clearing activities to maintain the budget

12




BL 015-20  
Renewal - Utility  
Easement Maintenance  
Under Annual Contract

# Questions ?



13

# BL026-23 Award- Purchase of Copper Tubing on an Annual Contract




14

## Background

BL026-23 Purchase of Copper Tubing on an Annual Contract

- Contract Renewal (Fourth of Four options)
- Covers the purchase for 3/4 & 1-inch soft copper tubing for new meter installations and service line repairs
- Line-Item style contract



15

## Background

BL026-23 Purchase of Copper Tubing on an Annual Contract

- Volatile market requires quotes at time of purchase
- DWR pays 3% over the current market value
- Approximately 215,000 LF since June 2021




16

## Summary

BL026-23 Purchase of Copper Tubing on an Annual Contract


- Delta Municipal Supply Co, Inc.
- Previous year - approved for \$800,000
- Current Contract Request is \$700,000



17

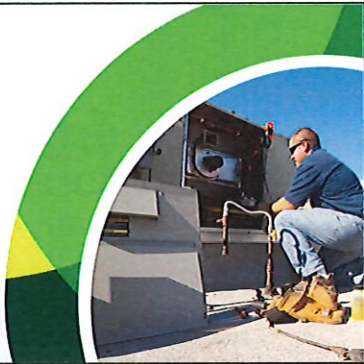

# BL026-23 Award - Purchase of Copper Tubing on an Annual Contract

# Questions ?



18

**BL029-23**  
**HVAC**  
**MAINTENANCE,**  
**REPAIR, and**  
**REPLACEMENT**  
**SERVICES**

19

**WHAT THIS**  
**CONTRACT COVERS**




20

**280**

**HVAC**  
**SYSTEMS WITH**  
**OVER 1,000**  
**SERVICABLE**  
**COMPONENTS**

- PREVENTIVE MAINTENANCE
- REPAIR & REPLACEMENT
- EMERGENCIES



21

**DWR recommends award to multiple vendors based on sections:**

SECTION	DESCRIPTION: Comprehensive Preventive Maintenance Services	VENDOR
A	• Wastewater PS	Maxair Mechanical
B	• F Wayne Hill WRC • DWR Water Laboratory • The Water Tower	5 Seasons Mechanical
C	• Crooked Creek WRF	Maxair Mechanical
D	• Yellow River WRF	Maxair Mechanical
E	• Lanier FP • Shoal Creek FP • Raw Water PS • Water Distribution BS	Maxair Mechanical
F	• GCDWR Central Facility • Pump Stations Maintenance Shop	Maxair Mechanical




22

**DWR recommends award to multiple vendors based on sections:**

SECTION	DESCRIPTION:	VENDOR
G	• Labor Rates for On-Call Repairs for HVAC Systems & Equipment • HVAC System Replacement & Rental of HVAC Equipment in Emergency Situations	• 5 Seasons Mechanical • EMCOR Services • Maxair Mechanical • United Maintenance



23

**WHO USES THIS**  
**CONTRACT**



24





- ▶ The Water Tower
- ▶ F. Wayne Hill WRC
- ▶ Crooked Creek WRF
- ▶ Yellow River WRF
- ▶ Pump Stations
- ▶ Shoal Creek FP
- ▶ Lanier FP
- ▶ Tank and Water Booster Stations
- ▶ DWR Central Facility

25


HVAC MAINTENANCE AND REPAIR

## MAJOR PROJECTS COMPLETED



26

- ▶ Suwanee Creek Pump Station
- ▶ Shoal Creek Raw Water Pump Station
- ▶ Shoal Creek FP Maintenance Building
- ▶ Lanier FP Dewatering Building
- ▶ FWH Effluent Electrical Building
- ▶ FWH RAS/WAS 1 Pump Station Building
- ▶ FWH Generator Switchgear Building 64
- ▶ YR Plant Odor Control Building



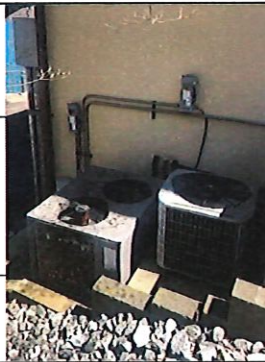
27

HVAC MAINTENANCE AND REPAIR

## PLANNED PROJECTS



28



**REPAIR OR REPLACE**


- Replace at Wayne Mason Raw Water PS
- Replace at FWH GAC Blower Building
- Replace at Environmental Laboratory

**ROUTINE MAINTENANCE**

29

## SUMMARY

*Award of BL029-23*





30



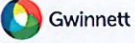
VENDORS	CONTRACT	AMOUNT REQUESTED
5 Seasons Mechanical, LLC — EMCOR Services — MaxAir, Inc. — United Maintenance, Inc.	Award with 4 renewal options	<b>BASE AMOUNT</b> <b>\$2,500,000</b> with no minimum or maximum guarantee



31






# QUESTIONS?



32

**OS002-19**  
**XYLEM/FLYGT**  
**SUBMERSIBLE**  
**PUMPS**



33

# WHAT THIS CONTRACT COVERS



34



## PRODUCTS AND SERVICES

- ▶ ASSESS
- ▶ REBUILD
- ▶ REPLACE

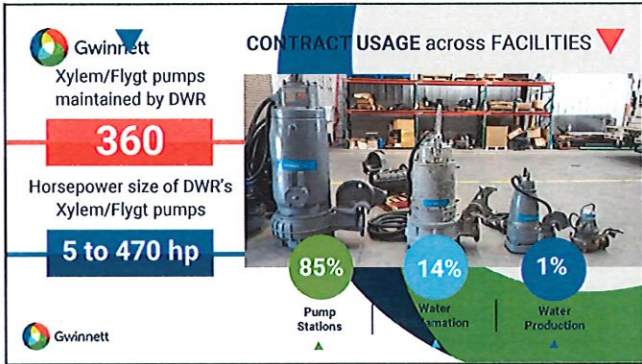


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# BACKGROUND



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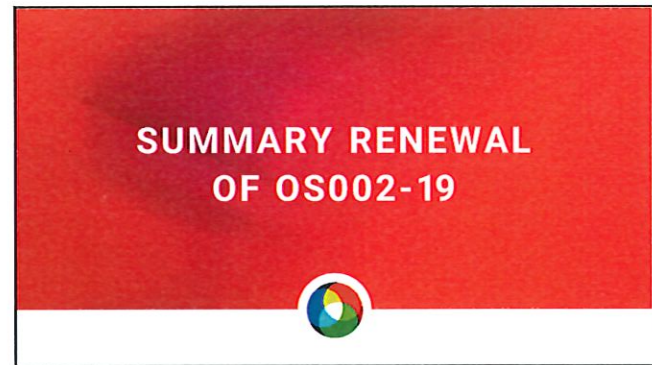
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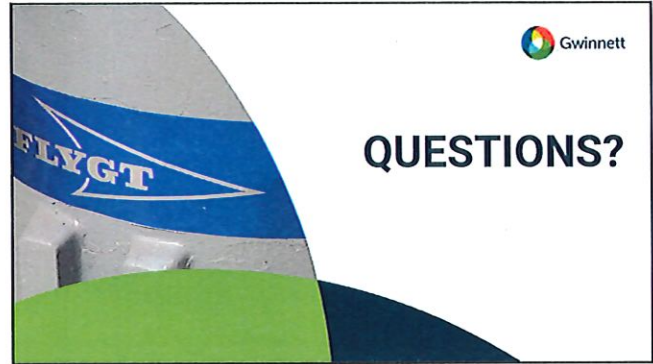
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<b>Vendor</b>	<ul style="list-style-type: none"> <li>▪ Xylem Water Solutions USA, Inc.</li> </ul>
<b>Contract</b>	<ul style="list-style-type: none"> <li>▪ 4<sup>th</sup> and Final Renewal Option</li> </ul>
<b>Amount Requested</b>	<ul style="list-style-type: none"> <li>▪ Base Amount of \$1,700,000</li> </ul>



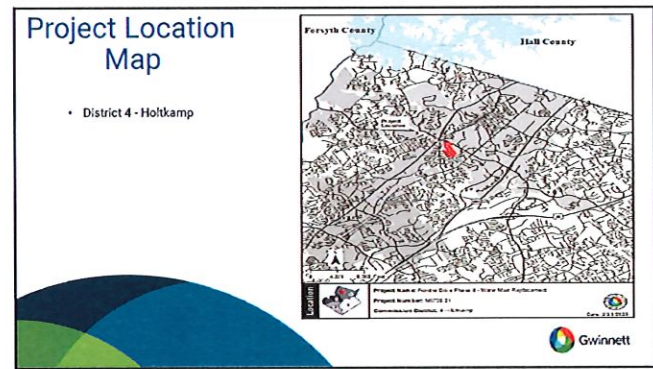
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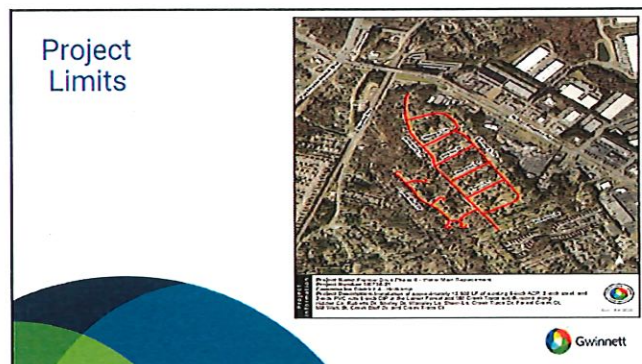
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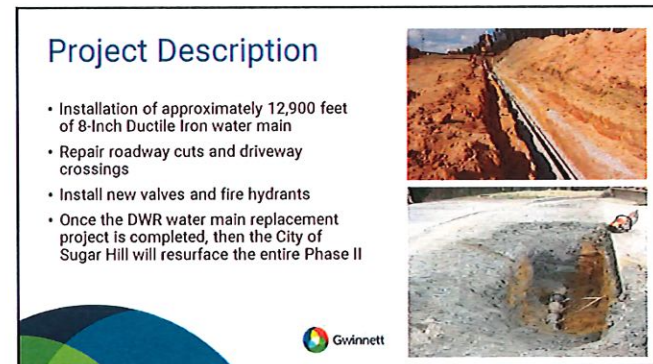
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48



### Benefits of Project


- Provide reliable water service (13 breaks in 13 years)
- System currently consists of ACP, C-200 PVC & Steel in multiple sizes
- Provide water service that meets Gwinnett County's standards for a residential area



49

### Project Schedule

Anticipated Construction Notice to Proceed	<ul style="list-style-type: none"> <li>• 45 calendar days after BOC approval</li> <li>• April 2023</li> </ul>
Anticipated Substantial Completion	<ul style="list-style-type: none"> <li>• 450 Calendar days after NTP</li> <li>• October 2024</li> </ul>
Anticipated Final Completion	<ul style="list-style-type: none"> <li>• 480 Calendar days after NTP</li> <li>• November 2024</li> </ul>




50

### Bids Received

Contractor	Total Bid Price
JDS, Inc.	\$4,258,964.00
GS Construction, Inc.	\$5,314,730.00
The Dickerson Group, Inc.	\$5,626,596.25
Site Engineering, Inc.	\$8,457,800.00

- Engineer's Estimate \$4,940,950.00
- Recommend to award to JDS, Inc.
- Low Bid of \$4,258,964.00
- Bids range: Low bid is about 17% under the Engineer's estimate and the high bid is 71% above the Engineers' estimate.



51

### Questions?




52

### Lanier Filter Plant New Chemical Building and Shoal Creek Filter Plant Onsite Sodium Hypochlorite Generation System

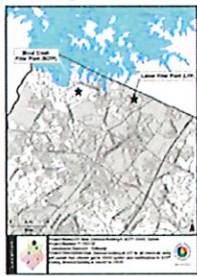


BL002-23  
Project No. F-1445-01

April 10, 2023




53

### Project Location


District - 4 Holtkamp      Lanier Filter Plant      Shoal Creek Filter Plant

54



### Lanier Filter Plant (LFP) Project Description

- Existing LFP Chemical Building was constructed in 1976 and no longer meets current building codes
  - Corridors and stairways are narrow
  - Chemicals are stored in the upper level with insufficient containment
- New LFP Chemical Building will be built to current building codes
- New electrical substation will be built at LFP
- New truck scale will be added
- Existing gaseous chlorine disinfection at LFP will be converted to an onsite sodium hypochlorite generation (OSHG) system



55

### Shoal Creek Filter Plant (SCFP) Project Description

The existing chemical building will be modified to accommodate a new OSHG system:



- Existing chlorinator room will be converted to new electrical room
- Calcium Thiosulfate system will be demolished
- Liquid lime system will be relocated
- HVAC system will be modified



56



### Chlorine Gas Disinfectant Limitations

- Potential personnel exposure to chlorine gas leak
- Frequency (weekly) of cylinder changeout
- Frequency (weekly) of delivery & lifting
- Requires constant EPA air quality monitoring

57

### Existing LFP Chemical Building

58

### Narrow Corridor-LFP Chemical Building




59

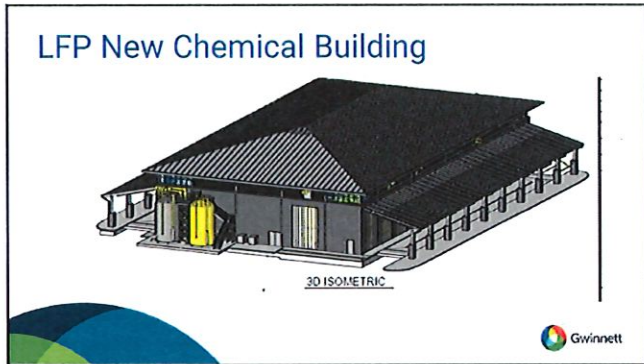
### Narrow Stairways-LFP Chemical Building




60



61



62



63



64

### Benefits of Project

- Reduced risk of failure to comply with the Safe Drinking Water Act
- More efficient bulk chemical delivery and storage
- Reduced risk to facility personnel
- Enhanced continuity of operations with 30-day sodium hypochlorite storage requirement

Gwinnett

65

### Benefits of Project (continued)

- On-site hypochlorite generation disinfection is the Industry Standard for treatment plants of LFP & SCFP size
- Fewer chemical deliveries (monthly vs. weekly)
- Less truck traffic through the community reduces the plant's carbon footprint


Gwinnett

66



### Project Schedule

- Anticipated Construction Notice to Proceed**
  - 30 calendar days after BOC approval
  - May 2023
- Anticipated Substantial Completion**
  - 910 Calendar days after NTP
  - November 2025
- Anticipated Final Completion**
  - 970 Calendar days after NTP
  - January 2026




67

### Bids Received

Contractor	Total Bid Price
Alberici Constructors, Inc.	\$83,654,856.00
Reeves Young, LLC	\$88,295,000.00
Crowder Construction Company	\$89,950,000.00
Clark Construction Group, LLC	\$90,354,845.00
Western Summit Constructors, Inc.	\$103,595,850.00

- Engineer's Estimate \$59,340,962
- Recommend to award to Alberici Constructors, Inc.
- Low Bid of \$83,654,856



68



### Questions?



69




### Lanier Filter Plant Chemical Addition and Sampling Improvements

BL001-23  
Project No. F-1382-08  
April 10, 2023

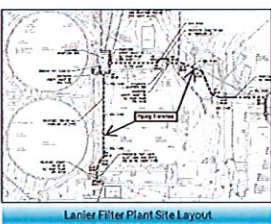
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### Project Location Map


71

### Project Description




**Lanier Filter Plant**

- Installation of concrete trenches, chemical and sample piping, pumps, and leak detection equipment
- Establish additional chemical dosing points
- Demolish existing chemical lines, vaults, and sampling lines
- Provides the trenches for the new chemical lines that will be installed as part of the Chemical Building project




72

### Benefits of Project



- Improvement in the stability of pH values and chlorine residual in finished water
- Concrete trenches provide for safe access for future inspection, maintenance, and repair of chemical and sample lines
- Redundant chemical feeds improves reliability


Example of Piping Trenches



73

### Project Schedule

- Anticipated Construction Notice to Proceed**
  - 30 calendar days after BOC approval
  - June 2023
- Anticipated Substantial Completion**
  - 270 Calendar days after NTP
  - March 2024
- Anticipated Final Completion**
  - 300 Calendar days after NTP
  - April 2024




74

### Bids Received

Contractor	Total Bid Price
Reeves Young, LLC	\$2,940,000.00
Alberici Constructors, Inc.	\$3,879,511.00

- Engineer's Estimate \$1,680,263.16
- Recommend to award to Contractor Reeves Young, LLC.
- Low Bid of \$2,940,000.00



75

### Questions?





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**RP031-18**  
**WATERSHED IMPROVEMENTS ON AN ANNUAL CONTRACT**  
 2023-2024  
 Renewal Recommendation  
 April 10, 2023

77

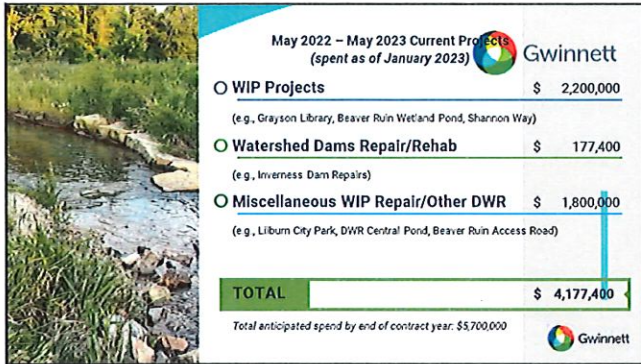



- Implement Watershed Improvement Protection Plan Projects  
NPDES Permit Requirement
- Includes construction, maintenance, and repair of Watershed Improvement Projects
- Fourth of four (4) renewals

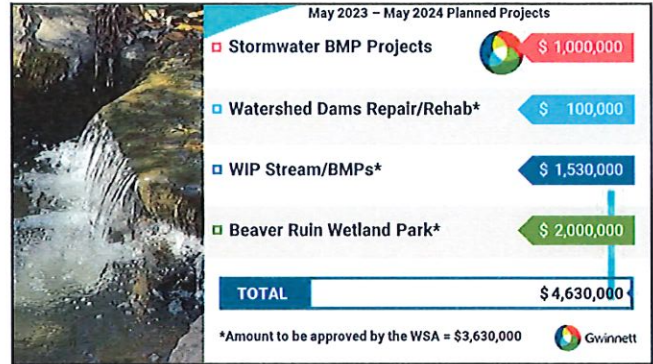


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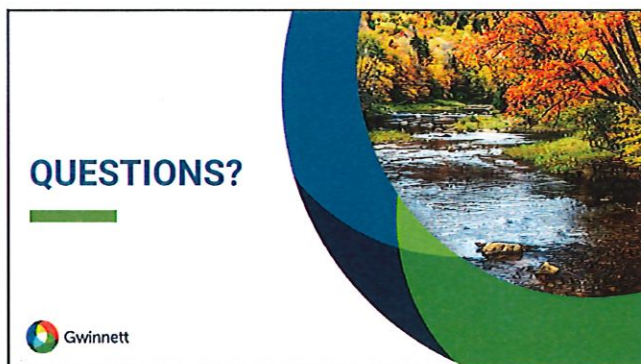
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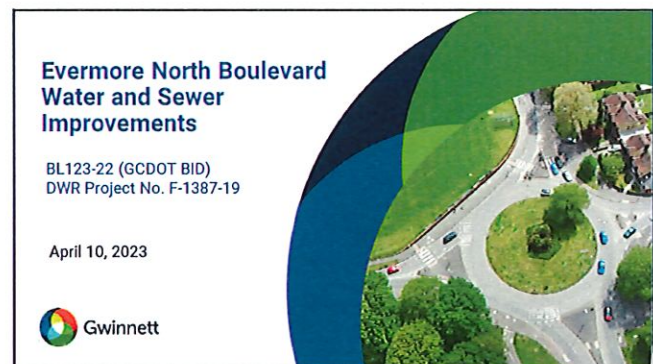
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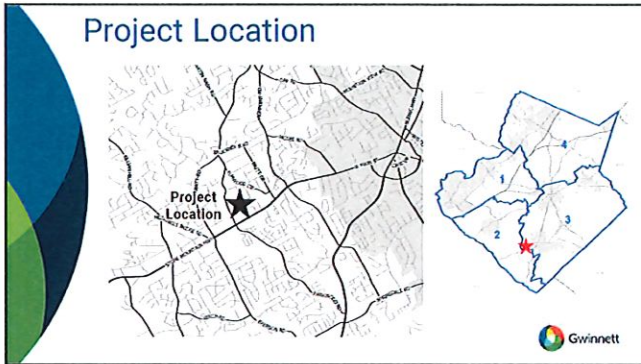
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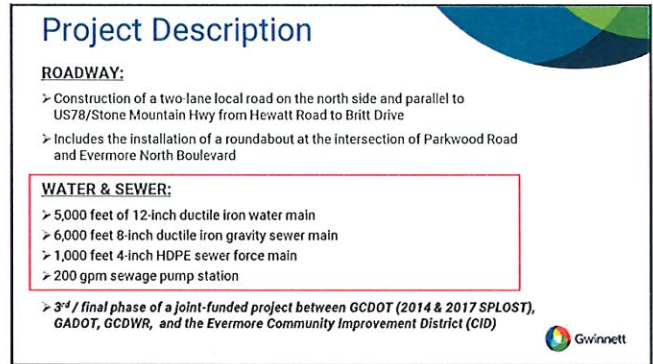
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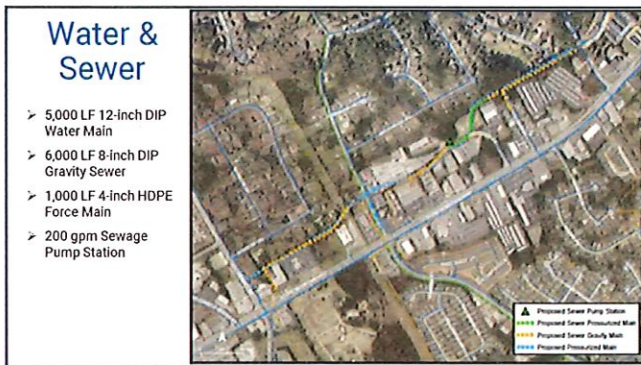
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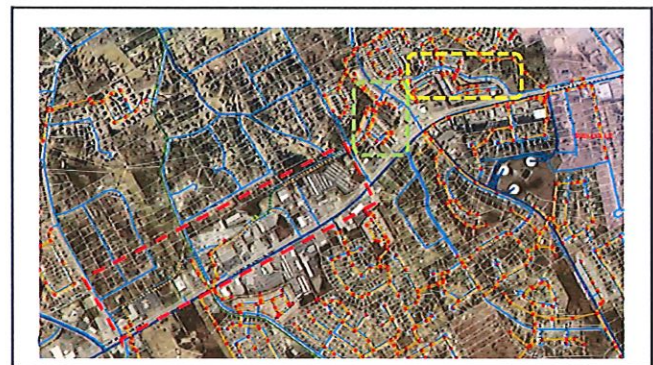
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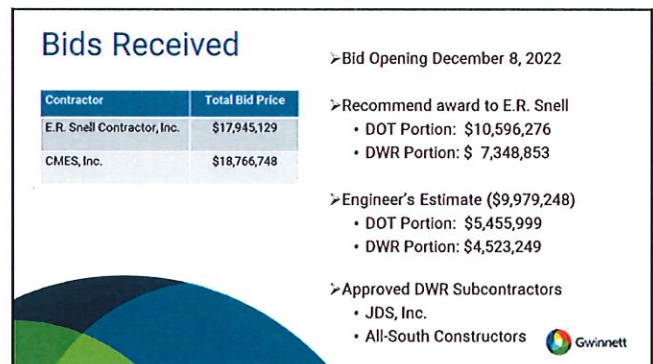
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88



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90



# Questions?




91

## Intergovernmental Agreement to Partner on Water and Road Infrastructure Improvements Camelot Woods Subdivision

April 10, 2023



Gwinnett County, Gwinnett County Water and Sewerage Authority, and City of Lawrenceville



92


### Camelot Woods Water Main Replacement Project

- Installation of 5,300 linear feet of 8-inch DIP water main
- Existing water main is over 50 years old and is Asbestos Cement Pipe (ACP) & Cast Iron Pipe (CIP)
- Requires roadway excavation and restoration
- King Arthur Drive, Merlin Place and Lancelot Way road resurfacing is in City of Lawrenceville's road maintenance program





93


### Project Location



City of Lawrenceville



District 3 – Watkins



94


### Agreement Responsibilities

**City of Lawrenceville**

- Pay to Gwinnett the actual bid amount to resurface King Arthur Drive, Merlin Place and Lancelot Way within 30 days of completion of the Water Project with a not-to-exceed amount of \$397,662
  - County's estimate = \$397,662
  - (1,214 tons of asphalt \* \$240/ton + 14,175 SY of milling \* \$7.5/SY)

**Gwinnett County**


- Include 5,300 LF of street resurfacing for the entire street area of King Arthur Drive, Merlin Place and Lancelot Way as part of the County water main replacement project



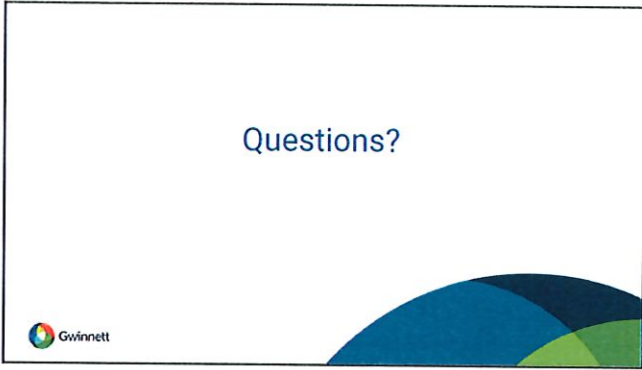
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### Benefits

- Minimizes future impact to community and disruption to citizens
- Reduces cost for the County
- Road improvements
- Increase reliability and redundancy of the water distribution system



96



97