

GWINNETT COUNTY WATER AND SEWERAGE AUTHORITY AGENDA**Monday, August 8, 2022 - 4:00 P.M.**Department of Water Resources, Training Room
684 Winder Highway, Lawrenceville, Ga. 30045

Present: Martin, Lan, Kerlin, Allick, Thompson

- I. Call to Order
- II. Approval of Agenda

{Action: Approved: Motion: Martin; Second: Allick; Vote: 5-0}
(Kerlin-Yes; Lan-Yes; Martin-Yes; Thompson-Yes; Allick-Yes)
- III. Approval of Minutes – July 11, 2022

{Action: Approved: Motion: Martin; Second: Thompson; Vote: 5-0}
(Kerlin-Yes; Lan-Yes; Martin-Yes; Thompson-Yes; Allick-Yes)
- IV. Ratification of the emergency purchase of magnesium hydroxide with Premier Magnesia, in the amount of \$639,490.28.

{Action: Approved: Motion: Lan; Second: Thompson; Vote: 5-0}
(Kerlin-Yes; Lan-Yes; Martin-Yes; Thompson-Yes; Allick-Yes)
- V. Award of BL054-22, purchase of pump station pumps, to Goforth Williamson, Inc., in the amount of \$684,745.00.

{Action: Approved: Motion: Martin; Second: Allick; Vote: 5-0}
(Kerlin-Yes; Lan-Yes; Martin-Yes; Thompson-Yes; Allick-Yes)
- VI. Approval to renew BL060-21, bypass pumping services on an annual contract (September 20, 2022 through September 19, 2023), with Xylem Dewatering Solutions, Inc., base bid \$1,000,000.00. Amount to be approved by Water and Sewerage Authority is \$985,000.000.

{Action: Approved: Motion: Lan; Second: Martin; Vote: 5-0}
(Kerlin-Yes; Lan-Yes; Martin-Yes; Thompson-Yes; Allick-Yes)
- VII. Approval to renew OS027-19, provision of products and services for granular activated carbon filter media on an annual contract (October 16, 2022 through October 15, 2023), with Calgon Carbon Corp., base amount \$1,600,000.00.

{Action: Approved: Motion: Lan; Second: Thompson; Vote: 5-0}
(Kerlin-Yes; Lan-Yes; Martin-Yes; Thompson-Yes; Allick-Yes)

Monday, August 8, 2022 – 4:00pm

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- VIII. Approval to renew BL083-20, provision of inspection and repair services for fire hydrants on an annual contract (January 1, 2023 through December 31, 2023), with American Flow Services, LLC and Georgia Hydrant Services, Inc., base bid \$585,000.00.

{Action: Approved: Motion: Thompson; Second: Lan; Vote: 5-0}
(Kerlin-Yes; Lan-Yes; Martin-Yes; Thompson-Yes; Allick-Yes)

- IX. Approval to renew BL095-21, provision of meter reading services on an annual contract (January 1, 2023 through December 31, 2023), with Bermex, Inc., base bid \$5,800,000.00.

{Action: Approved: Motion: Lan; Second: Allick; Vote: 5-0}
(Kerlin-Yes; Lan-Yes; Martin-Yes; Thompson-Yes; Allick-Yes)

- X. Approval/authorization for the Chairwoman to execute a Contract Item Agreement (CIA) with Georgia Department of Transportation (GDOT) for water and sewer relocations associated with GDOT project No. P.I. 0013375 SR 120/West Pike Street from SR 316 to Hurricane Shoals Road, for an estimated cost of \$579,675.00. Subject to approval as to form by the Law Department.

{Action: Approved: Motion: Lan; Second: Allick; Vote: 4-0-1}
(Kerlin-Yes; Lan-Yes; Martin-Yes; Thompson-Out of room; Allick-Yes)

- XI. Award of BL072-22, F. Wayne Hill entrance gate improvements, to Diversified Construction of Georgia, Inc., amount not to exceed \$899,860.00. 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; Allick-Yes)

- XII. Approval/authorization for the Chairwoman to execute the Water Storage Agreement with the State of Georgia to allow Gwinnett County to utilize storage volume in Lake Lanier for water supply. Subject to approval by the Law Department.


{Action: Approved: Motion: Lan; Second: Martin; Vote: 5-0}
(Kerlin-Yes; Lan-Yes; Martin-Yes; Thompson-Yes; Allick-Yes)

- XIII. Comments

- XIV. Adjourn

{Action: Unanimous Approval}

The August 8, 2022
Gwinnett County
Water and Sewerage
Authority meeting
will begin at
4:00pm



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Welcome
to the August 8, 2022
Gwinnett County
Water and Sewerage
Authority meeting

Please mute your
phone unless
speaking



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Ratification of Emergency
Purchase Orders for Liquid
Magnesium Hydroxide




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History

Liquid Magnesium Hydroxide

- Used at F. Wayne Hill WRC and Crooked Creek WRF to add alkalinity to improve treatment and at nine pump stations to raise the pH level of wastewater for odor and corrosion control.
- Previous contract, BL093-19 expired 12/03/2021.
- There was a lapse in contract coverage between December 4, 2021 and March 3, 2022.
- Emergency purchase orders were issued to procure Liquid Magnesium Hydroxide until a new contract was awarded.




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Summary

- Request ratification of emergency purchase orders issued to Premier Magnesia, LLC for a total amount of \$639,490.28

PO #	Facility	PO Amount
2-403976	Pump Stations	\$ 266,519.40
2-403655	Crooked Creek WRF	\$ 35,783.34
2-404841	F. Wayne Hill WRC	\$ 17,642.84
2-404827	Pump Stations	\$ 266,539.98
2-407373	Crooked Creek WRF	\$ 53,004.72
	Total	\$ 639,490.28



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Questions?



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BL054-22
PURCHASE OF
PUMP STATION
PUMPS




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BACKGROUND



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REPLACES
16
Pumps at eight locations installed from 1994–2005

Stations Identified For Replacement Pumps based on:

- Operational Issues
- Equipment Condition
- Maintenance Frequency

REPLACING WITH SUBMERSIBLE PUMPS

MORE EFFICIENT AND BETTER ABLE TO PUMP FOG AND SOLIDS

NEW PUMPS TO BE INSTALLED AS PART OF A LARGER REHABILITATION PROJECT AT EACH PUMP STATION

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WHAT THIS CONTRACT COVERS




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INCLUDES PUMPS AND CONTROL PANELS




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PROVIDES START-UP AND TESTING SERVICES



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▼

PUMPS MUST MEET THE PERFORMANCE REQUIREMENTS STATED IN SPECS




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PUMP STATION	MAKE/MODEL	PRICE
BERKELEY LAKE	GRUNDFOS / SLV.30.A30.125	\$76,775.00
ELLINGTON SPRINGS	GRUNDFOS / SEV.30.A30.420	\$103,020.00
EVERGREEN LAKES	GRUNDFOS / SE1.30.A40.175	\$89,405.00
GARNER INDUSTRIAL	GRUNDFOS / SEV.30.A30.200	\$89,125.00
MOUNTAIN PARK (Rockbridge)	GRUNDFOS / SLV.30.A30.30	\$72,885.00
NORTHBROOK #1 (South)	GRUNDFOS / SLV.30.A40.160	\$80,600.00
PARKER WOODS #1 (North)	GRUNDFOS / SLV.30.A30.150	\$79,910.00
THE COLUMNS APARTMENT	GRUNDFOS / SEV.30.A30.300	\$93,025.00




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SUMMARY
AWARD OF BL054-22



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Contract	<ul style="list-style-type: none"> Award of BL054-22 One Time Purchase of Pumps and Control Panels for Eight Locations
Vendor	<ul style="list-style-type: none"> Goforth Williamson
Requesting	<ul style="list-style-type: none"> Total Award Amount of \$684,745.00



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QUESTIONS?

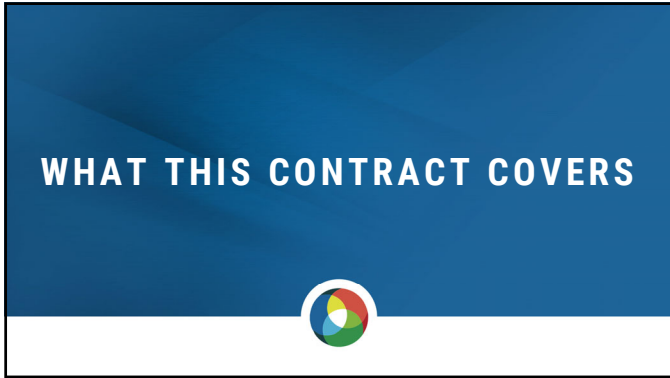



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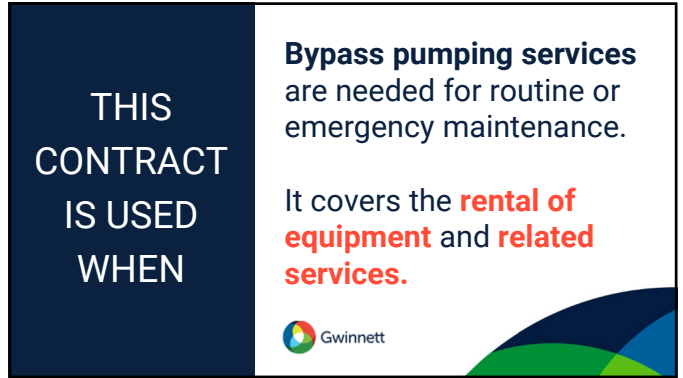
BL060-21
BYPASS PUMPING SERVICES



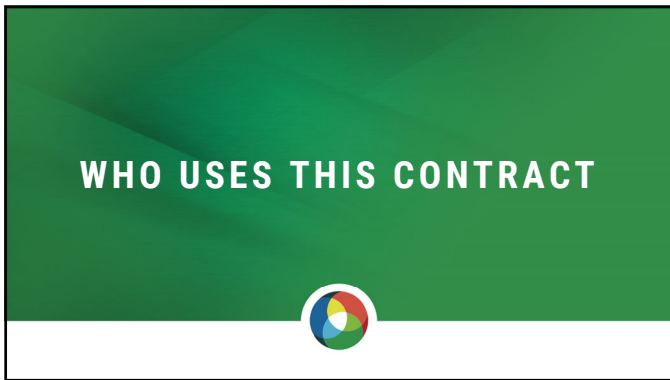

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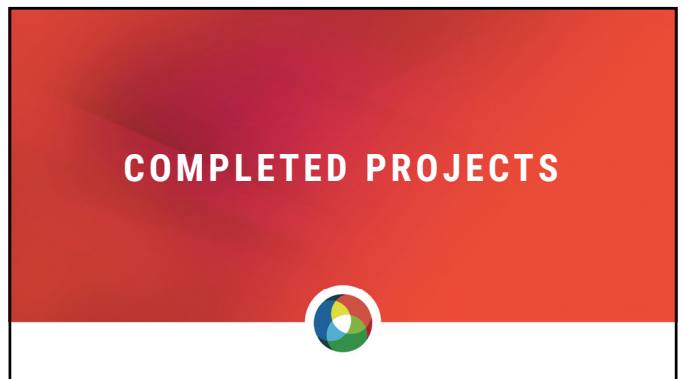
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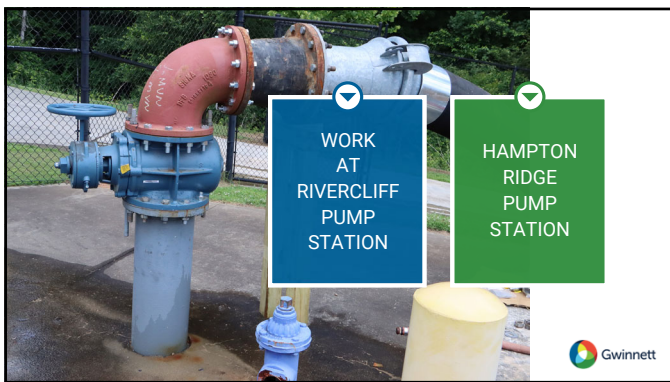
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CONTRACT	▪ 1st of 4 renewal options
VENDOR	▪ Xylem Dewatering Solutions
REQUESTING	▪ Base amount of \$1,000,000.00



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OS027-19
Granular Activated Carbon Filter Media




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WHAT THIS CONTRACT COVERS



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PRODUCTS AND SERVICES


for Calgon Carbon Corp. Granular Activated Carbon (GAC) filter media at the F. Wayne Hill Water Resources Center.






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WHO USES THIS CONTRACT



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Granular Activated Carbon (GAC) Filter Buildings at F. Wayne Hill Water Resources Center.

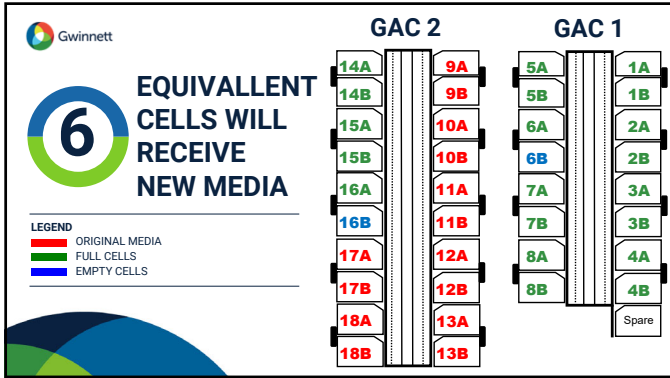


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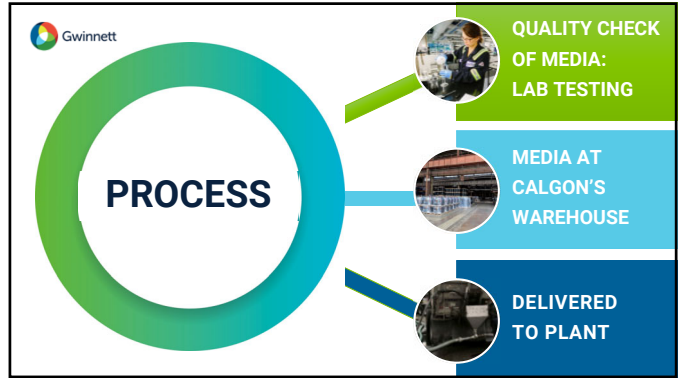
PLANNED UPCOMING PROJECTS



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SUMMARY

RENEWAL OF OS027-19

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CONTRACT

- Carbon Calgon Corp.
- Third of four Renewals

BASE AMOUNT REQUESTED

- \$1,600,000
- Equivalent of new media for six cells

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QUESTIONS?

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Renewal:
 BL083-20
 Inspection and Repair of Hydrants on an Annual Contract

08/08/22

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Background

BL083-20 Inspection and Repair of Hydrants

- Renewal of Contract (Two-Part Contract)
Second of Four options to renew
- Part A – Inspection Services
American Flow Services, LLC
- Part B – Repair Services
Georgia Hydrant Services Inc.




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Inspection Program

BL083-20 – Inspection and Repair of Hydrants

- 46,512 hydrants in the system
 - 3-year inspection cycle
 - 15,500 inspections per year
 - Repairs as needed
- Inspections include basic maintenance
- Public safety and ISO Rating




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2022 Activities

BL083-20 – Inspection and Repair of Hydrants

Current Year

- Part A – Hydrant Inspection
 - \$305,000 expected spend
 - On schedule to complete inspections
- Part B – Hydrant Repairs
 - \$245,000 expected spend
 - 151 Repairs YTD and a backlog of repairs in hand




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Request

BL083-20 – Inspection and Repair of Hydrants


- No increase in Unit Rates
- 2023 Contract Request
 - Part A - American Flow Services, LLC
 - \$310,000
 - Part B - Georgia Hydrant Services Inc.
 - \$275,000
- \$ 585,000 Total Value



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Renewal: BL083-20
Inspection and Repair
of Hydrants on an
Annual Contract

Questions ?



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Renewal: BL095-21 Provision of Meter Reading Services on an Annual Contract



08/08/22

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Background

BL095-21 –Meter Reading Services

- Provides monthly meter reading
- Service Work orders for customer meters
- First of Four Options to Renew
- Bermex Inc.**



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General

BL095-21 –Meter Reading Services

Monthly Services

- Read ~270,000 meters (~3.2 M annually)
- Quality Control & Data Reviews
- Upload data on schedule set by Billing Dept

As Needed (41,700 Through June)

- Lock Off Meters
- Restore Water Service
- Transfer Accounts





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Summary

BL095-21 –Meter Reading Services


- 2022 Contract award \$ 5,880,687
Expected spend \$5,500,000
- 2023 Contract Request \$ 5,800,000
2% Increase in unit rates
- Bermex Inc.**



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Renewal: BL095-21
Provision of Meter Reading
Services on an Annual
Contract

Questions ?



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West Pike Street to Hurricane Shoals Road Median/Turn Lane Improvement Project


Contract Item Agreement
August 8, 2022





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Project Location

- Commission District: 4 - Fosque
- SR 120/West Pike Street from SR 316 to Hurricane Shoals Road





Project Name: West Pike St Improvement ADA Signal & Access
Project Number: 2022-12
Commission District: 4 - Fosque
Project Description: SR 120/West Pike St from SR 316 to Hurricane Shoals Road
Project Location: SR 120/West Pike St from SR 316 to Hurricane Shoals Road



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Project Description

- Relocation and adjustment of existing water and sewer lines as part of a Georgia Department of Transportation Project

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Benefits of Project


- This work will remove DWR conflicts with this Georgia Department of Transportation's project




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Project Schedule & Estimated Cost

Anticipated Construction	<ul style="list-style-type: none"> GDOT to let project September 2022
Engineer's Estimate	<ul style="list-style-type: none"> Total Cost = \$739,275 GDOT Portion = \$159,600 GCDWR Portion = \$579,675



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Questions?



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F. Wayne Hill WRC Entrance Gate Improvements

BL072-22
August 8, 2022





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Project Location




F. Wayne Hill Water Resources Center/Water Resources Laboratory




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Project Background

- F. Wayne Hill Water Resources Center (WRC) has a single panel slide gate system
- Water Resources Laboratory (WRL) is located outside of the current gate
- Ongoing operational and maintenance issues with the existing gate




Aerial view of existing gate location




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Operational and Maintenance Issues

- Lengthy cycle times
- Unsafe location of call boxes
- Weight of gate and need to traverse the entire width of roadway results in extensive maintenance of the chain drive system
- Pressure sensor delays




F. Wayne Hill Water Resources Center existing single panel slide gate




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Project Description

- Demolition of existing asphalt pavement and installation/widening of concrete pavement
- Installation of swing gate system that will provide a shared entrance and exit for the WRC and WRL
- Dedicated call boxes and card readers for each facility within the median
- Installation of pavement markings and signage
- Installation of chain link fencing



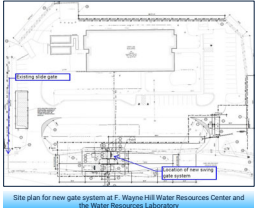
View entering F. Wayne Hill Water Resources Center




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Benefits of Project

- Improve site safety, security, and access
- Improve aesthetics and enhance the look of the facility to align with the other water reclamation facilities in Gwinnett County
- Reduce maintenance costs and increase reliability
- Reduce gate cycle times




Site plan for new gate system at F. Wayne Hill Water Resources Center and the Water Resources Laboratory



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Project Schedule


Anticipated Construction Notice to Proceed	<ul style="list-style-type: none"> 30 Calendar days after BOC approval October 2022
Anticipated Substantial Completion	<ul style="list-style-type: none"> 100 Calendar days after NTP January 2023
Anticipated Final Completion	<ul style="list-style-type: none"> 130 Calendar days after NTP February 2023




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Bids Received

Contractor	Total Bid Price
Crown Service Contractors	\$1,366,420
Diversified Construction of Georgia, Inc.	\$899,860



- Engineer's Estimate \$423,445
- Recommend award to Diversified Construction of Georgia, Inc.
- Low Bid of \$899,860



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Questions?



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WATER STORAGE AGREEMENT

REBECCA SHELTON
ACTING DIRECTOR

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BACKGROUND

- **2017 Record of Decision**
 - Assistant Secretary of the Army
 - Reallocated 254,170 acre-feet of storage in Lake Lanier for water supply
- **2021 Master Storage Agreement**
 - Georgia and United States
 - Secure and pay for 254,170 acre-feet
 - First Cost of Storage
 - \$71,290,531
 - Amortized over 30 years at 1.75%
 - Operation & Maintenance
 - Repair, Rehabilitation & Replacement



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WATER STORAGE AGREEMENT

State of Georgia and Gwinnett County Board of Commissioners

Right to utilize 128,230 acre-feet or 50.45% of the state storage

- Represents yield of 112 MGD
- Current average withdrawal 76 MGD
- 80% of allotted storage


Minimum 30 year agreement

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WATER STORAGE COSTS

50.45% of State Costs


First Cost of Storage	2021 & 2022	\$1,524,543.36 per year
O&M	2022	\$270,890.85
RR&R	2022	\$0.00



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WATER STORAGE AGREEMENT

Storage User	Acre-ft	%
Forsyth (Forsyth County + City of Cumming)	54,040	21.26%
Gwinnett County	128,230	50.45%
City of Gainesville	12,823	5.05%
City of Buford	916	0.36%
State Share (Reserve Pool + Upper Counties)	58,161	22.88%
Total	254,170	100.00%



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Request Approval

- Water Storage Agreement Between the State of Georgia and the Gwinnett County Board of Commissioners
- \$3,320,000

2021 & 2022 First Cost of Storage	\$ 3,049,086.72
2022 O&M	\$ 270,890.95
2022 RR&R	\$ -



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QUESTIONS?



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