

**GWINNETT COUNTY WATER AND SEWERAGE AUTHORITY AGENDA
Monday, September 12, 2022 - 4:00 P.M.**

Department of Water Resources, Training Room
684 Winder Highway, Lawrenceville, Ga. 30045

Present:

B. Kerlin, C. Thompson, B. Martin, W. Allick, JC Lan
(Mr. Thompson joined meeting after vote taken on Item III)

I. Call to Order

II. Approval of Agenda

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

III. Approval of Minutes – August 8, 2022

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

IV. Award of BL071-22, F. Wayne Hill Water Resources Center and Yellow River Water Reclamation Facility primary clarifier rehabilitation, to IHC Construction Companies, LLC, amount not to exceed \$16,516,025.00. Contract to follow award. Subject to approval as to form by the Law department.

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

V. Approval/authorization for the Chairwoman to execute an Underground Easement with Georgia Power, for electrical service associated with the Wolf Creek Pump Station Improvements project. 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)

Monday, September 12, 2022 – 4:00pm

Page Two

- VI. Approval to renew BL069-21, comprehensive materials and field testing and miscellaneous services on an annual contract (October 5, 2022 through October 4, 2023), Departments of Community Services, Support Services, Transportation and Water Resources, with all bidders per the attached justification letters, base bid \$5,380,000.00. This contract is funded 42% by various SPLOST Programs. Amount to be approved by Water & Sewerage Authority is \$2,430,000.00.

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

- VII. Approval to renew BL080-21, purchase of solids dewatering and thickening polymer on an annual contract (October 19, 2022 through October 18, 2023), with Polydyne, Inc., base bid \$1,760,000.00.

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

- VIII. Award of BL089-22, inspection and exercising of water and sewer valves on an annual contract (September 21, 2022 through September 20, 2023), to Pure Technologies U.S., Inc., dba Wachs Water Services, base bid \$1,800,000.00.

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

- IX. Comments

- X. Adjourn

{Action: Unanimous Approval}

The September 12, 2022
Gwinnett County
Water and Sewerage
Authority meeting
will begin at
4:00pm



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Welcome
to the September 12, 2022
Gwinnett County
Water and Sewerage
Authority meeting

Please mute your
phone unless
speaking



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F. Wayne Hill WRC and
Yellow River WRF
Primary Clarifier
Improvements
(BL071-22)

September 12, 2022




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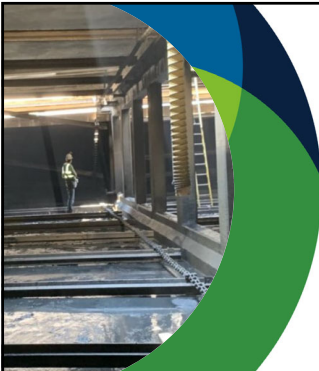
Project Location






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Project Description



- Replace all mechanical components in the ten primary clarifiers at FWH WRC
- Replace key mechanical components in all four primary clarifiers at YR WRF
- Repair deterioration in concrete structures for all primary clarifiers at both FWH WRC and YR WRF



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Benefits of Project




- Replace the existing mechanical equipment at both plants with up-to-date components
- Prolong the useful life of the concrete structures
- Restore the primary clarifiers at both F. Wayne Hill and Yellow River to optimal working condition
- Improve downstream processes through more efficient and effective treatment by the primary clarifiers



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Project Schedule

- Anticipated Construction Notice to Proceed • 30 calendar days after BOC approval
• October 2022
- Anticipated Substantial Completion • 728 calendar days after NTP
• November 2024
- Anticipated Final Completion • 756 calendar days after NTP
• December 2024



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Bids Received

Contractor	Total Bid Price
IHC Construction Companies, LLC	\$16,516,025
Western Summit Constructors, Inc.	\$16,886,715

- Engineer's Estimate \$15,000,000
- Recommend to award to IHC Construction Companies, LLC
- Bid of \$16,516,025
 - F. Wayne Hill: \$12,157,800
 - Yellow River: \$ 4,358,225



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Questions?




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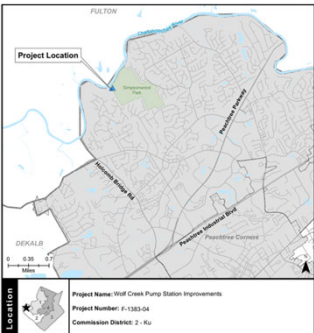
Easement for Electrical Service for Wolf Creek Pump Station Improvements

September 12, 2022





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Project Location



Project Name: Wolf Creek Pump Station Improvements
Project Number: P-1323-04
Commission District: 3 - WC



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Project Description

- Wolf Creek Pump Station is a regional wastewater pump station currently in construction to improve reliability and increase capacity for future flows.
- The easement will allow Georgia Power Company to provide electrical service for the new improvements to the Wolf Creek Pump Station.
- There is no fee. For granting the easement, Gwinnett County shall receive from Georgia Power Company the sum or \$10.00.




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Easement Location

Gwinnett

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Benefits of Project

- Electrical service for improvements to the Wolf Creek Pump Station.
- Wolf Creek Pump Station Improvements will increase the capacity of the Pump Station to support future growth and economic development.

Gwinnett

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Project Schedule

- Anticipated Construction Notice to Proceed
 - 30 calendar days after BOC approval
 - October 2022
- Anticipated Final Completion
 - January 2023

Gwinnett

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Questions?

Gwinnett

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Comprehensive Materials & Field Testing and Miscellaneous Services Annual Contract

(BL069-21)
September 12, 2022

Gwinnett

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Contract Uses

Geotechnical Investigations and Geotechnical Engineering Reports

Gwinnett

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Contract Uses

Construction Materials Testing



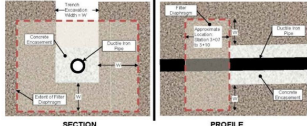
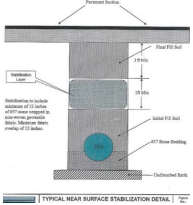

Sub-surface Utility Engineering (SUE) Level A




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Contract Uses

Project-Specific Geotechnical Recommendations and Construction Details

FILTER DIAPHRAGM LIMITS DETAIL



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Firms

- Accura Engineering and Consulting Services, Inc.
- Atlas Technical Consultants LLC
- Contour Engineering, LLC
- ECS Southeast, LLP
- Geo-Hydro Engineers, Inc.
- Golder Associates Inc.
- Matrix Engineering Group, Inc.
- MC Squared, Inc.
- Nova Engineering & Environmental, LLC
- Professional Service Industries, Inc.
- S&ME, Inc.
- Sailors Engineering Assoc., Inc.
- Schnabel Engineering
- Terracon Consultants, Inc.
- United Consulting Group, Ltd.
- Willmer Engineering, Inc.
- Wood Environment & Infrastructure Solutions, Inc.



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Contract Status:

- Completed 1st year of contract
- DWR spent \$1,626,652 from Oct 5, 2021 – August 8, 2022
- First of four (4) total options to renew







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Recommendation:

- Recommend renewal of contract with all 17 firms
- Requesting \$2,430,000 of W&S Funding for Year 2


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QUESTIONS ?




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BL080-21
**SOLIDS
 DEWATERING
 AND THICKENING
 POLYMER**





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WHO USES THIS CONTRACT




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Used at F. Wayne Hill WRC for thickening and dewatering

Used at Crooked Creek WRF for dewatering




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SOLIDS THICKENING




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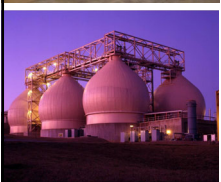



THE PROCESS

Polymer aids the Rotary Drum Thickeners in **dewatering** undigested sludge



The **thickened sludge** is then fed to the digesters





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SLUDGE DEWATERING




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THE PROCESS


At FWH digested sludge is **dewatered** using centrifuges prior to disposal



Polymer is used again to aid in the **dewatering** process




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THE PROCESS

At Crooked Creek sludge is **dewatered** using Belt Filter Presses




Polymer is used here to help thicken and dewater



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SUMMARY



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Contract	▪ First of four renewal options
Vendor	▪ Polydyne, Inc.
Requested Base Amount	▪ \$1,760,000.00



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QUESTIONS?




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Award - BL089-22
 Inspection and Exercising of Water and Sewer Valves on Annual Contract

9/12/22




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Background

BL089-22 - Inspect & Exercise Valves

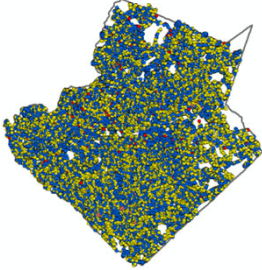

- Recommendation to Award Contract with 4 Options to Renew
- Covers 6" to 24" in-line valves Approx **43,000**
- Control flow through 4,000 miles of pipe



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Background

BL089-22 - Inspect & Exercise Valves





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Background

BL089-22 - Inspect & Exercise Valves

- Valves are critical to our performance
 - Number of Customers Out of Water
 - Time to Repair Main Breaks
- Impact Public Safety
 - Property & Street Flooding
 - Pressure & Flow
- Distribution System is Invisible
 - Based on "As-Builts"





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Program Summary

BL089-22 - Inspect & Exercise Valves

- DWR identifies target area
- Vendor Inspects & Exercises
- Defects Identified
- Access issues Repair immediately
- Install Valve markers and collars
- GPS Point collection



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Program Summary

BL089-22 - Inspect & Exercise Valves

No such thing as "Once and Done"


- 5-year Exercise Cycle
- Good Maintenance Practice
- Road Paving
- Streetscapes / Sidewalk Projects
- Residential Landscaping
- Nature / Stormwater

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Valve Exercising and Inspection Contract

Item #	Description	Approx Annual Qty	2023 Unit Cost	2020 Unit Cost	2022 Unit Cost
1.1	GPS Location of Valves	100	\$25.00	\$35.00	\$ 15.00
1.2	Inspect and Exercise Valve	5000	\$74.00	\$55.00	\$ 80.00
2.1	Straighten Existing Valve Box (6"-8")				
A	Out of Pavement	200	\$300.00	\$180.00	\$ 430.00
B	In Asphalt Pavement	100	\$350.00	\$190.00	\$ 500.00
C	In Concrete Pavement	100	\$400.00	\$210.00	\$ 550.00
2.2	Straighten Existing Valve Box (8"-10")				
A	Out of Pavement	100	\$1.00	\$2.00	\$ 1.00
B	In Asphalt Pavement	100	\$1.00	\$2.00	\$ 1.00
C	In Concrete Pavement	100	\$1.00	\$2.00	\$ 1.00
2.3	Straighten Existing Valve Box (10"-15")				
A	Out of Pavement	50	\$1.00	\$1.00	\$ 1.00
B	In Asphalt Pavement	50	\$1.00	\$1.00	\$ 1.00
C	In Concrete Pavement	50	\$1.00	\$1.00	\$ 1.00
2.4	Adjust Existing Valve Box to Grade				
A	Out of Pavement	1000	\$100.00	\$110.00	\$ 275.00
B	In Asphalt Pavement	500	\$100.00	\$110.00	\$ 450.00
C	In Concrete Pavement	500	\$110.00	\$120.00	\$ 600.00
3	Installation of a Concrete Collar on an Existing Valve Box at Grade	500	\$250.00	\$110.00	\$ 50.00
4	Installation of a Concrete Valve Marker	500	\$170.00	\$110.00	\$ 75.00
5	Extended Search Time	150	\$150.00	\$110.00	\$ 150.00
6	Surface Restoration not Associated with any other pay item				
A	All Types Asphalt Paving	500	\$1.00	\$2.00	\$ 1.00
B	All Types Concrete Paving	500	\$1.00	\$2.00	\$ 1.00
C	All Other Types of General Areas	500	\$1.00	\$2.00	\$ 1.00
7	Valve Extensions and Guides	100	\$110.00	\$110.00	\$ 150.00
	BID TOTAL		\$ 1,488,500	\$ 539,800	\$ 1,771,950




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Contract Summary

BL089-22 - Inspect & Exercise Valves

- Multiple firms submitted questions
- Only One Responsive Bidder
- PURE Technologies US, Inc
dba Wachis Water Services
- Requesting \$1,800,000



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Award - BL089-22
Inspection and
Exercising of
Water and Sewer
Valves on Annual
Contract

Questions ?



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