# COUNTY AGENDA REQUEST

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| Department: | Water System | Presenter(s): | Tony Parrott |
| Meeting Date: | Wednesday, September 7, 2011 | Type of Request: | Consent |

Wording for the Agenda:

Approval of staff's recommendation to authorize Goforth Williamson, Inc., to repair Raw Water Motor and Pump #3 at Lake Horton at a cost of $25,653.00.

Background/History/Details:

Raw Water Motor and Pump #3 has become worn out and is in need of repair.

In June 2011, the Purchasing Department requested price quotes from 12 vendors for the needed repair. Of the twelve vendors, only four provided Fayette County with quotes. The low bidder was Goforth Williamson who quoted $15,803.00.

After taking the motor and pump to their repair shop and disassembling it, Goforth Williamson returned to the county stating they had determined an additional $9,850.00 was needed for the repair.

The County has considered rebidding the remaining portion of the work to other vendors, however, if another vendor were to make a lower quote on rebuilding the motor and pump, that bid would have to be weighed against costs incurred to date, transporting it to the new location, and re-inspection and inventorying of parts, and other costs due to changing vendors in the middle of a project. Furthermore, changing vendors could have an impact on the warranty that would be included with the repairs.

What action are you seeking from the Board of Commissioners?

Approval of staff's recommendation to authorize Goforth Williamson, Inc., to repair Raw Water Motor and Pump #3 at Lake Horton at a cost of $25,653.00.

If this item requires funding, please describe:

Funding has been budgeted for this needed repair work utilizing the Water System's Repair & Maintenance Service budget.

| | | | |
|---|---|---|---|
| Has this request been considered within the past two years? | No | If so, when? | |
| Is Audio-Visual Equipment Required for this Request? | No | Backup Provided with Request? | Yes |

## STAFF USE ONLY

| | | | |
|---|---|---|---|
| Approved by Finance | Yes | Reviewed by Legal | |
| Approved by Purchasing | Yes | County Clerk's Approval | Yes |
| Administrator's Approval | Yes | | |

Staff Notes:

Goforth Williamson, inc.
373 O'Dell Road • Griffin • Georgia • 30224 • 770-467-0303 (phone) • 770-467-0301 (fax)

August 17, 2011

Fayette County Water System
3500 TDK Boulevard
Peachtree City, GA 30269

Attention:

Reference: Lake Horton Raw Water Motor and Pump #3
Floway 27-FKH VTP
Serial # 41662-2-1

Quotation: 080811FLFCadd1

Dear Mr.:

Per the original Scope of Work as provided in the Fayette County RFQ # 1272 for the above referenced equipment:

**Original Scope of Work as quoted per Fayette County RFQ 1272**
**Motor**

1. Remove pump and motor assembly from Lake Horton Station.
2. Provide all lifting equipment as required for removal.
3. Transport to GWI repair facility.
4. Disassemble motor as required.
5. Clean, dip and bake.
6. Balance rotor to minimum mils.
7. Replace the upper and lower bearings.
8. Assemble and paint to coating specifications and to match original color.
9. Deliver and install.

For the above Scope of Work GWI quoted.....**$ 2,745.00**

**Original Scope of Work as quoted per Fayette County RFQ 1272**
**Pump**

1. Remove pump assembly from Lake Horton Station.
2. Provide all lifting equipment as required for removal.
3. Transport to GWI repair facility.
4. Disassemble pump complete.
5. Inspect all wear rings, shafts, impellers and bowls.
6. Replace all bushings, bearings, and seals.
7. Evaluate for additional repairs and parts including mechanical seal.
8. Assemble and paint to manufacturers specifications.
9. Install pump at location.
10. This quote does not include replacing the wear rings and impellers.

11. This quote does not include performing machine work on shafts or bowls.

For the above Scope of Work GWI quoted.....**$ 13,058.00**

**Upon disassembly and inspection, GWI is pleased to provide the following Scope of Work and Adders for the above referenced equipment.**

**Adders to original Scope of Work:**

**Pump**

1. Manufacture 1 each new Top Shaft – Material 416 SS.
2. Manufacture 1 each new Impeller Shaft – Material 416 SS.
3. Manufacture 6 each Shaft Wear Sleeves – Material 316 SS.
4. Manufacture 2 each new Impeller Wear Rings – Material Bronze.
5. Skim 2 each Bowl Wear Rings to 100% clean up.
6. Weld and machine the bores on 2 each Impellers to reclaim proper fit.
7. Bore out existing bronze bearing from Suction Bowl in order to remove.
8. Pad weld and machine register fits on 3 each Spiders to reclaim proper fit.
9. Clean and straighten 6 each Intermediate Shafts to be reused.
10. Dynamically balance rotating element to within ISO G1.0 Specifications.
11. Replace fasteners, packing, gaskets and o rings with new.

For the above Adders, GWI quotes.....**$ 8,150.00**

**Mechanical Seal Adder:**

1. Supply and install 1 each Chesterton 442 CR/CB AFLAS Split Mechanical Seal.

For the above Mechanical Seal Adder, GWI quotes.....**$ 1,700.00**

We certainly appreciate this opportunity to work with you on this project. Should you have any questions or need additional information concerning this Scope of Work please feel free to call me at 770-467-0303.

Sincerely,

Greg Ely

Cc: David Goforth, **GWI**
Travis Williamson, **GWI**
Rebecca Goforth, **GWI**

Goforth Williamson, Inc.
373 O'Dell Road • Griffin • Georgia • 30224 • 770-467-0303 (phone) • 770-467-0301 (fax)

August 16, 2011

Fayette County Water System
3500 TDK Boulevard
Peachtree City, GA 30269

Reference: Lake Horton Raw Water Motor and Pump #3
Floway 27-FKH VTP
Serial # 41662-2-1

The following is explanation of the Adders to our original Scope of Work and Quote for the above referenced equipment.

**Adders as detailed on GWI quote 080811FLFC:**

1. ***Manufacture 1 each new Top Shaft.*** **Due to excessive wear we recommend replacing this shaft with new.**
2. ***Manufacture 1 each new Impeller/Bowl Shaft.*** **Due to wear and run out we recommend replacing this shaft with new.**
3. ***Manufacture 6 each new Shaft Wear Sleeves.*** **Due to wear we recommend replacing the wear sleeves as a normal wear item.**
4. ***Manufacture 2 each new Impeller Wear Rings.*** **Due to wear and excessive clearance, we recommend installing new wear rings to reclaim proper clearance to Bowl Wear Rings.**
5. ***Skim 2 each Bowl Wear Rings to 100% clean up.*** **Machine the wear surfaces in order to remove all wear and to reclaim proper fit to new Impeller Wear Rings.**
6. ***Weld and machine the bores on 2 each Impellers to reclaim proper fit.*** **Due to wear, we recommend welding and machining the bores on both impellers to reclaim proper fit to shaft. Impeller 1 clearance – .026". Impeller 2 clearance - .040".** .0077 .0085
7. ***Bore out existing bronze bearing from Suction Bowl in order to remove.*** **Machine/bore existing bronze bearing to remove from Suction Bowl, insuring a true bore and enabling the installation of the new bronze bearing.**
8. ***Pad weld and machine register fits on 3 Spiders to reclaim proper fit.*** **Due to excessive clearance we recommend pad welding and machine these register fits in order to reclaim the proper clearance and fit.**
9. ***Clean and straighten 6 each Intermediate Shafts to be reused.*** Shafts will be cleaned and any burrs removes. They will be checked for straightness, and straightened to within tolerance as needed. New wear sleeves will be installed.
10. ***Dynamically balance rotating element to within ISO G1.0 Specifications.*** **Impellers and bowl shaft assembly will be dynamically balanced to insure proper running conditions. A record of the final balancing will be filed in the job folder.**
11. ***Replace fasteners, packing, gaskets and o rings with new.*** **As part of the final assembly new fasteners, packing, gaskets and o rings will be installed.**

Fayette County GEORGIA

*Where Quality Is A Lifestyle*

To: Jack Krakeel

From: Ted L. Burgess

Date: August 24, 2011

Subject: Lake Horton – Raw Water Motor and Pump

In June of this year, the Purchasing Department requested price quotes from 12 vendors for the repair of the raw water motor and pump #3 at Lake Horton (please see attachment). On the due date of June 20, 2011 four of the vendors had submitted quotes. Goforth Williamson, Inc. submitted the lowest quote, at $15,803.

After Goforth Williamson removed the equipment and began repair work, it was determined that additional work costing $9,850 above the original quote would be necessary. This brings the total cost to $25,653.

Re-bidding the remaining portions of the job was considered. Goforth Williamson had removed the equipment from its installed location, transported it to their shop, dismantled it, and inspected it. If another vendor were to make a lower quote on rebuilding the equipment, this would have to be weighed against costs incurred to date, transporting it to the new location, any re-inspection and inventorying of the parts, and other costs due to changing vendors in the middle of the project. In addition, changing vendors at this point could have an impact on the warranty that would be included with the repairs.

If you need additional information, please contact me.

## REPAIR OF LAKE HORTON RAW WATER MOTOR AND PUMP # 3

| VENDOR: | MOTOR REPAIR | PUMP REPAIR | TOTAL PRICE: |
|---|---|---|---|
| GOFORTH WILLIAMSON, INC. | $ 2745.00 | $ 13,058.00 | $ 15,803.00 |
| COLE ELECTRIC TECHNOLOGY | $ 5,455.32 | $ 11,539.50 | $ 16,994.82 |
| SOUTHERN REWINDING & SALES INC. | $4,835.00 | $ 16,826.78 | $ 21,661.78 |
| INDUSTRIAL REPAIR, INC. | $ 12,935.00 | $ 57,233.00 | $ 70,168.00 |
| NELSON ELECTRIC | | | NO BID |
| GIPSON ELECTRIC | | | NO RESPONSE |
| PATS PUMP | | | NO RESPONSE |
| HEADS PLUMBING | | | NO RESPONSE |
| THOMPSON PUMP | | | NO RESPONSE |
| ABLE MECHANICAL | | | NO RESPONSE |
| PROFESSIONAL WATER SERVICES | | | NO RESPONSE |
| NEPTUNE UNDERWATER | | | NO RESPONSE |

PROJECTION: 2012 FY 2012 BUDGET

ACCOUNTS FOR:
SO FAYETTE WATER PLANT

| | VENDOR | QUANTITY | UNIT COST | 2012 APPROVED |
|---|---|---|---|---|
| 50543040 521316 - TECHNICAL SERVICES | | | | 1,600.00 |
| | 0 | 1.00 | 1,600.00 | 1,600.00 |

INCLUDES MAINTENANCE OF TURBIDIMETERS, PARTICLE COUNTERS AND OTHER EQUIPMENT. CALIBRATION IS NOW COMPLETED IN HOUSE

| | | | | |
|---|---|---|---|---|
| 50543040 522110 - DISPOSAL SERVICES | | | | 13,000.00 |
| | 0 | 1.00 | 13,000.00 | 13,000.00 |

THE PLANT HAS DRYING BEDS FOR SLUDGE GENERATED BY TREATING THE WATER. WE HAVE A CONTAINER DROPPED AT THE DRYING BEDS AND THE OPERATORS FILL THE CONTAINER. WE HAVE A SERVICE HAUL THE SLUDGE TO A LANDFILL. UNDER CURRENT RULES, THE SLUDGE IS NOT HAZARDOUS. ALSO INCLUDES DUMPSTER

| | | | | |
|---|---|---|---|---|
| 50543040 522230 - REPAIR & MAINTENANCE SERVICE | | | | 76,000.00 |
| | 0 | 1.00 | 76,000.00 | 76,000.00 |

CHEMICAL FEEDERS, MAINTENANCE AND REPAIR OF GENERATORS AND COMPRESSOR AT SOUTH FAYETTE.
REPAIR AND MAINTENANCE AT LAKE HORTON AND FLINT RIVER
EXAMPLE: A 600 HP MOTOR AND PUMP CAN COST $20,000 TO REPAIR.

| | | | | |
|---|---|---|---|---|
| 50543040 522235 - BUILDING MAINTENANCE SERVICES | | | | 10,000.00 |
| | 0 | 1.00 | 10,000.00 | 10,000.00 |

BUILDING MAINTENANCE AT SOUTH FAYETTE
ELEVATOR INSPECTION
CRANE INSPECTION FOR THREE AT $130 EACH= $390
(ONE AT FLINT RIVER AND TWO AT SOUTH FAYETTE)
HVAC MAINTENANCE

| | | | | |
|---|---|---|---|---|
| 50543040 522321 - EQUIPMENT RENTAL | | | | 250.00 |
| | 0 | 1.00 | 250.00 | 250.00 |

EXPENDITURES INCURRED REQUIRING THE RENTAL OF EQUIPMENT SUCH AS COPIERS, SPECIALIZED TOOLS AND EQUIPMENT FOR MAINTENANCE JOBS.