

A Quarterly  
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# WAUFORD

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# THE CLARIFIER

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## Project Updates

### Bristol, Tennessee

An evaluation of the condition of one of the two 1.5 MG Concrete Storage Reservoirs is scheduled to be conducted in March.

An evaluation of the existing Lakeview Drive SPS pumping capacity to handle stormwater flow and eliminate SSO's is complete and final plans and specifications will be submitted to the Owner in February.

An evaluation for the existing capacity of the SPS at the Pinnacle Development area and the Holiday Inn Booster Station is underway.

Water Treatment Plant improvements including the replacement of valves and painting of the gallery are in the planning stages.

### Chapel Hill, Tennessee

Construction on the Morningside Drive 8-

### Chapel Hill, Tennessee (Cont'd)

inch Force Main project will commence February 2019 and has a completion date of November 2019. John T. Hall Construction, Inc., of Sparta is the Contractor with a budget of \$830,334, which is being funded by a CDBG and SRF loan.

Design is underway for a 4,200 foot sewer line extension to an industrial area north of town.

A revision to the Sewer Master Plan to include new developments and WWTP renovation is underway.

### Cleveland Utilities Cleveland, Tennessee

Work is about to commence for the WWTP Alternate Disinfection Study, Biosolids Evaluation Study, and Blower Evaluation Study.

**For more  
information, please  
visit our website  
[www.jrwauford.com](http://www.jrwauford.com)**

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## Project Updates

### Columbia, Tennessee

All reports required for the EPA Administrative Order of Consent have been submitted. The first project required by the Order consists of the renovation of the Santa Fe SPS and GE SPS. A meeting with the electrical engineer has been conducted and design is nearing completion.

Project scope maps have been prepared and field work is to begin soon in relation to sewer system rehabilitation.

### Crossville, Tennessee

Improvements at the Meadow Park WTP and Holiday WTP are complete with punch list items remaining.

Draft plans and specifications for the Meadow Park Lake sewer and water line have been submitted to the Owner for review. This project consists of 6,000 L.F. of 10-inch water line and 16,000 L.F. of 4-inch low pressure sewer. This project reinforces the water transmission system as well as providing sewer service to the Meadow Park Lake area.

A preliminary study to determine the alternatives to supply the future raw water needs of Crossville has been presented to the Owner.

### Dayton, Tennessee

Design of the new 4.0 MGD SBR WWTP is approximately 50 percent complete. Design of the Third Avenue gravity conveyance line is complete.

An application for EDA funding has been submitted for \$2.8M for the WWTP portion of the work.

Design of a \$525,000 CDBG for sewer rehabilitation is complete. This project consists of the replacement of two small diameter sewer crossings under Highway 27 with a new 24-inch sewer.

The \$269,290 State Route 30 utility relocation project, with Mayse Construction Company of Chattanooga, TN, is nearing completion with only easement related work remaining.

Preliminary work is complete for water supply to the Summer City System consisting of 54,000 L.F. of water line, a 750,000 gallon elevated storage tank, and two 2,100 GPM booster stations.

Award for a \$1M ARC grant was submitted for a new 500,000 gallon water tank and 16-inch water line to in-

### Dayton, Tennessee (Cont'd)

crease flow to the Nokian Tire site. Design is complete and plans and specs have been submitted to the funding agency.

### Fentress County Utility District Fentress County, Tennessee

Design work is underway for the Highway 127/62 utility relocation project through TDOT, which has a letting date of December 2019.

Construction on the 12-inch Water Transmission Line from FCUD's Clarkrange Tank to the Industrial Park is almost complete with John T. Hall Construction, Inc., of Sparta, TN the Contractor at \$376,717.05. Water lines are installed, pressure testing is complete, and bacteriological testing and final clean up are to be completed soon. The project is being funded through a TN ECD Site Development Grant for the Fentress County Industrial Development Board.

Plans and specs are complete for the painting of the Pinehaven Tank. Survey is scheduled for the North Booster Station. A Telemetry RFP is out for review from vendors.

### Halls, Tennessee

The semi-annual report has been submitted for the pre-treatment program.

SCADA System Upgrades are complete.

### Henderson Water Utility Henderson, Kentucky

Bids for the Myrene Drive Sewage Pumping Station project will be opened February 6, 2019. This contract is the first of four and includes replacement of an existing submersible sewage pump station.

Improvements to the South WWTP Aeration Basins are complete. All three basins are in service with only punch list items remaining. The Contractor is M. Bowling, Inc. of Henderson, KY with a budget of \$3.2 million.

A preliminary engineering report for the South WTP Temporary Backwash Pumps has been submitted for the Owner's use in preparing grant applications. Design will be completed once a funding source has been determined.

### Henderson Water Utility Henderson, Kentucky (Cont'd)



**Aeration Basin Renovation Progress  
Henderson Water Utility  
Henderson, Kentucky**



**Belt Press  
Henderson Water Utility  
Henderson, Kentucky**

A project to renovate the biosolids dewatering presses at the Henderson South Wastewater Treatment Plant is underway. M. Bowling, Inc. of Henderson, Kentucky is the Contractor.

### Hohenwald, Tennessee

A \$525,000 CDBG was awarded for an electrical upgrade to the Swan Avenue Well and to continue water system leakage rehab. Survey is underway.

Lewis County, in partnership with Hohenwald, was awarded a \$525,000 CDBG for continuing water system leakage rehabilitation at Cane Creek Road, S. Oak

### Hohenwald, Tennessee (Cont'd)

Street, and replacement of residential service lines. Contracting Services is the Contractor with a \$502,785 budget. The water line has been laid and will be available for service after the bac-T test. 25% of services have been installed.

The Buffalo Road water line is complete.

### Hopkinsville Water Environment Authority (HWEA), Hopkinsville, Kentucky

Plans are being finalized and will be submitted to KDOW in February for the Hammond Wood WWTP Expansion. This \$40 million project includes a new influent pumping station with coarse screening, headworks with fine screening and grit removal, anaerobic zone with submersible mixers for enhanced biological phosphorus removal, renovation of the existing oxidation ditches, fine bubble aeration and submersible mixers, new 110 foot diameter final clarifier, renovation of the existing return activated sludge pumping station, renovation of the existing chemical feed facilities, and permanent chemical feed facilities for peracetic acid disinfection. Biosolids are proposed to be stored in two 750,000 gallon aerated prestressed concrete sludge holding tanks before being dewatered by screw presses and solar dryers resulting in a class "A" product. A new operations and laboratory building is also being designed which includes facilities for operator training.

### Humboldt, Tennessee

Design is complete for the new 5.0 MGD Wastewater Treatment Plant which includes a \$2.87M grant received from Economic Development Administration (EDA). Approval from TDEC has been received.

Plans for the Water Treatment Plant, new Municipal Supply Well, and Gibson County Industrial Park Elevated Water Storage Tank have been approved by TDEC.

A \$500,000 Site Development Grant through TN ECD was awarded for sewer service to the Gibson County Industrial Park. Bids will be received on February 20.

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## Project Updates

### Humboldt, Tennessee (Cont'd)

The new Grit Removal System at the Wastewater Treatment Plant is complete and closed out.



**Grit Removal System  
Humboldt Utilities  
Humboldt, Tennessee**

The NPDES Permit for the new Sequencing Batch Reactor (SBR) plant has been received.

Design is complete for the Water Distribution Improvements project and has been submitted to TDEC for approval.

### Huntingdon, Tennessee

Design is underway for the \$525,000 CDBG for sewer improvements.

Bids for the FastTrack project for the replacement of the Buena Vista Road sewer pumping station were opened with Barsto Construction being the low bidder at \$401,096.

Bids for the Highway 22 Disinfection System Improvements project were opened with Miller Construction being the low bidder. Construction will begin soon.

Design is complete for the Lake Area Sewer Service Extension project and has been submitted to TDEC.

A grant was awarded to the Carroll County Watershed Authority for a Pavilion and Walking Trail and design will begin soon.

Cost estimates are being prepared for AMR water meters and water extension project.

### Kingston, Tennessee

Design is complete for the Galilean Road Water Line Extension project which consists of 6,000 L.F. of 6-inch water line. This project was installed using in-house forces.

### Jackson Energy Authority (JEA) Jackson, Tennessee

Progress continues on the \$13.3M Disaster Community Development Block Grant focusing on five separate projects. The first project, 54-inch Riverside Interceptor Rehabilitation, is complete and closed out.

Construction for the Johnson Creek and SFFD River SPS renovation project, which was awarded to Ronald Franks in the amount of \$1,150,000, has begun with the Contractor working on South Fork SPS electrical and concrete block work. Work has not yet begun on Johnson Creek SPS.

A bid opening was held on January 17 for the Miller Avenue Wastewater Treatment Plant Improvements. W. Rogers Co. was the low bidder.

Bids for the HDD Water Line River Crossings were opened December 5, 2018. The low bidder was Memphis Road Boring Co., Inc. of Byhalia, MS at \$988,070.90.

### Lawrenceburg Utility Systems Lawrenceburg, Tennessee

A final report for renovation of the 8.0 MGD Water Treatment Plant has been submitted to the Owner. A meeting has been conducted to evaluate funding sources.

### Lewisburg, Tennessee

Construction of the WWTP Chemical Feed Building is underway with Contracting Services, Inc. of Culleoka, TN at \$1,091,743. The Contractor has leveled the site, relocated necessary utilities, and laid out building perimeters. The project has a completion date of June 1, 2019.

a CLEAN, adequate supply of drinking water  
and PROPERLY TREATED wastewater  
**THIS IS OUR BUSINESS**

## Project Updates

### Lewisburg, Tennessee (Cont'd)

Construction of water and sewer relocations for State Route 50/431 is expected to be complete soon with 200 L.F. of water lines remaining to be installed as well as 1,350 L.F. of sewer lines and nine manholes.

Construction for the replacement of an existing 18-inch sewer with a new 24-inch sewer has begun with John T. Hall Construction being the low bidder at \$553,424. This project is funded by a \$525,000 CDBG and has a completion date of March 2019.

Construction for the Snell Branch Sewage Pumping Station Renovation project with Richland, LLC of Pulaski, TN at \$1,059,850, has begun with major grading and filling complete.

### Livingston, Tennessee

The WWTP renovation project, funded by a \$525,000 CDBG, has begun with W&O Construction of Livingston, TN being the Contractor. The bar screen has been installed and startup will take place soon. The Contractor is currently installing air lines in Basin No. 1. The project has a completion date of January 31, 2019.



**Installation of the Traveling Screen at the WWTP  
Livingston, Tennessee**

Construction for the Monroe Water System Improvements project, with John T. Hall Construction of Sparta, TN, is complete and closed out.

### Livingston, Tennessee (Cont'd)

Construction for the Sewage Pumping Stations Renovation project, with John T. Hall Construction of Sparta, TN being the low bidder at \$473,850, has begun with the Taylor Street SPS start up successful. The sewer has been installed and work has started at the County Plant SPS. The project consists of the renovation of two sewage pumping stations and 1,400 L.F. of sewer line.

Aerial survey work for the Hilham Water System Improvements is complete.

### Madisonville, Kentucky

Construction of Contract 17-01, 10,000 L.F. of new 6 & 8-inch water lines and a new booster station, is nearly complete with Bobby Luttrell & Sons, LLC the low bidder at \$675,446. Phoenix Fabricators and Erectors, LLC is the low bidder for Contract 17-02, the new 250,000 gallon tank, at \$734,500. The new 250,000 gallon elevated tank for the new north high pressure zone project is complete. The pipework is complete and the Contractor has scheduled startup for Contract 17-01.



**250,000 Gallon Pedosphere Water Tank  
Madisonville, Kentucky**



## Project Updates

### Madisonville, Kentucky (Cont'd)



**Renfro Drive Water Booster Station  
Madisonville, Kentucky**

### Maryville, Tennessee

Design of a new Sludge Thickener Building and two new belt presses is 50 percent complete. A preliminary Alternative Disinfection Study is underway to investigate the use of alternate disinfectants and technologies at the WWTP.

### Ohio County Water District Ohio County, Kentucky

The Hoover Hill Interconnect Water Line project, with Ernie Davis & Sons Mechanical Inc. of Owensboro, Kentucky being the Contractor, has begun. The road bore is complete and 60 percent of lines have been laid. The total project cost is \$276,303.

### Paducah McCracken Joint Sewer Agency (JSA) Paducah, Kentucky

Construction on the 15 MG Prestressed Concrete Combined Sewer Storage Tank\*, with Crom being the Contractor at \$6,700,000, has begun. Stone preload work is complete. Test piles have been installed and pile work has begun. This tank is proposed to store wet weather combined sewer flows and will utilize a deep pile foundation. The project has a completion date of September 4, 2019. \*Aerial photo on last page.

### Paducah McCracken Joint Sewer Agency (JSA) Paducah, Kentucky (Cont'd)



**15 MG Prestressed Concrete Tank Progress  
Paducah, Kentucky**

### Pulaski, Tennessee

The Industrial Wastewater Survey (IWS) and calculation of the Plant Protection Criteria and Industrial Wastewater Discharge Limits (local limits) have been submitted to TDEC for approval.

Construction for the \$435,085.08 rehabilitation of approximately 5,000 L.F. of gravity sewer using pipe bursting methods is substantially complete with Contractor MG Underground, LLC. Contractor is completing punch list items.

Field investigations of all aerial sewer crossings are complete and preparation of the CAP/ER is underway. A proposal from MR Systems for system integrators in relation to the WTP Controls and Tank Telemetry was recommended to the Owner with a cost of \$553,471.

Bids for the West College Street Sewer Replacement project were opened August 14 with the low bidder being LTS Construction, LLC of Winchester, TN at \$124,760. Work is scheduled to begin soon.

### **Savannah, Tennessee**

Final plans have been submitted to TDOT for the SR128 project from Pyburns Road to Airport Road.

A final NPDES Permit renewal is in process.

Design of a \$525,000 CDBG for sewer rehabilitation is underway.

Construction of the new Influent Force Main at the WWTP is complete and closed out.

The semi-annual report has been submitted and assistance was provided for the pretreatment compliance inspection.

### **Shelbyville Power, Water & Sewerage System (PW&SS), Shelbyville, Tennessee**

The IWS and local limits have been submitted to the State for preliminary approval before adoption.

Bids for the 2017 CDBG Phase III Sewer Rehab project have been received with John T. Hall Construction, Inc. of Sparta, TN being the low bidder at \$770,470. Construction will begin February 7.

Construction at the Shoffner-Bomar and U.S. Pencil SPS sites is ongoing. The Shoffner-Bomar SPS structure is complete and the Contractor is working on the electrical. Slabs have been placed at U.S. Pencil SPS and concrete structures are scheduled to arrive soon. Gillispie Construction is the Contractor on the project at \$722,000.

The Duck River Dam Evaluation is underway.

A preliminary engineering report for water system improvements is underway for inclusion in the 2019 CDBG application.

### **Smithville, Tennessee**

Technical assistance continues to be provided for pretreatment.

### **Trenton Light and Water Trenton, Tennessee**

Construction of the new 1.6 MGD Sequencing Batch Reactor (SBR) Wastewater Treatment Plant is approaching completion with Smith Contractors being the General Contractor at a project cost of \$8,888,000. Work continues on the headworks and the SBR equipment is currently being installed. The project completion date is May 2019.

### **Trenton Light and Water (Cont'd) Trenton, Tennessee**



**1.6 MGD SBR WWTP  
Trenton, Tennessee**

Survey work for the 2018 CDBG project is complete and design is beginning.

### **Union City, Tennessee**

A constructability meeting for the I-69, Phase II and State Route 5 was conducted September 5 and the project's current let date is December 2018.

The Delta Regional Authority Grant, in the amount of \$300,000 for water improvements to the Industrial Park for the SR-21 watershed, is complete and closed out. The Contractor is Marbury Construction with a bid of \$355,036.

### **Water Authority of Dickson County Dickson, Tennessee**

A draft report for the Jones Creek WWTP Sludge Study which consists of the installation of new screw press and use of existing digesters to produce Class "B" sludge has been provided to the Owner.

A draft report has been submitted to the Owner related to the Jones Creek Drip Irrigation Site. This project proposes the purchase of land for drip irrigation near the plant.





**Aerial Photo of the 15 MG Prestressed Concrete Tank under construction for the Paducah McCracken Joint Sewer Agency (JSA) in Paducah, Kentucky. The purpose of the tank is to store peak combined sewer flows to reduce discharge to the Ohio River. Due to foundation issues, the tank is being supported by approximately 400 auger cast concrete piles installed 95 feet below the surface. The 145 foot tall auger drill is shown in the center of this picture installing piles; steel reinforcing cages are stacked in the foreground.**

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