



# CITY OF HOT SPRINGS

Utilities Department

780 Adams Street

Hot Springs, Arkansas 71901

September 8, 2022

VIA Email

Leslie Allen-Daniel  
Enforcement Analyst – Water Division  
Arkansas Energy & Environment – Environmental Quality  
5301 Northshore Drive  
North Little Rock, AR 72118-5317

**RE: City of Hot Springs Utilities  
Permit No. AR0033880 / AFIN 26-00145 / CAO LIS 08-099-002  
Semi-Annual Report**

Dear Ms. Allen-Daniel,

This semi-annual report is submitted to the Arkansas Energy & Environment, Division of Environmental Quality to comply with CAO LIS 08-009-002. The City of Hot Springs continues efforts addressing the issues facing the Davidson Drive Wastewater Treatment Plant (Regional) and the sanitary sewer overflows in the wastewater collection system.

We remain committed to completing the milestones set by the CAO:

- Complete Regional Plant improvements to address effluent limitation exceedances by December 21, 2024
- Complete collection system improvements to address all SSOs by December 31, 2030.

The funding is made available by 2020 Wastewater Bond Funds and Capital Improvement funding.

## **DAVIDSON DRIVE WASTEWATER TREATMENT PLANT IMPROVEMENTS (Regional)**

Progress is continuing at the Davidson Drive Plant. On January 6, 2022 the Aqua-Aerobic Filter System was placed in service. The cloth filtration system is designed to remove a significant amount of Total Suspended Solids from the effluent just prior to UV Disinfection. The technology has resulted in a significant decrease in TSS leaving the plant. Other efforts include:

- Maintenance and cleaning of one primary and two secondary clarifiers.
  - Emptied the Equalization Pond
  - Performed upgrades to our yard water system
  - Cleaned a return activated sludge (RAS) line to a secondary clarifier
  - Cleaned chemical tank
  - Improved detention rates in sludge thickener, enhancing the digestion process.
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To date the City has expended a little over \$1.6 million at the Davidson Drive facility with another \$722,777 encumbered.

## COLLECTION SYSTEM IMPROVEMENTS

The City has spent \$1.27 million on improvements to the collection system designed to eliminate sanitary sewer overflows and reduce the influent entering our treatment facilities. Another \$2.47 million is encumbered. The following tables display the most recent contracted milestones for each collection system improvement element.

### Spring Street Collection System Improvements – Hawkins-Weir Engineers, Inc.

Item No.	Begin	End	Description
1	3/3/22	9/25/22	Design Phase Services.
2	3/30/22	Ongoing	Survey – Crist has completed the topographic survey as well as locating all of the existing sewer manholes and 95% of the existing utilities. They are in the process of completing the easement exhibits for the proposed improvements.
3	8/3/22	8/31/22	CHS and Hawkins-Weir (HW) met to review 60% construction plans.
4	9/8/22	Ongoing	Permitting - HW submitted plans and specifications to ADH on 9/8/22. Plans are anticipated to be submitted to ArDOT the week of 9/12/22. HW is in the process of answering all plan review comments from the National Park Service.
5	9/25/22	11/9/22	Bidding and Negotiation Services.
6	10/26/22	3/31/24	Construction Services.

### Gulpha Pump Station Improvements – Crist Engineers

Item No.	Begin	End	Description
1	3/22/22	Ongoing	Engagement of professional services with Crist Engineers
		7/1/2022	Conceptual Design Phase
		9/1/2022	60% Design Phase
		1/1/2023	90% Design Phase
		3/1/2023	100% Design Phase
2	3/22/22	4/8/22	On site survey on the pump station site, planimetrics, surface features, and contour development.
3	3/22/22	Ongoing	Commenced initial hydraulic evaluation of pump alternatives for pump station site. Acceptable pump manufacturers are Cornell, Fairbanks and Flygt.
4	3/22/22	Ongoing	Design Phase Services – Meeting next week to coordinate with Gulpha Force Main Consulting Engineer, Hanson & McLaughlin, LLC.
5	3/1/23	5/1/23	Bidding and Negotiation Services.
6	5/1/23	9/1/24	Construction Phase Services.

### Gulpha Force Main – Hanson Mclaughlin

Item No.	Begin	End	Description
1	3/15/22	12/31/23	Gulpha 36-Inch Force Main contract signed.
2	3/15/22	Ongoing	Surveying and geotechnical engineering proposals received.
6	4/8/22	Ongoing	Design Process.
7	4/8/22	Ongoing	Project Manual (specifications) preparation.
8	4/15/22	Complete	30% Plan Submittal.
9	6/1/22	7/31/22	60% Plan Submittal.
10	10/1/22	12/31/22	100% Plan Submittal.
11	1/1/23	4/31/23	Bid Phase/Procurement Services.
12	5/1/23	12/31/23	Construction Phase Services.

### Lower Gulpha Interceptor – RJN Group

Item No.	Begin	End	Description
1	3/22/22	9/16/22	Conceptual Design Report Draft (anticipated schedule).
2	3/22/22	9/16/22	30% Plan Submittal (anticipated schedule).
3	3/22/22	1/21/23	Conceptual Design Report Final (anticipated schedule).
4	3/22/22	1/21/23	60% Plan Submittal (anticipated schedule).

### Sub Consultants

5	3/22/22	Ongoing	Crist Survey – Crist submitted full topo deliverable Due to alignment edits,, additional survey is required. Deliverable is expected by the end of September 2022.
6	3/22/22	Ongoing	Ace Pipe – Multi-Sensor Inspection – completed field work and submitted summary documentation. RJN in process of reviewing data.
7	3/22/22	Ongoing	Eco Environmental - Completed USFWS IPAC and correspondence with USFWS Bat Biologist for tree cutting dates. Also completed the request for comments letter to SHPO. Awaiting design progression.
8	4/29/22	N/A	Grubbs Geotechnical – Field work on initial 15 holes are in progress.

Other activities related within the Collections division include:

- Raising manholes in the Hot Springs Creek basin related to inflow and infiltration
  - Increased monitoring of the Hot Spring Creek Pump Station and Manholes 12242, 1865 and 1866
  - Routine CCTV inspection of sewer mains
  - Ongoing removal of roots/debris from mains
  - Repair and replacement of defective mains and services
  - Routine hydro flushing of mains and services
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- Disconnection of abandoned services
- Manhole rehabilitation (I&I)

Should you need further information, please contact me at (501)651-7730 or by email at [mledbetter@cityhs.net](mailto:mledbetter@cityhs.net).

Sincerely,



Monty Ledbetter  
Utilities Director

cc: **Arkansas Energy & Environment** | Richard Healey, Enforcement Manager  
**City of Hot Springs** - Bill Burrough, City Manager; Denny McPhate, Deputy City Manager; Harold Mauldin, Wastewater Facilities Operations Manager; Todd Piller, Capital Project Manager;  
**Consultants** - Karl Hanson, Hanson McLaughlin; Chris Leathers, RJN Group; Craig Johnson, Crist Engineers; Elizabeth Heiles, Hawkins-Weir Engineers

