



FISHER ARNOLD
ENGINEERING INTEGRATION

December 4, 2019

Ms. Danielle E. Harbin
Office of Water Quality
Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, Arkansas 72118-5317

**RE: UPDATE ON ACTIVITIES FOR CORRECTIVE ACTION PLAN
WEST MEMPHIS UTILITIES
NPDES PERMIT NUMBER AR0022039, AFIN 18-00879**

Dear Ms. Harbin:

On behalf of West Memphis Utilities (WMU), please accept the following as an update of activities undertaken since our last update in June 2019. As outlined in the CAP, WMU outlined a plan of action to begin this year and continue at least through 2022. Listed below is a capsule summary of those activities either completed or underway since the CAP was implemented.

1. WMU continues to meet monthly with their CAP Working Group. Members of this group include Todd Pedersen, General Manager WMU; Ward Wimbish, Asst. General Manager, WMU; AJ Elhaj, and Madeline Stokes, all engineers with WMU; Denise Bosnick, Director of Environmental Quality, WMU; and Paul Holloway, WWTP Manager, WMU. Also included in these monthly meetings as necessary are Tim Verner, P.E., Jeff Old, P.E. and Nate Kendall, P.E., Fisher & Arnold, and Mac Compton, P.E., RJN Group. This group directs and tracks ongoing efforts by WMU staff and all outside consultants and contractors relative to efforts towards the elimination of systemwide SSOs.
2. The RJN Group has issued their Final Report of their West Memphis Wastewater Capacity Analysis and Augmentation Options (Copy attached).
3. The RJN Group continues to perform the SSES of Basins 10N, 10A, 13A-3, 15A-2 and 17-2 (Map previously supplied to ADEQ in June 2019 Status Update)a more detailed study area map is attached). All sewer manhole inspections have been completed as well as smoke

9180 Crestwyn Hills Drive
Memphis, TN 38125

901.748.1811
Fax: 901.748.3115
Toll Free: 1.888.583.9724

www.fisherarnold.com

testing. Commencement on CCTV and dye water testing is scheduled for December 2019. A Draft Report is expected in March 2020. The results of this report will be used to determine the 2020 rehabilitation work.

4. A hydraulic model of the WMU WWTP has been constructed by Fisher & Arnold, Inc. Using the output hydrograph developed by RJN's collection system model for a 2-yr return design storm event as the input hydrograph in this WWTF model, three plant short-comings have been identified as limiting factors in the facility's ability to handle anticipated flows from this design storm. These deficiencies as well as suggested improvements are outlined in Fisher & Arnold's WWTF Recommended Hydraulic Improvement Report to be delivered to WMU and ADEQ by December 31, 2019.
5. A total of 189 of the 550 sanitary manholes in Basins 3, 4, 8 and 17 designated to be rehabilitated have been completed to date by ICM Technologies. Work on these efforts with an anticipated completion date of January 2020.
6. Work to replace Pump Station No. 1 is complete and the new station is in operation.
7. The city has completed the replacement of the mechanical bar screens at the WWTP.
8. Pump Station assessment for stations 3, 7 and 15 has been completed. As a result of these assessments, WMU has followed through and replaced the pumps in Station No. 3.
9. WMU has contracted with Chris-Hill Construction for the repair of several large diameter sewer point repairs. The total contract amount is \$1,820,458.00 and work commenced on the first repair on November 13, 2019. Work should be completed by the end of February 2020.

Considering the activities described above, WMU has committed over \$810,900.00 in professional fees to accomplish these near-term efforts to assess their existing sewer system and to develop plans and specifications with the end goal of elimination of SSOs and WWTP bypasses. Additionally, over \$3,209,450.00 in construction contracts for sewer system equipment and rehabilitation has been spent or obligated in construction contracts.

Hopefully this summary of activities is useful to you and your staff and demonstrates the commitment of WMU to eliminate SSOs in their collection system and WWTP bypasses. If you require any additional information, please do not hesitate to contact me at this office.

Ms. Danielle E. Harbin
December 4, 2019
Page 3

Sincerely,

FISHER & ARNOLD, INC.



Tim Verner, P.E.
Senior Vice President

TV/tv

Encl: RJN Capacity Analysis and Augmentation Study

Cc: Todd Pedersen, General Manager, WMU