# BENTON UTILITIES
BENTON, ARKANSAS

January 08, 2021

Leslie Allen-Daniel, Enforcement Coordinator
Office of Water Quality / Enforcement Section
Division of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118

RE: NPDES Permit No. AR0036498, AFIN 63-00063
CAO LIS 11-069 / SSES Review

Dear Ms. Allen-Daniel,

This letter comprises the Benton Utilities Wastewater Conveyance system 2020 annual report , and affirm our efforts to satisfy the demands of the Consent Administrative Order issued in 2011. 2020 has come with many challenges with the wide spread of Covid-19 and its effects on our department, contractors that we use and part suppliers. I am grateful to report that even with the challenges with Covid-19 we have had a very productive year in our efforts to reduce sanitary sewer overflows as well as infiltration and inflow issues. Overall, we have had a productive year in an increasingly rapid growing city with expanding infrastructure and capacity demands. With the help and support from our General Manager, Mr. David Vondran, P.E. and Benton Public Utility Commission we have been able to rehab many lift stations that have been a problem, replacing many pumps in our system, we have also hit some of the bad areas with pipe bursting to reduce sewer stoppages and overflows. We have had numerous subdivisions, commercial buildings, retail complexes, and other significant development all come online. Consequently, this growth has challenged our resources, but we still feel we are on our way of satisfying the demands of the C.A.O. before the 2023 deadline.

In keeping with the objectives outlined in the Sewer System Evaluation Study (SSES), we continue to place special emphasis on the significant reduction of sanitary sewer overflows as well as inflow and infiltration issues throughout the system. We have pursued these objectives by (1) gravity line repairs and replacement, (2) manhole rehabilitation, repairs and replacement, (3) addition of equipment, (4) upgrades and rehabilitation of lift stations, (5) proactive and preventative maintenance, and (6) strategic planning.

Some highlights of the year have been significant in helping grow our sewer infrastructure while repairing problems that cause overflows in our system. We have done a total rehab on 4 lift stations and replaced 14 lift stations pumps. We are making significant changes with SCADA system. We have installed Flygt Multismart pump station manager to let us use remote control programming, pump reversal to remove blockages automatically, pump efficiency to ensure intelligent maintenance and capital improvements at our major lift stations. We are also have started changing out our PumpAlarm notification system to a better monitoring system of HighTide at our smaller stations. We have installed 13 High Tide units and 4 Flygt Multismart units.



WASTEWATER TREATMENT MANAGER • 616 W. HAZEL STREET • BENTON, ARKANSAS 72015 • 501-776-5982

The following chart represents statistical data of the sewer system.

| Benton Wastewater Conveyance Statistical Data-2020 | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JOB DATA: | JAN | FEB | MAR | APR | MAY | JUNE | JULY | AUG | SEP | OCT | NOV | DEC | TOTAL |
| Generators check | 16 | 16 | 16 | 14 | 16 | 16 | 17 | 17 | 17 | 17 | 17 | 17 | 196 |
| CAO GRAVITY REPAIR-PIPE BURST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 495 |
| Manhole SSES/CAO- work/inspect. | 6 | 2 | 89 | 56 | 84 | 48 | 30 | 30 | 10 | 0 | 0 | 0 | 355 |
| M.H -Lined/Patched/Repair/cleaned | 6 | 5 | 10 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 24 |
| NO. OF L/S FAILURES or work done | 30 | 5 | 20 | 13 | 21 | 19 | 18 | 10 | 15 | 14 | 17 | 19 | 337 |
| NO. OF LIFTSTATIONS OVERFLOW | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 2 |
| NO. OF LIFT STATIONS CLEANED | 22 | 24 | 19 | 22 | 16 | 25 | 28 | 22 | 23 | 12 | 23 | 18 | 254 |
| Survey sewer mains/ manholes | 0 | 17 | 3 | 18 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 44 |
| No. Sewer Main overflow | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 5 |
| NO. OF MANHOLES OVERFLOW | 2 | 0 | 4 | 1 | 1 | 2 | 0 | 1 | 1 | 2 | 1 | 1 | 16 |
| AIR RELIEF /Force main- Overflow | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 1 | 5 |
| Call out not sewer-storm water issue | 0 | 2 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 6 |
| NO. Line blockage call (not ours) | 10 | 7 | 5 | 7 | 10 | 7 | 4 | 2 | 7 | 2 | 3 | 3 | 66 |
| NO. OF SEWER LINES BLOCKAGE | 5 | 6 | 10 | 3 | 1 | 6 | 3 | 1 | 4 | 4 | 5 | 7 | 53 |
| NO. OF FT OF SEWER LINE CLEANED | 4144' | 14,547' | 3038' | 5127' | 6668' | 1,152 | 995 | 7,514 | 1,433 | 9104 | 1,483 | 1,974 | 57,182' |
| NO. OF FT PIPE BURSTED | 620' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1156' | 0 | 1,776 |
| POINT REPAIR DUE TO BORING CO. or Contractor | 1 | 2/ 10' | 1 | 0 | 0 | 1 | 1/12' | 1/8' | 1/6' | 0 | 4/12' | 3 | 15 |
| SEWER POINT REPAIRS | 0 | 2/ 20' | 4/16' | 2/5' | 0 | 0 | 1/20' | 2/12' | 3/23' | 2/12' | 4/14' | 4/10' | 24 |
| Station/ Right of way/M.H-spray,cut | 0 | 0 | 38 | 60 | 43 | 72 | 65 | 24 | 23 | 0 | 0 | 0 | 325 |
| Right of Ways cleared cut | 0 | 2/ 13MH | 4/32MH | 7/55MH | 0 | 1/6MH | 0 | 3/15MH | 5 | 0 | 0 | 0 | 22/126MH |
| NO. Monthly Liftstations Inspected | 447 | 382 | 382 | 463 | 340 | 469 | 343 | 364 | 371 | 376 | 364 | 374 | 4,675 |
| NO. OF SEWER INSPECTIONS | 30 | 22 | 34 | 16 | 28 | 43 | 40 | 35 | 28 | 39 | 32 | 31 | 378 |
| NO. OF GREASE TRAPS INSPECTED | 163 | 0 | 0 | 158 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 324 |
| NO. OF FT OF SEWER LINE CAMERA | 1830' | 3579' | 1862' | 125' | 1531' | 1272' | 2214' | 1924' | 1450 | 2337 | 100' | 548 | 18,772' |
| ASST. OTHER DEPT. | 0 | 0 | 1 | 1 | 1 | 0 | 3 | 2 | 3 | 0 | 3 | 1 | 15 |

Summarily, the spreadsheet documents problems within the system, but also significant efforts that were made in preventative and proactive maintenance to curtail these issues. We have had 16 manhole sanitary sewer overflows (SSO's) were recorded in 2020 from 22 sanitary sewer overflows (SSO's) recorded in 2019, 5 air relief and force main overflows in 2020 due to contractor error. At the same time, some 57,182' linear feet (10.8 miles) of sewer main cleaned with our jet-vac. Targeted pipe bursting (2,271 linear feet) done in areas plagued with inflow and infiltration (I & I) problems, and 39 sewer point repairs. Moreover, there was 18,772 linear feet of sewer line video inspected to identify line deficiencies and issues. There was a total of 379 manholes in which repairs and rehabilitation work were performed. There were 2 lift stations that had SSO's in 2020 from 4 lift stations recording SSO's in 2019, but there were also 254 lift station cleanings (jet-vac) done with a total of 4,675 lift station inspections. In an effort to keep oil and grease out of the system and from entering the treatment plant, 324 inspections were performed on grease traps.

These numbers demonstrate that real effort and resources are being expended in the war against system failures. We feel, both statistically and practically, that we are making good progress in satisfying the requirements of the C.A.O. The following spreadsheet further illustrates this regarding manhole repairs.

**Benton Utilities Wastewater Conveyance Manhole Repair Record**

| | | | Surface Above Manhole | | | | | | Priority Need for Repair | | | | | Repair Requirement | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Basin Number | Total No. Manholes | Unable to Access | Concrete Pave | Asphalt Pave | Sidewalk Pave | Gravel | Grass | Wood | None | 1st | 2nd | Low | No Access/Not able to perform inspection | Replace Manhole | Bench & Trough or Around Pipe | Remove Roots | Replace Cover | Raise Rim | Seal Rim or Extension | Cementious Lining | Total number of manholes still needing repair |
| BASIN NO. 1 | 110 | 10 | 0 | 3 | 0 | 3 | 76 | 18 | 81 | 2 | 3 | 14 | 13 | 0 | 3 | 2 | 0 | 17 | 18 | 6 | 59 |
| Manhole Repairs Still Needed on CAO | | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BASIN NO. 2 | 495 | 116 | 12 | 96 | 9 | 0 | 221 | 57 | 351 | 0 | 14 | 14 | 117 | 0 | 18 | 4 | 9 | 115 | 8 | 9 | 280 |
| Manhole Repairs Still Needed on CAO | | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 19 |
| BASIN NO. 3 | 657 | 128 | 30 | 241 | 0 | 11 | 226 | 90 | 445 | 8 | 36 | 40 | 128 | 0 | 51 | 22 | 16 | 106 | 23 | 46 | 392 |
| Manhole Repairs Still Needed on CAO | | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 32 | 0 | 1 | 33 |
| BASIN NO. 4 | 217 | 26 | 3 | 125 | 6 | 7 | 63 | 7 | 173 | 0 | 13 | 5 | 26 | 0 | 4 | 1 | 1 | 27 | 3 | 11 | 73 |
| Manhole Repairs Still Needed on CAO | | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 |
| BASIN NO. 5 | 594 | 35 | 4 | 344 | 4 | 20 | 160 | 62 | 458 | 4 | 67 | 30 | 35 | 0 | 54 | 17 | 18 | 46 | 27 | 56 | 253 |
| Manhole Repairs Still Needed on CAO | | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 13 |
| BASIN NO. 6 | 210 | 14 | 2 | 75 | 0 | 16 | 78 | 37 | 130 | 0 | 18 | 48 | 14 | 0 | 24 | 9 | 3 | 24 | 28 | 18 | 120 |
| Manhole Repairs Still Needed on CAO | | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 |
| BASIN NO. 7 | 124 | 37 | 1 | 38 | 0 | 4 | 34 | 4 | 72 | 0 | 6 | 9 | 37 | 0 | 2 | 4 | 0 | 36 | 8 | 2 | 89 |
| Manhole Repairs Still Needed on CAO | | | | | | | | | | | | | | 0 | 1 | 1 | 0 | 3 | 0 | 0 | 5 |
| BASIN NO. 8 | 388 | 72 | 2 | 134 | 0 | 12 | 183 | 37 | 291 | 0 | 6 | 19 | 72 | 1 | 8 | 5 | 6 | 81 | 5 | 1 | 179 |
| Manhole Repairs Still Needed on CAO | | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 8 |
| BASIN NO. 9 | 107 | 2 | 5 | 29 | 0 | 6 | 43 | 20 | 70 | 1 | 4 | 30 | 2 | 0 | 15 | 4 | 1 | 4 | 18 | 7 | 51 |
| Manhole Repairs Still Needed on CAO | | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 |
| BASIN No. 10 | 949 | 46 | 34 | 239 | 21 | 12 | 531 | 78 | 456 | 4 | 157 | 286 | 46 | 3 | 364 | 48 | 60 | 126 | 195 | 195 | 1037 |
| Manhole Repairs Still Needed on CAO | | | | | | | | | | | | | | 0 | 3 | 26 | 0 | 0 | 0 | 0 | 29 |
| BASIN NO. 11 | 540 | 5 | 26 | 54 | 94 | 15 | 337 | 12 | 409 | 1 | 8 | 117 | 5 | 1 | 48 | 5 | 3 | 47 | 73 | 4 | 186 |
| Manhole Repairs Still Needed on CAO | | | | | | | | | | | | | | 0 | 0 | 1 | 0 | 0 | 27 | 0 | 28 |
| | | | | | | | | | | | | | | | | | | | | | |
| Total number of repairs we started from on the CAO report: | | | | | | | | | | | | | 495 | 2 | 444 | 116 | 79 | 574 | 316 | 340 | 1871 |
| Total number of repairs left from all basins: | | | | | | | | | | | | | | 0 | 4 | 28 | 0 | 80 | 32 | 1 | 145 |
| Total number of completed manhole repairs: | | | | | | | | | | | | | | 5 | 591 | 121 | 117 | 629 | 406 | 355 | 2224 |

This chart above and below offers a summary of both significant progresses made as well what remains to be accomplished relating to manhole repairs. There is continued effort directed towards locating and evaluating manholes that are under asphalt or inaccessible otherwise. Examination of these manholes will reveal what additional repairs will be needed. In turn, cost projections for labor and supplies for repairs can be made for budgetary planning. We will complete the manhole portion in year 2021, two years ahead of the deadline. We only have 145 manholes left.

**BENTON UTILITIES SS MANHOLE REPAIR RECORD SUMMARY**

| | | | Surface Above Manhole | | | | | | Need for Repair | | | | | Repair Requirement | | | | | | | Manhole finished repairs | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Basin No. | Total No. Manholes | Unable to Access | Conc Pave | Asph Pave | Side walk Pave | Grav | Grass | Wood | None | 1st | 2nd | Low | No Access | Replace Manhole | Bench & Trough or Around Pipe | Remove Roots | Replace Cover | Raise Rim | Seal Rim or Extension | Cementious Lining | Manhole Replaced | Bench and Trough Repaired or Hole Sealed at Pipe | Roots Removed | Cover Replaced | Rim Raised | Extension or Rim Sealed | Lining Completed |
| BASIN NO. 1 | 110 | 10 | 0 | 3 | 0 | 3 | 76 | 18 | 81 | 2 | 3 | 14 | 13 | 0 | 3 | 2 | 0 | 15 | 18 | 6 | 0 | 3 | 2 | 0 | 17 | 18 | 6 |
| BASIN NO. 2 | 495 | 116 | 12 | 96 | 9 | 0 | 221 | 57 | 351 | 0 | 14 | 14 | 117 | 0 | 14 | 4 | 6 | 115 | 7 | 9 | 0 | 18 | 4 | 9 | 115 | 8 | 9 |
| BASIN NO. 3 | 657 | 128 | 30 | 241 | 0 | 11 | 226 | 90 | 445 | 8 | 36 | 40 | 128 | 0 | 40 | 22 | 10 | 106 | 19 | 33 | 0 | 51 | 22 | 16 | 106 | 23 | 46 |
| BASIN NO. 4 | 217 | 26 | 3 | 125 | 6 | 7 | 63 | 7 | 173 | 0 | 13 | 5 | 26 | 0 | 3 | 1 | 1 | 27 | 3 | 11 | 0 | 4 | 1 | 1 | 27 | 3 | 11 |
| BASIN NO. 5 | 594 | 35 | 4 | 344 | 4 | 20 | 160 | 62 | 458 | 4 | 67 | 30 | 35 | 0 | 49 | 17 | 18 | 45 | 2 | 56 | 0 | 54 | 17 | 18 | 46 | 27 | 56 |
| BASIN NO. 6 | 210 | 14 | 2 | 75 | 0 | 16 | 78 | 37 | 130 | 0 | 18 | 48 | 14 | 0 | 22 | 5 | 3 | 24 | 26 | 16 | 0 | 24 | 9 | 3 | 24 | 28 | 18 |
| BASIN NO. 7 | 124 | 37 | 1 | 38 | 0 | 4 | 34 | 4 | 72 | 0 | 6 | 9 | 37 | 0 | 2 | 4 | 0 | 36 | 8 | 2 | 0 | 2 | 4 | 0 | 36 | 8 | 2 |
| BASIN NO. 8 | 388 | 72 | 2 | 134 | 0 | 12 | 183 | 37 | 291 | 0 | 6 | 19 | 72 | 0 | 8 | 4 | 4 | 79 | 4 | 1 | 1 | 8 | 5 | 6 | 81 | 5 | 1 |
| BASIN NO. 9 | 107 | 2 | 5 | 29 | 0 | 6 | 43 | 20 | 70 | 1 | 4 | 30 | 2 | 0 | 15 | 4 | 1 | 4 | 18 | 7 | 0 | 15 | 4 | 1 | 4 | 18 | 7 |
| BASIN No. 10 | 949 | 46 | 34 | 239 | 21 | 12 | 531 | 78 | 456 | 4 | 157 | 286 | 46 | 1 | 256 | 48 | 34 | 76 | 140 | 195 | 3 | 364 | 48 | 60 | 126 | 195 | 195 |
| BASIN NO. 11 | 540 | 5 | 26 | 54 | 94 | 15 | 337 | 12 | 409 | 1 | 8 | 117 | 5 | 1 | 32 | 5 | 2 | 47 | 71 | 4 | 1 | 48 | 5 | 3 | 47 | 73 | 4 |
| Total Work Done on Manholes | | | | | | | | | | | | | | | | | | | | | 5 | 591 | 121 | 117 | 629 | 406 | 355 |
| Totals | 4,391 | 491 | 119 | 1,378 | 134 | 106 | 1,952 | 422 | 2,936 | 20 | 332 | 612 | 495 | 2 | 444 | 116 | 79 | 574 | 316 | 340 | 2 | 444 | 116 | 79 | 574 | 316 | 340 |
| Total Manholes Inspected | 3,900 | | | | | | | | | | | | | Total manhole repair Requirements | | | | | 1,871 | | 0 | 4 | 28 | 0 | 80 | 88 | 1 |
| | | | | | | | | | | | | | | | | | | | | | Total number of manhole repair still left to do: | | | | | | 145 |
| | | | | | | | | | | | | | | | | | | | | | Total number of manhole repaired: | | | | | | 2,224 |

There has also been significant manhole rehab that was done outside the scope of the C.A.O. For example, we have repaired 8 more manholes with epoxy lining to ensure the gasses and H2S do not deteriorate the manholes and cause major issues. We have also implemented in our specifications that any manholes that are constructed in the Benton Utilities infrastructure will require epoxy coated on the downstream end of any new lift station.

A key component of line system improvement is pipe bursting. We have completed (2,271 linear feet) of pipe bursting done in 2020. Some of this work, however, was done in areas outside the scope of the C. A. O. For example, it became necessary to pipe burst and up size our sewer main where the line was collapsing, and I & I was rampant in the vicinity of Burton St. and W. Hazel and another section on Chris St, Hicks St, and Eagle Point for new development on Northshore Dr. We are still working in this area due to the delays of Covid-19 and will be continuing our Pipe Burst on our C.A.O when we get finished with this sewer main upsize. We have completed 495 linear feet on the C.A.O.

We have taken into our system on new residential development a total of 12,032 feet of new 8" sewer main.

The following spreadsheet offers a snapshot of what has been accomplished to date and that which remains under the C. A. O.

Tracking Gravity Line Repair.xlsx

| BENTON UTILITIES SS GRAVITY MAIN REPAIR AND PIPE BURST RECORD (SUMMARY) | | | | | | | | | | | CORRECTED sewer lines needing to be pipe burst: 2020 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Pipe Defect/Repair Requirement | | | | | | | | | | Repair Completed | | | | | | Repairs Left |
| Basin No. | Storm Drain | Asph Pave | Side walk Pave | Grass | Line Sag/ Grease | Separation joints/ Roots | Objects through main | Replace Pipe size | Point Repair | Pipe Burst Length Ft | Line Sag/ Grease | Separation joints/ Roots | Objects through main | Replace Pipe size | Point Repair | Pipe Burst Length Ft | Feet left on CAO report: |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2 | 0 | 1 | 0 | 2 | 1 | 2 | 0 | 0 | 0 | 1,871 | 0 | 1 | 0 | 0 | 0 | 357 | 1,514 |
| 3 | 0 | 6 | 0 | 10 | 2 | 13 | 0 | 0 | 0 | 3,294 | 0 | 5 | 0 | 0 | 0 | 3,294 | 0 |
| 4 | 0 | 1 | 0 | 5 | 0 | 3 | 2 | 0 | 3 | 2,910 | 0 | 3 | 2 | 0 | 3 | 2,997 | 0 |
| 5 | 2 | 11 | 0 | 12 | 16 | 19 | 4 | 0 | | 7,266 | 8 | 9 | 2 | 0 | 0 | 4,666 | 2,600 |
| 6 | 0 | 0 | 0 | 3 | 6 | 6 | 0 | 0 | 0 | 1,566 | 3 | 3 | 0 | 0 | 0 | 304 | 1,262 |
| 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | 0 | 19 | 1 | 24 | 13 | 36 | 1 | 0 | 10 | 10,505 | 6 | 8 | 1 | 0 | 1 | 9,410 | 1,095 |
| 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | 2 | 38 | 1 | 56 | 38 | 79 | 7 | 0 | 13 | 27,412 | 17 | 29 | 5 | 0 | 4 | 21,028 | |
| | | | | | | | | | | | Total number of feet left to pipe burst: | | | | | | 6,471 |

Out of the total 27,412 linear feet of pipe bursting required under the C. A. O., 21,028 feet has been completed. This leaves 6,471 feet to be done. It is conceivable that this residual footage can be completed in less than 2 years. Emergency deviations as described above can alter this projection, but this is a realistic goal.

A noticeable reduction in I & I has resulted with our pipe bursts program. For example, during moderate to heavy rains (c. 2 inches), the Willow Street pump station required the use of the adjacent, auxiliary lift station (two 75-hp pumps) to handle the heavy flow and convey it to the 52-million-gallon equalization basin and we still had manhole overflows. With the upgrade of the 60 hp Flygt pumps, The Willow Street pump station is able to handle this level of rainfall. During the pipe burst and repair projects, we found many sections of gravity sewer mains that have been taking in creeks during heavy rain events. We have also performed point repairs on 6 ductile creek crossings this year and stabilized the bank and wash out on all 6 crossings, many lines on the creeks created major I&I into our system.

We have performed many point repairs this year that have been creating sewer stoppages and some had been creating manhole overflows. We have reduced the number of overflows from 2019 and will be working on reducing 2020's number in 2021.

Another continuing development in 2019 through 2021 has been the ongoing state widening project of I-30 between the Highway 70 and the South Street exits. This is significantly affecting existing sewer infrastructure requiring relocation of certain sewer mains. And due to the Highway 5 widening project we will be relocating our gravity sewer main on Highway five.

- 1,051 feet of 8-inch diameter with 7 new manholes
- 451 feet of 10-inch diameter with 5 new manholes
- 1,525 feet of 15-inch diameter with 7 new manholes
- 364 feet of 24-inch diameter with 5 new manholes
- over 900 feet of 8-inch force main
- over 2,300 feet of 15-inch diameter with 11 manholes.

We have also installed and completed 1,018' of new force main crossing bored under the Saline River that was getting washed out.

In conclusion, 2020 was a challenging year trying to juggle the C.A.O and our sewer infrastructure with the road blocks Covid-19 has brought. But I believe we still had a very productive year with demonstrable progress in meeting the demands of the Consent Administrative Order. The integrity of the system infrastructure was ensured and expanded. Inflow and infiltration have been noticeably reduced. We will continue to place emphasis again this year on the priority basins identified in the Sanitary Sewer Evaluation Study. It is both our goal and our work to improve Benton's sanitary sewer collection system for public health, for good stewardship of the environment, and for the demands of the vibrant growth of this city.

Please feel free to contact me at 501-776-5955, or you may email me at nschultz@bentonutilities.com with any questions or comments you may have.

Sincerely,

Nathan Schultz,
Benton Utilities Wastewater Conveyance Manager

Cc: David Vondran, P.E., and General Manager of Benton Utilities
Doug Stracener, Chairman of the Benton Utilities Public Utilities Commission
Byron Hicks, P.E. and C.E.O. of McClelland Consulting Engineers, Inc.