

## **Appendix A**

### **Photograph Log**



**Photograph 1.** McElroy Farms lift station. Note the excessive vegetation around the lift station.



**Photograph 2.** McElroy Farms lift station pump control panel.



**Photograph 3.** McElroy Farms lift station wet well. Note the grease accumulation.



**Photograph 4.** McElroy Farms lift station valve pit. Note that the valve pit access is not raised.



**Photograph 5.** Yahweh lift station valve pit.



**Photograph 6.** Yahweh lift station. Note the pump control panel in the foreground and the Kohler onsite backup generator in the background of the photograph.



**Photograph 7.** Yahweh lift station wet well.



**Photograph 8.** Yahweh lift station local control system.



**Photograph 9.** Braybourne lift station.



**Photograph 10.** Braybourne lift station wet well.



**Photograph 11.** Braybourne lift station valve pit.



**Photograph 12.** Manhole at Braybourne & Sandbourne.



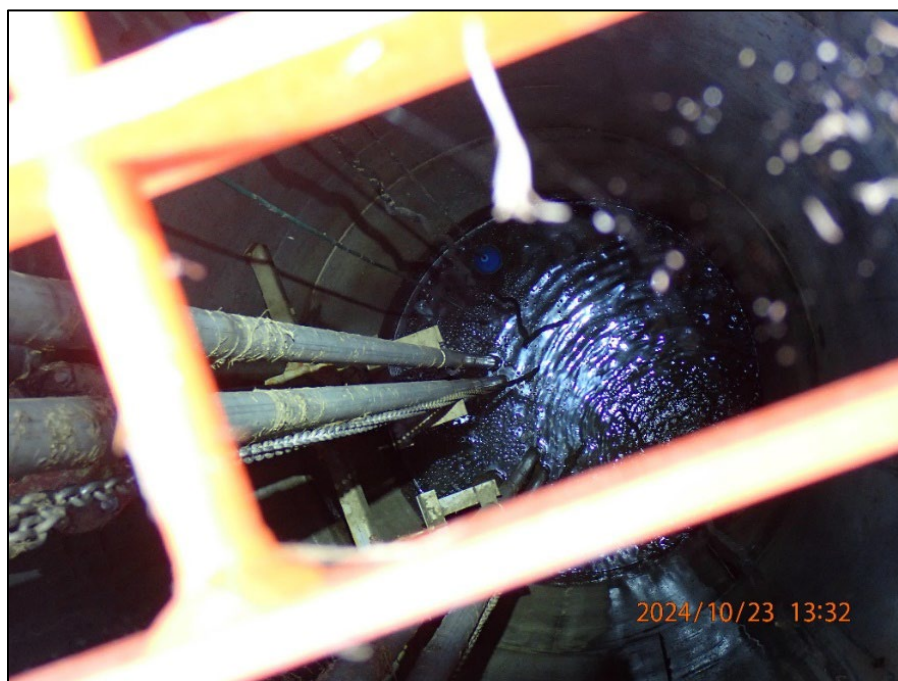
**Photograph 13.** Interior of the manhole at Braybourne & Sandbourne. Note the small solids and grease accumulation in the manhole.



**Photograph 14.** Legacy Park East lift station.



**Photograph 15.** Legacy Park East lift station wet well.



**Photograph 16.** Legacy Park East lift station wet well.



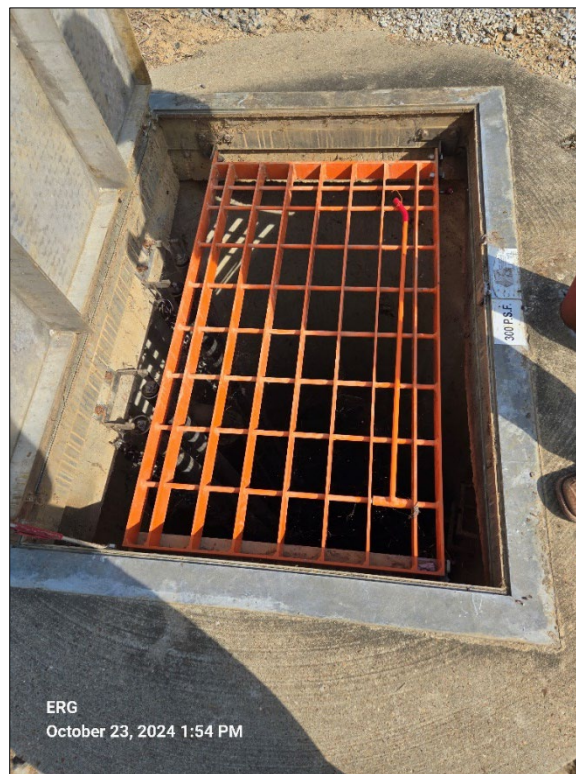
**Photograph 17.** Legacy Park North lift station.



**Photograph 18.** Legacy Park North lift station perimeter fencing. Note the gap in the fence, outlined in red.



**Photograph 19.** Legacy Park North lift station valve pit. Note the counterweight (outlined in red) is disconnected for the left check valve.



**Photograph 20.** Legacy Park North lift station wet well.



**Photograph 21.** Legacy Park North lift station wet well.



**Photograph 22.** High Point lift station. Note the valve pit and wet well were not locked.



**Photograph 23.** Oil residual and/or evidence of overflow by the wet well at High Point lift station.



**Photograph 24.** High Point lift station wet well. Note the black fluid and black solids in the wet well.



**Photograph 25.** East State Line lift station. Note one of the doors to the old valve pit (outlined in red) was open and not locked.



**Photograph 26.** East State Line lift station old valve pit.



**Photograph 27.** East State Line lift station wet well.

## **Appendix B Exhibit Log**

**Exhibit 1**  
**Lift Station Operational Logs (September 2024)**

City of Olive Branch – Olive Branch Wastewater Collection System  
Inspection Report Exhibit Log

2 Square Meters

LOCATION - SILO DR / WHITE DR  
LEGACY PARK N.  
6 DAYS A WEEK

| DATE | FAULT | PUMP #1 | 1/10'S | RUN TIME | FAULT | PUMP #2 | 1/10'S | RUN TIME |
|------|-------|---------|--------|----------|-------|---------|--------|----------|
| 1    |       | 3039    | 8      |          |       | 3415    | 3      |          |
| 2    |       | 3045    | 1      | 4.3      |       | 3420    | 2      | 4.9      |
| 3    |       | 3048    | 6      | 5.5      |       | 3425    | 1      | 4.9      |
| 4    |       | 3052    | 3      | 3.7      |       | 3428    | 9      | 3.8      |
| 5    |       | 3055    | 9      | 3.6      |       | 3431    | 7      | 3.8      |
| 6    |       | 3059    | 6      | 4.4      |       | 3435    | 2      | 3.5      |
| 7    |       | 3062    | 8      | 5.2      |       | 3435    | 5      | 3.3      |
| 8    |       | 3066    | 6      | 3.8      |       | 3442    | 9      | 4.1      |
| 9    |       | 3071    | 0      | 3.4      |       | 3447    | 5      | 4.6      |
| 10   |       | 3076    | 6      | 5.6      |       | 3452    | 1      | 4.6      |
| 11   |       | 3081    | 2      | 4.4      |       | 3459    | 2      | 7.1      |
| 12   |       |         |        |          |       |         |        |          |
| 13   |       | 3086    | 6      |          |       | 3463    | 7      |          |
| 14   |       | 3089    | 5      | 2.9      |       | 3466    | 5      | 2.8      |
| 15   |       | 3095    | 1      | 5.6      |       | 3474    | 4      | 5.9      |
| 16   |       | 3099    | 7      | 4.6      |       | 3480    | 1      | 4.7      |
| 17   |       | 3103    | 2      | 3.6      |       | 3483    | 5      | 3.4      |
| 18   |       | 3106    | 2      | 3.0      |       | 3487    | 4      | 3.9      |
| 19   |       | 3109    | 1      | 2.8      |       | 3490    | 9      | 2.5      |
| 20   |       |         |        |          |       |         |        |          |
| 21   |       | 3113    | 3      |          |       | 3495    | 0      |          |
| 22   |       | 3117    | 0      | 3.7      |       | 3498    | 6      | 3.6      |
| 23   |       | 3121    | 3      | 4.3      |       | 3503    | 0      | 4.4      |
| 24   |       |         |        |          |       |         |        |          |
| 25   |       |         |        |          |       |         |        |          |
| 26   |       |         |        |          |       |         |        |          |
| 27   |       |         |        |          |       |         |        |          |
| 28   |       |         |        |          |       |         |        |          |
| 29   |       |         |        |          |       |         |        |          |
| 30   |       |         |        |          |       |         |        |          |
| 31   |       |         |        |          |       |         |        |          |

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City of Olive Branch – Olive Branch Wastewater Collection System  
Inspection Report Exhibit Log

LEGACY PARK N.

TYPE - FLYGT  
S/N PUMP 1  
3102.060-2380113  
MODEL # 1 OR 2

STATION #

S/N PUMP 2  
3102.185-1550075  
MODEL # 1 OR 2

VOLTAGE 460  
HP 3  
IMP # 6.5  
RPM 3440  
AMP

DRIVES HARD START ROTO PHASE

PUMP #1 INSTALLED ON 7/30/24 3102.060-2380113

LOCATION - WHITE DR / PROGRESS WAY  
LEGACY PARK S.  
6 DAYS A WEEK

LC150 0.5x1.5

| TE | FAULT | PUMP # 1 | 1/10'S | RUN TIME | FAULT | PUMP # 2 | 1/10'S | RUN TIME |
|----|-------|----------|--------|----------|-------|----------|--------|----------|
| 1  |       | 1803     | 8      |          |       | 1514     | 7      |          |
| 2  |       | 1805     | 2      | 1.3      |       | 1517     | 6      | 2.9      |
| 3  |       | 1807     | 0      | 1.8      |       | 1520     | 0      | 1.4      |
| 4  |       | 1808     | 1      | 1.1      |       | 1521     | 9      | 1.9      |
| 5  |       | 1809     | 6      | 1.5      |       | 1523     | 6      | 1.7      |
| 6  |       | 1811     | 0      | 2.4      |       | 1526     | 0      | 2.4      |
| 7  |       | 1812     | 5      | 1.5      |       | 1525     | 2      | 2.2      |
| 8  |       | 1814     | 1      | 1.6      |       | 1530     | 6      | 2.4      |
| 9  |       | 1815     | 6      | 1.5      |       | 1533     | 9      | 2.2      |
| 10 |       | 1817     | 7      | 2.1      |       | 1537     | 1      | 2.2      |
| 11 |       | 1819     | 9      | 2.2      |       | 1546     | 2      | 3.1      |
| 12 |       |          |        |          |       | 1543     | 8      |          |
| 13 |       | 1821     | 9      |          |       | 1545     | 8      | 2.0      |
| 14 |       | 1823     | 4      | 2.5      |       | 1549     | 9      | 4.1      |
| 15 |       | 1825     | 4      | 2.0      |       | 1553     | 2      | 2.3      |
| 16 |       | 1827     | 3      | 1.8      |       | 1555     | 2      | 2.0      |
| 17 |       | 1828     | 5      | 1.2      |       | 1556     | 9      | 1.7      |
| 18 |       | 1829     | 5      | 1.3      |       | 1558     | 6      | 2.2      |
| 19 |       | 1830     | 9      | 1.1      |       |          |        |          |
| 20 |       |          |        |          |       | 1561     | 9      |          |
| 21 |       | 1832     | 9      |          |       | 1564     | 8      | 2.1      |
| 22 |       | 1834     | 2      | 1.3      |       | 1566     | 2      | 2.2      |
| 23 |       | 1835     | 4      | 1.2      |       |          |        |          |
| 24 |       |          |        |          |       |          |        |          |
| 25 |       |          |        |          |       |          |        |          |
| 26 |       |          |        |          |       |          |        |          |
| 27 |       |          |        |          |       |          |        |          |
| 28 |       |          |        |          |       |          |        |          |
| 29 |       |          |        |          |       |          |        |          |
| 30 |       |          |        |          |       |          |        |          |
| 31 |       |          |        |          |       |          |        |          |

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City of Olive Branch – Olive Branch Wastewater Collection System  
Inspection Report Exhibit Log

| BIG HORN                                          |      |            |      | STATION #  |  |  |  |
|---------------------------------------------------|------|------------|------|------------|--|--|--|
| TYPE - GORMAN RUPP                                |      |            |      | S/N PUMP 2 |  |  |  |
| S/N PUMP 1                                        |      |            |      | MODEL # 2  |  |  |  |
| MODEL # 1                                         |      |            |      | MODEL # 2  |  |  |  |
| VOLTAGE                                           | 230  | VOLTAGE    | 230  |            |  |  |  |
| PHASE                                             |      | PHASE      |      |            |  |  |  |
| HP                                                | 5    | HP         |      |            |  |  |  |
| IMP #                                             | 1760 | IMP #      | 1725 |            |  |  |  |
| RPM                                               |      | RPM        | 23   |            |  |  |  |
| AMP                                               |      | AMP        |      |            |  |  |  |
| DRIVES                                            |      | HARD START |      | ROTO PHASE |  |  |  |
| <i>9/16/24 pump #1 tripped re prime</i>           |      |            |      |            |  |  |  |
| <i>9/16/24 pump #1 not pumping re primed</i>      |      |            |      |            |  |  |  |
| <i>9/16/24 pump #1 not pumping re primed pump</i> |      |            |      |            |  |  |  |
| <i>9/16/24</i>                                    |      |            |      |            |  |  |  |
| <i>9/20/24</i>                                    |      |            |      |            |  |  |  |
| <i>9/23/24</i>                                    |      |            |      |            |  |  |  |
| <i>9/24/24</i>                                    |      |            |      |            |  |  |  |
| <i>9/26/24</i>                                    |      |            |      |            |  |  |  |
| <i>9/27/24</i>                                    |      |            |      |            |  |  |  |
| <i>9/28/24</i>                                    |      |            |      |            |  |  |  |
| <i>9/30/24</i>                                    |      |            |      |            |  |  |  |

| LOCATION - 2645 ITASCA DRIVE<br>ITASCA<br>6 DAYS A WEEK |       |          |        |          |       |          |        |          |
|---------------------------------------------------------|-------|----------|--------|----------|-------|----------|--------|----------|
| DATE                                                    | FAULT | PUMP # 1 | 1/10'S | RUN TIME | FAULT | PUMP # 2 | 1/10'S | RUN TIME |
| 1                                                       |       |          |        |          |       |          |        |          |
| 2                                                       |       | 8091     | 1      |          |       |          |        |          |
| 3                                                       |       | 8099     | 7      | 8.6      |       | 5154     | 9      |          |
| 4                                                       |       | 8111     | 9      | 12.2     |       | 5156     | 3      | 1.4      |
| 5                                                       |       | 8115     | 4      | 4        |       | 5157     | 8      | 1.5      |
| 6                                                       |       | 8123     | 4      | 8        |       | 5159     | 1      | 1.2      |
| 7                                                       |       |          |        |          |       | 5160     | 6      | 1.5      |
| 8                                                       |       | 8140     | 7      |          |       |          |        |          |
| 9                                                       |       | 8148     | 7      | 8        |       | 5163     | 4      |          |
| 10                                                      |       | 8156     | 7      | 8        |       | 5164     | 8      | 1.4      |
| 11                                                      |       |          |        |          |       | 5166     | 1      | 1.3      |
| 12                                                      |       | 8176     | 9      | 20.2     |       |          |        |          |
| 13                                                      |       | 8185     | 6      |          |       | 5172     | 1      | 6        |
| 14                                                      |       |          |        |          |       | 5174     | 7      |          |
| 15                                                      |       | 8206     | 3      |          |       | 5179     | 2      |          |
| 16                                                      |       | 8216     | 8      | 10.5     |       | 5181     | 7      | 2.5      |
| 17                                                      |       | 8224     | 3      | 7.5      |       | 5182     | 6      | 1.9      |
| 18                                                      |       |          |        |          |       |          |        |          |
| 19                                                      |       | 8237     | 9      | 13.6     |       | 5185     | 6      | 3        |
| 20                                                      |       | 8245     | 4      | 8        |       | 5187     | 0      | 1.4      |
| 21                                                      |       |          |        |          |       |          |        |          |
| 22                                                      |       | 8262     | 4      |          |       | 5190     | 1      |          |
| 23                                                      |       | 8270     | 4      | 8        |       | 5191     | 5      | 1.4      |
| 24                                                      |       | 8278     | 4      | 8        |       | 5192     | 4      | 1.4      |
| 25                                                      |       | 8286     | 4      | 8        |       | 5194     | 3      | 1.4      |
| 26                                                      |       |          |        |          |       |          |        |          |
| 27                                                      |       |          |        |          |       |          |        |          |
| 28                                                      |       | 8306     | 8      | 20.4     |       | 5199     | 4      | 5.1      |
| 29                                                      |       | 8315     | 7      | 8.9      |       | 5201     | 4      | 2.5      |
| 30                                                      |       | 8327     | 1      | 11.4     |       | 5204     | 3      | 2.4      |

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City of Olive Branch – Olive Branch Wastewater Collection System  
Inspection Report Exhibit Log

| BRIDGEMOORE CV.    |     |         |  | STATION #       |  |
|--------------------|-----|---------|--|-----------------|--|
| TYPE - GORMAN RUPP |     |         |  | S/N PUMP 1 OR 2 |  |
| S/N PUMP 1 OR 2    |     |         |  | MODEL # 1 OR 2  |  |
| VOLTAGE            | 240 | VOLTAGE |  |                 |  |
| PHASE              | 3   | PHASE   |  |                 |  |
| HP                 |     | HP      |  |                 |  |
| IMP #              |     | IMP #   |  |                 |  |
| RPM                |     | RPM     |  |                 |  |
| AMP                |     | AMP     |  |                 |  |

DRIVES HARD START ROTO PHASE

9/24/24 pulled & cleared the float

9/24/24 pulled both rotating unit down  
of cleaned them & cleaned both chambers

| LOCATION - 3053/3023 BRIDGEMOORE DR. |       |         |        |          |       |         |        |          |
|--------------------------------------|-------|---------|--------|----------|-------|---------|--------|----------|
| BRIDGEMOORE DR.                      |       |         |        |          |       |         |        |          |
| 6 DAYS A WEEK                        |       |         |        |          |       |         |        |          |
| DATE                                 | FAULT | PUMP #1 | 1/10'S | RUN TIME | FAULT | PUMP #2 | 1/10'S | RUN TIME |
| 1                                    |       |         |        |          |       |         |        |          |
| 2                                    |       |         |        |          |       |         |        |          |
| 3                                    |       | 1458    | 26     |          |       | 1489    | 11     |          |
| 4                                    |       | 1459    | 22     | .46      |       | 1490    | 48     | 1.37     |
| 5                                    |       | 1459    | 67     | .45      |       | 1491    | 86     | 1.38     |
| 6                                    |       | 1459    | 68     | .1       |       | 1493    | 17     | 1.31     |
| 7                                    |       | 1459    | 68     | .1       |       | 1494    | 39     | 1.22     |
| 8                                    |       | 1460    | 13     | .45      |       |         |        |          |
| 9                                    |       | 1461    | 67     |          |       | 1496    | 78     |          |
| 10                                   |       | 1461    | 53     | .46      |       | 1498    | 15     | 1.37     |
| 11                                   |       | 1462    | 21     | .48      |       | 1498    | 15     |          |
| 12                                   |       | 1463    | 42     | 1.41     |       | 1502    | 77     | 4.62     |
| 13                                   |       | 1463    | 96     |          |       | 1503    | 73     |          |
| 14                                   |       |         |        |          |       |         |        |          |
| 15                                   |       | 1465    | 23     |          |       | 1505    | 86     |          |
| 16                                   |       | 1465    | 66     | .43      |       | 1506    | 99     | 1.13     |
| 17                                   |       | 1466    | 26     | .40      |       | 1508    | 06     | 1.07     |
| 18                                   |       |         |        |          |       |         |        |          |
| 19                                   |       |         |        |          |       |         |        |          |
| 20                                   |       | 1466    | 59     |          |       | 1510    | 39     |          |
| 21                                   |       | 1466    | 98     | .44      |       | 1511    | 53     | 1.14     |
| 22                                   |       |         |        |          |       |         |        |          |
| 23                                   |       | 1467    | 87     |          |       | 1513    | 20     |          |
| 24                                   |       | 1468    | 37     | .50      |       | 1514    | 19     | .99      |
| 25                                   |       | 1468    | 82     | .45      |       | 1515    | 52     | 1.33     |
| 26                                   |       | 1469    | 26     | .44      |       | 1516    | 71     | 1.19     |
| 27                                   |       | 1468    | 74     | .48      |       | 1519    | 27     | 2.56     |
| 28                                   |       | 1470    | 63     | .89      |       | 1520    | 62     | 1.35     |
| 29                                   |       | 1471    | 69     | .46      |       | 1521    | 68     | 1.35     |
| 30                                   |       | 1471    | 57     | .43      |       | 1522    | 83     | 1.15     |
| 31                                   |       |         |        |          |       |         |        |          |

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**Exhibit 2**  
**Lift Station Cleaning and Maintenance Logs (February 2024 to August 2024)**

Box A Lids

| LIFT STATION CLEANING PROGRAM |  | NOT<br>ACCESSIBLE | FREQUENCY<br>OF CLEANING                 |
|-------------------------------|--|-------------------|------------------------------------------|
| ROUTE 1                       |  |                   |                                          |
| TAYLOR DRIVE                  |  |                   |                                          |
| CHURCH STREET A               |  |                   |                                          |
| CHURCH STREET B               |  |                   |                                          |
| BUSINESS CENTER DR            |  |                   |                                          |
| BETHEL PARK                   |  |                   | 3 MON/AS<br>NEEDED                       |
| BETHEL PARK COMMENT           |  |                   | CLEANED 3/14/24 - GREASE, CLOTH MATERIAL |
| FORREST RIDGE                 |  |                   |                                          |
| COLLEGE PARK                  |  |                   |                                          |
| COLLEGE & ALEX                |  |                   |                                          |
| 9880 COLLEGE                  |  |                   |                                          |
| McELROY FARMS                 |  |                   | 2 X YR                                   |
| McELROY FARMS COMMENT         |  |                   | CLEANED 2/22/24 - MUD                    |
| 9530 COLLEGE                  |  |                   |                                          |
| MITCHELL CORNER N             |  |                   | 2 X YR                                   |
| MITCHELL CORNER N COMMENT     |  |                   | CLEANED 4/4/24 - GRAVEL & SAND           |
| MITCHELL CORNER SOUTH         |  |                   |                                          |
| THE ORCHARDS                  |  |                   |                                          |
| SOUTHERN TRAILS S             |  |                   | 2 X YR                                   |
| SOUTHERN TRAILS S COMMENT     |  |                   | CLEANED 4/4/24 - GRAVEL & SAND           |
| SOUTHERN TRAILS N             |  |                   |                                          |
| MITCHELL CORNER W             |  |                   |                                          |
| GWINN FARMS                   |  |                   |                                          |
| DAWKINS FARM                  |  |                   |                                          |
| COLLEGE & PAYNE               |  |                   | 1 X YR                                   |
| COLLEGE & PAYNE COMMENT       |  |                   | CLEANED 2/22/24 - SAND                   |

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City of Olive Branch – Olive Branch Wastewater Collection System  
Inspection Report Exhibit Log

|        |                                                                                  |       |            |                           |
|--------|----------------------------------------------------------------------------------|-------|------------|---------------------------|
| 129049 | LIFT STA MAINT ON CALL LR 4/30 & 5/1/2022 CKS LIFT STATIONS                      | 44681 | 05/01/2022 | OB LIFT STATIONS          |
| 129431 | LIFT STA MAINT ON CALL JIC 5/14-5/15/2022 * CKD ALL LIFT STATIONS**              | 44695 | 05/15/2022 | OB LIFT STATIONS          |
| 129600 | LIFT STA MAINT ON CALL LR 5/21-5/22/2022 CKD ALL LIFT STATIONS WKEND ROUT        | 44702 | 06/22/2022 | OB LIFT STATIONS          |
| 130711 | LIFT STA MAINT ON CALL JC 7/02-7/04/2022 CKD ALL LIFT STATIONS WKEND ROUT        | 44748 | 07/06/2022 | OB LIFT STATIONS          |
| 130936 | LIFT STA MAINTENANCE: ROUTE 1 & 2 LIFT STATIONS *JC ON-CALL 07/16 AM* (JJ)       | 44758 | 07/16/2022 | LS ROUTE 1 & 2            |
| 130938 | LIFT STA MAINTENANCE: ROUTE 3 LIFT STATIONS *JC ON-CALL 07/17 AM* (JJ)           | 44759 | 07/17/2022 | LS ROUTE 3                |
| 131209 | LIFT STA MAINT: WB ON-CALL PM 7/30 *GERMANWOOD LS DOWN* (JJ)                     | 44772 | 07/30/2022 | GERMANWOOD LIFT ST        |
| 131376 | LIFT STA MAINT: JC ON-CALL 6:15AM- 9:15PM 8/06 *ROUTE 1 LIFT STATIONS* (JJ)      | 44779 | 08/06/2022 | RTE 1 LIFT STATIONS       |
| 131375 | LIFT STA MAINT: JC ON-CALL AM 8/07 *ROUTE 3 LIFT STATIONS* (JJ)                  | 44780 | 08/07/2022 | RTE 3 LIFT STATIONS       |
| 131499 | LIFT STA MAINT: LR ON-CALL 8/14 AM *RAN ROUTE 3 LS* (JJ)                         | 44787 | 08/14/2022 | LIFT STATION ROUTE 3      |
| 131861 | LIFT STA MAINT: LR ON-CALL 8/27 *RTE 1 LS; J CATES: CK'D RTE 2 LIFT STATIONS & I | 44800 | 08/27/2022 | ROUTE 1 & 2 LIFT STATIONS |
| 131862 | LIFT STA MAINT: J. CATES ON-CALL 8/28 *CK'D RTE 3 & DID MAINT. ON PUMPS* (JJ)    | 44801 | 08/28/2022 | ROUTE 3 LIFT STATIONS     |
| 132092 | LIFT STA MAINT: WB ON-CALL 9/14 PM *CANDLE LIGHT 1 & 2; CK'D FOR EXPOSED PI      | 44812 | 09/08/2022 | CANDLE LIGHT 1 & 2 LS     |
| 132228 | LIFT STA MAINT: JC ON-CALL 9/14 PM *WILLOWDALE DR LS- PUMPED DOWN TO KI          | 44818 | 09/14/2022 | WILLOWDALE DR LS          |
| 132507 | LIFT STA MAINT: LR ON-CALL 9/24 AM *CK'D RTE 1, PART OF RTE 2, & MAINT* (JJ)     | 44828 | 09/24/2022 | LIFT STAT 1 & 2 ROUTES    |
| 132508 | LIFT STA MAINT: LR ON-CALL 9/25 AM *CK'D RT 2 & ALL OF RT 3, & MAINT* (JJ)       | 44829 | 09/25/2022 | LS ROUTES 2 & 3           |
| 132938 | LIFT STA MAINT: JC ON-CALL 10/15 AM *ROUTE 1 LIFT STATIONS* (JJ)                 | 44849 | 10/15/2022 | ROUTE 1 LIFT STATIONS     |
| 132939 | LIFT STA MAINT: JC ON-CALL 10/16 AM *ROUTE 2 LIFT STATIONS* (JJ)                 | 44850 | 10/16/2022 | ROUTE 2 LIFT STATIONS     |
| 133166 | LIFT STA MAINT: LR ON-CALL 10/29 AM *CK'D ROUTE 1 & MAINTENANCE* (JJ)            | 44863 | 10/29/2022 | ROUTE 1 LIFT STATIONS     |
| 133167 | LIFT STA MAINT: LR ON-CALL 10/30 AM *CK'D ROUTE 2 & MAINTENANCE* (JJ)            | 44864 | 10/30/2022 | ROUTE 2 LIFT STATIONS     |
| 133578 | LIFT STA MAINT: LR ON-CALL (ON CLOCK) 11/19 AM *CK'D ROUTE 1 & MAINTENAN         | 44884 | 11/19/2022 | LIFT STATION ROUTE #1     |
| 133579 | LIFT STA MAINT: LR ON-CALL 11/20 AM *CK'D RTE 2 & MAINTENANCE* (JJ)              | 44885 | 11/20/2022 | LIFT STATION ROUTE #2     |
| 133672 | LIFT STA MAINT: J CATES ON-CALL 11/26 AM *CK'D RT 1 LIFT STATIONS* (JJ)          | 44891 | 11/26/2022 | ROUTE 1 LIFT STATIONS     |
| 133673 | LIFT STA MAINT: J CATES ON-CALL 11/27 AM *CK'D RT 2 LIFT STATIONS* (JJ)          | 44892 | 11/27/2022 | ROUTE 2 LIFT STATIONS     |
| 133914 | LIFT STA MAINT: L REYNOLDS ON-CALL 12/10 AM *CK'D ROUTE 1 FOR MAINTENAN          | 44905 | 12/10/2022 | LIFT STATION ROUTE 1      |
| 133915 | LIFT STA MAINT: L REYNOLDS ON-CALL 12/11 AM *CK'D ROUTE 2 FOR MAINTENAN          | 44906 | 12/11/2022 | LIFT STATION ROUTE 2      |
| 134454 | LIFT STA MAINT: LR ON-CALL 12/31= CK'D ROUTE 1 & MAINT (JJ)                      | 44926 | 12/31/2022 | LIFT STATION ROUTE 1      |
| 134455 | LIFT STA MAINT: LR ON-CALL 01/01/23= CK'D ROUTE 2 & MAINT (JJ)                   | 44927 | 01/01/2023 | LIFT STATION ROUTE 2      |
| 134456 | LIFT STA MAINT: JC ON-CALL 01/07 AM= CK'D ROUTE 1 LIFT STATIONS (JJ)             | 44933 | 01/07/2023 | ROUTE 1 LIFT STATIONS     |
| 134624 | LIFT STA MAINT: JC ON-CALL 01/08 AM= CK'D ROUTE 2 LIFT STATIONS (JJ)             | 44934 | 01/08/2023 | ROUTE 2 LIFT STATIONS     |
| 135076 | LIFT STA MAINT                                                                   | 44952 | 01/26/2023 | 7735 W SHAKOKA DR         |
| 135105 | LIFT STA MAINT: JC ON-CALL 01/28 AM= ROUTE 1 (JJ)                                | 44954 | 01/28/2023 | ROUTE 1 LIFT STATIONS     |
| 135107 | LIFT STA MAINT: JC ON-CALL 01/29 AM= ROUTE 2 (JJ)                                | 44955 | 01/29/2023 | ROUTE 2 LIFT STATIONS     |
| 135351 | LIFT STA MAINT: L REYNOLDS ON-CALL 02/11= LIFT STATION ROUTE #1                  | 44968 | 02/11/2023 | LIFT STATION ROUTE #1     |
| 135352 | LIFT STA MAINT: L REYNOLDS ON-CALL 02/12= LIFT STATION ROUTE #2                  | 44969 | 02/12/2023 | LIFT STATION ROUTE #2     |
| 135832 | LIFT STA MAINT: L REYNOLDS ON-CALL 03/04 AM= ROUTE #1 (JJ)                       | 44989 | 03/04/2023 | LIFT STATION ROUTE #1     |
| 135837 | LIFT STA MAINT: L REYNOLDS ON-CALL 03/05= LIFT STATION ROUTE #2 (JJ)             | 44990 | 03/05/2023 | LIFT STATION ROUTE #2     |
| 136106 | LIFT STA MAINT: LR ON-CALL 03/18 AM= ROUTE #1 DAILY INSPECTIONS (JJ)             | 45003 | 03/18/2023 | LIFT STATION ROUTE #1     |
| 136107 | LIFT STA MAINT: LR ON-CALL 03/19 AM= ROUTE #2 DAILY INSPECTIONS (JJ)             | 45004 | 03/19/2023 | LIFT STATION ROUTE #2     |
| 274464 | LIFT STATION MAINTENANCE: W.B. ON-CALL 04/21= CK'D N. SHAKOKA- WAS RUN           | 45040 | 04/21/2023 | N SHAKOKA LIFT STATION    |

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|                        |                                                  |                  |
|------------------------|--------------------------------------------------|------------------|
| QUAIL HOLLOW           |                                                  |                  |
| EAST STATELINE         | WEEKLY                                           |                  |
| EAST STATELINE COMMENT | CLEANED 2/16/24 - LARGE AMOUNT OF WIPES          |                  |
| EAST STATELINE COMMENT | CLEANED 2/29/24 - HEAVY ACCUMULATION OF WIPES    |                  |
| EAST STATELINE COMMENT | CLEANED 3/11/24 - WIPES                          |                  |
| EAST STATELINE COMMENT | CLEANED 3/21/24 - WIPES                          |                  |
| EAST STATELINE COMMENT | CLEANED 4/4/24 - EXCESSIVE AMOUNT OF WIPES       |                  |
| EAST STATELINE COMMENT | CLEANED 4/17/24 - WIPES                          |                  |
| EAST STATELINE COMMENT | CLEANED 4/25/24 - WIPES                          |                  |
| EAST STATELINE COMMENT | CLEANED 5/2/24 - WIPES                           |                  |
| EAST STATELINE COMMENT | CLEANED 5/16/24 - WIPES                          |                  |
| EAST STATELINE COMMENT | CLEANED 5/30/24 - WIPES                          |                  |
| EAST STATELINE COMMENT | CLEANED 6/6/24 - WIPES                           |                  |
| EAST STATELINE COMMENT | CLEANED 6/13/24 - WIPES                          |                  |
| EAST STATELINE COMMENT | CLEANED 7/11/24 - WIPES                          |                  |
| EAST STATELINE COMMENT | CLEANED 7/25/24 - WIPES AND GRIT                 |                  |
| EAST STATELINE COMMENT | CLEANED 8/15/24 WIPES                            |                  |
| EAST STATELINE COMMENT | CLEANED 8/16/24 - WIPES                          |                  |
| EAST STATELINE COMMENT | CLEANED 8/22/24- WIPES                           |                  |
| DAVIDSON RD.           | 3 X YR                                           |                  |
| DAVIDSON RD. COMMENT   | 4 MON                                            |                  |
| DAVIDSON RD. COMMENT   | CLEANED 2/29/24 - HEAVY ACCUMULATION OF GREASE   | FORCE MAIN IS HE |
| DANNY DRIVE            | CLEANED 8/22/24- SAND AND GRIT                   |                  |
| DANNY DRIVE COMMENT    | 3 X YR                                           |                  |
| DANNY DRIVE COMMENT    | 4 MON                                            |                  |
| DAVIDSON PARK          | CLEANED 2/16/24 - GREASE                         |                  |
| DAVIDSON PARK COMMENT  | CLEANED 8/15/24 -GREASE AND SLUDGE               |                  |
|                        | 2 X YR                                           |                  |
|                        | 6 MON                                            |                  |
|                        | CLEANED 2/29/24 - SOME GREASE AND SLUDGE BUILDUP | #1 TOP G         |

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**Exhibit 3**  
**City of Olive Branch Sewer Flows (October 2023 to September 2024)**

**DESOTO COUNTY REGIONAL UTILITY AUTHORITY**  
**FY 2024 FLOW SUMMARY**  
 September 1, 2024 - September 30, 2024

|                       |           | City of<br>Olive Branch | City of<br>Southaven | City of<br>Hernando | City of<br>Horn Lake | Town of<br>Walls | TOTAL     |
|-----------------------|-----------|-------------------------|----------------------|---------------------|----------------------|------------------|-----------|
| 2023                  | October   | 143.784                 | 23.455               | 56.807              | 10.860               | 6.718            | 241.624   |
|                       | November  | 145.747                 | 22.823               | 58.350              | 10.677               | 6.817            | 244.415   |
|                       | December  | 158.789                 | 23.648               | 60.022              | 12.006               | 7.328            | 261.793   |
| 2024                  | January   | 209.789                 | 27.865               | 82.635              | 18.129               | 8.637            | 347.055   |
|                       | February  | 162.532                 | 23.667               | 71.547              | 16.196               | 7.003            | 280.946   |
|                       | March     | 178.134                 | 24.338               | 71.362              | 15.348               | 7.633            | 296.815   |
|                       | April     | 164.014                 | 24.239               | 68.322              | 12.076               | 7.802            | 276.453   |
|                       | May       | 166.824                 | 24.931               | 70.686              | 14.396               | 7.680            | 284.517   |
|                       | June      | 154.542                 | 23.562               | 59.788              | 10.641               | 8.433            | 256.967   |
|                       | July      | 156.567                 | 24.539               | 63.196              | 13.040               | 9.022            | 266.365   |
|                       | August    | 150.977                 | 24.912               | 58.781              | 12.704               | 7.456            | 254.830   |
|                       | September | 148.602                 | 28.430               | 75.614              | 9.958                | 7.502            | 270.105   |
| Flow to Date          |           | 1,940.300               | 296.409              | 797.111             | 156.031              | 92.032           | 3,281.883 |
| Pro Rata Flow to Date |           | 59.12%                  | 9.03%                | 24.29%              | 4.75%                | 2.80%            | 100.00%   |

| FY 2024 PROJECTED FLOW:     |           |         |         |         |         |           |
|-----------------------------|-----------|---------|---------|---------|---------|-----------|
| Total FY '24 Projected Flow | 1,957.850 | 343.300 | 653.920 | 189.570 | 68.440  | 3,213.080 |
| To Date/Projected           | 99.10%    | 86.34%  | 121.90% | 82.31%  | 134.47% | 102.14%   |

- Notes: 1. All Figures in Million Gallons  
 2. Projections are based on prior year flows  
 3. September will need adjustment after receiving flow data for Byhalia Overflow meter  
 4. Walls flow #s are still being analyzed and may need adjusting

**Exhibit 4**  
**City of Olive Branch List of Industrial Users**

| <b>Name</b>                      | <b>Address</b>               | <b>Gallons annually</b> |
|----------------------------------|------------------------------|-------------------------|
| View Inc                         | 12380 Kirk RD                | 26,059,400              |
| Ardagh Metal Beverage USA        | 10800 Marina DR              | 19,760,800              |
| Plaskolite South, LLC            | 10500 High Point RD          | 14,841,400              |
| Marietta Corporation dba KIK     | 11170 Green Valley Dr        | 8,919,400               |
| Genlabs                          | 10905 Ridgeway Industrial DR | 8,787,000               |
| Williams Sonoma                  | 7755 Polk LN                 | 3,286,000               |
| McKesson                         | 8313 Polk LN                 | 2,573,500               |
| J Strickland and Co              | 10420 Desoto RD              | 1,599,200               |
| Parker-Hannifin Chelsea Products | 8225 Hack Cross RD           | 969,600                 |
| AFCO Millwork Products           | 11000 Green Valley DR        | 580,200                 |
| Milwaukee Distribution Center    | 11624 S Distribution CV      | 451,900                 |
| WestRock                         | 10333 High Point RD          | 344,000                 |

**Exhibit 5**  
**Sanitary Sewer Overflow Reports to MDEQ**

**WASTEWATER BYPASS REPORT**  
**TO THE MISSISSIPPI OFFICE OF POLLUTION CONTROL**

I. PERMITTEE NAME: CITY OF OLIVE BRANCH

II. PERMIT NUMBER: MS0029513

III. Bypass Source (i.e. manhole, pump station, etc.): Manhole across ditch from pump station

IV. Source Location (i.e. street, avenue, etc.): East Stateline Rd

V. Date & Time Bypass Began (estimate if necessary): 10/25/23 at 1:30 PM

VI. Date & Time Bypass Ended (estimate if necessary): 10/26/23 at 9:15 AM

VII. Volume of Wastewater Bypassed (estimate if necessary): Less than 1000 gallons

VIII. State Waters Effected (i.e. river, stream, bayou, lake, etc.): Nonconnah Creek

IX. Cause of Bypass: Pump 1 & Pump 2 clogged with sewer trash

X. Temporary Corrective Actions Taken: Pumped well and cleaned towel debris from bottom of well  
\_\_\_\_\_  
\_\_\_\_\_

XI. Cleanup Measures Taken: Spread lime  
\_\_\_\_\_  
\_\_\_\_\_

XII. Permanent Corrective Actions Taken: Pulled & cleared Pump 1 & Pump 2  
\_\_\_\_\_  
\_\_\_\_\_

XIII. Number of Bypasses at this Location in the past 12 months: 2

XIV. If Bypass caused due to Inflow of Rainfall, How many Inches of Rain fell in the Area? \_\_\_\_\_

NRO : PHONE: (662) 234-3733  
FAX: (662) 234-3749

ECED : PHONE: (601) 961-5010  
FAX: (601) 961-5674

CRO : PHONE: (601) 961-5656  
FAX: (601) 961-5619

SRO : PHONE: (228) 432-1056  
FAX: (228) 432-5553

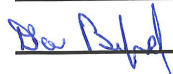
Main : PO Box 2261  
Address : Jackson, MS 39225

**EMAILED**

**OCT 27 2023**



PRINT NAME: Don Buford

SIGNATURE: 

TITLE: Water Superintendent

ADDRESS: 10175 Hwy 178  
Olive Branch, MS 38632

PHONE NUMBER: 662.893.5249 ext 202

DATE: 10/27/2023

**WASTEWATER BYPASS/OVERFLOW REPORT  
TO THE MISSISSIPPI OFFICE OF POLLUTION CONTROL**

- I. PERMITTEE NAME: City of Olive Branch
- II. PERMIT NO.: \_\_\_\_\_
- III. Bypass source (i.e., manhole, pump station, etc.): lift station  
on Davidson RD Across from 8859
- IV. Source location (i.e., street, etc.): Davidson RD 8859
- V. Date/time bypass began (estimate if necessary): 8AM 10/21/24
- VI. Date/time bypass ended (estimate if necessary): 10AM 10/21/24
- VII. Volume of wastewater bypassed (estimate if necessary): 1000 gal.
- VIII. State waters affected (i.e., river, stream, lake, etc.): N/A
- IX. Cause of bypass: lift station
- X. Temporary corrective actions taken: vac truck, spread  
lime
- XI. Permanent corrective actions taken: pump station only  
has 1 pump operating, other is at  
Machine Shop being retro fitted w/ adapter  
should have it installed by End of week

XII. Number of bypasses at this location in the past 12 months: 2

XIII. What actions were taken to prevent or minimize adverse environmental impact?  
spread lime

XIV. If bypass caused due to inflow of rainfall, how many inches of rain fell in the area? N/A

Signature: [Signature]

Title: lift station supervisor

Address: 10175 Hwy 178  
Olive Branch, MS  
38654

Date: 10/21/24

**WASTEWATER BYPASS/OVERFLOW REPORT  
TO THE MISSISSIPPI OFFICE OF POLLUTION CONTROL**

- I. PERMITTEE NAME: City of Olive Branch
- II. PERMIT NO.: \_\_\_\_\_
- III. Bypass source (i.e., manhole, pump station, etc.): Sewer pressure  
main
- IV. Source location (i.e., street, etc.): Braybourne Sub
- V. Date/time bypass began (estimate if necessary): 10/22/24 / 8:00 am
- VI. Date/time bypass ended (estimate if necessary): 10/22/24 / 9:30 am
- VII. Volume of wastewater bypassed (estimate if necessary): less than  
1000 gal
- VIII. State waters affected (i.e., river, stream, lake, etc.): OR
- IX. Cause of bypass: Electric company bored rod through  
sewer pipe.
- X. Temporary corrective actions taken: \_\_\_\_\_
- XI. Permanent corrective actions taken: we dug up affect area  
and repaired sewer pipe.

**EMAILED**

OCT 24 2024

OC

XII. Number of bypasses at this location in the past 12 months: 0

XIII. What actions were taken to prevent or minimize adverse environmental impact?

we clean up grass and put lime down

XIV. If bypass caused due to inflow of rainfall, how many inches of rain fell in the area? 0

Signature: William Brown

Title: Sewer Supervisor

Address: 10175 Hwy 78

Olive Branch MS 38654

Date: 10/24/24

**Exhibit 6**  
**City of Olive Branch Updates Regarding Observations**

**From:** [Ondra, Todd](#)  
**To:** [ammons.brad@epa.gov](mailto:ammons.brad@epa.gov); Mike Beck; James Phillips  
**Cc:** [Fesmire, Cole](#); [Swims, Andy](#)  
**Subject:** Lift Station Action Items  
**Date:** Wednesday, October 30, 2024 12:11:08 PM  
**Attachments:** [City of OB - Lejacv Park North Lift Station-Estimate-#EST24-2570.pdf](#)  
[REPAIRING SINK LIFTINGS AND CONSTRUCTION - LEJACV PARK NORTH LSC PN #250500 10-28-2024 \\$1500.00.pdf](#)

CAUTION: Don't open links or attachments unless you recognize the sender and know they are safe.

Please see the below actions taken and the related photos-attachments concerning lift station items that were identified during last week's inspection. Perimeter fencing is being pursued and will be added to these lift station locations. Let us know if you should have any questions or if additional information is required.

Thanks,

Todd Ondra  
Chief Operating Officer  
Cit of Olive Branch  
Mobile: 662 879-7128

East Stateline Road lift station old valve pit and wet well are secured.



Foliage/Grass within McElroy Farms lift station has been cut.



The counterweight at the North Legacy Park Lift station has been reinstalled on the check valve arm. Fencing quote obtained and PO issued for perimeter fence installation. (see above attachments).



The High Point Lift Station was cleaned 10-25-24. As requested, cleaning frequency is being increased scheduled at least 3 times annually.





**U.S. ENVIRONMENTAL PROTECTION AGENCY  
REGION 4  
ENFORCEMENT AND COMPLIANCE ASSURANCE DIVISION  
CLEAN WATER ACT COMPLIANCE INSPECTION REPORT  
for**

**Name of System:** Olive Branch Wastewater Collection System  
**System Address:** 9200 Pigeon Roost Rd, Olive Branch, MS 38654  
**Mailing Address:** 9200 Pigeon Roost Rd, Olive Branch, MS 38654

Report Prepared on: 12/12/2024 By: Mike Beck  
*Date* *Signature*

Digitally signed  
by Mike Beck  
Date: 2024.12.12  
10:42:28 -05'00'

Report Final as of: 12/14/2024 By: \_\_\_\_\_  
*Date* *EPA Signature*

**General Information**

|                                           |                                                              |
|-------------------------------------------|--------------------------------------------------------------|
| <b>Type of Inspection:</b>                | Wastewater Collection System CEI                             |
| <b>Owner:</b>                             | City of Olive Branch                                         |
| <b>Operator:</b>                          | City of Olive Branch                                         |
| <b>Receiving Treatment Plant:</b>         | DeSoto County Regional Utility Authority (DCRUA)             |
| <b>Receiving Treatment Plant Address:</b> | Ross Road WWTF<br>5300 South Ross Rd, Olive Branch, MS 38654 |

**On-Site System Inspection Overview**

On October 23, 2024, representatives from the U.S. Environmental Protection Agency Region IV's (EPA's) contract inspector, Eastern Research Group (ERG), James Phillips and Mike Beck, conducted a compliance evaluation inspection of the Olive Branch wastewater collection system, under EPA Region IV's Management, Operations, and Maintenance (MOM) Program for sanitary sewer collection systems. The City of Olive Branch is identified as the owner of the wastewater collection system.

**Approximate Entry Time:** 0900 (CDT)      **Approximate Exit Time:** 1600 (CDT)

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    Inspection Opening Conference..... 3

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    Closing Conference ..... 10

**APPENDIX LIST**

**Appendix A: Photograph Log**

**Appendix B: Exhibit Log**

- Exhibit 1 – Lift Station Operational Logs
- Exhibit 2 – Lift Station Cleaning and Maintenance Logs
- Exhibit 3 – City of Olive Branch Sewer Flows (October 2023 to September 2024)
- Exhibit 4 – City of Olive Branch List of Industrial Users
- Exhibit 5 – Sanitary Sewer Overflow Reports to MDEQ
- Exhibit 6 – City of Olive Branch Updates Regarding Observations

## I. INTRODUCTION

On October 23, 2024, representatives from the U.S. Environmental Protection Agency Region IV's (EPA's) contract inspector, Eastern Research Group (ERG), James Phillips and Mike Beck (hereinafter, the inspectors), conducted a compliance evaluation inspection of the Olive Branch wastewater collection system (the "system"). The City of Olive Branch owns and operates the Olive Branch collection system.

The primary purpose of the inspection was to review the wastewater collection system, to evaluate the accuracy and reliability of the City of Olive Branch's self-monitoring and reporting program, and to obtain information that will assist EPA in assessing the City of Olive Branch's compliance with the requirements of the Clean Water Act. The Olive Branch collection system services approximately 18,000 connections and discharges wastewater to the Ross Road WWTF which is owned and operated by the Desoto County Regional Utility Authority (DCRUA). The weather at the time of the inspection was hot, humid, and sunny.

## II. INSPECTION PROCESS

### Inspection Opening Conference

The inspectors arrived at Olive Branch City Hall at 0900 on October 23, 2024, for the inspection. James Phillips and Mike Beck of ERG displayed their Clean Water Act inspector credentials to Todd Ondra at the outset of the inspection and explained the purpose of the inspection was to observe compliance with the Clean Water Act. Table 1 describes the individuals that participated in the inspection, hereinafter the "system representatives".

**Table 1. Inspection Attendee List**

| Name                          | Affiliation          | Position                 | Email                   |
|-------------------------------|----------------------|--------------------------|-------------------------|
| <b>EPA inspectors</b>         |                      |                          |                         |
| James Phillips                | ERG                  | Inspector                | James.phillips@erg.com  |
| Mike Beck                     | ERG                  | Inspector                | Mike.beck@erg.com       |
| Tristan Odekirk               | EPA                  | Inspector                | Odekirk.tristan@epa.gov |
| <b>MDEQ Representatives</b>   |                      |                          |                         |
| James Gammill                 | MDEQ                 | Municipal Branch Manager | Jgammill.@mdeq.ms.gov   |
| Justin Berry                  | MDEQ                 | Municipal Branch Staff   | jberry@mdeq.ms.gov      |
| <b>System Representatives</b> |                      |                          |                         |
| Todd Ondra                    | City of Olive Branch | Chief Operating Officer  | Todd.ondra@obms.us      |
| Andy Swims                    | City of Olive Branch | City Engineer            | Andy.swims@obms.us      |
| Cole Fesmire                  | City of Olive Branch | Director of Public Works | cfesmire@obms.us        |

During the opening conference, the system representatives provided an overview of the staffing, operational procedures, and sanitary sewer overflow (SSO) reporting procedures of the Olive Branch wastewater collection system. Table 2 provides an overview of the collection system, including the number of lift stations, manholes, miles of lines, industrial users, connections, and SSOs per year. Olive Branch has approximately 30 full-time staff that are dedicated to operations of the collection system and water distribution system that work from 0700 to 1600, Monday to Friday. Staff are on-call during weekends and other times as needed.

**Table 2. System Characteristics**

|                                                        |                                                   |
|--------------------------------------------------------|---------------------------------------------------|
| <b>Total No. of Lift Stations</b>                      | 105                                               |
| <b>Total No. of Manholes</b>                           | 5,829                                             |
| <b>Total Miles of Lines</b>                            | 328 miles of gravity main; 42 miles of force main |
| <b>Approximate No. of Significant Industrial Users</b> | 12                                                |
| <b>Approximate No. of Connections</b>                  | 17,000 – 18,000                                   |
| <b>Sewer Line Composition</b>                          | PVC                                               |
| <b>Approximate No. of SSOs per Year</b>                | 10                                                |

The system does not have a centralized Supervisory Control and Data Acquisition (SCADA) system but does have digital alerts/alarms at each lift station. Additionally, some lift stations are equipped with local control systems. Each lift station is equipped with visual alarms and the lift stations are checked daily by the system personnel. Digital alarms from the lift stations are sent to the operators' cell phones. System personnel record the daily lift station checks in operational logs.

DCRUA conducts inspections of any industrial dischargers. The system representatives were not aware of the frequency of DCRUA's inspections. The system representatives stated they do not have access to any of DCRUA's inspection reports or other enforcement records.

The system representatives identified some issues with fats, oils, and greases (FOG) and flushable wipes. To mitigate these issues, Olive Branch has vacuum trucks and vacuum trailers to cleanup any blockages of FOG or wipes in the collection system. The system also installed grinder pumps at some of the lift stations that experienced more issues with flushable wipes. The system representatives stated that the system receives heavy amounts of infiltration and inflow (I/I) during rain events. Olive Branch reports all SSOs to the Mississippi Department of Environmental Quality (MDEQ) as soon as possible. The system representatives stated they have approximately 10 SSOs per year with a majority of SSOs being less than 1,000 gallons in volume.

Olive Branch has preventative maintenance, asset management, and formal work order programs. The system also has written SOPs for the daily checks and weekly cleaning of the lift stations, and other operations. The system representatives stated that they inspect approximately 5% of the collection system's sewer lines annually. System personnel follow confined space entry procedures during any maintenance or other work throughout the collection system.

Olive Branch has a GIS map of the collection system that includes all sewer lines, manholes, and lift stations. System representatives stated this map is updated as the system installs or changes any sewer lines or lift stations. The system also maintains an up-to-date inventory of spare parts for the lift stations and pumps and system-owned assets in an asset management plan. Olive Branch has one portable backup generator for the lift stations. Some lift stations are also equipped with their own backup generators onsite. The system conducts yearly tests and inspections of each backup generator.

### **System Site Walk**

As part of the inspection process, the inspectors visually observed 7 lift stations and 1 manhole throughout the Olive Branch collection system. A map of the lift stations and manholes that the inspectors visited is shown in Figure 1. Table 3 displays the names, photograph numbers, locations, information, notes, and any observations that the inspectors had for the lift stations and manholes.



**Figure 1.** Map of the lift stations and manholes managed by the City of Olive Branch the inspectors visited during the inspection.

**Table 3. Lift Stations and Manholes Visited by the Inspectors During the Inspection**

| <b>Name</b>                           | McElroy Farms Lift Station           | Yahweh Lift Station                           | Braybourne Lift Station              | Legacy Park East Lift Station        | Legacy Park North Lift Station       | High Point Lift Station                                                                                                             | East State Line Lift Station                       | Braybourne & Sandbourne Manhole |
|---------------------------------------|--------------------------------------|-----------------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|---------------------------------|
| <b>No. on Map</b>                     | 1                                    | 2                                             | 3                                    | 4                                    | 5                                    | 6                                                                                                                                   | 7                                                  | 8                               |
| <b>Photograph Numbers<sup>1</sup></b> | Photographs 1-4                      | Photographs 5-8                               | Photographs 9-11                     | Photographs 14-16                    | Photographs 17-21                    | Photographs 22-24                                                                                                                   | Photographs 25-27                                  | Photographs 12-13               |
| <b>Latitude</b>                       | 34.9158359                           | 34.9881936                                    | 34.9557823                           | 34.9546851                           | 34.9560888                           | 34.9829576                                                                                                                          | 34.9895103                                         | 34.9573031                      |
| <b>Longitude</b>                      | -89.8192058                          | -89.8734934                                   | -89.7591447                          | -89.777282                           | -89.7860039                          | -89.8050399                                                                                                                         | -89.8925232                                        | -89.7570234                     |
| <b>Line Size</b>                      | 4 in.                                | 6 in.                                         | 4 in.                                | 4 in.                                | 6 in.                                | Unknown                                                                                                                             | 4 in.                                              | N/A                             |
| <b>Pump HP</b>                        | 5 HP                                 | 40 HP                                         | 20 HP                                | 5 HP                                 | 5 HP                                 | 10 HP                                                                                                                               | 5 HP                                               | N/A                             |
| <b>Type of Pump</b>                   | Submersible                          | Submersible                                   | Submersible                          | Submersible                          | Submersible                          | Submersible                                                                                                                         | Submersible                                        | N/A                             |
| <b>Perimeter</b>                      | Fenced                               | Fenced                                        | Fenced                               | Fenced                               | Fenced                               | None                                                                                                                                | None                                               | N/A                             |
| <b>Security</b>                       | Pump access and wet well were locked | Pump access and wet well were locked          | Pump access and wet well were locked | Pump access and wet well were locked | Pump access and wet well were locked | Unsecured                                                                                                                           | Pump access and wet well were locked               | N/A                             |
| <b>Alarms</b>                         | Yes, visual and digital              | Yes, visual and digital                       | Yes, visual and digital              | Yes, visual and digital              | Yes, visual and digital              | Yes, visual and digital                                                                                                             | Yes, visual and digital                            | N/A                             |
| <b># of Pumps</b>                     | 2 pumps, alternate                   | 2 pumps, alternate                            | 2 pumps, alternate                   | 2 pumps, alternate                   | 2 pumps, alternate                   | 2 pumps, alternate                                                                                                                  | 2 pumps, alternate                                 | N/A                             |
| <b>Notes</b>                          | N/A                                  | Backup generator onsite; local control system | N/A                                  | N/A                                  | N/A                                  | Receives wastewater from industrial user (airplane parts manufacturer); DCRUA sampled and inspected the airplane parts manufacturer | Recently replaced pumps and bypassed old valve pit | Brick lined manhole             |

**Table 3. Lift Stations and Manholes Visited by the Inspectors During the Inspection**

| <b>Name</b>         | McElroy Farms Lift Station                                                                                                        | Yahweh Lift Station | Braybourne Lift Station | Legacy Park East Lift Station | Legacy Park North Lift Station                                       | High Point Lift Station                                                                                                                                                         | East State Line Lift Station                                                                               | Braybourne & Sandbourne Manhole                |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------|-------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| <b>Observations</b> | Some solids and grease accumulation in wet well; access to valve pit was not raised; excessive vegetation around the lift station | None                | None                    | None                          | Gap in perimeter fencing; check valve counterweight was disconnected | Pump access and wet well were not locked; black fluid and solids in the wet well; oil spill and/or evidence of overflow by the wet well; lift station only cleaned twice a year | System representatives stated they have had issues with wipes clogging pumps; old valve pit was not locked | Some solids and grease accumulation in manhole |

<sup>1</sup> Refer to Appendix A, Photograph Log.

## **Records Review**

On October 23, 2024, the inspectors conducted a records review to evaluate the City of Olive Branch's compliance with the Clean Water Act. The inspectors reviewed the following documents onsite:

- Lift station operational logs for September 2024 (refer to [Appendix B, Exhibit 1](#))
- Lift station cleaning and maintenance logs from February 2024 to August 2024 (refer to [Appendix B, Exhibit 2](#))
- Sewer flows from October 2023 to September 2024 (refer to [Appendix B, Exhibit 3](#))
- Sewer rates current for 2024
- GIS maps of the collection system
- Operator certifications

On November 1, 2024, and November 8, 2024, the inspectors reviewed the following records offsite provided by the system representatives after the inspection:

- List of industrial users (refer to [Appendix B, Exhibit 4](#))
- SSO reports to MDEQ (refer to [Appendix B, Exhibit 5](#))

## **Summary of Observations**

The following section summarizes the inspectors' observations relative to the requirements of the Clean Water Act and operational best practices. On October 30, 2024, following the inspection, the system representatives provided an update to some of the items the inspectors identified during the closing conference (refer to [Appendix B, Exhibit 6](#)). The observations below note which items the system representatives addressed.

**Observation 1.** The system representatives stated they inspect approximately 5% of the system's sewer lines annually. It is generally considered best practice to conduct inspections of approximately 10% of a collection system's sewer lines annually.

**Observation 2.** The inspectors observed some solids and grease accumulation at the McElroy Farms Lift Station (refer to [Appendix A, Photograph 3](#)). Additionally, the inspectors observed excessive vegetation around the lift station and that the valve pit access was not raised to prevent infiltration (refer to [Appendix A, Photographs 1 and 4](#), respectively).

*Following the inspection, the system representatives provided photographs of cleared vegetation at the McElroy Farms Lift Station (refer to [Appendix B, Exhibit 6](#)).*

**Observation 3.** The inspectors observed a gap in the perimeter fencing at the Legacy Park North Lift Station (refer to [Appendix A, Photograph 18](#)). Additionally, the inspectors observed one of the check valve counterweights was disconnected (refer to [Appendix A, Photograph 19](#)).

*Following the inspection, the system representatives provided photographs of the reinstalled check valve counterweight and a quote for repairs to the perimeter fencing (refer to [Appendix B, Exhibit 6](#)).*

- Observation 4.** The inspectors observed oil and/or evidence of overflow at the High Point Lift Station (refer to [Appendix A, Photograph 23](#)). The inspectors observed black fluid and large amounts of floating solids in the wet well (refer to [Appendix A, Photograph 24](#)). The system representatives stated that this lift station receives wastewater from an airplane parts manufacturer, and that DCRUA has previously inspected and sampled at this location due to pretreatment concerns.

*Following the inspection, the system representatives provided photographs of the High Point Lift Station being cleaned (refer to [Appendix B, Exhibit 6](#)).*

- Observation 5.** The inspectors observed that the old valve pit at the East State Line Lift Station was not locked (refer to [Appendix A, Photograph 25](#)) to prevent entry and vandalism.

*Following the inspection, the system representatives provided photographs of the newly secured old valve pit (refer to [Appendix B, Exhibit 6](#)).*

- Observation 6.** The inspectors observed some solids and grease accumulation at the Braybourne & Sandbourne manhole (refer to [Appendix A, Photograph 13](#)).

### **Closing Conference**

On October 23, 2024, the inspectors met with the system representatives for a closing conference and shared preliminary observations. The inspectors reiterated that all preliminary observations discussed were not compliance determinations. Any and all preliminary observations shared were subject to further investigation by the inspectors upon the additional review of records and documentation. Additional observations may be contained in this inspection report that were not identified at the time of the closing conference after the additional review of materials following the inspection.

The inspection concluded on October 23, 2024, at approximately 1600.