



## Defect Listing

|  |                                |                          |   |                                       |                              |
|--|--------------------------------|--------------------------|---|---------------------------------------|------------------------------|
| Pipe Segment Refere...<br><b>A24-1_A20-3</b> | City<br><b>Oliver Springs</b>  | Street<br><b>Main St</b> | Material<br><b>Concrete Pipe (non-...</b> | Location C...<br><b>Light High...</b> | Sewer Use<br><b>Sanitary</b> |
| Upstream MH<br><b>A24-1</b>                  | Total Length<br><b>50.5</b>    | Year Laid                | Shape<br><b>Circular</b>                  | Location Details                      |                              |
| DS Manhole<br><b>A20-3</b>                   | Length surveyed<br><b>50.5</b> | Year Renewed             | Height<br><b>8</b>                        | Width<br><b>8</b>                     | Pipe Joint...<br><b>4</b>    |

|                    |   |                                |   |
|--------------------|---|--------------------------------|---|
| SPR<br><b>N/A</b>  | MPR<br><b>2</b>                           | PO Number<br><b>4397-03</b>    | Customer<br><b>GRW</b>                      |
| SPRI<br><b>N/A</b> | MPRI<br><b>2</b>                          | Work Order<br><b>4397-02</b>   | Purpose<br><b>Pre-Rehabilitation Survey</b> |
| QSR<br><b>N/A</b>  | QMR<br><b>2100</b>                        |                                |   |
| OPR<br><b>2</b>    | Surveyed By<br><b>Barry Rogers</b>        | Direction<br><b>Downstream</b> | Date<br><b>20150811</b>                     |
| OPRI<br><b>2</b>   | Certificate Number<br><b>U-1012-16405</b> | Pre-Cleaning<br><b>Jetting</b> | Time<br><b>10:07</b>                        |
|                    | Date Cleaned<br><b>20150811</b>           | End Time<br><b>10:12</b>       | Weather<br><b>Dry</b>                       |
|                    |   |                                | Media label                                 |
|                    |   |                                | Additional Info                             |

| Distance                                      | Condition              | Cont. Dfct. | Values |     |    | Joint                    | Clock Position |    | Grade |
|---|------------------------|-------------|--------|-----|----|--------------------------|----------------|----|-------|
|   |                        |             | 1st    | 2nd | %  |                          | At/From        | To |       |
| 0.0 ft.                                       | Access Point Manhole   |             |        |     | 0  | <input type="checkbox"/> |                |    |       |
| Remarks: A24-1                                |                        |             |        |     |    |                          |                |    |       |
| 0.0 ft.                                       | Water Level            |             |        |     | 5  | <input type="checkbox"/> |                |    |       |
| 0.2 ft.                                       | Deposits Settled Other |             |        |     | 10 | <input type="checkbox"/> | 4              | 7  | 2     |
| Remarks: ball of toilet paper an other debris |                        |             |        |     |    |                          |                |    |       |
| 48.7 ft.                                      | Water Level            |             |        |     | 5  | <input type="checkbox"/> |                |    |       |
| 50.5 ft.                                      | Access Point Manhole   |             |        |     | 0  | <input type="checkbox"/> |                |    |       |
| Remarks: A20-3                                |                        |             |        |     |    |                          |                |    |       |



## Image Report 4/Page

| Pipe Segment Refere... | City                    | Street       | Material               | Location C...    | Sewer Use          |
|------------------------|-------------------------|--------------|------------------------|------------------|--------------------|
| A24-1_A20-3            | Oliver Springs          | Main St      | Concrete Pipe (non-... | Light High...    | Sanitary           |
| Upstream MH<br>A24-1   | Total Length<br>50.5    | Year Laid    | Shape<br>Circular      | Location Details |                    |
| DS Manhole<br>A20-3    | Length surveyed<br>50.5 | Year Renewed | Height<br>8            | Width<br>8       | Pipe Joint...<br>4 |



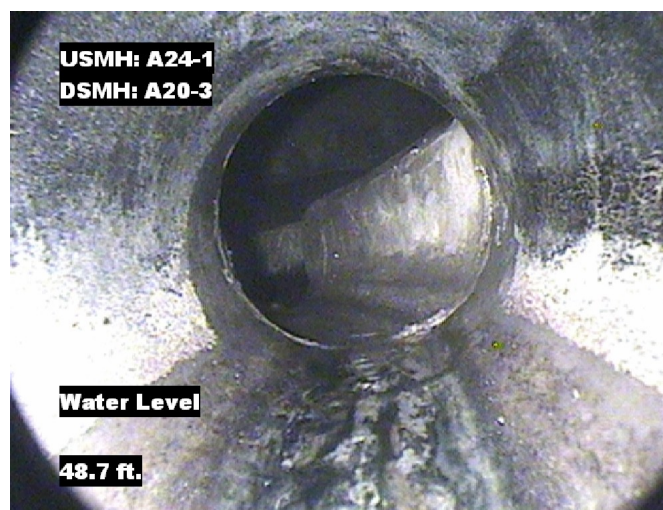
Distance: 0.0 ft. Grade: 0  
Condition: Access Point Manhole  
Remarks: A24-1



Distance: 0.0 ft. Grade: 0  
Condition: Water Level  
Remarks: N/A



Distance: 0.2 ft. Grade: 2  
Condition: Deposits Settled Other  
Remarks: ball of toilet paper an other debris



Distance: 48.7 ft. Grade: 0  
Condition: Water Level  
Remarks: N/A



## Image Report 4/Page

| Pipe Segment Refere... | City                   | Street         | Material                      | Location C...        | Sewer Use       |
|------------------------|------------------------|----------------|-------------------------------|----------------------|-----------------|
| <b>A24-1_A20-3</b>     | <b>Oliver Springs</b>  | <b>Main St</b> | <b>Concrete Pipe (non-...</b> | <b>Light High...</b> | <b>Sanitary</b> |
| <b>Upstream MH</b>     | Total Length           | Year Laid      | <b>Shape</b>                  | Location Details     |                 |
| <b>A24-1</b>           | <b>50.5</b>            |                | <b>Circular</b>               |                      |                 |
| <b>DS Manhole</b>      | <b>Length surveyed</b> | Year Renewed   | <b>Height</b>                 | Width                | Pipe Joint...   |
| <b>A20-3</b>           | <b>50.5</b>            |                | <b>8</b>                      | <b>8</b>             | <b>4</b>        |



Distance: 50.5 ft. Grade: 0  
Condition: Access Point Manhole  
Remarks: A20-3



## PACP Conditions

|                        |                 |              |                        |       |                  |           |
|------------------------|-----------------|--------------|------------------------|-------|------------------|-----------|
| Pipe Segment Refere... | City            | Street       | Material               |       | Location C...    | Sewer Use |
| A24-1_A20-3            | Oliver Springs  | Main St      | Concrete Pipe (non-... |       | Light High...    | Sanitary  |
| Upstream MH            | Total Length    | Year Laid    | Shape                  |       | Location Details |           |
| A24-1                  | 50.5            |              | Circular               |       |                  |           |
| DS Manhole             | Length surveyed | Year Renewed | Height                 | Width | Pipe Joint...    |           |
| A20-3                  | 50.5            |              | 8                      | 8     | 4                |           |

|              |     |                    |      |              |  |                           |  |             |  |
|--------------|-----|--------------------|------|--------------|--|---------------------------|--|-------------|--|
| SPR          | N/A | MPR                | 2    | PO Number    |  | Customer                  |  |             |  |
| SPRI         | N/A | MPRI               | 2    | 4397-03      |  | GRW                       |  |             |  |
| QSR          | N/A | QMR                | 2100 | Work Order   |  | Purpose                   |  |             |  |
|              |     |                    |      | 4397-02      |  | Pre-Rehabilitation Survey |  |             |  |
| OPR          |     | Surveyed By        |      | Direction    |  | Date                      |  | Media label |  |
| 2            |     | Barry_Rogers       |      | Downstream   |  | 20150811                  |  |             |  |
| OPRI         |     | Certificate Number |      | Pre-Cleaning |  | Time                      |  | Weather     |  |
| 2            |     | U-1012-16405       |      | Jetting      |  | 10:07                     |  | Dry         |  |
| Date Cleaned |     |                    |      | End Time     |  | Additional Info           |  |             |  |
| 20150811     |     |                    |      | 10:12        |  |                           |  |             |  |

|                    |    |        | Structural Ratings |            |        | O & M Ratings |            |        | Combined Ratings |            |        |
|--------------------|----|--------|--------------------|------------|--------|---------------|------------|--------|------------------|------------|--------|
|                    |    |        | Grade Rating       | No. Occur. | Rating | Grade Rating  | No. Occur. | Rating | Grade Rating     | No. Occur. | Rating |
| Normal Defects     |    |        |                    |            |        |               |            |        |                  |            |        |
| Continuous Defects |    |        | 1                  | 0          | 0      | 1             | 0          | 0      | 1                | 0          | 0      |
|                    |    |        | 2                  | 0          | 0      | 2             | 1          | 2      | 2                | 1          | 2      |
|                    |    |        | 3                  | 0          | 0      | 3             | 0          | 0      | 3                | 0          | 0      |
|                    |    |        | 4                  | 0          | 0      | 4             | 0          | 0      | 4                | 0          | 0      |
|                    |    |        | 5                  | 0          | 0      | 5             | 0          | 0      | 5                | 0          | 0      |
| Code               | ID | Length |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |
|                    |    |        |                    |            |        |               |            |        |                  |            |        |