



## Defect Listing

|  |                                |                           |   |                                       |                              |
|--|--------------------------------|---------------------------|---|---------------------------------------|------------------------------|
| Pipe Segment Refere...<br><b>A28-1_A27-3</b> | City<br><b>Oliver Springs</b>  | Street<br><b>Union Dr</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>A28-1</b>                  | Total Length<br><b>99.6</b>    | Year Laid                 | Shape<br><b>Circular</b>                  | Location Details                      |                              |
| DS Manhole<br><b>A27-3</b>                   | Length surveyed<br><b>99.6</b> | Year Renewed              | Height<br><b>8</b>                        | Width<br><b>8</b>                     | Pipe Joint...<br><b>4</b>    |

|                                 |   |                                |                          |   |  |
|---------------------------------|---|--------------------------------|--------------------------|---|--|
| SPR<br><b>5</b>                 | MPR<br><b>8</b>                             | PO Number<br><b>4397-03</b>    |                          | Customer<br><b>GRW</b>                      |  |
| SPRI<br><b>5</b>                | MPRI<br><b>2.7</b>                          | Work Order<br><b>4397-02</b>   |                          | Purpose<br><b>Pre-Rehabilitation Survey</b> |  |
| QSR<br><b>5100</b>              | QMR<br><b>4131</b>                          |                                |                          |   |  |
| OPR<br><b>13</b>                | Surveyed By<br><b>Charlie Gordon</b>        | Direction<br><b>Downstream</b> | Date<br><b>20150821</b>  | Media label                                 |  |
| OPRI<br><b>3.3</b>              | Certificate Number<br><b>U-615-07000491</b> | Pre-Cleaning<br><b>Jetting</b> | Time<br><b>08:15</b>     | Weather<br><b>Damp</b>                      |  |
| Date Cleaned<br><b>20150821</b> |   |                                | End Time<br><b>08:23</b> | 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: A28-1 |                      |             |        |     |    |                                     |                |    |       |
| 0.0 ft.        | Water Level          |             |        |     | 5  | <input type="checkbox"/>            |                |    |       |
| 34.2 ft.       | Roots Fine Joint     |             |        |     | 0  | <input checked="" type="checkbox"/> | 12             |    | 1     |
| 34.2 ft.       | Infiltration Runner  |             |        |     | 0  | <input type="checkbox"/>            | 1              |    | 4     |
| 81.3 ft.       | Hole Soil Visible    |             |        |     | 0  | <input type="checkbox"/>            | 2              |    | 5     |
| 81.3 ft.       | Infiltration Dripper |             |        |     | 0  | <input type="checkbox"/>            | 3              |    | 3     |
| 81.3 ft.       | Infiltration Stain   |             |        |     |    | <input type="checkbox"/>            | 2              | 6  |       |
| 97.5 ft.       | Water Level          |             |        |     | 10 | <input type="checkbox"/>            |                |    |       |
| 99.6 ft.       | Access Point Manhole |             |        |     | 0  | <input type="checkbox"/>            |                |    |       |
| Remarks: A27-3 |                      |             |        |     |    |                                     |                |    |       |



## Image Report 4/Page

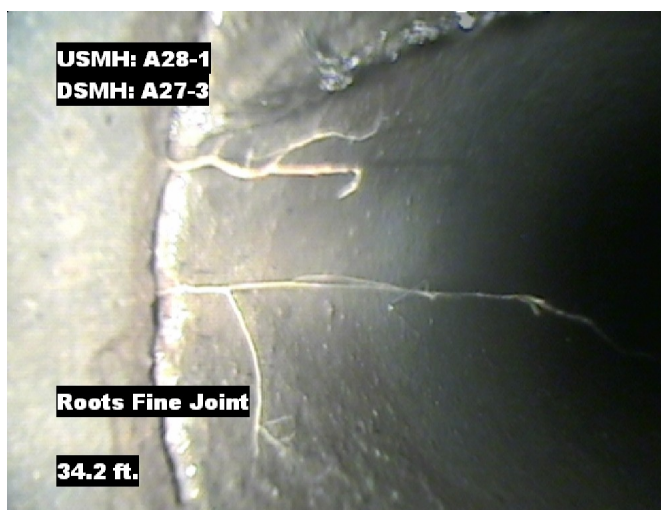
| Pipe Segment Refere... | City            | Street       | Material               | Location C...    | Sewer Use     |
|------------------------|-----------------|--------------|------------------------|------------------|---------------|
| A28-1_A27-3            | Oliver Springs  | Union Dr     | Concrete Pipe (non-... | Light High...    | Sanitary      |
| Upstream MH            | Total Length    | Year Laid    | Shape                  | Location Details |               |
| A28-1                  | 99.6            |              | Circular               |                  |               |
| DS Manhole             | Length surveyed | Year Renewed | Height                 | Width            | Pipe Joint... |
| A27-3                  | 99.6            |              | 8                      | 8                | 4             |



Distance: 0.0 ft. Grade: 0  
Condition: Access Point Manhole  
Remarks: A28-1



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



Distance: 34.2 ft. Grade: 1  
Condition: Roots Fine Joint  
Remarks: N/A

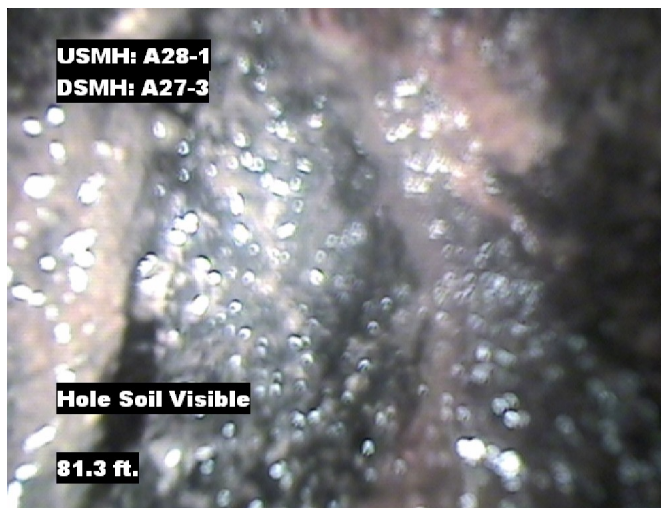


Distance: 34.2 ft. Grade: 4  
Condition: Infiltration Runner  
Remarks: N/A

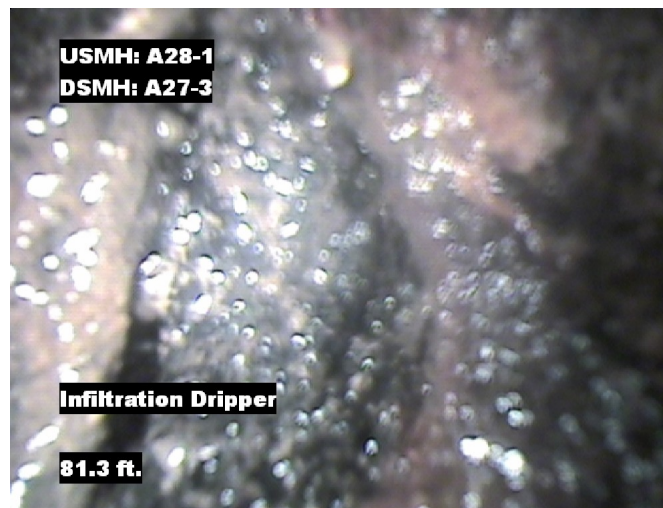


## Image Report 4/Page

| Pipe Segment Refere... | City            | Street       | Material               | Location C...    | Sewer Use     |
|------------------------|-----------------|--------------|------------------------|------------------|---------------|
| A28-1_A27-3            | Oliver Springs  | Union Dr     | Concrete Pipe (non-... | Light High...    | Sanitary      |
| Upstream MH            | Total Length    | Year Laid    | Shape                  | Location Details |               |
| A28-1                  | 99.6            |              | Circular               |                  |               |
| DS Manhole             | Length surveyed | Year Renewed | Height                 | Width            | Pipe Joint... |
| A27-3                  | 99.6            |              | 8                      | 8                | 4             |



Distance: 81.3 ft. Grade: 5  
Condition: Hole Soil Visible  
Remarks: N/A



Distance: 81.3 ft. Grade: 3  
Condition: Infiltration Dripper  
Remarks: N/A



Distance: 81.3 ft. Grade: 0  
Condition: Infiltration Stain  
Remarks: N/A



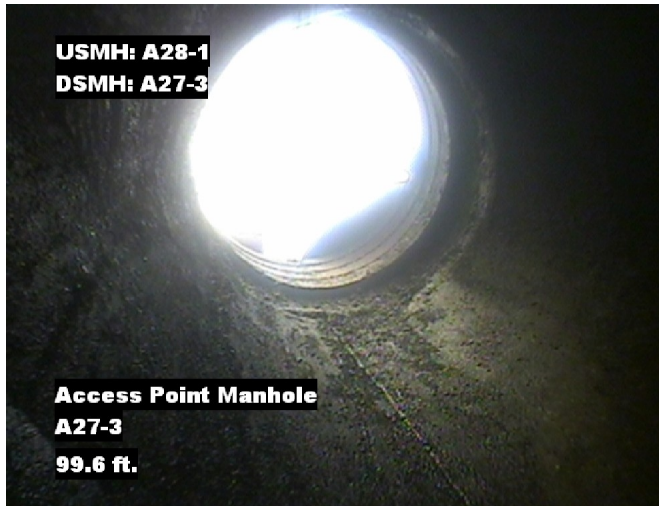
Distance: 97.5 ft. Grade: 0  
Condition: Water Level  
Remarks: N/A





## Image Report 4/Page

| Pipe Segment Refere... | City                   | Street          | Material                      | Location C...        | Sewer Use       |
|------------------------|------------------------|-----------------|-------------------------------|----------------------|-----------------|
| <b>A28-1_A27-3</b>     | <b>Oliver Springs</b>  | <b>Union Dr</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>A28-1</b>           | <b>99.6</b>            |                 | <b>Circular</b>               |                      |                 |
| <b>DS Manhole</b>      | <b>Length surveyed</b> | Year Renewed    | <b>Height</b>                 | Width                | Pipe Joint...   |
| <b>A27-3</b>           | <b>99.6</b>            |                 | <b>8</b>                      | <b>8</b>             | <b>4</b>        |



Distance: 99.6 ft. Grade: 0  
Condition: Access Point Manhole  
Remarks: A27-3



## PACP Conditions

|  |   |                                |   |   |                              |
|--|---|--------------------------------|---|---|------------------------------|
| Pipe Segment Refere...<br><b>A28-1_A27-3</b> | City<br><b>Oliver Springs</b>               | Street<br><b>Union Dr</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>A28-1</b>                  | Total Length<br><b>99.6</b>                 | Year Laid                      | Shape<br><b>Circular</b>                  | Location Details                            |                              |
| DS Manhole<br><b>A27-3</b>                   | Length surveyed<br><b>99.6</b>              | Year Renewed                   | Height<br><b>8</b>                        | Width<br><b>8</b>                           | Pipe Joint...<br><b>4</b>    |
| SPR<br><b>5</b>                              | MPR<br><b>8</b>                             | PO Number<br><b>4397-03</b>    |   | Customer<br><b>GRW</b>                      |                              |
| SPRI<br><b>5</b>                             | MPRI<br><b>2.7</b>                          | Work Order<br><b>4397-02</b>   |   | Purpose<br><b>Pre-Rehabilitation Survey</b> |                              |
| QSR<br><b>5100</b>                           | QMR<br><b>4131</b>                          | Direction<br><b>Downstream</b> |   | Date<br><b>20150821</b>                     |                              |
| OPR<br><b>13</b>                             | Surveyed By<br><b>Charlie Gordon</b>        | Pre-Cleaning<br><b>Jetting</b> |   | Media label                                 |                              |
| OPRI<br><b>3.3</b>                           | Certificate Number<br><b>U-615-07000491</b> | Time<br><b>08:15</b>           |   | Weather<br><b>Damp</b>                      |                              |
| Date Cleaned<br><b>20150821</b>              |   |                                | End Time<br><b>08:23</b>                  |   | Additional Info              |

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