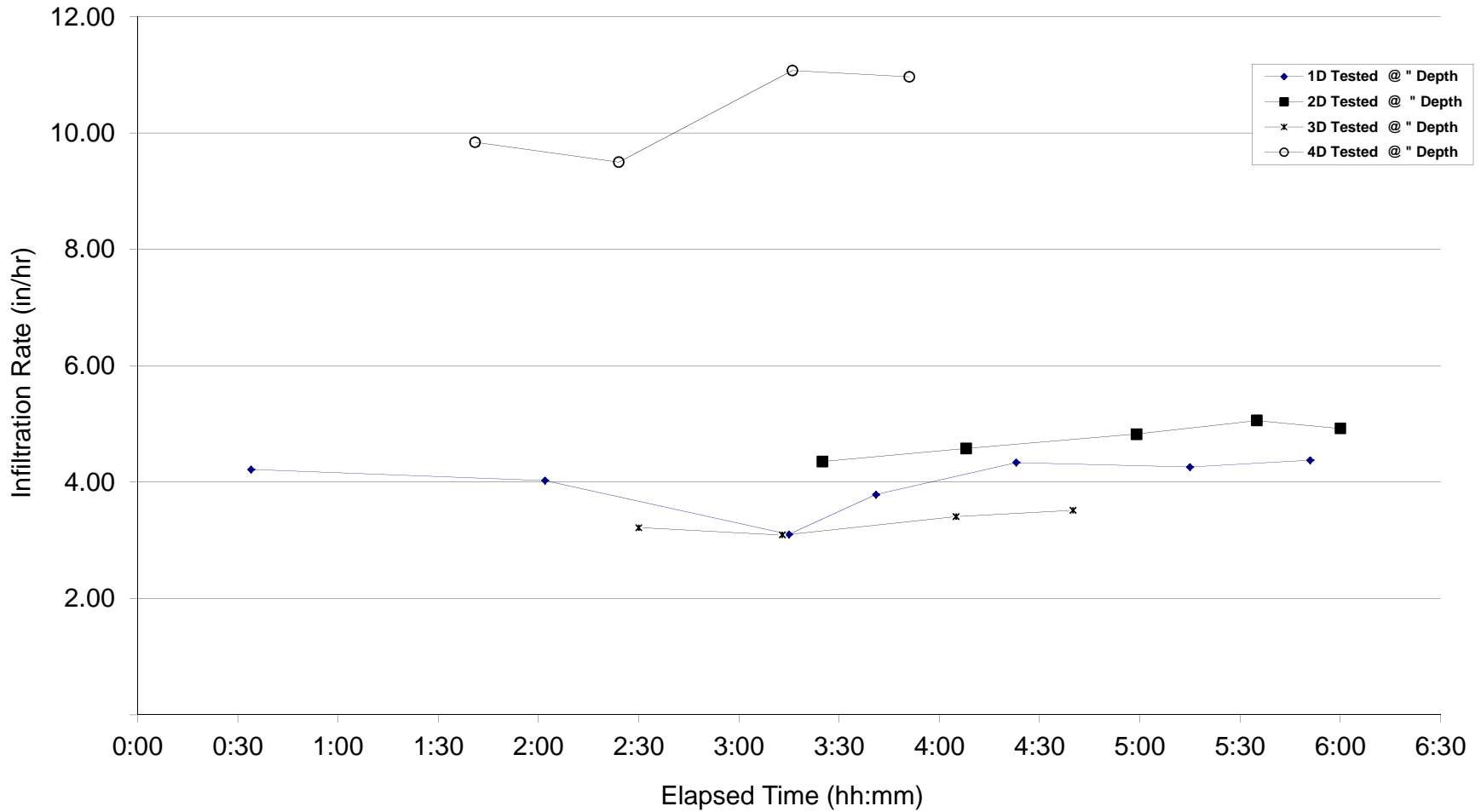


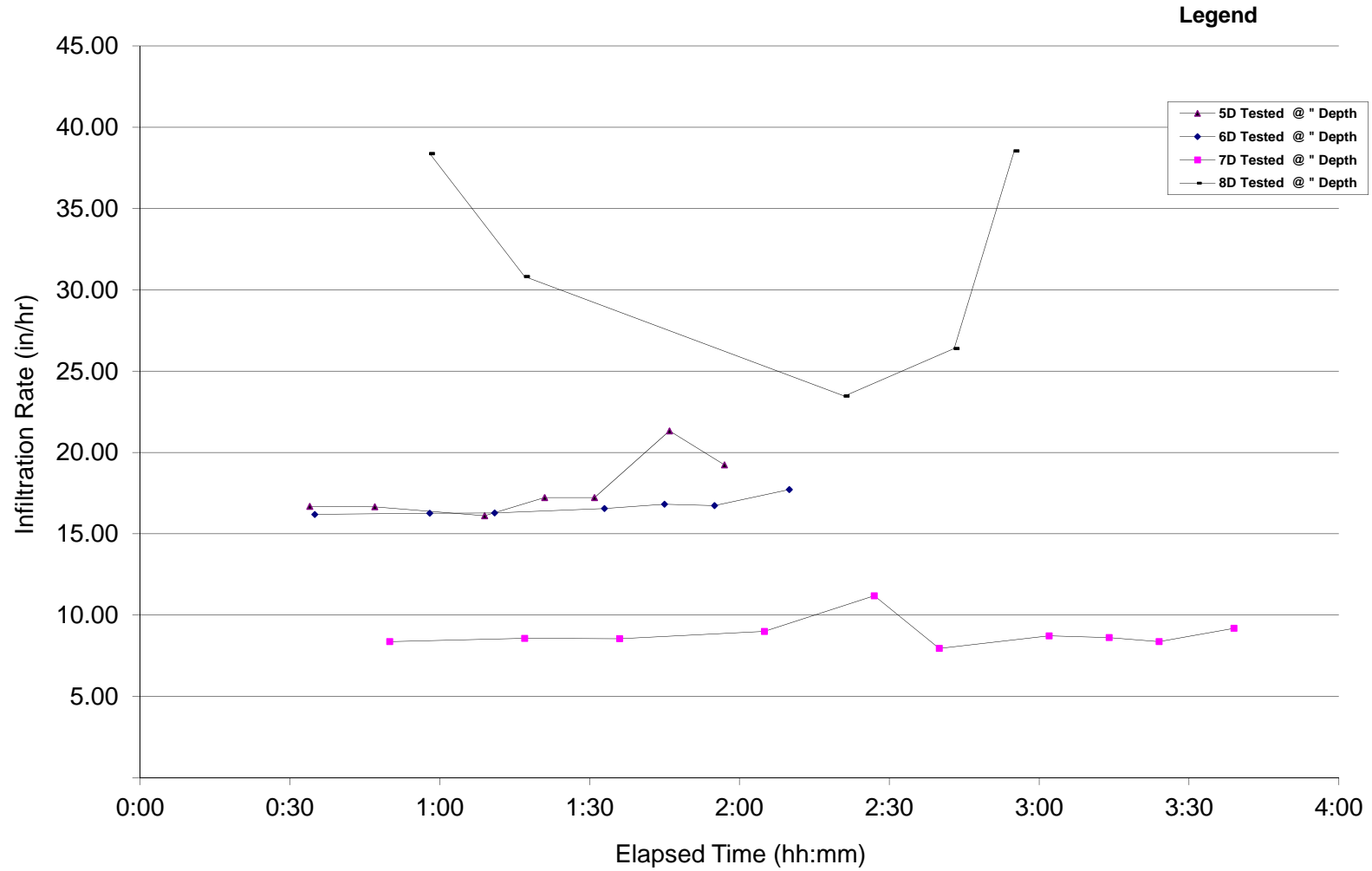
## **Appendix C – Soil Infiltration Test Results**

Inland Bays Proposed Spray Irrigation Site, 36"-60" Map Units  
Double Ring Infiltrometer Test Results  
(Constant Head Method @ 6" Head)

Legend



Inland Bays Proposed Spray Irrigation Site, >60" Map Units  
Double Ring Infiltrometer Test Results  
(Constant Head Method @ 6" Head)



# Inland Bays Spray Expansion Double Ring Infiltrometer Testing Results

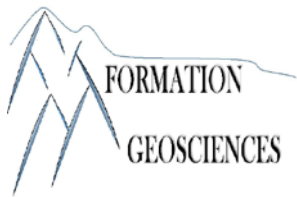
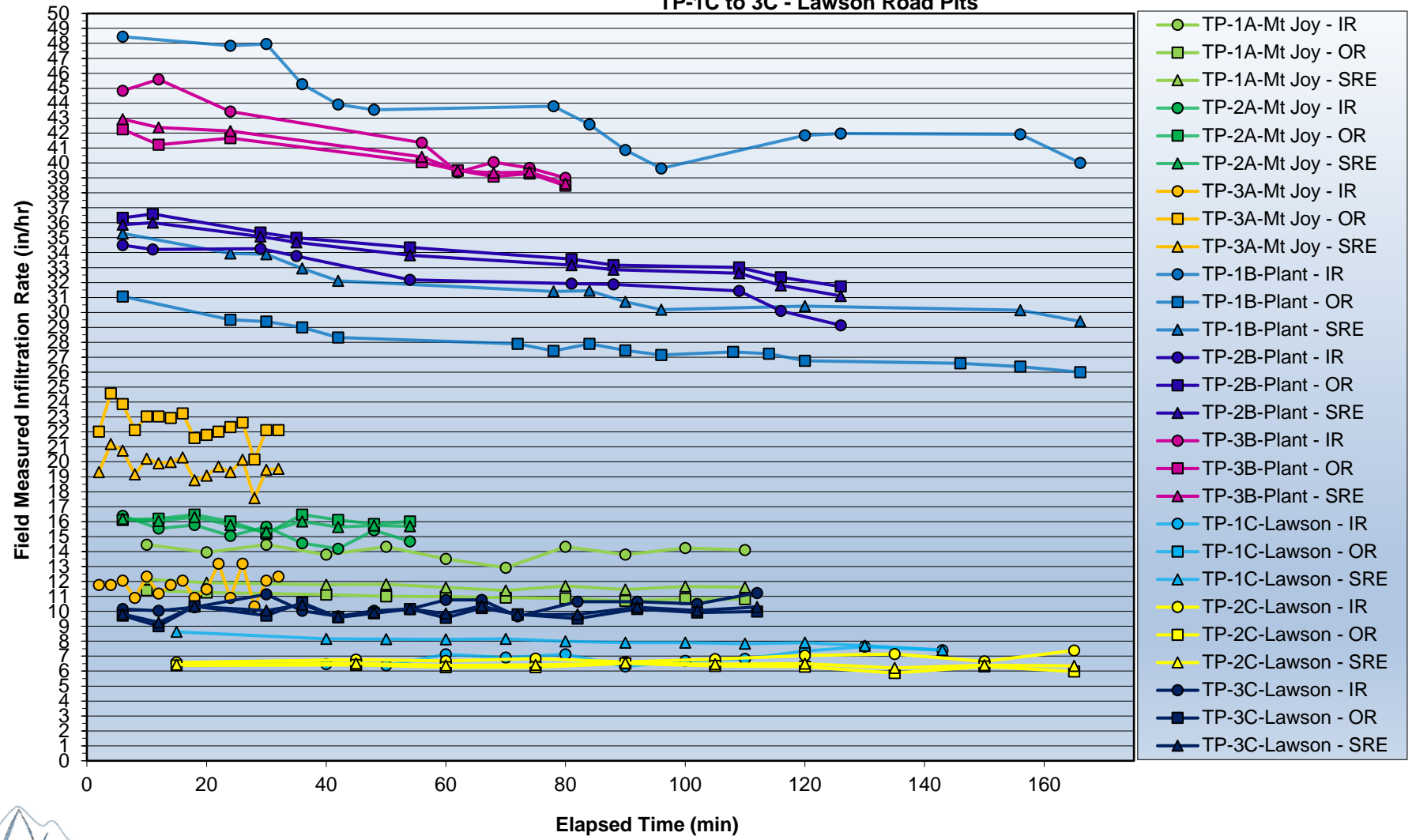
| Infiltrometer Test                |                     |                        |                              |                              |                                |                                  |                |                    |         |  |
|-----------------------------------|---------------------|------------------------|------------------------------|------------------------------|--------------------------------|----------------------------------|----------------|--------------------|---------|--|
| 11/3/2016                         |                     |                        |                              |                              |                                |                                  |                |                    |         |  |
| Cumulative Time (hours & minutes) | Infiltration Rate   | Elapsed Time (minutes) | Elapsed Time (decimal hours) | Actual Drop in Ring (inches) | Conversion from Feet to Inches | Time Readings Taken (24hr clock) | Device Reading | Device Drop (feet) | Remarks |  |
|                                   | 1D Tested @ " Depth | Set @ 42"              |                              |                              |                                | 1D                               |                |                    |         |  |
| 0:34                              | 4.22                | 0:28                   | 0.47                         | 1.97                         | 2.88                           | 11:38                            | 22.06          | 0.24               |         |  |
| 2:02                              | 4.03                | 1:28                   | 1.47                         | 5.91                         | 8.64                           | 13:06                            | 21.34          | 0.72               |         |  |
| 3:15                              | 3.10                | 1:13                   | 1.22                         | 3.77                         | 5.52                           | 14:19                            | 20.88          | 0.46               |         |  |
| 3:41                              | 3.79                | 0:26                   | 0.43                         | 1.64                         | 2.4                            | 14:45                            | 20.68          | 0.20               |         |  |
| 4:23                              | 4.34                | 0:42                   | 0.70                         | 3.03                         | 4.44                           | 15:27                            | 20.31          | 0.37               |         |  |
| 5:15                              | 4.26                | 0:52                   | 0.87                         | 3.69                         | 5.4                            | 16:19                            | 19.86          | 0.45               |         |  |
| 5:51                              | 4.37                | 0:36                   | 0.60                         | 2.62                         | 3.84                           | 16:55                            | 19.54          | 0.32               |         |  |
| 11/3/2016                         |                     |                        |                              |                              |                                |                                  |                |                    |         |  |
| Cumulative Time (hours & minutes) | Infiltration Rate   | Elapsed Time (minutes) | Elapsed Time (decimal hours) | Actual Drop in Ring (inches) | Conversion from Feet to Inches | Time Readings Taken (24hr clock) | Device Reading | Device Drop (feet) | Remarks |  |
|                                   | 2D Tested @ " Depth | Set @ 30"              |                              |                              |                                | 2D                               |                |                    |         |  |
| 3:25                              | 4.35                | 0:26                   | 0.43                         | 1.89                         | 2.76                           | 14:46                            | 37.22          | 0.23               |         |  |
| 4:08                              | 4.58                | 0:43                   | 0.72                         | 3.28                         | 4.8                            | 15:29                            | 36.82          | 0.40               |         |  |
| 4:59                              | 4.82                | 0:51                   | 0.85                         | 4.10                         | 6                              | 16:20                            | 36.32          | 0.50               |         |  |
| 5:35                              | 5.06                | 0:36                   | 0.60                         | 3.03                         | 4.44                           | 16:56                            | 35.95          | 0.37               |         |  |
| 6:00                              | 4.92                | 0:25                   | 0.42                         | 2.05                         | 3                              | 17:21                            | 35.7           | 0.25               |         |  |
| 11/3/2016                         |                     |                        |                              |                              |                                |                                  |                |                    |         |  |
| Cumulative Time (hours & minutes) | Infiltration Rate   | Elapsed Time (minutes) | Elapsed Time (decimal hours) | Actual Drop in Ring (inches) | Conversion from Feet to Inches | Time Readings Taken (24hr clock) | Device Reading | Device Drop (feet) | Remarks |  |
|                                   | 3D Tested @ " Depth | Set @ 34"              |                              |                              |                                | 3D                               |                |                    |         |  |
| 2:30                              | 3.22                | 0:26                   | 0.43                         | 1.39                         | 2.04                           | 14:43                            | 16.38          | 0.17               |         |  |
| 3:13                              | 3.09                | 0:43                   | 0.72                         | 2.21                         | 3.24                           | 15:26                            | 16.11          | 0.27               |         |  |
| 4:05                              | 3.41                | 0:52                   | 0.87                         | 2.95                         | 4.32                           | 16:18                            | 15.75          | 0.36               |         |  |
| 4:40                              | 3.52                | 0:35                   | 0.58                         | 2.05                         | 3                              | 16:53                            | 15.5           | 0.25               |         |  |
| 11/3/2016                         |                     |                        |                              |                              |                                |                                  |                |                    |         |  |
| Cumulative Time (hours & minutes) | Infiltration Rate   | Elapsed Time (minutes) | Elapsed Time (decimal hours) | Actual Drop in Ring (inches) | Conversion from Feet to Inches | Time Readings Taken (24hr clock) | Device Reading | Device Drop (feet) | Remarks |  |
|                                   | 4D Tested @ " Depth | Set @ 36"              |                              |                              |                                | 4D                               |                |                    |         |  |
| 1:41                              | 9.84                | 0:26                   | 0.43                         | 4.27                         | 6.24                           | 14:42                            | 29.10          | 0.52               |         |  |
| 2:24                              | 9.50                | 0:43                   | 0.72                         | 6.81                         | 9.96                           | 15:25                            | 28.27          | 0.83               |         |  |
| 3:16                              | 11.07               | 0:52                   | 0.87                         | 9.60                         | 14.04                          | 16:17                            | 27.10          | 1.17               |         |  |
| 3:51                              | 10.97               | 0:35                   | 0.58                         | 6.40                         | 9.36                           | 16:52                            | 26.32          | 0.78               |         |  |
| 11/4/2016                         |                     |                        |                              |                              |                                |                                  |                |                    |         |  |
| Cumulative Time (hours & minutes) | Infiltration Rate   | Elapsed Time (minutes) | Elapsed Time (decimal hours) | Actual Drop in Ring (inches) | Conversion from Feet to Inches | Time Readings Taken (24hr clock) | Device Reading | Device Drop (feet) | Remarks |  |

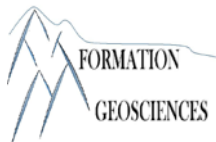
# Inland Bays Spray Expansion Double Ring Infiltrometer Testing Results

|                                   | 5D Tested @ " Depth | Set @ 34"              |                              |                              |                                | 5D                               |                |                    |         |                         |
|-----------------------------------|---------------------|------------------------|------------------------------|------------------------------|--------------------------------|----------------------------------|----------------|--------------------|---------|-------------------------|
|                                   | 0:34 16.69          | 0:23                   | 0.38                         | 6.40                         | 9.36                           | 13:45                            | 29.53          | 0.78               |         |                         |
|                                   | 0:47 16.66          | 0:13                   | 0.22                         | 3.61                         | 5.28                           | 13:58                            | 29.09          | 0.44               |         |                         |
|                                   | 1:09 16.11          | 0:22                   | 0.37                         | 5.91                         | 8.64                           | 14:20                            | 28.37          | 0.72               |         |                         |
|                                   | 1:21 17.22          | 0:12                   | 0.20                         | 3.44                         | 5.04                           | 14:32                            | 27.95          | 0.42               |         |                         |
|                                   | 1:31 17.22          | 0:10                   | 0.17                         | 2.87                         | 4.2                            | 14:42                            | 27.6           | 0.35               |         |                         |
|                                   | 1:46 21.33          | 0:15                   | 0.25                         | 5.33                         | 7.8                            | 14:57                            | 26.95          | 0.65               |         | Reduced Head Outer Ring |
|                                   | 1:57 19.24          | 0:11                   | 0.18                         | 3.53                         | 5.16                           | 15:08                            | 26.52          | 0.43               |         | Reduced Head Outer Ring |
|                                   | 11/4/2016           |                        |                              |                              |                                |                                  |                |                    |         |                         |
| Cumulative Time (hours & minutes) | Infiltration Rate   | Elapsed Time (minutes) | Elapsed Time (decimal hours) | Actual Drop in Ring (inches) | Conversion from Feet to Inches | Time Readings Taken (24hr clock) | Device Reading | Device Drop (feet) | Remarks |                         |
|                                   | 6D Tested @ " Depth | Set @ 47"              |                              |                              |                                | 6D                               |                |                    |         |                         |
|                                   | 0:35 16.19          | 0:31                   | 0.52                         | 8.37                         | 12.24                          | 13:21                            | 37.42          | 1.02               |         |                         |
|                                   | 0:58 16.26          | 0:23                   | 0.38                         | 6.23                         | 9.12                           | 13:44                            | 36.66          | 0.76               |         |                         |
|                                   | 1:11 16.28          | 0:13                   | 0.22                         | 3.53                         | 5.16                           | 13:57                            | 36.23          | 0.43               |         |                         |
|                                   | 1:33 16.55          | 0:22                   | 0.37                         | 6.07                         | 8.88                           | 14:19                            | 35.49          | 0.74               |         |                         |
|                                   | 1:45 16.81          | 0:12                   | 0.20                         | 3.36                         | 4.92                           | 14:31                            | 35.08          | 0.41               |         |                         |
|                                   | 1:55 16.73          | 0:10                   | 0.17                         | 2.79                         | 4.08                           | 14:41                            | 34.74          | 0.34               |         |                         |
|                                   | 2:10 17.72          | 0:15                   | 0.25                         | 4.43                         | 6.48                           | 14:56                            | 34.20          | 0.54               |         | Outer Ring Falling      |
|                                   | 11/4/2016           |                        |                              |                              |                                |                                  |                |                    |         |                         |
| Cumulative Time (hours & minutes) | Infiltration Rate   | Elapsed Time (minutes) | Elapsed Time (decimal hours) | Actual Drop in Ring (inches) | Conversion from Feet to Inches | Time Readings Taken (24hr clock) | Device Reading | Device Drop (feet) | Remarks |                         |
|                                   | 7D Tested @ " Depth | Set @ 30"              |                              |                              |                                | 7D                               |                |                    |         |                         |
|                                   | 0:50 8.37           | 0:10                   | 0.17                         | 1.39                         | 2.04                           | 12:05                            | 15.86          | 0.17               |         |                         |
|                                   | 1:17 8.57           | 0:27                   | 0.45                         | 3.85                         | 5.64                           | 12:32                            | 15.39          | 0.47               |         |                         |
|                                   | 1:36 8.55           | 0:19                   | 0.32                         | 2.71                         | 3.96                           | 12:51                            | 15.06          | 0.33               |         |                         |
|                                   | 2:05 8.99           | 0:29                   | 0.48                         | 4.35                         | 6.36                           | 13:20                            | 14.53          | 0.53               |         |                         |
|                                   | 2:27 11.18          | 0:22                   | 0.37                         | 4.10                         | 6                              | 13:42                            | 14.03          | 0.50               |         | Outer Ring Dry          |
|                                   | 2:40 7.95           | 0:13                   | 0.22                         | 1.72                         | 2.52                           | 13:55                            | 13.82          | 0.21               |         |                         |
|                                   | 3:02 8.72           | 0:22                   | 0.37                         | 3.20                         | 4.68                           | 14:17                            | 13.43          | 0.39               |         |                         |
|                                   | 3:14 8.61           | 0:12                   | 0.20                         | 1.72                         | 2.52                           | 14:29                            | 13.22          | 0.21               |         |                         |
|                                   | 3:24 8.37           | 0:10                   | 0.17                         | 1.39                         | 2.04                           | 14:39                            | 13.05          | 0.17               |         |                         |
|                                   | 3:39 9.19           | 0:15                   | 0.25                         | 2.30                         | 3.36                           | 14:54                            | 12.77          | 0.28               |         | Reduced Head Outer Ring |
|                                   | 11/4/2016           |                        |                              |                              |                                |                                  |                |                    |         |                         |
| Cumulative Time (hours & minutes) | Infiltration Rate   | Elapsed Time (minutes) | Elapsed Time (decimal hours) | Actual Drop in Ring (inches) | Conversion from Feet to Inches | Time Readings Taken (24hr clock) | Device Reading | Device Drop (feet) | Remarks |                         |
|                                   | 8D Tested @ " Depth | Set @ 36"              |                              |                              |                                | 8D                               |                |                    |         |                         |
|                                   | 0:58 38.39          | 0:25                   | 0.42                         | 15.99                        | 23.4                           | 12:33                            | 20.90          | 1.95               |         | Reduced Head Outer Ring |
|                                   | 1:17 30.82          | 0:19                   | 0.32                         | 9.76                         | 14.28                          | 12:52                            | 19.71          | 1.19               |         |                         |
|                                   | 2:21 23.47          | 0:13                   | 0.22                         | 5.09                         | 7.44                           | 13:56                            | 20.50          | 0.62               |         |                         |
|                                   | 2:43 26.40          | 0:22                   | 0.37                         | 9.68                         | 14.16                          | 14:18                            | 19.32          | 1.18               |         |                         |
|                                   | 2:55 38.55          | 0:12                   | 0.20                         | 7.71                         | 11.28                          | 14:30                            | 18.38          | 0.94               |         | Reduced Head Outer Ring |

# SUSSEX COUNTY (INLAND BAYS) WASTEWATER TREATMENT AND DISPOSAL FACILITY - INFILTRATION TESTING

Double-Ring Infiltration Test (ASTM D 3385) Results Plot  
 TP-1A to 3A - Mt Joy Road Pits  
 TP-1B to 3B - Plant Road Pits  
 TP-1C to 3C - Lawson Road Pits





620 East 3rd Street  
Wilmington, De 19801

### INFILTRATION TESTING DATA SHEET

|                            |   |                |
|----------------------------|---|----------------|
| Project Name:              | Sussex County Inland Bays Wastewater Treatment and Disposal Facility - Infiltration Testing | Date: 11/10/16 |
| Project No. :              | 16014-Y   | Test By: JPC   |
| Test Hole No. :            | TP - 1A - Mt. Joy   |                |
| Est. Ground Surface Elev.: | _____ ft.   |                |
| Approximate Test Elev.:    | _____ ft.   |                |
| Test Depth:                | 2.5 ft.   |                |
| Test Type:                 | Constant Head      Double-Ring      ASTM D 3385   |                |

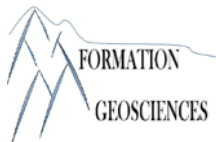
| Test Details      |             |                | Test Surfaces          |             | Test Saturation              |                            |                             |
|-------------------|-------------|----------------|------------------------|-------------|------------------------------|----------------------------|-----------------------------|
| Inner Ring:       | Ring ID: Ai | Dia. (in.): 12 | Head Vol. (gal): 2.4   | In. Ring :  | 111 sq. in.                  |                            |                             |
| Outer Ring :      | Ao          | 24             | 7.4                    | Out. Ring:  | 344 sq. in.                  |                            |                             |
| Test Head (in.):  | 5           |                |                        | Total :     | 455 sq. in.                  |                            |                             |
| Inner Ring Res.:  |             |                | Res. X-Sectional Area* |             | Begin Saturation Time: 11:18 |                            |                             |
| Res1              | 12          | in.            | Res1                   | 113 sq. in. |                              | End Saturation Time: 12:00 |                             |
| Outer Ring Res. : |             |                | Res2                   | 113 sq. in. |                              | Approx. Saturation Volume: |                             |
| Res2              | 12          | in.            |                        |             | In. Ring Fill:               | 2.8 gal                    | Sat <sub>fill</sub> 0.4 gal |
|                   |             |                |                        |             | Outer Ring Fill:             | 8.5 gal                    | Sat <sub>fill</sub> 1.1 gal |
|                   |             |                |                        |             | Res1 Feed (min) (drop):      | 42                         | 0.76 feet = 4.5 gal         |
|                   |             |                |                        |             | Res2 Feed (min) (drop):      | 42                         | 1.73 feet = 10.1 gal        |
|                   |             |                |                        |             | <b>Total = 16.1 gal</b>      |                            |                             |

|                            |  |   |
|----------------------------|--|---|
| <b>Conversions:</b>        | Inner Reservoir Volume:                  | Outer Reservoir Volume:   |
| 1 foot of Reservoir Res1 = | 1356 cubic inches of water = 5.9 gallons | 1 foot of Reservoir Res2 = 1356 cubic inches of water 5.9 gallons |
| 1 gallon =                 | 231 cubic inches of water                |   |

| Test Period  | Initial Res. Head Measurements (feet) |       | Time of Measurement<br>(mm/dd/yyyy<br>24 hrs) | Elapsed time<br>(min) | Dt<br>(min) | Res. Head Measurements (feet) |       | Reservoir Drop in Head (feet) |       | Water Temp. (°F)<br><br>(°F) | Field Measured Infiltration Rate<br>(inches per hour) |            |             |
|--|---------------------------------------|-------|---|-----------------------|-------------|-------------------------------|-------|-------------------------------|-------|------------------------------|---|------------|-------------|
|  | Inner                                 | Outer |   |                       |             | Inner                         | Outer | Inner                         | Outer |                              | Inner Ring (Kv)                                       | Outer Ring | Single Ring |
| Start Analysis   | 3.37                                  | 2.23  | 11/4/16 12:00                                 | 0                     | --          | 3.37                          | 2.23  | 0.00                          | 0.00  | 59                           | --  | --         | --          |
|  |                                       |       | 11/4/16 12:10                                 | 10                    | 10          | 3.17                          | 1.75  | 0.20                          | 0.48  | 59                           | 14.5  | 11.4       | 12.2        |
|  |                                       |       | 11/4/16 12:20                                 | 20                    | 10          | 2.98                          | 1.28  | 0.19                          | 0.48  | 59                           | 13.9  | 11.3       | 11.9        |
| Refill Reservoir   |                                       | 3.91  | 11/4/16 12:30                                 | 30                    | 10          | 2.78                          | 3.91  | 0.20                          | 0.00  | 59                           | 14.5  | --         | --          |
|  |                                       |       | 11/4/16 12:40                                 | 40                    | 10          | 2.59                          | 3.44  | 0.19                          | 0.47  | 59                           | 13.8  | 11.1       | 11.8        |
|  |                                       |       | 11/4/16 12:50                                 | 50                    | 10          | 2.40                          | 2.98  | 0.20                          | 0.47  | 59                           | 14.3  | 11.0       | 11.8        |
|  |                                       |       | 11/4/16 13:00                                 | 60                    | 10          | 2.22                          | 2.52  | 0.18                          | 0.46  | 59                           | 13.5  | 11.0       | 11.6        |
|  |                                       |       | 11/4/16 13:10                                 | 70                    | 10          | 2.04                          | 2.05  | 0.18                          | 0.46  | 59                           | 12.9  | 10.9       | 11.4        |
|  |                                       |       | 11/4/16 13:20                                 | 80                    | 10          | 1.84                          | 1.60  | 0.20                          | 0.46  | 59                           | 14.3  | 10.9       | 11.7        |
|  |                                       |       | 11/4/16 13:30                                 | 90                    | 10          | 1.66                          | 1.14  | 0.19                          | 0.45  | 59                           | 13.8  | 10.7       | 11.5        |
|  |                                       |       | 11/4/16 13:40                                 | 100                   | 10          | 1.46                          | 0.69  | 0.19                          | 0.46  | 60                           | 14.2  | 10.8       | 11.7        |
| End Analysis   |                                       |       | 11/4/16 13:50                                 | 110                   | 10          | 1.27                          | 0.23  | 0.19                          | 0.46  | 60                           | 14.1  | 10.8       | 11.6        |
| <b>Duration of Testing (hours)</b>   |                                       |       |   | 2.5                   |             |                               |       | 65                            |       |                              |   |            |             |
| <b>Est. Volume of Water Infiltrated during Analysis Period (gallons)</b>               |                                       |       |   |                       |             |                               |       |                               |       |                              |   |            |             |
| <b>Est. Volume of Water Infiltrated during Test Sat. and Analysis Period (gallons)</b> |                                       |       |   |                       |             |                               |       | 81                            |       |                              | 14.0  | 11.0       | 11.7        |
| <b>Average Field Measured Infiltration Rate (inches per hour)</b>                      |                                       |       |   |                       |             |                               |       |                               |       |                              |   |            |             |
| <b>Minimum Field Measured Infiltration Rate (inches per hour)</b>                      |                                       |       |   |                       |             |                               |       |                               |       |                              | 12.9  | 10.7       | 11.4        |

**Notes:**

1. Infiltration test performed at test pit location TP - 1A - Mt. Joy at approximately 2.5 feet below existing ground surface.
2. Constant Head, Double-Ring infiltration test performed in general accordance with ASTM D 3385.
3. Reservoir water level readings recorded on a 1 minute frequency using water level data loggers. Data collected rounded to the nearest 0.01 feet.
4. Average field measured infiltration rate based on near steady state conditions determined from data collected.
5. Testing performed in a loose density Loamy Sand to Sand soil horizon encountered within the test excavation at the noted test depth.
6. Testing performed for Accent Environmental, L.L.C. (AE). Locations, elevations and descriptive log of the test excavation's soil profile were estimated by AE.



620 East 3rd Street  
Wilmington, De 19801

### INFILTRATION TESTING DATA SHEET

|                            |   |                |
|----------------------------|---|----------------|
| Project Name:              | Sussex County Inland Bays Wastewater Treatment and Disposal Facility - Infiltration Testing | Date: 11/10/16 |
| Project No. :              | 16014-Y   | Test By: JPC   |
| Test Hole No. :            | TP - 2A - Mt Joy  |                |
| Est. Ground Surface Elev.: | _____ ft.   |                |
| Approximate Test Elev.:    | _____ ft.   |                |
| Test Depth:                | 3.4 ft.   |                |
| Test Type:                 | Constant Head      Double-Ring      ASTM D 3385   |                |

| Test Details      |              |                 | Test Surfaces          |         | Test Saturation            |  |   |
|-------------------|--------------|-----------------|------------------------|---------|----------------------------|--|---|
| Ring ID           | Dia. (in.)   | Head Vol. (gal) | In. Ring :             | sq. in. | Begin Saturation Time:     |  |   |
| Inner Ring:       | Ei      12   | 2.4             | Out. Ring:             | 111     | 11:50                      |  |   |
| Outer Ring :      | Eo      24   | 7.5             | Total :                | 346     | End Saturation Time:       | 12:30                                    |   |
| Test Head (in.):  | 5            |                 |                        | 457     | Approx. Saturation Volume: |  |   |
| Inner Ring Res.:  |              |                 | Res. X-Sectional Area* |         | In. Ring Fill:             | 2.8 gal      Sat <sub>fill</sub> 0.4 gal |   |
|                   | Res1      12 | in.             | Res1                   | 113     | sq. in.                    | Outer Ring Fill:                         | 15.8 gal      Sat <sub>fill</sub> 8.3 gal |
| Outer Ring Res. : |              |                 | Res2                   | 113     | sq. in.                    | Res1 Feed (min) (drop):                  | 40      0.82 feet =      4.8 gal          |
|                   | Res2      12 | in.             |                        |         |                            | Res2 Feed (min) (drop):                  | 40      0.48 feet =      2.8 gal          |
|                   |              |                 |                        |         |                            | <b>Total = 16.4 gal</b>                  |   |

|                            |  |   |
|----------------------------|--|---|
| <b>Conversions:</b>        | Inner Reservoir Volume:                  | Outer Reservoir Volume:   |
| 1 foot of Reservoir Res1 = | 1356 cubic inches of water = 5.9 gallons | 1 foot of Reservoir Res2 = 1356 cubic inches of water 5.9 gallons |
| 1 gallon =                 | 231 cubic inches of water                |   |

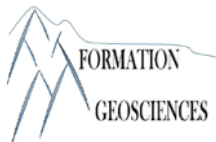
| Test Period  | Initial Res. Head Measurements (feet) |       | Time of Measurement<br>(mm/dd/yyyy<br>24 hrs) | Elapsed time<br>(min) | Dt<br>(min) | Res. Head Measurements (feet) |       | Reservoir Drop in Head (feet) |       | Water Temp. (°F)<br><br>(°F) | Field Measured Infiltration Rate<br>(inches per hour) |            |             |
|--|---------------------------------------|-------|---|-----------------------|-------------|-------------------------------|-------|-------------------------------|-------|------------------------------|---|------------|-------------|
|  | Inner                                 | Outer |   |                       |             | Inner                         | Outer | Inner                         | Outer |                              | Inner Ring (Kv)                                       | Outer Ring | Single Ring |
| Start Analysis   | 3.54                                  | 4.06  | 11/4/16 12:30                                 | 0                     | --          | 3.54                          | 4.06  | 0.00                          | 0.00  | 59                           | --  | --         | --          |
|  |                                       |       | 11/4/16 12:36                                 | 6                     | 6           | 3.41                          | 3.65  | 0.13                          | 0.41  | 59                           | 16.4  | 16.1       | 16.2        |
|  |                                       |       | 11/4/16 12:42                                 | 12                    | 6           | 3.28                          | 3.23  | 0.13                          | 0.41  | 59                           | 15.5  | 16.2       | 16.0        |
|  |                                       |       | 11/4/16 12:48                                 | 18                    | 6           | 3.15                          | 2.81  | 0.13                          | 0.42  | 59                           | 15.8  | 16.5       | 16.3        |
|  |                                       |       | 11/4/16 12:54                                 | 24                    | 6           | 3.03                          | 2.40  | 0.12                          | 0.41  | 59                           | 15.0  | 16.0       | 15.8        |
|  |                                       |       | 11/4/16 13:00                                 | 30                    | 6           | 2.90                          | 2.02  | 0.13                          | 0.39  | 59                           | 15.7  | 15.2       | 15.3        |
|  |                                       |       | 11/4/16 13:06                                 | 36                    | 6           | 2.78                          | 1.60  | 0.12                          | 0.42  | 59                           | 14.6  | 16.5       | 16.0        |
|  |                                       |       | 11/4/16 13:12                                 | 42                    | 6           | 2.67                          | 1.19  | 0.12                          | 0.41  | 59                           | 14.2  | 16.1       | 15.6        |
|  |                                       |       | 11/4/16 13:18                                 | 48                    | 6           | 2.54                          | 0.78  | 0.13                          | 0.40  | 59                           | 15.4  | 15.8       | 15.7        |
| End Analysis   |                                       |       | 11/4/16 13:24                                 | 54                    | 6           | 2.42                          | 0.37  | 0.12                          | 0.41  | 59                           | 14.7  | 16.0       | 15.7        |
| <b>Duration of Testing (hours)</b>   |                                       |       |   | 1.6                   |             |                               |       | 70                            |       |                              |   |            |             |
| <b>Est. Volume of Water Infiltrated during Analysis Period (gallons)</b>               |                                       |       |   |                       |             |                               |       |                               |       |                              |   |            |             |
| <b>Est. Volume of Water Infiltrated during Test Sat. and Analysis Period (gallons)</b> |                                       |       |   |                       |             |                               |       | 86                            |       |                              | 15.3  | 16.0       | 15.9        |
| <b>Average Field Measured Infiltration Rate (inches per hour)</b>                      |                                       |       |   |                       |             |                               |       |                               |       |                              |   |            |             |
| <b>Minimum Field Measured Infiltration Rate (inches per hour)</b>                      |                                       |       |   |                       |             |                               |       |                               |       |                              | 14.2  | 15.2       | 15.3        |

**Notes:**

1. Infiltration test performed at test pit location TP - 2A - Mt Joy at approximately 3.4 feet below existing ground surface.
2. Constant Head, Double-Ring infiltration test performed in general accordance with ASTM D 3385.
3. Reservoir water level readings recorded on a 1 minute frequency using water level data loggers. Data collected rounded to the nearest 0.01 feet.
4. Average field measured infiltration rate based on near steady state conditions determined from data collected.
5. Testing performed in a very loose density Loamy Sand to Sand soil horizon encountered within the test excavation at the noted test depth.
6. Testing performed for Accent Environmental, L.L.C. (AE). Locations, elevations and descriptive log of the test excavation's soil profile were estimated by AE.







620 East 3rd Street  
Wilmington, De 19801

### INFILTRATION TESTING DATA SHEET

|                            |   |          |         |
|----------------------------|---|----------|---------|
| Project Name:              | Sussex County Inland Bays Wastewater Treatment and Disposal Facility - Infiltration Testing | Date:    | 11/7/16 |
| Project No.:               | 16014-Y   | Test By: | JPC     |
| Test Hole No.:             | TP 1C Plant   |          |         |
| Est. Ground Surface Elev.: | _____ ft.   |          |         |
| Approximate Test Elev.:    | _____ ft.   |          |         |
| Test Depth:                | 4.2 ft.   |          |         |
| Test Type:                 | Constant Head Double-Ring ASTM D 3385   |          |         |

| Test Details                 |             |                |                      | Test Surfaces          |             | Test Saturation            |  |                                      |  |
|------------------------------|-------------|----------------|----------------------|------------------------|-------------|----------------------------|--|--------------------------------------|--|
| Inner Ring:                  | Ring ID: Ei | Dia. (in.): 12 | Head Vol. (gal): 2.2 | In. Ring:              | 111 sq. in. | Begin Saturation Time:     |  | 13:31                                |  |
| Outer Ring:                  | Eo          | 24             | 6.7                  | Out. Ring:             | 346 sq. in. | End Saturation Time:       |  | 14:00                                |  |
| Test Head (in.):             | 5           |                |                      | Total:                 | 457 sq. in. | Approx. Saturation Volume: |  |                                      |  |
| Inner Ring Res.: Res1 12 in. |             |                |                      | Res. X-Sectional Area: |             | In. Ring Fill:             |  | 2.2 gal Sat <sub>fill</sub> 0.0 gal  |  |
| Outer Ring Res.: Res2 12 in. |             |                |                      | Res1 113 sq. in.       |             | Outer Ring Fill:           |  | 14.2 gal Sat <sub>fill</sub> 7.4 gal |  |
|                              |             |                |                      | Res2 113 sq. in.       |             | Res1 Feed (min) (drop):    |  | 29 1.15 feet = 6.8 gal               |  |
|                              |             |                |                      |                        |             | Res2 Feed (min) (drop):    |  | 29 0.40 feet = 2.3 gal               |  |
|                              |             |                |                      |                        |             | <b>Total = 16.5 gal</b>    |  |                                      |  |

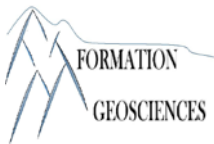
|                            |  |   |
|----------------------------|--|---|
| <b>Conversions:</b>        | Inner Reservoir Volume:                  | Outer Reservoir Volume:   |
| 1 foot of Reservoir Res1 = | 1356 cubic inches of water = 5.9 gallons | 1 foot of Reservoir Res2 = 1356 cubic inches of water 5.9 gallons |
| 1 gallon =                 | 231 cubic inches of water                |   |

| Test Period      | Initial Res. Head Measurements (feet) |       | Time of Measurement<br>(mm/dd/yyyy<br>24 hrs) | Elapsed time<br>(min) | Dt<br>(min) | Res. Head Measurements (feet) |       | Reservoir Drop in Head (feet) |       | Water Temp. (°F)<br><br>(°F) | Field Measured Infiltration Rate<br>(inches per hour) |            |             |
|------------------|---------------------------------------|-------|---|-----------------------|-------------|-------------------------------|-------|-------------------------------|-------|------------------------------|---|------------|-------------|
|                  | Inner                                 | Outer |   |                       |             | Inner                         | Outer | Inner                         | Outer |                              | Inner Ring (Kv)                                       | Outer Ring | Single Ring |
| Start Analysis   | 3.54                                  | 2.35  | 11/3/16 14:00                                 | 0                     | --          | 3.54                          | 2.35  | 0.00                          | 0.00  | 60                           | --  | --         | --          |
|                  |                                       |       | 11/3/16 14:06                                 | 6                     | 6           | 3.14                          | 1.56  | 0.40                          | 0.79  | 60                           | 48.4  | 31.1       | 35.3        |
| Refill Reservoir | 4.15                                  | 3.70  | 11/3/16 14:18                                 | 18                    | 12          | 4.15                          | 3.70  | 0.00                          | 0.00  | 61                           | --  | --         | --          |
|                  |                                       |       | 11/3/16 14:24                                 | 24                    | 6           | 3.76                          | 2.95  | 0.39                          | 0.75  | 61                           | 47.8  | 29.5       | 33.9        |
|                  |                                       |       | 11/3/16 14:30                                 | 30                    | 6           | 3.37                          | 2.20  | 0.39                          | 0.75  | 61                           | 48.0  | 29.4       | 33.9        |
|                  |                                       |       | 11/3/16 14:36                                 | 36                    | 6           | 3.00                          | 1.46  | 0.37                          | 0.74  | 61                           | 45.3  | 29.0       | 32.9        |
|                  |                                       |       | 11/3/16 14:42                                 | 42                    | 6           | 2.64                          | 0.74  | 0.36                          | 0.72  | 61                           | 43.9  | 28.3       | 32.1        |
| Refill Reservoir |                                       | 2.87  | 11/3/16 14:48                                 | 48                    | 6           | 2.28                          | 2.87  | 0.36                          | 0.00  | 61                           | 43.6  | --         | --          |
| Refill Reservoir | 4.38                                  | 3.95  | 11/3/16 14:54                                 | 54                    | 6           | 4.38                          | 3.95  | 0.00                          | 0.00  | 61                           | --  | --         | --          |
| Refill Reservoir | 3.97                                  | 3.23  | 11/3/16 15:00                                 | 60                    | 6           | 3.97                          | 3.23  | 0.00                          | 0.00  | 61                           | --  | --         | --          |
| Refill Reservoir | 3.60                                  | 4.54  | 11/3/16 15:06                                 | 66                    | 6           | 3.60                          | 4.54  | 0.00                          | 0.00  | 61                           | --  | --         | --          |
| Refill Reservoir | 3.23                                  |       | 11/3/16 15:12                                 | 72                    | 6           | 3.23                          | 3.83  | 0.00                          | 0.71  | 61                           | --  | 27.9       | --          |
|                  |                                       |       | 11/3/16 15:18                                 | 78                    | 6           | 2.87                          | 3.13  | 0.36                          | 0.70  | 61                           | 43.8  | 27.4       | 31.4        |
|                  |                                       |       | 11/3/16 15:24                                 | 84                    | 6           | 2.52                          | 2.42  | 0.35                          | 0.71  | 61                           | 42.6  | 27.9       | 31.5        |
|                  |                                       |       | 11/3/16 15:30                                 | 90                    | 6           | 2.19                          | 1.72  | 0.33                          | 0.70  | 61                           | 40.9  | 27.5       | 30.7        |
|                  |                                       |       | 11/3/16 15:36                                 | 96                    | 6           | 1.86                          | 1.03  | 0.32                          | 0.69  | 61                           | 39.6  | 27.2       | 30.2        |
| Refill Reservoir | 2.74                                  | 4.59  | 11/3/16 15:42                                 | 102                   | 6           | 2.74                          | 4.59  | 0.00                          | 0.00  | 61                           | --  | --         | --          |
| Refill Reservoir | 3.82                                  |       | 11/3/16 15:48                                 | 108                   | 6           | 3.82                          | 3.89  | 0.00                          | 0.70  | 61                           | --  | 27.3       | --          |
| Refill Reservoir | 3.45                                  |       | 11/3/16 15:54                                 | 114                   | 6           | 3.45                          | 3.19  | 0.00                          | 0.70  | 61                           | --  | 27.2       | --          |
|                  |                                       |       | 11/3/16 16:00                                 | 120                   | 6           | 3.11                          | 2.51  | 0.34                          | 0.68  | 61                           | 41.8  | 26.8       | 30.4        |
| Refill Reservoir |                                       | 2.17  | 11/3/16 16:06                                 | 126                   | 6           | 2.77                          | 2.17  | 0.34                          | 0.00  | 61                           | 42.0  | --         | --          |
| Refill Reservoir | 3.88                                  | 3.82  | 11/3/16 16:16                                 | 136                   | 10          | 3.88                          | 3.82  | 0.00                          | 0.00  | 61                           | --  | --         | --          |
| Refill Reservoir | 3.28                                  |       | 11/3/16 16:26                                 | 146                   | 10          | 3.28                          | 2.69  | 0.00                          | 1.13  | 61                           | --  | 26.6       | --          |
|                  |                                       |       | 11/3/16 16:36                                 | 156                   | 10          | 2.71                          | 1.57  | 0.57                          | 1.12  | 61                           | 41.9  | 26.4       | 30.1        |
| End Analysis     |                                       |       | 11/3/16 16:46                                 | 166                   | 10          | 2.16                          | 0.46  | 0.55                          | 1.11  | 61                           | 40.0  | 26.0       | 29.4        |

|   |     |     |      |      |
|---|-----|-----|------|------|
| Duration of Testing (hours)   | 1.5 |     |      |      |
| Est. Volume of Water Infiltrated during Analysis Period (gallons)               |     | 250 |      |      |
| Est. Volume of Water Infiltrated during Test Sat. and Analysis Period (gallons) |     | 267 | 41.4 | 26.6 |
| Average Field Measured Infiltration Rate (inches per hour)                      |     |     |      | 30.0 |
| Minimum Field Measured Infiltration Rate (inches per hour)                      |     |     | 39.6 | 29.4 |

**Notes:**

1. Infiltration test performed at test pit location TP - 1B - Plant at approximately 4.2 feet below existing ground surface.
2. Constant Head, Double-Ring infiltration test performed in general accordance with ASTM D 3385.
3. Reservoir water level readings recorded on a 1 minute frequency using water level data loggers. Data collected rounded to the nearest 0.01 feet.
4. Average field measured infiltration rate based on near steady state conditions determined from last hour of data collected.
5. Testing performed in a very loose density Loamy Sand to Sand soil horizon encountered within the test excavation at the noted test depth.
6. Testing performed for Accent Environmental, L.L.C. (AE). Locations, elevations and descriptive log of the test excavation's soil profile were estimated by AE.



620 East 3rd Street  
Wilmington, De 19801

### INFILTRATION TESTING DATA SHEET

|                            |   |                |
|----------------------------|---|----------------|
| Project Name:              | Sussex County Inland Bays Wastewater Treatment and Disposal Facility - Infiltration Testing | Date: 11/10/16 |
| Project No.:               | 16014-Y   | Test By: JPC   |
| Test Hole No.:             | TP 2C - Plant   |                |
| Est. Ground Surface Elev.: | _____ ft.   |                |
| Approximate Test Elev.:    | _____ ft.   |                |
| Test Depth:                | 4.3 ft.   |                |
| Test Type:                 | Constant Head Double-Ring ASTM D 3385   |                |

| Test Details      |            |                 |     | Test Surfaces                 |         | Test Saturation              |                         |                     |                     |         |          |
|-------------------|------------|-----------------|-----|-------------------------------|---------|------------------------------|-------------------------|---------------------|---------------------|---------|----------|
| Ring ID           | Dia. (in.) | Head Vol. (gal) |     | In. Ring :                    | sq. in. |                              |                         |                     |                     |         |          |
| Inner Ring: Ai    | 12         | 2.4             |     | Out. Ring:                    | 344     | Begin Saturation Time: 13:45 |                         |                     |                     |         |          |
| Outer Ring: Ao    | 24         | 7.4             |     | Total :                       | 455     | End Saturation Time: 14:30   |                         |                     |                     |         |          |
| Test Head (in.):  | 5          |                 |     |                               |         | Approx. Saturation Volume:   |                         |                     |                     |         |          |
|                   |            |                 |     | <b>Res. X-Sectional Area*</b> |         | In. Ring Fill:               | 5.1 gal                 | Sat <sub>fill</sub> | 2.7 gal             |         |          |
| Inner Ring Res.:  | Res1       | 12              | in. | Res1                          | 113     | sq. in.                      | Outer Ring Fill:        | 12.6 gal            | Sat <sub>fill</sub> | 5.2 gal |          |
| Outer Ring Res. : | Res2       | 12              | in. | Res2                          | 113     | sq. in.                      | Res1 Feed (min) (drop): | 45                  | 1.28                | feet =  | 7.5 gal  |
|                   |            |                 |     |                               |         |                              | Res2 Feed (min) (drop): | 45                  | 2.38                | feet =  | 14.0 gal |
|                   |            |                 |     |                               |         |                              | <b>Total =</b>          |                     | <b>29.4 gal</b>     |         |          |

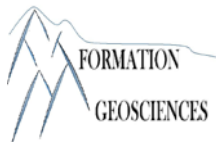
|                            |  |   |
|----------------------------|--|---|
| <b>Conversions:</b>        | Inner Reservoir Volume:                  | Outer Reservoir Volume:   |
| 1 foot of Reservoir Res1 = | 1356 cubic inches of water = 5.9 gallons | 1 foot of Reservoir Res2 = 1356 cubic inches of water 5.9 gallons |
| 1 gallon =                 | 231 cubic inches of water                |   |

| Test Period      | Initial Res. Head Measurements (feet) |       | Time of Measurement<br>(mm/dd/yyyy<br>24 hrs) | Elapsed time<br>(min) | Dt<br>(min) | Res. Head Measurements (feet) |       | Reservoir Drop in Head (feet) |       | Water Temp. (°F)<br><br>(°F) | Field Measured Infiltration Rate<br>(inches per hour) |            |             |
|------------------|---------------------------------------|-------|---|-----------------------|-------------|-------------------------------|-------|-------------------------------|-------|------------------------------|---|------------|-------------|
|                  | Inner                                 | Outer |   |                       |             | Inner                         | Outer | Inner                         | Outer |                              | Inner Ring (Kv)                                       | Outer Ring | Single Ring |
| Start Analysis   | 2.86                                  | 2.31  | 11/3/16 14:30                                 | 0                     | --          | 2.86                          | 2.31  | 0.00                          | 0.00  | 63                           | --  | --         | --          |
|                  |                                       |       | 11/3/16 14:36                                 | 6                     | 6           | 2.58                          | 1.39  | 0.28                          | 0.92  | 63                           | 34.5  | 36.3       | 35.9        |
|                  |                                       |       | 11/3/16 14:41                                 | 11                    | 5           | 2.35                          | 0.62  | 0.23                          | 0.77  | 63                           | 34.2  | 36.6       | 36.0        |
| Refill Reservoir | 3.76                                  | 3.44  | 11/3/16 14:53                                 | 23                    | 12          | 3.76                          | 3.44  | 0.00                          | 0.00  | 62                           | --  | --         | --          |
|                  |                                       |       | 11/3/16 14:59                                 | 29                    | 6           | 3.48                          | 2.55  | 0.28                          | 0.90  | 62                           | 34.3  | 35.3       | 35.1        |
|                  |                                       |       | 11/3/16 15:05                                 | 35                    | 6           | 3.20                          | 1.66  | 0.28                          | 0.89  | 62                           | 33.8  | 35.0       | 34.7        |
| Refill Reservoir | 2.97                                  | 4.36  | 11/3/16 15:11                                 | 41                    | 6           | 2.97                          | 4.36  | 0.00                          | 0.00  | 62                           | --  | --         | --          |
|                  |                                       |       | 11/3/16 15:24                                 | 54                    | 13          | 2.40                          | 2.47  | 0.57                          | 1.89  | 62                           | 32.2  | 34.3       | 33.8        |
| Refill Reservoir | 4.08                                  | 4.44  | 11/3/16 15:37                                 | 67                    | 13          | 4.08                          | 4.44  | 0.00                          | 0.00  | 62                           | --  | --         | --          |
|                  |                                       |       | 11/3/16 15:51                                 | 81                    | 14          | 3.47                          | 2.45  | 0.61                          | 1.99  | 61                           | 31.9  | 33.6       | 33.2        |
|                  |                                       |       | 11/3/16 15:58                                 | 88                    | 7           | 3.17                          | 1.47  | 0.30                          | 0.98  | 61                           | 31.9  | 33.2       | 32.8        |
| Refill Reservoir | 3.85                                  | 3.64  | 11/3/16 16:13                                 | 103                   | 15          | 3.85                          | 3.64  | 0.00                          | 0.00  | 61                           | --  | --         | --          |
|                  |                                       |       | 11/3/16 16:19                                 | 109                   | 6           | 3.60                          | 2.80  | 0.26                          | 0.84  | 61                           | 31.4  | 33.0       | 32.6        |
|                  |                                       |       | 11/3/16 16:26                                 | 116                   | 7           | 3.31                          | 1.85  | 0.29                          | 0.96  | 61                           | 30.1  | 32.4       | 31.8        |
| End Analysis     |                                       |       | 11/3/16 16:36                                 | 126                   | 10          | 2.91                          | 0.51  | 0.40                          | 1.34  | 61                           | 29.1  | 31.7       | 31.1        |

|  |      |      |      |
|--|------|------|------|
| <b>Duration of Testing (hours)</b>   | 2.9  |      |      |
| <b>Est. Volume of Water Infiltrated during Analysis Period (gallons)</b>               | 240  |      |      |
| <b>Est. Volume of Water Infiltrated during Test Sat. and Analysis Period (gallons)</b> | 269  | 30.9 | 32.8 |
| <b>Average Field Measured Infiltration Rate (inches per hour)</b>                      | 31.1 |      |      |
| <b>Minimum Field Measured Infiltration Rate (inches per hour)</b>                      | 29.1 | 31.7 | 31.1 |

**Notes:**

1. Infiltration test performed at test pit location TP - 2B - Plant at approximately 4.3 feet below existing ground surface.
2. Constant Head, Double-Ring infiltration test performed in general accordance with ASTM D 3385.
3. Reservoir water level readings recorded on a 1 minute frequency using water level data loggers. Data collected rounded to the nearest 0.01 feet.
4. Average field measured infiltration rate based on near steady state conditions determined from half hour of data collected.
5. Testing performed in very loose density Loamy Sand to Sand soil horizon encountered within the test excavation at the noted test depth.
6. Testing performed for Accent Environmental, L.L.C. (AE). Locations, elevations and descriptive log of the test excavation's soil profile were estimated by AE.



620 East 3rd Street  
Wilmington, De 19801

### INFILTRATION TESTING DATA SHEET

|                         |   |          |          |
|-------------------------|---|----------|----------|
| Project Name:           | Sussex County Inland Bays Wastewater Treatment and Disposal Facility - Infiltration Testing | Date:    | 11/10/16 |
| Project No.:            | 16014-Y   | Test By: | JPC      |
| Test Hole No.:          | TP 3C Plant   |          |          |
| Est. Ground Surface:    | _____ ft.   |          |          |
| Approximate Test Elev.: | _____ ft.   |          |          |
| Test Depth:             | 4.3 ft.   |          |          |
| Test Type:              | Constant Head Double-Ring ASTM D 3385   |          |          |

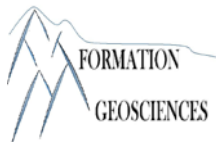
| Test Details     |               |                 | Test Surfaces          |             | Test Saturation            |                                   |
|------------------|---------------|-----------------|------------------------|-------------|----------------------------|-----------------------------------|
| Ring ID          | Dia. (in.)    | Head Vol. (gal) | In. Ring :             | sq. in.     | Begin Saturation Time:     |                                   |
| Inner Ring: Bi   | 13            | 3.1             | Out. Ring:             | 395         | 17:04                      |                                   |
| Outer Ring: Bo   | 26            | 8.6             | Total :                | 537         | End Saturation Time:       | 17:30                             |
| Test Head (in.): | 5             |                 | Res. X-Sectional Area* |             | Approx. Saturation Volume: |                                   |
| Inner Ring Res.: | Res1 12 in.   |                 | Res1                   | 113 sq. in. | In. Ring Fill:             | 8 gal Sat <sub>fill</sub> 5 gal   |
| Outer Ring Res.: | ResC 12x2 in. |                 | ResC                   | 226 sq. in. | Outer Ring Fill:           | 32 gal Sat <sub>fill</sub> 24 gal |
|                  |               |                 |                        |             | Res1 Feed (min) (drop):    | 26 1.1 feet = 7 gal               |
|                  |               |                 |                        |             | ResC Feed (min) (drop):    | 26 3.0 feet = 35 gal              |
|                  |               |                 |                        |             | <b>Total = 71 gal</b>      |                                   |

| Conversions:               | Inner Reservoir Volume:                  | Outer Reservoir Volume:  |
|----------------------------|--|--|
| 1 foot of Reservoir Res1 = | 1356 cubic inches of water = 5.9 gallons | 1 foot of Reservoir ResC = 2712 cubic inches of water 11.7 gallons |
| 1 gallon =                 | 231 cubic inches of water                |  |

| Test Period   | Initial Res. Head Measurements (feet) |       | Time of Measurement<br>(mm/dd/yyyy 24 hrs) | Elapsed time<br>(min) | Dt<br>(min) | Res. Head Measurements (feet) |       | Reservoir Drop in Head (feet) |       | Water Temp. (°F)<br><br>(°F) | Field Measured Infiltration Rate<br>(inches per hour) |            |             |
|---|---------------------------------------|-------|--|-----------------------|-------------|-------------------------------|-------|-------------------------------|-------|------------------------------|---|------------|-------------|
|   | Inner                                 | Outer |  |                       |             | Inner                         | Outer | Inner                         | Outer |                              | Inner Ring (Kv)                                       | Outer Ring | Single Ring |
| Start Analysis  | 4.13                                  | 3.99  | 11/3/16 17:40                              | 0                     | --          | 4.13                          | 3.99  | 0.00                          | 0.00  | 61                           | --  | --         | --          |
|   |                                       |       | 11/3/16 17:46                              | 6                     | 6           | 3.66                          | 3.38  | 0.47                          | 0.62  | 61                           | 44.8  | 42.2       | 42.9        |
|   |                                       |       | 11/3/16 17:52                              | 12                    | 6           | 3.18                          | 2.78  | 0.48                          | 0.60  | 61                           | 45.6  | 41.2       | 42.4        |
|   |                                       |       | 11/3/16 18:04                              | 24                    | 12          | 2.27                          | 1.56  | 0.91                          | 1.22  | 61                           | 43.4  | 41.7       | 42.1        |
| Refill Reservoir  | 4.44                                  | 4.49  | 11/3/16 18:16                              | 36                    | --          | 4.44                          | 4.49  | 0.00                          | 0.00  | 61                           | --  | --         | --          |
|   |                                       |       | 11/3/16 18:36                              | 56                    | 20          | 3.00                          | 2.54  | 1.44                          | 1.95  | 61                           | 41.3  | 40.1       | 40.4        |
|   |                                       |       | 11/3/16 18:42                              | 62                    | 6           | 2.59                          | 1.96  | 0.41                          | 0.58  | 61                           | 39.4  | 39.5       | 39.5        |
|   |                                       |       | 11/3/16 18:48                              | 68                    | 6           | 2.17                          | 1.39  | 0.42                          | 0.57  | 61                           | 40.0  | 39.1       | 39.3        |
|   |                                       |       | 11/3/16 18:54                              | 74                    | 6           | 1.76                          | 0.82  | 0.42                          | 0.57  | 61                           | 39.7  | 39.3       | 39.4        |
| End Analysis  |                                       |       | 11/3/16 19:00                              | 80                    | 6           | 1.35                          | 0.26  | 0.41                          | 0.56  | 61                           | 39.0  | 38.5       | 38.6        |
| Duration of Testing (hours)   |                                       |       |  | 1.8                   |             |                               |       | 225                           |       |                              |   |            |             |
| Est. Volume of Water Infiltrated during Analysis Period (gallons)               |                                       |       |  |                       |             |                               |       |                               |       |                              |   |            |             |
| Est. Volume of Water Infiltrated during Test Sat. and Analysis Period (gallons) |                                       |       |  |                       |             |                               |       | 296                           |       |                              | 39.6  | 39.0       | 39.1        |
| Average Field Measured Infiltration Rate (inches per hour)                      |                                       |       |  |                       |             |                               |       |                               |       |                              |   |            |             |
| Minimum Field Measured Infiltration Rate (inches per hour)                      |                                       |       |  |                       |             |                               |       |                               |       |                              | 39.0  | 38.5       | 38.6        |

**Notes:**

1. Infiltration test performed at test pit location TP- 3B - Plant at approximately 4.3 feet below existing ground surface.
2. Constant Head, Double-Ring infiltration test performed in general accordance with ASTM D 3385.
3. Reservoir water level readings recorded on a 1 minute frequency using water level data loggers. Data collected rounded to the nearest 0.01 feet.
4. Average field measured infiltration rate based on near steady state conditions determined from last four analysis intervals of data collected.
5. Testing performed in a very loose density Loamy Sand to Sand soil horizon encountered within the test excavation at the noted test depth.
6. Testing performed for Accent Environmental, L.L.C. (AE). Locations, elevations and descriptive log of the test excavation's soil profile were estimated by AE.



620 East 3rd Street  
Wilmington, De 19801

### INFILTRATION TESTING DATA SHEET

|                         |   |                |
|-------------------------|---|----------------|
| Project Name:           | Sussex County Inland Bays Wastewater Treatment and Disposal Facility - Infiltration Testing | Date: 11/10/16 |
| Project No.:            | 16014-Y   | Test By: JPC   |
| Test Hole No.:          | TP 1B Lawson  |                |
| Est. Ground Surf:       | ft.   |                |
| Approximate Test Elev.: | ft.   |                |
| Test Depth:             | 2.5 ft.   |                |
| Test Type:              | Constant Head Double-Ring ASTM D 3385   |                |

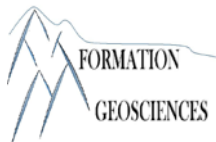
| Test Details     |             |                | Test Surfaces         |             | Test Saturation             |                                      |
|------------------|-------------|----------------|-----------------------|-------------|-----------------------------|--------------------------------------|
| Inner Ring:      | Ring ID: Ai | Dia. (in.): 12 | Head Vol. (gal): 2.9  | In. Ring:   | 111 sq. in.                 |                                      |
| Outer Ring:      | Ao          | 24             | 8.9                   | Out. Ring:  | 344 sq. in.                 |                                      |
| Test Head (in.): | 6           |                |                       | Total:      | 455 sq. in.                 |                                      |
| Inner Ring Res.: |             |                | Res. X-Sectional Area |             | Begin Saturation Time: 8:24 |                                      |
| Res1             | 12          | in.            | Res1                  | 113 sq. in. |                             | End Saturation Time: 9:30            |
| Outer Ring Res.: |             |                | Res2                  | 113 sq. in. |                             | Approx. Saturation Volume:           |
| Res2             | 12          | in.            |                       |             | In. Ring Fill:              | 4.4 gal Sat <sub>fill</sub> 1.5 gal  |
|                  |             |                |                       |             | Outer Ring Fill:            | 11.8 gal Sat <sub>fill</sub> 2.9 gal |
|                  |             |                |                       |             | Res1 Feed (min) (drop):     | 66 0.39 feet = 2.3 gal               |
|                  |             |                |                       |             | Res2 Feed (min) (drop):     | 66 0.82 feet = 4.8 gal               |
|                  |             |                |                       |             | Total = 11.5 gal            |                                      |

| Conversions:               |                            | Inner Reservoir Volume: | Outer Reservoir Volume: |
|----------------------------|----------------------------|-------------------------|-------------------------|
| 1 foot of Reservoir Res1 = | 1356 cubic inches of water | =                       | 5.9 gallons             |
| 1 gallon =                 | 231 cubic inches of water  |                         |                         |
| 1 foot of Reservoir Res2 = | 1356 cubic inches of water | =                       | 5.9 gallons             |

| Test Period      | Initial Res. Head Measurements (feet) |       | Time of Measurement<br>(mm/dd/yyyy<br>24 hrs) | Elapsed time<br>(min) | Dt<br>(min) | Res. Head Measurements (feet) |       | Reservoir Drop in Head (feet) |       | Water Temp. (°F)<br><br>(°F) | Field Measured Infiltration Rate<br>(inches per hour) |            |             |
|------------------|---------------------------------------|-------|---|-----------------------|-------------|-------------------------------|-------|-------------------------------|-------|------------------------------|---|------------|-------------|
|                  | Inner                                 | Outer |   |                       |             | Inner                         | Outer | Inner                         | Outer |                              | Inner Ring  | Outer Ring | Single Ring |
| Start Analysis   | 3.97                                  | 3.81  | 11/8/16 9:30                                  | 0                     | --          | 3.97                          | 3.81  | 0.00                          | 0.00  | 40                           | --  | --         | --          |
| Refill Reservoir |                                       |       | 11/8/16 9:45                                  | 15                    | 15          | 3.83                          | 3.22  | 0.13                          | 0.59  | 40                           | 6.6   | 9.3        | 8.6         |
|                  |                                       |       | 11/8/16 10:00                                 | 30                    | --          | 4.75                          | 4.67  | 0.00                          | 0.00  | 40                           | --  | --         | --          |
|                  |                                       |       | 11/8/16 10:10                                 | 40                    | 10          | 4.66                          | 4.30  | 0.09                          | 0.37  | 40                           | 6.5   | 8.7        | 8.2         |
|                  |                                       |       | 11/8/16 10:20                                 | 50                    | 10          | 4.58                          | 3.93  | 0.09                          | 0.37  | 41                           | 6.4   | 8.7        | 8.1         |
|                  |                                       |       | 11/8/16 10:30                                 | 60                    | 10          | 4.48                          | 3.57  | 0.10                          | 0.36  | 41                           | 7.1   | 8.4        | 8.1         |
|                  |                                       |       | 11/8/16 10:40                                 | 70                    | 10          | 4.39                          | 3.21  | 0.09                          | 0.36  | 41                           | 6.9   | 8.6        | 8.2         |
|                  |                                       |       | 11/8/16 10:50                                 | 80                    | 10          | 4.29                          | 2.86  | 0.10                          | 0.35  | 41                           | 7.1   | 8.3        | 8.0         |
|                  |                                       |       | 11/8/16 11:00                                 | 90                    | 10          | 4.20                          | 2.51  | 0.09                          | 0.36  | 41                           | 6.3   | 8.4        | 7.9         |
|                  |                                       |       | 11/8/16 11:10                                 | 100                   | 10          | 4.11                          | 2.15  | 0.09                          | 0.35  | 42                           | 6.7   | 8.3        | 7.9         |
|                  |                                       |       | 11/8/16 11:20                                 | 110                   | 10          | 4.02                          | 1.81  | 0.09                          | 0.35  | 42                           | 6.8   | 8.2        | 7.8         |
| End Analysis     |                                       |       | 11/8/16 11:30                                 | 120                   | 10          | 3.92                          | 1.47  | 0.10                          | 0.34  | 42                           | 7.3   | 8.1        | 7.9         |
|                  |                                       |       | 11/8/16 11:40                                 | 130                   | 10          | 3.81                          | 1.14  | 0.10                          | 0.33  | 42                           | 7.6   | 7.7        | 7.7         |
|                  |                                       |       | 11/8/16 11:53                                 | 143                   | 13          | 3.68                          | 0.73  | 0.13                          | 0.41  | 43                           | 7.4   | 7.4        | 7.4         |

|   |     |     |     |
|---|-----|-----|-----|
| Duration of Testing (hours)   | 3.5 |     |     |
| Est. Volume of Water Infiltrated during Analysis Period (gallons)               | 34  |     |     |
| Est. Volume of Water Infiltrated during Test Sat. and Analysis Period (gallons) | 45  | 7.4 | 7.4 |
| Average Field Measured Infiltration Rate (inches per hour)                      |     | 7.4 | 7.4 |
| Minimum Field Measured Infiltration Rate (inches per hour)                      |     | 6.3 | 7.4 |

- Notes:**
1. Infiltration test performed at test pit location TP- 1C - Lawson at approximately 2.5 feet below existing ground surface.
  2. Constant Head, Double-Ring infiltration test performed in general accordance with ASTM D 3385.
  3. Reservoir water level readings recorded on a 1 minute frequency using water level data loggers. Data collected rounded to the nearest 0.01 feet.
  4. Average field measured infiltration rate based on near steady state conditions determined from last reading of data collected.
  5. Testing performed in a loose density Sandy Loam to Loamy Sand soil horizon encountered within the test excavation at the noted test depth.
  6. Testing performed for Accent Environmental, L.L.C. (AE). Locations, elevations and descriptive log of the test excavation's soil profile were estimated by AE.



620 East 3rd Street  
Wilmington, De 19801

### INFILTRATION TESTING DATA SHEET

|                         |   |                |
|-------------------------|---|----------------|
| Project Name:           | Sussex County Inland Bays Wastewater Treatment and Disposal Facility - Infiltration Testing | Date: 11/10/16 |
| Project No.:            | 16014-Y   | Test By: JPC   |
| Test Hole No.:          | TP 2B Lawson  |                |
| Est. Ground Surf.:      | _____ ft.   |                |
| Approximate Test Elev.: | _____ ft.   |                |
| Test Depth:             | 3.4 ft.   |                |
| Test Type:              | Constant Head Double-Ring ASTM D 3385   |                |

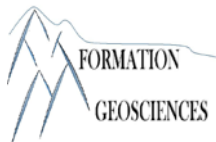
| Test Details                 |             |                | Test Surfaces          |            | Test Saturation             |                                      |
|------------------------------|-------------|----------------|------------------------|------------|-----------------------------|--------------------------------------|
| Inner Ring:                  | Ring ID: Bi | Dia. (in.): 13 | Head Vol. (gal): 3.7   | In. Ring:  | 142 sq. in.                 |                                      |
| Outer Ring:                  | Bo          | 26             | 10.3                   | Out. Ring: | 395 sq. in.                 |                                      |
| Test Head (in.):             | 6           |                |                        | Total:     | 537 sq. in.                 |                                      |
| Inner Ring Res.: Res1 12 in. |             |                | Res. X-Sectional Area: |            | Begin Saturation Time: 8:28 |                                      |
| Outer Ring Res.: Res2 12 in. |             |                | Res1 113 sq. in.       |            | End Saturation Time: 9:30   |                                      |
|                              |             |                | Res2 113 sq. in.       |            | Approx. Saturation Volume:  |                                      |
|                              |             |                |                        |            | In. Ring Fill:              | 5.0 gal Sat <sub>fill</sub> 1.3 gal  |
|                              |             |                |                        |            | Outer Ring Fill:            | 13.0 gal Sat <sub>fill</sub> 2.7 gal |
|                              |             |                |                        |            | Res1 Feed (min) (drop):     | 62 0.50 feet = 2.9 gal               |
|                              |             |                |                        |            | Res2 Feed (min) (drop):     | 62 1.34 feet = 7.8 gal               |
|                              |             |                |                        |            | <b>Total = 14.8 gal</b>     |                                      |

|                            |  |   |
|----------------------------|--|---|
| <b>Conversions:</b>        | Inner Reservoir Volume:                  | Outer Reservoir Volume:   |
| 1 foot of Reservoir Res1 = | 1356 cubic inches of water = 5.9 gallons | 1 foot of Reservoir Res2 = 1356 cubic inches of water 5.9 gallons |
| 1 gallon =                 | 231 cubic inches of water                |   |

| Test Period  | Initial Res. Head Measurements (feet) |       | Time of Measurement<br>(mm/dd/yyyy<br>24 hrs) | Elapsed time<br>(min) | Dt<br>(min) | Res. Head Measurements (feet) |       | Reservoir Drop in Head (feet) |       | Water Temp. (°F)<br><br>(°F) | Field Measured Infiltration Rate<br>(inches per hour) |             |             |  |
|--|---------------------------------------|-------|---|-----------------------|-------------|-------------------------------|-------|-------------------------------|-------|------------------------------|---|-------------|-------------|--|
|  | Inner                                 | Outer |   |                       |             | Inner                         | Outer | Inner                         | Outer |                              | Inner Ring  | Outer Ring  | Single Ring |  |
| Start Analysis   | 4.09                                  | 4.01  | 11/8/16 9:30                                  | 0                     | --          | 4.09                          | 3.47  | 0.00                          | 0.54  | 52                           | --  | --          | --          |  |
| Refill Reservoir   | 4.46                                  | 4.52  | 11/8/16 9:45                                  | 15                    | 15          | 3.92                          | 3.00  | 0.17                          | 0.47  | 52                           | 6.6   | 6.4         | 6.4         |  |
|  |                                       |       | 11/8/16 10:00                                 | 30                    | --          | 4.46                          | 4.52  | 0.00                          | 0.00  | 52                           | --  | --          | --          |  |
|  |                                       |       | 11/8/16 10:15                                 | 45                    | 15          | 4.28                          | 4.05  | 0.18                          | 0.47  | 51                           | 6.8   | 6.4         | 6.5         |  |
|  |                                       |       | 11/8/16 10:30                                 | 60                    | 15          | 4.10                          | 3.59  | 0.18                          | 0.46  | 51                           | 6.7   | 6.3         | 6.4         |  |
|  |                                       |       | 11/8/16 10:45                                 | 75                    | 15          | 3.92                          | 3.14  | 0.18                          | 0.46  | 51                           | 6.8   | 6.3         | 6.4         |  |
|  |                                       |       | 11/8/16 11:00                                 | 90                    | 15          | 3.75                          | 2.66  | 0.17                          | 0.48  | 51                           | 6.6   | 6.5         | 6.5         |  |
|  |                                       |       | 11/8/16 11:15                                 | 105                   | 15          | 3.57                          | 2.20  | 0.18                          | 0.46  | 51                           | 6.8   | 6.4         | 6.5         |  |
|  |                                       |       | 11/8/16 11:30                                 | 120                   | 15          | 3.39                          | 1.74  | 0.18                          | 0.46  | 51                           | 7.0   | 6.3         | 6.5         |  |
|  |                                       |       | 11/8/16 11:45                                 | 135                   | 15          | 3.20                          | 1.31  | 0.19                          | 0.43  | 51                           | 7.1   | 5.9         | 6.2         |  |
|  |                                       |       | 11/8/16 12:00                                 | 150                   | 15          | 3.03                          | 0.85  | 0.17                          | 0.46  | 51                           | 6.7   | 6.3         | 6.4         |  |
| End Analysis   |                                       |       | 11/8/16 12:15                                 | 165                   | 15          | 2.84                          | 0.41  | 0.19                          | 0.44  | 51                           | 7.4   | 6.0         | 6.3         |  |
| <b>Duration of Testing (hours)</b>   |                                       |       |   | 3.8                   |             |                               |       |                               |       |                              |   |             |             |  |
| <b>Est. Volume of Water Infiltrated during Analysis Period (gallons)</b>               |                                       |       |   |                       |             | 41                            |       |                               |       |                              |   |             |             |  |
| <b>Est. Volume of Water Infiltrated during Test Sat. and Analysis Period (gallons)</b> |                                       |       |   |                       |             | 55                            |       |                               |       | 6.9 6.3 6.4                  |   |             |             |  |
| <b>Average Field Measured Infiltration Rate (inches per hour)</b>                      |                                       |       |   |                       |             |                               |       |                               |       |                              |   | 6.9 6.3 6.4 |             |  |
| <b>Minimum Field Measured Infiltration Rate (inches per hour)</b>                      |                                       |       |   |                       |             |                               |       |                               |       |                              |   | 6.6 5.9 6.2 |             |  |

**Notes:**

- Infiltration test performed at test pit location TP - 2C - Lawson at approximately 3.4 feet below existing ground surface.
- Constant Head, Double-Ring infiltration test performed in general accordance with ASTM D 3385.
- Reservoir water level readings recorded on a 1 minute frequency using water level data loggers. Data collected rounded to the nearest 0.01 feet.
- Average field measured infiltration rate based on near steady state conditions determined from data collected.
- Testing performed in a loose density Sandy Loam to Loamy Sand soil horizon encountered within the test excavation at the noted test depth.
- Testing performed for Accent Environmental, L.L.C. (AE). Locations, elevations and descriptive log of the test excavation's soil profile were estimated by AE.



620 East 3rd Street  
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### INFILTRATION TESTING DATA SHEET

|                            |   |                |
|----------------------------|---|----------------|
| Project Name:              | Sussex County Inland Bays Wastewater Treatment and Disposal Facility - Infiltration Testing | Date: 11/10/16 |
| Project No.:               | 16014-Y   | Test By: JPC   |
| Test Hole No.:             | TP 3B Lawson  |                |
| Est. Ground Surface Elev.: | _____ ft.   |                |
| Approximate Test Elev.:    | _____ ft.   |                |
| Test Depth:                | 2.6 ft.   |                |
| Test Type:                 | Constant Head Double-Ring ASTM D 3385   |                |

| Test Details                 |             |                | Test Surfaces          |            | Test Saturation                                       |  |
|------------------------------|-------------|----------------|------------------------|------------|---|--|
| Inner Ring:                  | Ring ID: Ei | Dia. (in.): 12 | Head Vol. (gal): 2.9   | In. Ring:  | 111 sq. in.   |  |
| Outer Ring:                  | Ring ID: Eo | Dia. (in.): 24 | Head Vol. (gal): 9.0   | Out. Ring: | 346 sq. in.   |  |
| Test Head (in.):             | 6           |                |                        | Total:     | 457 sq. in.   |  |
| Inner Ring Res.: Res1 12 in. |             |                | Res. X-Sectional Area: |            | In. Ring Fill: 6.2 gal Sat <sub>fill</sub> 3.3 gal    |  |
| Outer Ring Res.: Res2 12 in. |             |                | Res1 113 sq. in.       |            | Outer Ring Fill: 17.9 gal Sat <sub>fill</sub> 8.9 gal |  |
|                              |             |                | Res2 113 sq. in.       |            | Res1 Feed (min) (drop): 82 0.53 feet = 3.1 gal        |  |
|                              |             |                |                        |            | Res2 Feed (min) (drop): 82 1.71 feet = 10.1 gal       |  |
|                              |             |                |                        |            | <b>Total = 25.4 gal</b>                               |  |

| Conversions:               |                            | Inner Reservoir Volume:    | Outer Reservoir Volume:                |
|----------------------------|----------------------------|----------------------------|--|
| 1 foot of Reservoir Res1 = | 1356 cubic inches of water | =                          | 5.9 gallons                            |
| 1 gallon =                 | 231 cubic inches of water  |                            |  |
|                            |                            | 1 foot of Reservoir Res2 = | 1356 cubic inches of water 5.9 gallons |

| Test Period   | Initial Res. Head Measurements (feet) |       | Time of Measurement<br>(mm/dd/yyyy<br>24 hrs) | Elapsed time<br>(min) | Dt<br>(min) | Res. Head Measurements (feet) |       | Reservoir Drop in Head (feet) |       | Water Temp. (°F)<br><br>(°F) | Field Measured Infiltration Rate<br>(inches per hour) |            |             |
|---|---------------------------------------|-------|---|-----------------------|-------------|-------------------------------|-------|-------------------------------|-------|------------------------------|---|------------|-------------|
|   | Inner                                 | Outer |   |                       |             | Inner                         | Outer | Inner                         | Outer |                              | Inner Ring  | Outer Ring | Single Ring |
| Start Analysis  | 4.11                                  | 2.96  | 11/8/16 9:30                                  | 0                     | --          | 4.11                          | 2.96  | 0.00                          | 0.00  | 52                           | --  | --         | --          |
|   |                                       |       | 11/8/16 9:36                                  | 6                     | 6           | 4.03                          | 2.71  | 0.08                          | 0.25  | 52                           | 10.2  | 9.7        | 9.8         |
|   |                                       |       | 11/8/16 9:42                                  | 12                    | 6           | 3.95                          | 2.48  | 0.08                          | 0.23  | 52                           | 10.0  | 9.0        | 9.3         |
|   |                                       |       | 11/8/16 9:48                                  | 18                    | 6           | 3.87                          | 2.21  | 0.08                          | 0.26  | 52                           | 10.3  | 10.3       | 10.3        |
| Refill Reservoir  | 4.64                                  | 4.60  | 11/8/16 9:54                                  | 24                    | --          | 4.64                          | 4.60  | 0.00                          | 0.00  | 52                           | --  | --         | --          |
|   |                                       |       | 11/8/16 10:00                                 | 30                    | 6           | 4.55                          | 4.35  | 0.09                          | 0.25  | 52                           | 11.1  | 9.7        | 10.1        |
|   |                                       |       | 11/8/16 10:06                                 | 36                    | 6           | 4.47                          | 4.08  | 0.08                          | 0.27  | 52                           | 10.0  | 10.6       | 10.4        |
|   |                                       |       | 11/8/16 10:12                                 | 42                    | 6           | 4.39                          | 3.84  | 0.08                          | 0.25  | 52                           | 9.7   | 9.6        | 9.6         |
|   |                                       |       | 11/8/16 10:18                                 | 48                    | 6           | 4.31                          | 3.59  | 0.08                          | 0.25  | 52                           | 10.0  | 9.9        | 9.9         |
|   |                                       |       | 11/8/16 10:24                                 | 54                    | 6           | 4.23                          | 3.33  | 0.08                          | 0.26  | 52                           | 10.2  | 10.1       | 10.1        |
|   |                                       |       | 11/8/16 10:30                                 | 60                    | 6           | 4.14                          | 3.08  | 0.09                          | 0.24  | 52                           | 10.8  | 9.6        | 9.9         |
|   |                                       |       | 11/8/16 10:36                                 | 66                    | 6           | 4.05                          | 2.82  | 0.09                          | 0.26  | 52                           | 10.8  | 10.2       | 10.4        |
|   |                                       |       | 11/8/16 10:42                                 | 72                    | 6           | 3.97                          | 2.57  | 0.08                          | 0.25  | 52                           | 9.7   | 9.8        | 9.8         |
|   |                                       |       | 11/8/16 10:52                                 | 82                    | 10          | 3.83                          | 2.17  | 0.15                          | 0.41  | 52                           | 10.6  | 9.5        | 9.8         |
|   |                                       |       | 11/8/16 11:02                                 | 92                    | 10          | 3.68                          | 1.74  | 0.15                          | 0.43  | 52                           | 10.6  | 10.2       | 10.3        |
|   |                                       |       | 11/8/16 11:12                                 | 102                   | 10          | 3.54                          | 1.31  | 0.14                          | 0.42  | 52                           | 10.5  | 9.9        | 10.1        |
| End Analysis  |                                       |       | 11/8/16 11:22                                 | 112                   | 10          | 3.39                          | 0.89  | 0.15                          | 0.43  | 52                           | 11.2  | 10.0       | 10.3        |
| Duration of Testing (hours)   |                                       |       |   | 3.1                   |             |                               |       | 35                            |       |                              |   |            |             |
| Est. Volume of Water Infiltrated during Analysis Period (gallons)               |                                       |       |   |                       |             |                               |       |                               |       |                              |   |            |             |
| Est. Volume of Water Infiltrated during Test Sat. and Analysis Period (gallons) |                                       |       |   |                       |             |                               |       | 60                            |       |                              | 10.4  | 9.9        | 10.0        |
| Average Field Measured Infiltration Rate (inches per hour)                      |                                       |       |   |                       |             |                               |       |                               |       |                              |   |            |             |
| Minimum Field Measured Infiltration Rate (inches per hour)                      |                                       |       |   |                       |             |                               |       |                               |       |                              | 9.7   | 9.0        | 9.3         |

**Notes:**

1. Infiltration test performed at test pit location TP - 3C - Lawson at approximately 2.6 feet below existing ground surface.
2. Constant Head, Double-Ring infiltration test performed in general accordance with ASTM D 3385.
3. Reservoir water level readings recorded on a 1 minute frequency using water level data loggers. Data collected rounded to the nearest 0.01 feet.
4. Average field measured infiltration rate based on near steady state conditions determined from data collected.
5. Testing performed in a loose density Loamy Sand to Sand soil horizon encountered within the test excavation at the noted test depth.
6. Testing performed for Accent Environmental, L.L.C. (AE). Locations, elevations and descriptive log of the test excavation's soil profile were estimated by AE.