APPENDIX A: MONITORING SITE FIGURES
Figure 1 - HRSD Flow and Pressure Monitor Locations
North Shore

Legend
- Significant Locality Overflow Points
- Shallow Well Locations
- Existing Flow Monitor
- Existing Pressure Monitor
- Existing Flow and Pressure Monitor
- Existing IWD
- Planned Flow Monitor
- Planned Pressure Monitor
- Planned Flow and Pressure Monitor
- Planned IWD
- Planned Gravity Flow Monitor
- Planned Gravity Flow and Pressure Monitor
- Pump Stations
- Treatment Plants
- Force Main
- Gravity Main

Hampton Roads Sanitation District

11/12/2008
Figure 2 - HRSD Flow and Pressure Monitor Locations
South Shore

Legend
- Significant Locality Overflow Points
- Shallow Well Locations
- Existing Flow Monitor
- Existing Pressure Monitor
- Existing Flow and Pressure Monitor
- Existing IWD
- Planned Flow Monitor
- Planned Pressure Monitor
- Planned Flow and Pressure Monitor
- Planned IWD
- Planned Gravity Flow Monitor
- Planned Gravity Flow and Pressure Monitor
- Pump Stations
- Treatment Plants
- Force Main
- Gravity Main

HRSD Pressure / Flow Monitors
South Shore
11/12/2008
Figure 3 - Monitor Locations

North Shore: Grid A-2

Legend

- Significant Locality Overflow Points
- Shallow Well Locations
- Existing Flow Monitor
- Existing Pressure Monitor
- Existing Flow and Pressure Monitor
- Existing IWD
- Planned Flow Monitor
- Planned Pressure Monitor
- Planned Flow and Pressure Monitor
- Planned IWD
- Planned Gravity Flow Monitor
- Planned Gravity Flow and Pressure Monitor
- HRSD Pump Stations
- Treatment Plants
- Force Main
- Gravity Main

1 inch equals 3,500 feet
Figure 4 - Monitor Locations
North Shore: Grid A-3

Legend
- Significant Locality Overflow Points
- Shallow Well Locations
- Existing Flow Monitor
- Existing Pressure Monitor
- Existing Flow and Pressure Monitor
- Existing IWD
- Planned Flow Monitor
- Planned Pressure Monitor
- Planned Flow and Pressure Monitor
- Planned IWD
- Planned Gravity Flow Monitor
- Planned Gravity Flow and Pressure Monitor
- HRSD Pump Stations
- Treatment Plants
- Force Main
- Gravity Main

1 inch equals 3,500 feet

11/12/2008
Figure 5 - Monitor Locations
North Shore: Grid A-5

Legend
- Significant Locality Overflow Points
- Shallow Well Locations
- Existing Flow Monitor
- Existing Pressure Monitor
- Existing Flow and Pressure Monitor
- Existing IWD
- Planned Flow Monitor
- Planned Pressure Monitor
- Planned Flow and Pressure Monitor
- Planned IWD
- Planned Gravity Flow Monitor
- Planned Gravity Flow and Pressure Monitor
- HRSD Pump Stations
- Treatment Plants
- Force Main
- Gravity Main

1 inch equals 3,500 feet
Figure 6 - Monitor Locations
North Shore: Grid B-3

Legend

- Significant Locality Overflow Points
- Shallow Well Locations
- Existing Flow Monitor
- Existing Pressure Monitor
- Existing Flow and Pressure Monitor
- Existing IWD
- Planned Flow Monitor
- Planned Pressure Monitor
- Planned Flow and Pressure Monitor
- Planned IWD
- Planned Gravity Flow Monitor
- Planned Gravity Flow and Pressure Monitor
- HRSD Pump Stations
- Treatment Plants
- Force Main
- Gravity Main

1 inch equals 3,500 feet

11/12/2008
Figure 7 - Monitor Locations
North Shore: Grid B-4

Legend
- Significant Locality Overflow Points
- Shallow Well Locations
- Existing Flow Monitor
- Existing Pressure Monitor
- Existing Flow and Pressure Monitor
- Existing IWD
- Planned Flow Monitor
- Planned Pressure Monitor
- Planned Flow and Pressure Monitor
- Planned IWD
- Planned Gravity Flow Monitor
- Planned Gravity Flow and Pressure Monitor
- HRSD Pump Stations
- Treatment Plants
- Force Main
- Gravity Main

1 inch equals 3,500 feet
Figure 8 - Monitor Locations
North Shore: Grid B-5

Legend
- Significant Locality Overflow Points
- Shallow Well Locations
- Existing Flow Monitor
- Existing Pressure Monitor
- Existing Flow and Pressure Monitor
- Existing IWD
- Planned Flow Monitor
- Planned Pressure Monitor
- Planned Flow and Pressure Monitor
- Planned IWD
- Planned Gravity Flow Monitor
- Planned Gravity Flow and Pressure Monitor
- HRSD Pump Stations
- Treatment Plants
- Force Main
- Gravity Main

1 inch equals 3,500 feet
Figure 11 - Monitor Locations
North Shore: Grid C-5

Legend
- Significant Locality Overflow Points
- Shallow Well Locations
- Existing Flow Monitor
- Existing Pressure Monitor
- Existing Flow and Pressure Monitor
- Existing IWD
- Planned Flow Monitor
- Planned Pressure Monitor
- Planned Flow and Pressure Monitor
- Planned IWD
- Planned Gravity Flow Monitor
- Planned Gravity Flow and Pressure Monitor
- HRSD Pump Stations
- Treatment Plants
- Force Main
- Gravity Main

1 inch equals 3,500 feet
Figure 13 - Monitor Locations
North Shore: Grid D-5-A

Legend
- Significant Locality Overflow Points
- Shallow Well Locations
- Existing Flow Monitor
- Existing Pressure Monitor
- Existing Flow and Pressure Monitor
- Existing IWD
- Planned Flow Monitor
- Planned Pressure Monitor
- Planned Flow and Pressure Monitor
- Planned IWD
- Planned Gravity Flow Monitor
- Planned Gravity Flow and Pressure Monitor
- HRSD Pump Stations
- Treatment Plants
- Force Main
- Gravity Main

1 inch equals 1,000 feet

11/12/2008
Figure 14 - Monitor Locations
North Shore: Grid D-6

Legend
- Significant Locality Overflow Points
- Shallow Well Locations
- Existing Flow Monitor
- Existing Pressure Monitor
- Existing Flow and Pressure Monitor
- Existing IWD
- Planned Flow Monitor
- Planned Pressure Monitor
- Planned Flow and Pressure Monitor
- Planned IWD
- Planned Gravity Flow Monitor
- Planned Gravity Flow and Pressure Monitor
- HRSD Pump Stations
- Treatment Plants

North Shore

HRSD Pump Stations
Treatment Plants

Legend

1 inch equals 3,500 feet

11/12/2008
1 inch equals 3,500 feet
Figure 16 - Monitor Locations
North Shore: Grid D-6-B

Legend
○ Significant Locality Overflow Points
W Shallow Well Locations
F Existing Flow Monitor
P Existing Pressure Monitor
F Existing Flow and Pressure Monitor
I Existing IWD
F Planned Flow Monitor
P Planned Pressure Monitor
F Planned Flow and Pressure Monitor
I Planned IWD
P Planned Gravity Flow Monitor
GP Planned Gravity Flow and Pressure Monitor
HRSD Pump Stations
△ Treatment Plants
Force Main
Gravity Main

1 inch equals 1,000 feet
11/12/2008
Figure 20 - Monitor Locations
North Shore: Grid E-7

Legend
- Significant Locality Overflow Points
- Shallow Well Locations
- Existing Flow Monitor
- Existing Pressure Monitor
- Existing Flow and Pressure Monitor
- Existing IWD
- Planned Flow Monitor
- Planned Pressure Monitor
- Planned Flow and Pressure Monitor
- Planned IWD
- Planned Gravity Flow Monitor
- Planned Gravity Flow and Pressure Monitor
- HRSD Pump Stations
- Treatment Plants

1 inch equals 3,500 feet

11/12/2008
Figure 23 - Monitor Locations
South Shore: Grid A-6

Legend
- Significant Locality Overflow Points
- Shallow Well Locations
- Existing Flow Monitor
- Existing Pressure Monitor
- Existing Flow and Pressure Monitor
- Existing IWD
- Planned Flow Monitor
- Planned Pressure Monitor
- Planned Flow and Pressure Monitor
- Planned IWD
- Planned Gravity Flow Monitor
- Planned Gravity Flow and Pressure Monitor
- HRSD Pump Stations
- Treatment Plants
- Force Main
- Gravity Main

1 inch equals 3,500 feet

11/12/2008
Figure 24 - Monitor Locations
South Shore: Grid B-4

Legend

- Significant Locality Overflow Points
- Shallow Well Locations
- Existing Flow Monitor
- Existing Pressure Monitor
- Existing Flow and Pressure Monitor
- Existing IWD
- Planned Flow Monitor
- Planned Pressure Monitor
- Planned Flow and Pressure Monitor
- Planned IWD
- Planned Gravity Flow Monitor
- Planned Gravity Flow and Pressure Monitor
- HRSD Pump Stations
- Treatment Plants
- Force Main
- Gravity Main

1 inch equals 3,500 feet
Figure 25 - Monitor Locations

Legend

- Significant Locality Overflow Points
- Shallow Well Locations
- Existing Flow Monitor
- Existing Pressure Monitor
- Existing Flow and Pressure Monitor
- Existing IWD
- Planned Flow Monitor
- Planned Pressure Monitor
- Planned Flow and Pressure Monitor
- Planned IWD
- Planned Gravity Flow Monitor
- Planned Gravity Flow and Pressure Monitor
- HRSD Pump Stations
- Treatment Plants
- Force Main
- Gravity Main

1 inch equals 3,500 feet

11/12/2008
Figure 26 - Monitor Locations
South Shore: Grid B-5-A

Legend
- Significant Locality Overflow Points
- Shallow Well Locations
- Existing Flow Monitor
- Existing Pressure Monitor
- Existing Flow and Pressure Monitor
- Existing IWD
- Planned Flow Monitor
- Planned Pressure Monitor
- Planned Flow and Pressure Monitor
- Planned IWD
- Planned Gravity Flow Monitor
- Planned Gravity Flow and Pressure Monitor
- HRSD Pump Stations
- Treatment Plants
- Force Main
- Gravity Main

1 inch equals 1,000 feet
Figure 27 - Monitor Locations
South Shore: Grid B-5-B

Legend
- Significant Locality Overflow Points
- Shallow Well Locations
- Existing Flow Monitor
- Existing Pressure Monitor
- Existing Flow and Pressure Monitor
- Existing IWD
- Planned Flow Monitor
- Planned Pressure Monitor
- Planned Flow and Pressure Monitor
- Planned IWD
- Planned Gravity Flow Monitor
- Planned Gravity Flow and Pressure Monitor
- HRSD Pump Stations
- Treatment Plants
- Force Main
- Gravity Main

1 inch equals 1,000 feet
Figure 29 - Monitor Locations
South Shore: Grid B-6-A

Legend
- Significant Locality Overflow Points
- Shallow Well Locations
- Existing Flow Monitor
- Existing Pressure Monitor
- Existing Flow and Pressure Monitor
- Existing IWD
- Planned Flow Monitor
- Planned Pressure Monitor
- Planned Flow and Pressure Monitor
- Planned IWD
- Planned Gravity Flow Monitor
- Planned Gravity Flow and Pressure Monitor
- HRSD Pump Stations
- Treatment Plants

- Force Main
- Gravity Main

1 inch equals 1,000 feet
Figure 30 - Monitor Locations
South Shore: Grid B-6-B

Legend
- Significant Locality Overflow Points
- Shallow Well Locations
- Existing Flow Monitor
- Existing Pressure Monitor
- Existing Flow and Pressure Monitor
- Existing IWD
- Planned Flow Monitor
- Planned Pressure Monitor
- Planned Flow and Pressure Monitor
- Planned IWD
- Planned Gravity Flow Monitor
- Planned Gravity Flow and Pressure Monitor
- HRSD Pump Stations
- Treatment Plants
- Force Main (red)
- Gravity Main (green)

1 inch equals 1,000 feet

11/12/2008
Figure 31 - Monitor Locations
South Shore: Grid B-6-C

Legend
- **Significant Locality Overflow Points**
- **Shallow Well Locations**
- **Existing Flow Monitor**
- **Existing Pressure Monitor**
- **Existing Flow and Pressure Monitor**
- **Existing IWD**
- **Planned Flow Monitor**
- **Planned Pressure Monitor**
- **Planned Flow and Pressure Monitor**
- **Planned IWD**
- **Planned Gravity Flow Monitor**
- **Planned Gravity Flow and Pressure Monitor**
- **HRSD Pump Stations**
- **Treatment Plants**

- Blue: Force Main
- Green: Gravity Main

1 inch equals 1,000 feet
Figure 32 - Monitor Locations
South Shore: Grid B-6-D

Legend
- Significant Locality Overflow Points
- Shallow Well Locations
- Existing Flow Monitor
- Existing Pressure Monitor
- Existing Flow and Pressure Monitor
- Existing IWD
- Planned Flow Monitor
- Planned Pressure Monitor
- Planned Flow and Pressure Monitor
- Planned IWD
- Planned Gravity Flow Monitor
- Planned Gravity Flow and Pressure Monitor
- HRSD Pump Stations
- Treatment Plants

1 inch equals 1,000 feet

11/12/2008
Figure 33 - Monitor Locations
South Shore: Grid B-7

Legend
- **Orange Clover:** Significant Locality Overflow Points
- **Small Squares:** Shallow Well Locations
- **Circle:** Existing Flow Monitor
- **Square:** Existing Pressure Monitor
- **Triangle:** Existing Flow and Pressure Monitor
- **Blue Diamond:** Existing IWD
- **Yellow Diamond:** Planned Flow Monitor
- **Red Diamond:** Planned Pressure Monitor
- **Orange Triangle:** Planned Flow and Pressure Monitor
- **Yellow Triangle:** Planned IWD
- **Green Diamond:** Planned Gravity Flow Monitor
- **Orange Triangle and Diamond:** Planned Gravity Flow and Pressure Monitor
- **Purple Triangle:** HRSD Pump Stations
- **Small Circles:** Treatment Plants
- **Red Line:** Force Main
- **Green Line:** Gravity Main

1 inch equals 3,500 feet
Figure 35 - Monitor Locations
South Shore: Grid C-2

Legend
- Significant Locality Overflow Points
- Shallow Well Locations
- Existing Flow Monitor
- Existing Pressure Monitor
- Existing Flow and Pressure Monitor
- Existing IWD
- Planned Flow Monitor
- Planned Pressure Monitor
- Planned Flow and Pressure Monitor
- Planned IWD
- Planned Gravity Flow Monitor
- Planned Gravity Flow and Pressure Monitor
- HRSD Pump Stations
- Treatment Plants
- Force Main
- Gravity Main

Legend

1 inch equals 3,500 feet

11/12/2008
Figure 37 - Monitor Locations
South Shore: Grid C-4

Legend
- **Significant Locality Overflow Points**
- **Shallow Well Locations**
- **Existing Flow Monitor**
- **Existing Pressure Monitor**
- **Existing Flow and Pressure Monitor**
- **Existing IWD**
- **Planned Flow Monitor**
- **Planned Pressure Monitor**
- **Planned Flow and Pressure Monitor**
- **Planned IWD**
- **Planned Gravity Flow Monitor**
- **Planned Gravity Flow and Pressure Monitor**
- **HRSD Pump Stations**
- **Treatment Plants**
- **Force Main**
- **Gravity Main**

1 inch equals 3,500 feet

11/12/2008
Figure 38 - Monitor Locations
South Shore: Grid C-5

Legend
- Significant Locality Overflow Points
- Shallow Well Locations
- Existing Flow Monitor
- Existing Pressure Monitor
- Existing Flow and Pressure Monitor
- Existing IWD
- Planned Flow Monitor
- Planned Pressure Monitor
- Planned Flow and Pressure Monitor
- Planned IWD
- Planned Gravity Flow Monitor
- Planned Gravity Flow and Pressure Monitor
- HRSD Pump Stations
- Treatment Plants
- Force Main
- Gravity Main

1 inch equals 3,500 feet
Figure 40 - Monitor Locations
South Shore: Grid C-6-A

Legend
- Significant Locality Overflow Points
- Shallow Well Locations
- Existing Flow Monitor
- Existing Pressure Monitor
- Existing Flow and Pressure Monitor
- Existing IWD
- Planned Flow Monitor
- Planned Pressure Monitor
- Planned Flow and Pressure Monitor
- Planned IWD
- Planned Gravity Flow Monitor
- Planned Gravity Flow and Pressure Monitor
- HRSD Pump Stations
- Treatment Plants
- Force Main
- Gravity Main

1 inch equals 1,000 feet
Figure 41 - Monitor Locations
South Shore: Grid C-6-B
Figure 42 - Monitor Locations
South Shore: Grid C-6-C

Legend
- Significant Locality Overflow Points
- Shallow Well Locations
- Existing Flow Monitor
- Existing Pressure Monitor
- Existing Flow and Pressure Monitor
- Existing IWD
- Planned Flow Monitor
- Planned Pressure Monitor
- Planned Flow and Pressure Monitor
- Planned IWD
- Planned Gravity Flow Monitor
- Planned Gravity Flow and Pressure Monitor
- HRSD Pump Stations
- Treatment Plants
- Force Main
- Gravity Main

1 inch equals 1,000 feet

11/12/2008
Figure 43 - Monitor Locations
South Shore: Grid C-7

Legend
- Significant Locality Overflow Points
- Shallow Well Locations
- Existing Flow Monitor
- Existing Pressure Monitor
- Existing Flow and Pressure Monitor
- Existing IWD
- Planned Flow Monitor
- Planned Pressure Monitor
- Planned Flow and Pressure Monitor
- Planned IWD
- Planned Gravity Flow Monitor
- Planned Gravity Flow and Pressure Monitor
- HRSD Pump Stations
- Treatment Plants
- Force Main
- Gravity Main

1 inch equals 3,500 feet

11/12/2008

Hampton Roads Sanitation District
Environmental Engineer & Consultant
Figure 44 - Monitor Locations
South Shore: Grid C-8

Legend
- Significant Locality Overflow Points
- Shallow Well Locations
- Existing Flow Monitor
- Existing Pressure Monitor
- Existing Flow and Pressure Monitor
- Existing IWD
- Planned Flow Monitor
- Planned Pressure Monitor
- Planned Flow and Pressure Monitor
- Planned IWD
- Planned Gravity Flow Monitor
- Planned Gravity Flow and Pressure Monitor
- HRSD Pump Stations
- Treatment Plants
- Force Main
- Gravity Main

1 inch equals 3,500 feet
Figure 48 - Monitor Locations
South Shore: Grid D-6

Legend
- Significant Locality Overflow Points
- Shallow Well Locations
- Existing Flow Monitor
- Existing Pressure Monitor
- Existing Flow and Pressure Monitor
- Existing IWD
- Planned Flow Monitor
- Planned Pressure Monitor
- Planned Flow and Pressure Monitor
- Planned IWD
- Planned Gravity Flow Monitor
- Planned Gravity Flow and Pressure Monitor
- HRSD Pump Stations
- Treatment Plants
- Force Main
- Gravity Main

1 inch equals 3,500 feet