

• Exhibit J.

Preliminary Calculations for Herndon Farms Wastewater Handling for Submission to North Carolina Division of Environmental Quality, Water Resources Division, Non-Discharge Branch

- Load design of 90,000 gallons per day (GPD).
 - Load reduction request of 50% to 45,000 GPD
- Treat Plant to produce Type 2 effluent. **Exhibit J.5**
- Treatment Technology: MBR. **Exhibit J.3**
- Onsite treatment: Land application.
 - Soil Report **Exhibit B.7**
 - Initial Water Balance **Exhibit J.4**
 - Max Application Rate to existing soils= 41,449 GPD
 - Max Application of modified soils= 52,925 GPD
 - Total Max Potential for land application= **94,374 GPD**
- Additional Reuse Locations
 - Ponds
 - Total Estimated GD= 800 GPD
 - Artificial Wetlands
 - Total Estimated GD= 1200 GPD
 - Connecting streams
 - Total Estimated GD= 200 GPD
 - Garden and intermittent sprayed areas
 - Total Estimated GPD= 6,500
 - Water features
 - Total Estimated GD= 300 GPD
- Total Additional Reuse Capacity
 - **9,000 GPD**