

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 approximately 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**
- Treat Technology: AquaPoint AquaFas System. **Exhibit J.6**
- 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
- Land Application Methods in Useable Locations
 - Spray Irrigation
 - Existing Soils
 - Total Estimated GPD= 25,000 GPD
 - Engineered Soils Pending in situ verification for total GPD.
 - Total Estimated= 30,000 GPD
 - Drip Irrigation
 - Existing and Engineered Soils
 - Total Estimated GPD= 15,000 GPD
 - 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 GPD Available= **79,000 GPD**