I. Introduction & Overview
ECT developed a wetland hydroperiod water balance (Wetland HP) model for Mosaic with its fundamental application for estimating the post reclamation hydrology of reclaimed wetlands. The Wetland HP model accounts for numerous hydrologic interactions between the atmosphere, vegetation, surface water, the vadose zone, and the water table.

II. Model Description (cont.)
Output Data Tables
- Wetland – water balance for Wetland Cell
- Upland – water balance for Upland Cell
- DG-Cell – water balance for Down-gradient Cell
- WB Summary – Annual water balance summary

Output Data Graphs
- Hydro Check – comparison of three hydrographs
- Upland Hydrograph – model predicted hydrograph
- Wetland Hydrograph – model predicted hydrograph
- Wetland SDC – model predicted stage-duration curve
- DG-Cell Hydrograph – model predicted hydrograph
- Wetland Outflow – model predicted channel outflow
- Fringe Hydrograph – model predicted hydrograph
- Fringe SDC – model predicted stage-duration curve

III. Conceptual Model Design

IV. Verification Examples

V. Application Example

VI. Summary
The Wetland HP model was successfully applied for Mosaic's permitting efforts at its South Fort Meade extension property in Hardee County, Florida. Also, the model was recently verified against 18 months of actual field monitoring data for selected wetlands at their Ona property in Hardee County, Florida.

When properly applied the Wetland HP model is capable of being an effective tool for estimating the hydroperiods for existing and/or post-reclamation wetlands.