

An Overview of LID in the Lake Jesup, Crane Strand, Long Branch (LJCSLB) Basin

Denis W. Frazel, PhD

Frazel, Inc.

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LID Section Layout

- **14 Key Principles (Description of the principle)**
 - **Examples of applications within the Basin**
 - **Presentation of local multi-strategy LID programs and projects**
 - **Discussion of impediments to LID implementation**
 - **Other Development-related Management Actions**
 - **NPDES**
 - **Updates to Comp Plans**
 - **New Ordinances (such as zero phosphorus)**

Selected Key Principles and Examples

- **Incorporation of small-scale stormwater treatment systems integrated at the lot level**
 - On-site treatment systems offer opportunities for maintaining more natural hydrologic functions on a site, as well as reducing the concentration time needed to move water into larger off-site facilities

Grassed Swale



Tech Center-Lake Mary

Vegetated Filter Strip



Longwood Parking Lot

Grassed Depressed Area



Lake Mary City Park

Disconnected Gutters, overland flow



Longwood

Key Principles

- **Increasing infiltration**
 - Mechanisms that can retain stormwater on-site yet still provide percolation facilitate both the protection of surface water quality and aquifer recharge

Increasing Infiltration-curb cuts, depressed area



Strang Communications-Lake Mary

Depressed area-onsite storage



Villa de Soleil

Key Principles

- **Reduction of Impervious Surfaces**
 - Reducing impervious surfaces within a site allows for more on-site retention of runoff, reducing off-site impacts.
- Swales and Filter Strips
- Porous Pavement/Pervious Surfaces
- Bioretention – Raingardens
- Buffers

Grassed Parking-overland flow



Longwood

Combination Asphalt and Grassed Parking



Lake Mary Events Center

Flexi-pave pavement-Orange County Admin Bldg.



Lake Mary Rain Garden



Raingarden



Lake Mary City Park



Bioretention-Lake Mary

Bioretention



Accidental Rain Garden?

Summary

- Incorporation of LID within the Lake Jesup Basin is occurring
- There are numerous examples of LID in practice
- Local governments are actively reaching out to the community to educate and inform them about LID
- Continued expansion of LID in the Basin will yield water quality benefits
- I am looking for comments!! dfrazel@msn.com