



Outline

Recent storm events and impacts

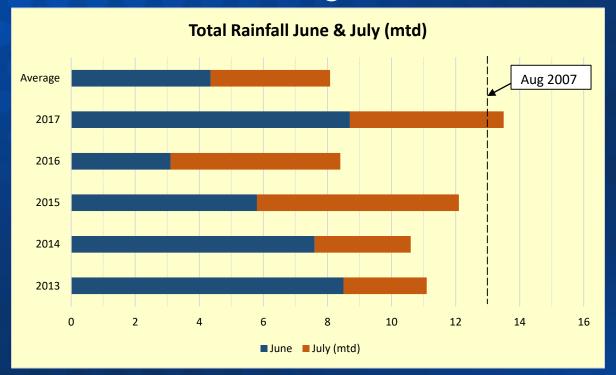
City funded projects and studies

Stakeholder engagement process

 Product: prioritized list of projects & funding alternatives



Recent <u>successive</u> and high rainfall events



 Impacted areas rely on surface drainage (ditches and overland flow). Many of these neighborhoods were built before modern stormwater requirements (detention/retention).



Flooding and Ponding Observations

- Roadway and parkway flooding that subsides after the event (includes some yards and parking lots)
- FEMA Floodplains
- Pocketed areas with high groundwater (low spots with no outlets). Duration and extent varies
- Private stormwater facilities



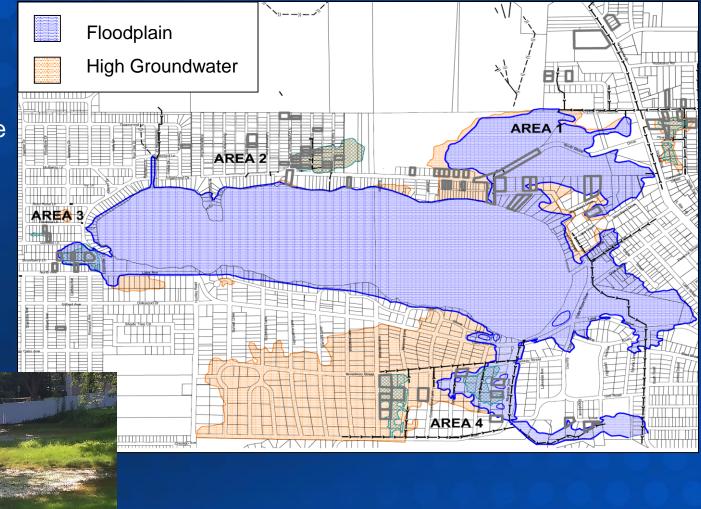






Many areas with surface flooding (beyond 5 days) are within 2 feet of the Lake surface and have high groundwater.

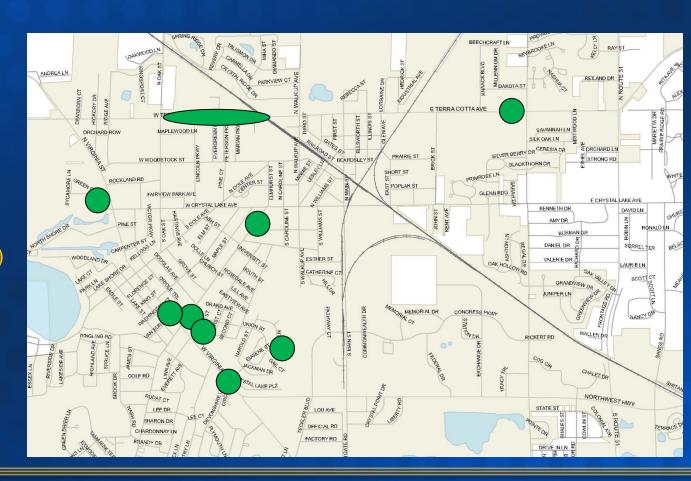
- North Shore area
- Woodland Dr.
- Pine St./ Oriole Tr.
- West end of Lake
- Crystal Creek (Country Club area)





Areas with repeated flooding (road closures) that subside include:

- Green Oaks Dr.
- US-14/Keith Ave.
- College St./Uteg St.
- Mary Ln./ Union St.
- McHenry Ave./Oriole
- McHenry Ave./Library
- Washington/Pierson-Van Buren
- IL 176/Terra Cotta
- IL 176 (Oak to Walkup)





City funded drainage investments

Initiative (public health)	Cost
North Shore sanitary sewers and water (failing septics) (City portion of project)	\$518,015

Initiative (emergency access and flooding)	Cost
2009 Flooding Study	\$33,272
Crystal Creek Study	\$35,547
North Shore Culvert Project Study	\$46,958
North Shore Culvert Design	\$110,410
North Shore Construction (Cove Pond overflow, roadway & Oak Ct. area)	\$761,992
Lake Modeling (Crystal Creek)	\$26,798
North Shore Area 2 Design Engineering	\$63,628
TOTAL =	\$1,078,605



What are we proposing to accomplish?

Stakeholder/ Neighborhood Meetings (area specific)

July – October

North Shore Area Advisory Committee (need consensus)

Prioritization of Projects & Funding Alternatives

(benefit/cost, impacts, and acceptance)
October - November

Projects will require a partnership



Project Study Team

Citizens & City Council

Mike Magnuson, PE Director of Public Works

Abigail Wilgreen, PE, CFM
City Engineer

Mark Stonikas Civil Engineer

Project Support
Crystal Lake Park District
City's Stormwater Consultant



Transparent and Open Process

- Dedicated section on the City website (2 weeks)
 (studies, updates, meetings, resources, etc.)
- Neighborhood and Advisory Committee Meetings (open to all)

Regular City Council Updates



Questions?

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