Stormwater Inundation Mapping Application

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Natalie Creek

- Evaluate from 153rd and Lavergne to 146th and Pulaski
- Compare alternatives and develop others to be considered for implementation. (See potential alternatives on next slide.)
- Evaluation based on cost effectiveness and overall flood mitigation impact
Natalie Creek Alternatives

From DWP:

• **New detention basin facility** at LeClaire Avenue and 153\textsuperscript{rd} Street, including a pump station and a control structure at Lavergne Avenue.

• **Culvert improvements** (to increase the hydraulic capacity of Natalie Creek at LeClaire Avenue) consisting of increasing existing twin box culverts

• **Culvert improvements** to increase the capacity of Karlov Avenue consisting of increasing the opening

• **New diversion conduit** from 149\textsuperscript{th} Street and Kilpatrick, along 149\textsuperscript{th} Street, to Keystone Avenue, then north on Keystone Avenue to 146\textsuperscript{th} Street, and then east along 146\textsuperscript{th} Street to Pulaski Road, where the new diversion conduit will join the existing Natalie Creek diversion conduit.

• **Concrete lined channel** from Keystone Avenue to Pulaski Road.

• **Floodwall** upstream of LeClaire Avenue

New:

• “Oak Creek Plaza” detention basin modifications (near 159\textsuperscript{th} Street and Central Avenue)
  
  — upstream of affected area, see if can be increased in effectiveness

• Potentially other alternatives.
Some potential alternatives, & potential improvements based on modeling.
Natalie Creek Status and Process

- Currently starting the preliminary engineering
- Will ID & evaluate alternatives, start with DWP
  - Investigate most effective alternatives
- Find preferred solution, take to 30% design stage
- District will decide how to move forward from there