

HURRICANE HERMINE

Wastewater Collection System
Challenges and Response
Sept. 20, 2016

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Overview

- Mayor Cretekos' Remarks
- Storm duration Tuesday, Aug. 30 through Friday, Sept. 2
- Rain (> 10")
- Sanitary Sewer Overflows:
 - Corona Avenue area (2.9 Million Gallons)
 - North Greenwood area (18.8 Million Gallons)
 - Marshall Street WRF (10 Million Gallons)

Collection System Challenges

- Hurricane caused Inflow and Infiltration to be far greater than typically experienced
- Flows were estimated at three to five times an average day
- Collection system backup due to equipment failure at the MSWRF
- Corona Avenue Collector Sewer bottleneck
- Beach flooding induced excessive inflow and infiltration

Preparation and Response

- Preparation began week before the storm
- Response
 - Wednesday, Aug. 31 at 7 a.m. to Wednesday, Sept. 8 at 7 a.m.
24/7 vacuum truck operations at Corona Interceptor bottleneck manhole
 - Staff responded to SSO reports 24/7 throughout system during entire event
 - Thursday, Sept. 1 to date – Marshall Street WRF lift station failure response with temporary pumps
- Extensive, multi-year collection system inflow and infiltration investigation and repair effort already underway
- Corona Avenue Collector bottleneck solution final design underway

Moving Forward

- Final completion of an after-event evaluation of storm-related issues and responses
- Continue inflow and infiltration investigation and repair efforts
- Correct Corona Avenue Collector Sewer bottleneck
- Repair Marshall Street WRF Influent Lift Station

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