Combined Sewer Overflow (CSO) Reduction Project

CSO 41/Upriver Drive

Combined Sewage Overflow Reduction

- Two types of sewer systems
  - Combined storm & sanitary
  - Separate storm & sanitary
    - Storm sewer (i.e., rainwater) discharges to river
    - Sanitary discharges to treatment plant
    - Very expensive to convert a combined system to a separated system
  - Spokane has both types of systems

Combined Sewer System

Combined Sewer Information

- Combined Sanitary & stormwater into the same pipe
- Combined sewage overwhelms combined sewers and the treatment plant during a storm
- To protect both, excess sewage is intentionally discharged to the river

Why build a CSO Tank?

- Compliance with EPA Clean Water Act and WAC 275-245
- CSO discharges only 1 year per outfall with BMP limits for non-compliance

CSO 41/Upriver Drive Project Limits
CSO 41 Construction
Construct 1,500 feet of 72" and 60" pipe to store 960,000 gallons of combined sewage.

CSO 41 Construction
Construct vaults that limit flows released into the new sewer.

CSO 41 Construction
New sewer
Stormwater
Vaults
CSO 41 Storage

CSO 41/Upriver Drive
Reconstruct Upriver Drive from Rebecca to Freya, stormwater, resewer and infiltration areas possible at Rebecca and Freya intersections.

CSO 41/Upriver Drive
Project Work
New sewer
Stormwater Drywells
New sewer
CSO 41 Storage
Centennial Trail

Sewer and vault construction at Rebecca and at Freya Street affect the trail

CSO 41/Upriver Drive
Construction Schedule

• ±3 month duration
• Beginning Late Summer 2016
  – Anticipated start in August 2016
  – Work may carry over into spring of 2017

Traffic Detour During Upriver Dr. Construction

Rebecca Street Seal Coat
(#2016043)

Questions?
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Website for more CSO information:
http://www.spokane-wastewater.org