ATTACHMENT 1

June 15, 2016 King County Council Committee of the whole

- River Flooding
- Lake Flooding
- Local Drainage Flooding

Mark Isaacson, Division Director Water and Land Resources Division Department of Natural Resources and Parks

River Flooding



Emergency Response

Winter 2015-2016 Emergency Response Summary

- 1123 staff hours on patrol
- 226 hours Flood Warning Center Open
- Record Setting Public Demand for Information
 - 3000 Phone Calls to the Flood Warning Center
 - 12,000 Page views on the Flood App
 - 300,000 Page views on the Flood Warning Website
- 10,000+ sand bags distributed from eleven locations



Open for 6 flood events; flood patrols activated during all floods.

Skykomish River Highest Flood on Record



Damage to homes and infrastructure in the South Fork Skykomish River Valley. Flood warning improvements underway.

Countywide: Damage to approximately 40 locations.

White River Response



White River deposition contributes to flooding in the City of Pacific area. Temporary barriers installed and home buyouts underway.

Lakes and Willowmoor Transition Zone Flooding



Horseshoe Lake



Horseshoe Lake January 2016, one week prior to the start of pumping.

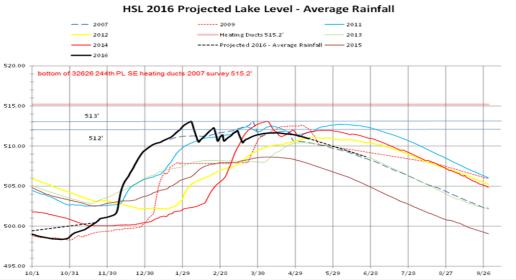


Pump and suction pipeline

Horseshoe Lake



Pump discharge ¾ mile south of the lake



Allen Lake

Flooding over roadway at NE 8th Street near 250th Ave NE



Drainage and Flooding

Projects:

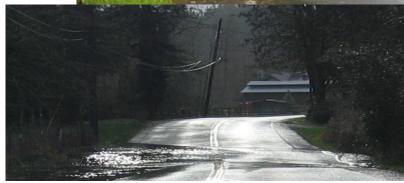
- Burns Creek Sediment Removal
- Agricultural Drainage Improvements
- Seola Pond Enhancements
- May Creek Sediment Removal

Maintenance:

- 1,100 Residential and Regional Stormwater Facilities
- Work with Owners of 900 Commercial Stormwater Facilities
- Work with King County Agencies of 130 Stormwater Facilities
- Technical Assistance for 350 low impact development BMP's

Burns Creek Landslide





Flooding across the Green River Valley Road and then back over again.

Burns Creek – Out of Banks



Burns Creek Overbank Flooding and Sediment Deposition Burns Creek Channel Deposition and Flooding around Private Bridge

Burns Creek Sediment Removal



Agricultural Drainage Improvements



Agriculture Ditches Cleaned:

- 3,000 linear ft in 2014
- 11,700 linear ft in 2015
- 5,000-10,000 linear ft in 2016
- 12,000 linear ft in 2017 is target

Seola Pond Enhancements



Above: Seola Pond during construction to reduce flooding, and improve water quality.

Below: Installing a new manhole at Seola Pond outlet.



Seola Pond



May Creek Channel



Left: constricted by reed canary grass and sediment.

- 5,870 cubic yards of sediment removed
- Approximately 120 pieces of wood and over 30,000 plants installed



May Creek Channel

Long Marsh Creek was enlarged to trap sediment prior to entry into the main May Creek channel.



Thank you!

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Stormwater Drainage Hotline 206-477-4811

Flood Warning Center 206-296-8200 1-800-945-9263 <u>www.kingcounty.gov/services/environment/water-and-</u> land/flooding/warning-system.aspx