

Overview of West Point Treatment Plant Permit Renewal

Presented to MWPAAC's Engineering and Planning Subcommittee
January 8, 2015

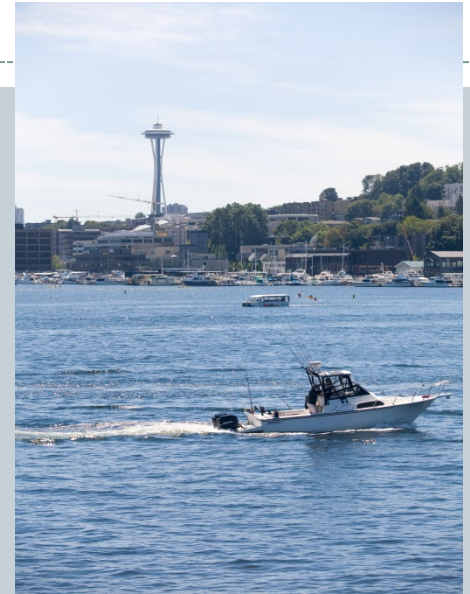
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Permit to Discharge Pollutants

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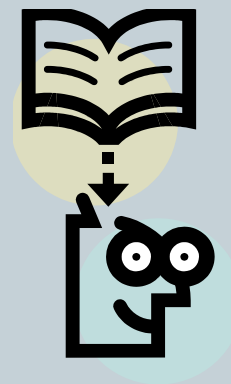
- Water Quality Standards and Permitting are the foundation of the Clean Water Act
- National Pollution Discharge Elimination System (NPDES) permits allow discharge
- KC has a 5 NPDES permits
- Each is renewed every 5 years
- West Point NPDES permit authorizes discharge of:
 - Effluent treated to full secondary treatment requirements
 - Effluent treated to primary treatment standards and blended with secondary treatment (CSO treatment)
 - Effluent from 4 CSO Treatment Facility (Alki, Carkeek, Elliott West, Henderson) after the equivalent of Primary Treatment
 - Effluent from WTD Combined Sewer Overflow locations



Components of our NPDES Permit

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- Discharge Limits
- Monitoring requirements
- Reporting/Record Keeping Requirements
- Facility Loading Monitoring and Assessment
- Operation and Maintenance Requirements
- Industrial Pretreatment Program
- Outfall Inspection and Evaluation
- Whole Effluent Toxicity Testing
- Sediment Monitoring – Outfall and CSOs
- Combined Sewer Overflows – Reporting & Program Implementation
- Nitrogen Reduction Study



What's Staying The Same?

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- **Secondary Treatment/Operations**
 - Effluent Limits
 - Monitoring Requirements –
 - Industrial Waste Program Components
 - Basic Operational Requirements (Keep it in the pipe!)

What Staying the Same?

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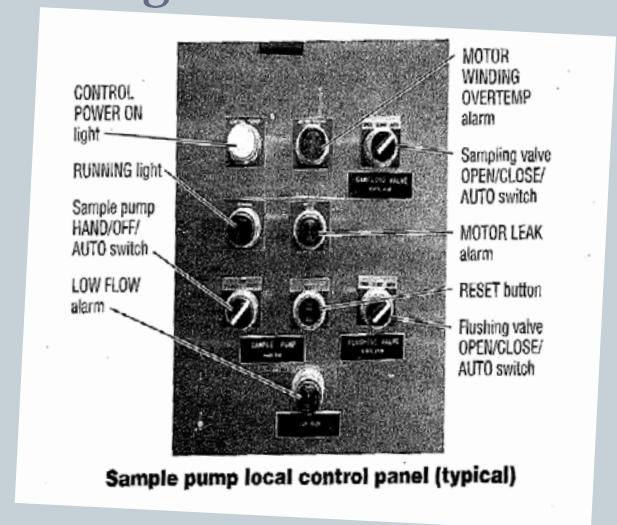
- **CSO Program Implementation**
 - Monthly event reporting
 - Annual CSO Report
 - Update Long-term CSO Control Plan in 2018
 - KC's obligation to continue implementing CSO 9 minimum controls
 - Post Construction Monitoring; demonstrate CSOs don't cause water quality impairment
- **CSO Treatment Plant Effluent Limits**
 - TSS Removal
 - Fecal Coliform
 - Settleable Solids
 - pH - always within range of 6-9
 - Chlorine Daily Max



What Will Change?

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- **Secondary Treatment and Operational Programs**
 - New Electronic Reporting – E - DMR
 - Industrial Waste Program to consider affects of Industrial flow (including dewatering flows) potential for effects on CSO discharges, when appropriate
- **CSO Treatment Reporting and Monitoring**
 - Elliott West & Henderson/MLK for each discharge event
 - ✦ Priority Pollutant monitoring
 - ✦ Dissolved Oxygen monitoring
 - EW Effluent Limits: FC 400 ; no event SS
 - PCB monitoring Henderson/MLK
 - Sediment modeling or sampling for Controlled CSO locations
- **Lab Data Scrutiny**



New Studies Required

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- **Elliott West Copper Reduction Assessment**

- Modify sampling system to assure accurate measurements
- Evaluate copper sources & control options
- Evaluate potential for outfall mixing enhancements
- Report strategies by Nov 2018 to minimize copper discharges

- **Elliott West Settleable Solids Removal Assessment**

- Assess Settleable Solids sources to EW tunnel/wet well and when high levels are discharged
- Recommend strategy by Nov 2018 for meeting discharge limits



Next Steps for West Point and South Plant Permits

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- Two comments received during comment period
- Ecology issued Final permit Dec 19th ; Effective Feb 2015
- South Plant draft permit expected mid-January. Few changes are anticipated
- After review periods, new South Plant permit by May



Questions?

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For additional information
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