



# ***ODOT Stormwater Update***





# ***Stormwater Regulation is here to stay***





# ***The World of Stormwater Regulation - EPA***

- Rulemaking on Post-Construction Stormwater Management
  - LID (Low Impact Development)
  - Infiltration
  - Hydromodification
  - Retrofitting
- Effluent Limitation Guidelines
- DOT NPDES Permit Audits





# ***The World of Stormwater Regulation - DEQ***



- ODOT/DEQ MOU
- Statewide Water Quality Management Plan



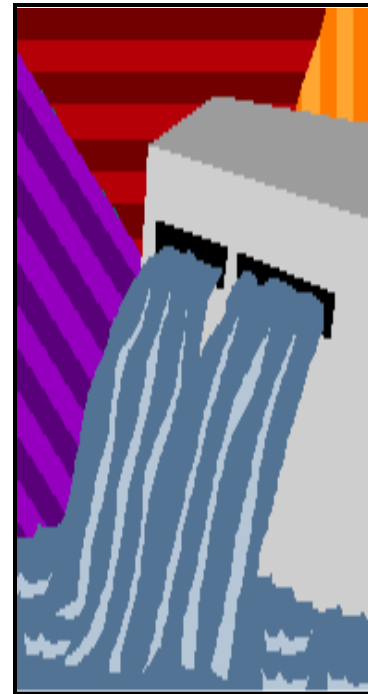
# Stormwater Action Team Tools

Table 3. Treatment Mechanism - BMP Matrix		Best Management Practice																
		Pretreatment		Infiltration				Filtration				Pool-Ponds			Space-constrained or Urban Application			
		Oil Control Facilities (pretreatment)	Sediment Control (pretreatment)	Infiltration pond	Bioretention	Bioslope	Porous Pavement (not stand-alone)	Grass Swale (soil amended)	Filter Strip (soil amended)	Grass Swale (no soil amendment)	Filter Strip (no soil amendment)	Constructed Wetlands	Extended Detention Dry Pond	Wet Ponds	Wet Vaults	Media Filters (non-proprietary)	Proprietary Separation (pretreatment)	Proprietary Filtration Facilities
Treatment Mechanism	Hydrologic Attenuation			■	■	■	■	□	□	□	□	□	■	□				
	Density Separation (Sedimentation or Flotation)	■	■	□	□	□		□	□	□	□	■	■	■	■		■	
	Sorption	□		□	■	■		■	■	□	□	■	□	□		□	□	■
	Filtration	□	□	■	■	■		■	■	■	■	□	□	□		■	□	■
	Uptake/Storage <sup>(1)</sup>			□	■	□		□	□	□	□	■	□	□				
	Microbial Transformation <sup>(1)</sup>			□	■	□		□	□	□	□	■	□	□		□		□
Target Pollutant	Sediment/Particulate (suspended solids)	○	●	●	●	●	○	●	●	●	●	●	●	●	○	●	●	●
	Nutrients			●	●	●	○	○	○	○	○	●	○	○		-		
	Oil and Grease	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	●	○
	Polycyclic Aromatic Hydrocarbons (PAH)			●	●	●	○	○	○	○	○	●	○	○		○		
	Metals (particulate)	○	○	●	●	●	○	●	●	●	●	●	●	●	○	●	●	●
	Metals (dissolved)			●	●	●	-	●	●	○	○	●	○	○		○		●



## ***JTA Section 18 Environmental Performance Standards***

- Stormwater Draft EPS by end of June
- Integrate with ODOT Technical Guidance
- Review and concurrence from regulatory agencies





# ***Scrutiny from Environmental Groups***

NEDC Settlement Agreement:

- Monitoring Program
- Stormwater Retrofit Program





## ***Stormwater Retrofit Program***

- \$2.1 million/year for four years
- Funded 12 projects for 2011
- Baldock project complete!
- 5 projects to be constructed this season





# ***Stormwater Retrofit Program***

- Maintainability of Proprietary Stormwater Treatment Systems





## ***Conclusion***

- Regulations – more stringent and prescriptive
- ODOT – more efficient
- Training and outreach





## ***ODOT's Stormwater Program Website:***

***[http://www.oregon.gov/ODOT/HWY/GEOENVIRONMNTAL/storm\\_management\\_program.shtml](http://www.oregon.gov/ODOT/HWY/GEOENVIRONMNTAL/storm_management_program.shtml)***

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*Questions?*