

INTRODUCTION TO STORMWATER TREATMENT

SESSION	TITLE	TOPICS COVERED
1	Introduction	<ul style="list-style-type: none">• Why it matters: effects on streams and lakes• What is driving stormwater treatment• The general approach being followed across the US and Canada to stormwater treatment• Volume and performance treatment goals• Channel protection/flood detention controls• Integrating quantity and quality controls
2	Stormwater quality	<ul style="list-style-type: none">• What are the pollutants in stormwater• Where pollutants come from• “Typical” concentrations
3	Public-domain treatment systems	<ul style="list-style-type: none">• Wet ponds, wetlands, swales, sand filters, etc• What is right about design criteria we are using• What is wrong about design criteria we are using• Performance: mostly known• Maintenance
4	Manufactured treatment systems	<ul style="list-style-type: none">• Vaults, filters, and inserts• How they fit it with our public-domain systems• How they are commonly sized• Performance: mostly known on vaults and inserts, mostly unknown on filters• Certification programs – what are they and status• Maintenance
5	Low Impact Development and treatment systems	<ul style="list-style-type: none">• What is LID and what is driving it• Porous pavement and pavers• Bioretention and rain gardens• Performance: mostly known• Maintenance
6	Wrap up	<ul style="list-style-type: none">• Summation of pros and cons of various treatment systems• Final questions