

### **Permeable Pavement Advancements**

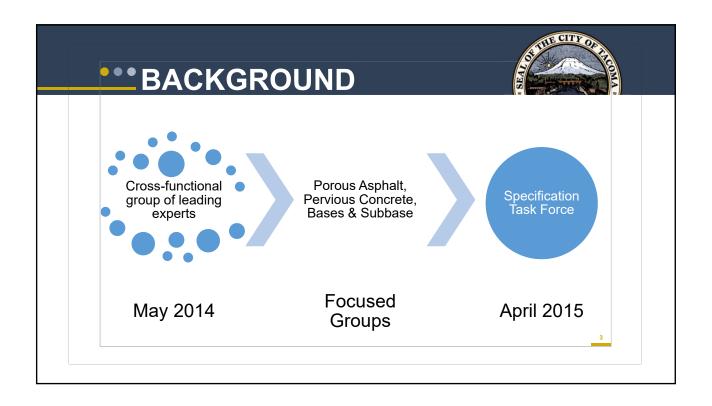
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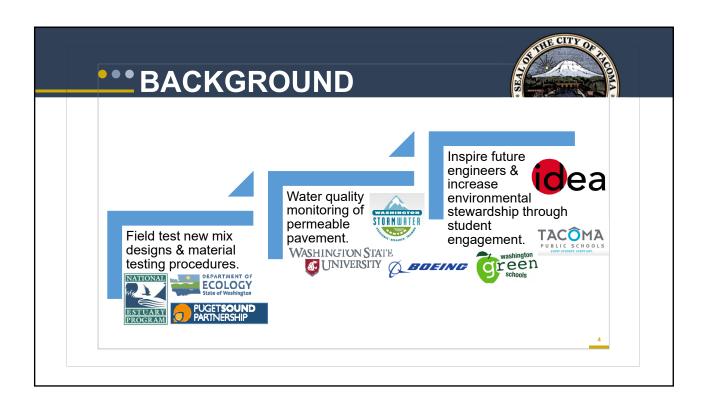
Infrastructure, Planning, and Sustainability Committee February 13. 2019 ITEM #

## \*\*\*OVERVIEW



- History of Permeable Pavements
- Background of Developing Standard Specifications
- Permeable Pavement Advancements
  - Mix Designs
  - Material Testing
- Key Partnerships







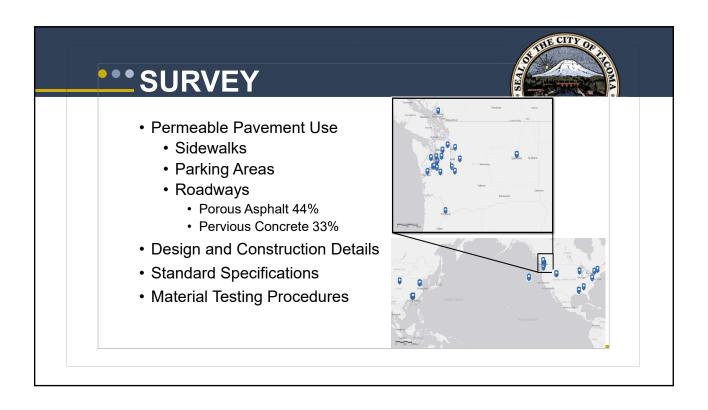
# **S**ISSUES



#### PROJECT GOALS

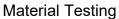
- Further permeable pavement durability, enhance design standards, and increase confidence in permeable pavements.
- Material testing not consistent with traditional pavement
- Permeable pavement not approved for water quality in WA
- · Pavement surface raveling









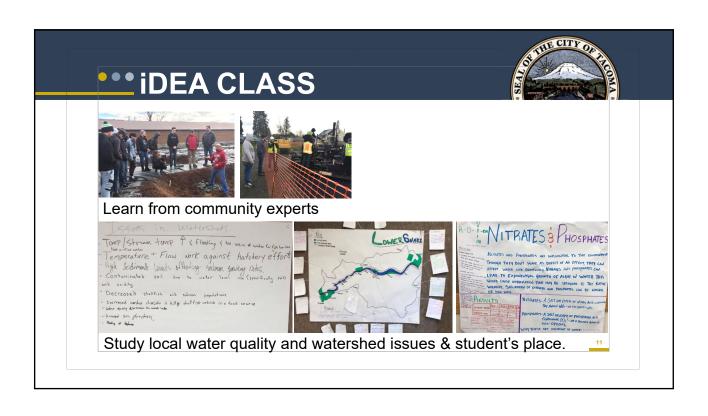


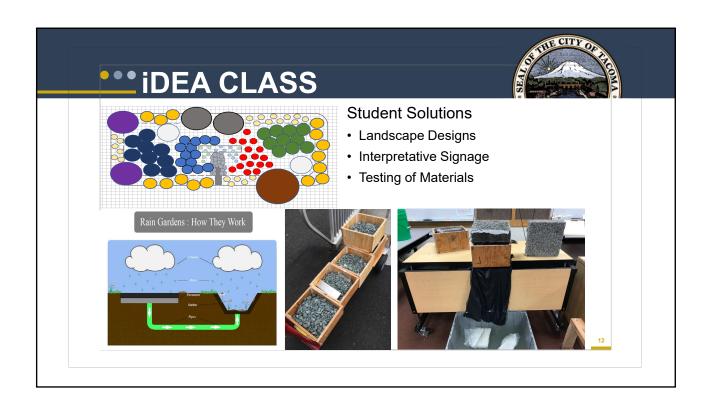
- Density
- Infiltration Rate
- Strength & Durability

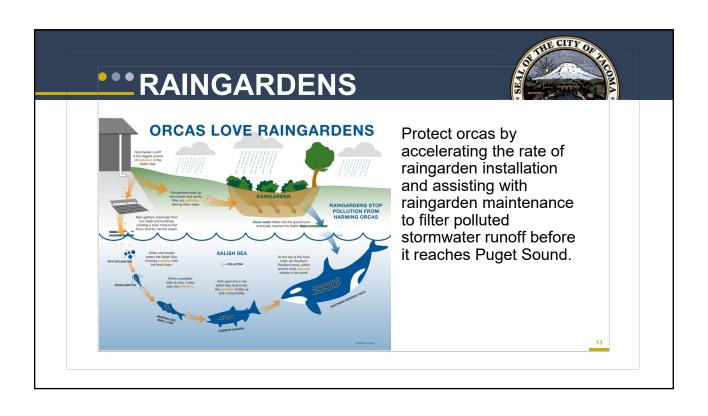
#### **Pavement Monitoring**

- Infiltration & Clogging
- Wear & Tear (Raveling)
- Cracking
- Ride & Performance

# **WATER QUALITY** · Water Quality Monitoring Standard Pervious Mix · Carbon Composite Fibers • Measure effluent for metals, hydrocarbons, and nutrient concentrations · Determine effluent toxicity to organisms















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