

### What is Porous/Permeable Pavement and what does it do? Why is it important?

Porous or permeable pavement comes in many forms: porous concrete, permeable asphalt, permeable pavers, permeable flow through pavers, interlocking pavers with porous voids, grasscrete, etc. By design, all these types essentially function the same by removing harmful pollutants while allowing stormwater to infiltrate into the surface and underlying soil like it would naturally. These facilities help prevent pollutants such as phosphorus, nitrogen, and heavy metals from entering our beloved Deschutes River and underground drinking water supplies while also helping to prevent localized flooding. They can also reduce glare and improve visibility in a rain event.

### Why is it important to maintain your Porous Pavement?

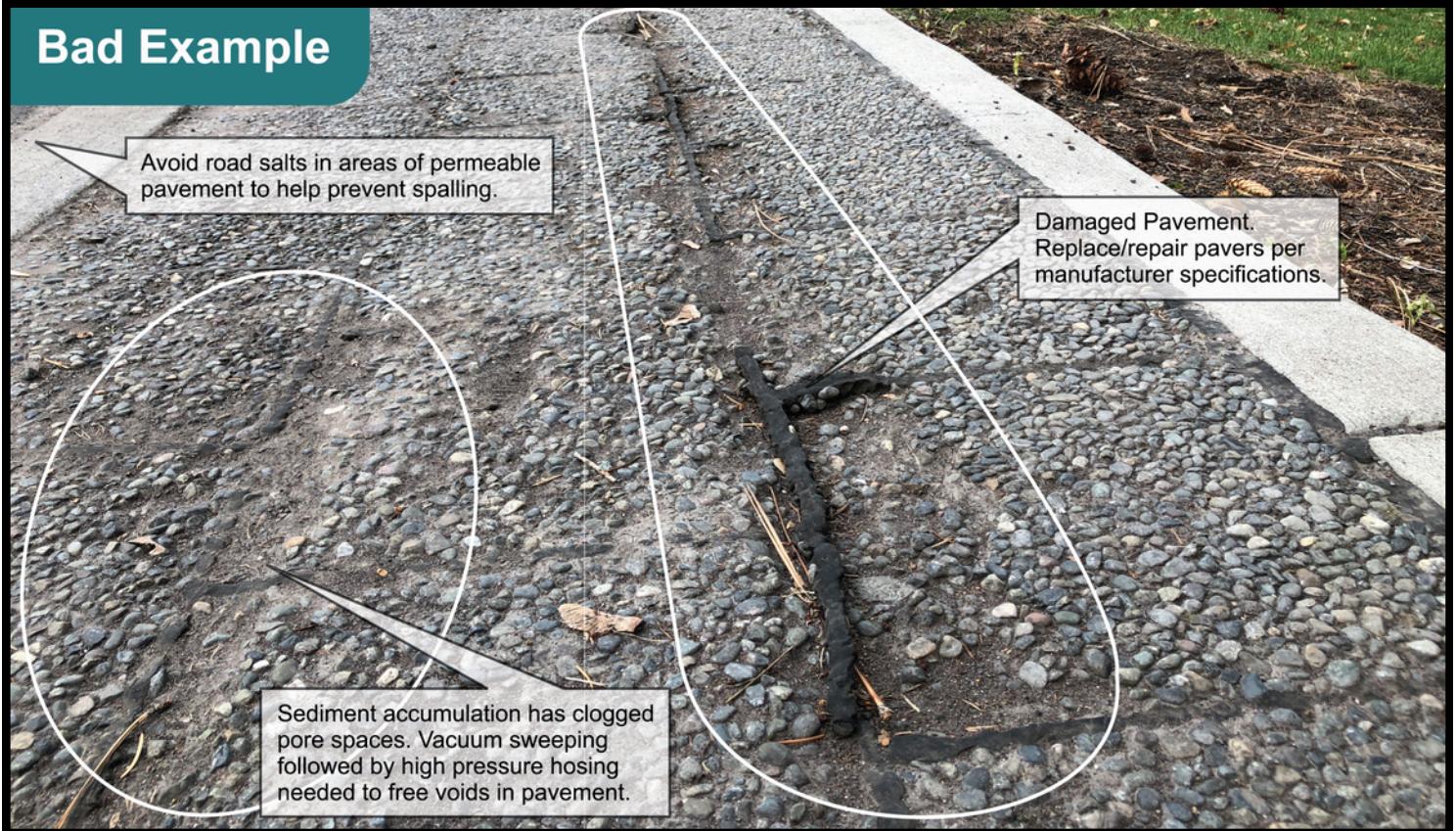
Without proper maintenance, porous pavement will clog and become less effective at removing pollutants and allowing stormwater infiltration. In Bend, our stormwater facilities serve an important function and property owners are required to keep and maintain them per Bend Code Title 16. Just remember, a few things will go a long way in the effort to keep our waters clean and to prevent localized flooding.

### What tools do you need?

For routine maintenance, all you need is a broom and dustpan to collect sediments and debris off the surface. For more intensive maintenance, vacuum sweeping followed by high pressure hosing is needed to free up pore spaces on the surface. Regular inspection of the porous pavement surface to watch for signs of wear and spalling, which may be caused by high traffic or sedimentation, is important. Carrying the attached checklist, a pen, and a copy of your site plan is a good way to ensure a complete inspection is performed.



## Bad Example



## Good Examples



# Porous Pavement Inspection and Maintenance Checklist

Property Address \_\_\_\_\_ Property Owner/Responsible Party \_\_\_\_\_

Facility Name/ID \_\_\_\_\_ Date of Inspection \_\_\_\_\_

Type of Inspection:  Pre-rainy Season  Monthly  Quarterly  Annual  Re-inspection

Inspector(s) \_\_\_\_\_ Email \_\_\_\_\_ Phone Number \_\_\_\_\_

Defect	Conditions when maintenance is needed	Maintenance needed? Yes/No	Comments <sup>1</sup>	Results expected when maintenance is performed
 Debris, organic matter & sediment	Porous pavement clogging due to debris, organic matter, and sediment			Vacuum sweep porous asphalt or concrete systems (with proper disposal of removed materials), followed by high pressure hosing to free pores on the surface and result in no clogging
 Contaminants and pollution	Any evidence of oil, gasoline, contaminants or other pollutants			No contaminants or pollutants present  Spills must be vacuumed immediately and followed by jet washing
 Erosion	Soil from adjacent areas washed onto pavement			Landscaped areas that are well maintained should prevent soil from eroding onto pavement
 Overflow Devices	Trash and debris accumulated on overflow devices			Trash and debris removed from overflow devices
 Vegetation	When the planted vegetation becomes excessively tall; when nuisance weeds and other vegetation start to take over			Vegetation mowed per specifications or maintenance plan, or nuisance vegetation removed so that flow is not impeded  Clippings removed from the porous pavement and disposed of appropriately
 Structural components	Cracked or moving edge restraints  Cracked or settled pavement			Repair or replace cracked or shifted components per manufacturer specifications  Prevent large root systems from damaging structural components
 Filter medium	Aggregate loss in pavers from settling or power washing			Replace paver pore space with aggregate from original design

<sup>1</sup>Describe maintenance completed; and if any needed maintenance was not conducted, note what is needed and when it will be done

## Additional Resources

City of Bend  
Stormwater Home Page

City of Bend  
Standards and Specifications



**CITY OF BEND**  
WATER SERVICES

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### Accommodation Information for People with Disabilities

To obtain this information in an alternate format such as Braille, large print, electronic formats, etc., please contact the City of Bend Stormwater Program at [stormwater@bendoregon.gov](mailto:stormwater@bendoregon.gov) or 541-317-3000 ext. 2.

