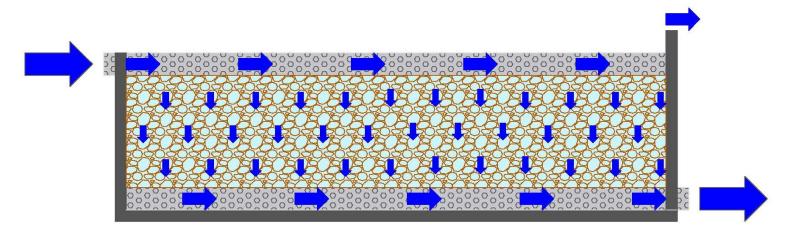




Oklahoma State University

- Research on landscape scale filters to remove dissolved Phosphorus
- Removal by flowing runoff water down through the filter media
 - Iron slag, acid mine drainage treatment residuals



Filter media has a functional life and must be replaced when spent







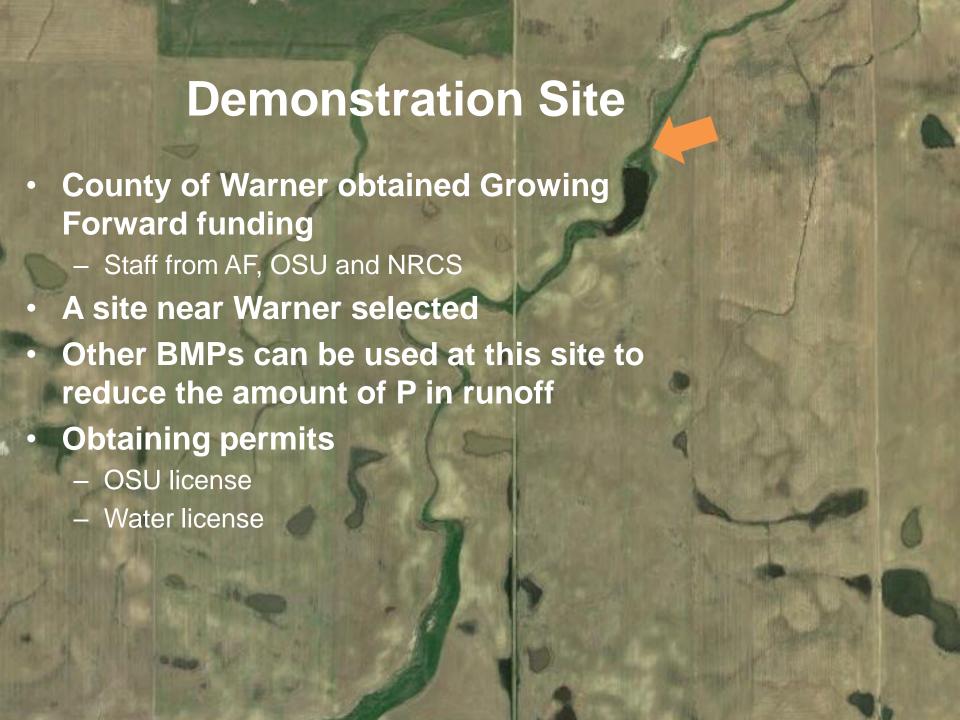






- Software developed by OSU to design filters
- Type of structure (bed, box, ditch)
- Water volume
- Peak flow
- **Dissolved Phosphorus concentration**
- Filter material properties
 - Hydraulic conductivity
 - Phosphorus binding capacity





Testing Alberta Conditions

- Larger watershed/ water volumes
- Filter media
 - Access to useable waste products
 - Man-made product
- Freeze/thaw effects





