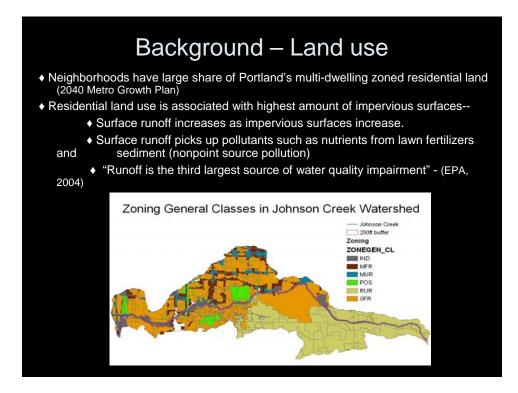


Background – Johnson Creek Watershed

- 54 square mile watershed.
- Population = 175,000.
- Last free-flowing stream in East Portland.
- Creek has been adversely affected by rapid urbanization (USGS)
- Inhabited by two endangered species.
- Listed as water quality impaired by the DEQ.





Background – Riparian Vegetation

- ◆ Removes soluble pollutants through filtration.
- ♦ Best Management Practice (BMP)
- ♦ Most effective for urban pollutants:

Sediment Nutrients

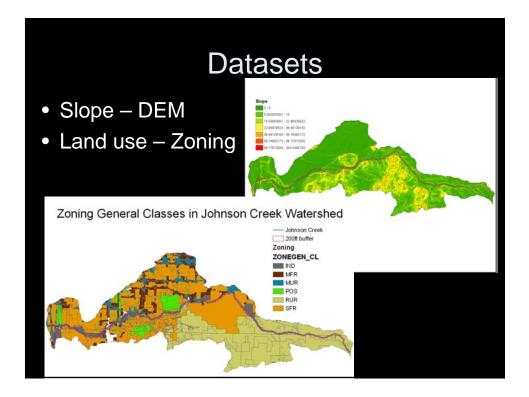
- ◆ Inexpensive to implement.
- ◆ Controls temperature.
- ◆ Reduces erosion.
- Creates habitat

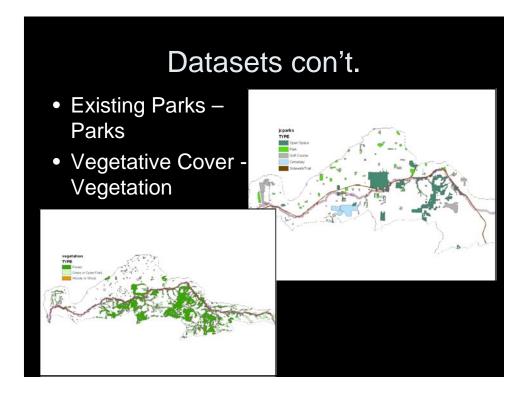


Site Characteristics

- Slope
 - <5 percent gradient, up to <15 percent
- Vegetative cover
 - Forest or Woody & Shrub
- Land use
 - Zoning Parks/Open Space
 - Residential zoning
- Existing public parks
- Stream distance - 50 ft. min., 200 ft preferred





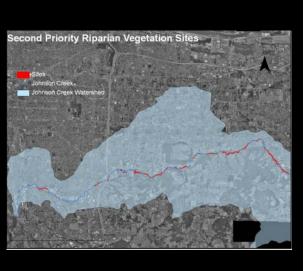


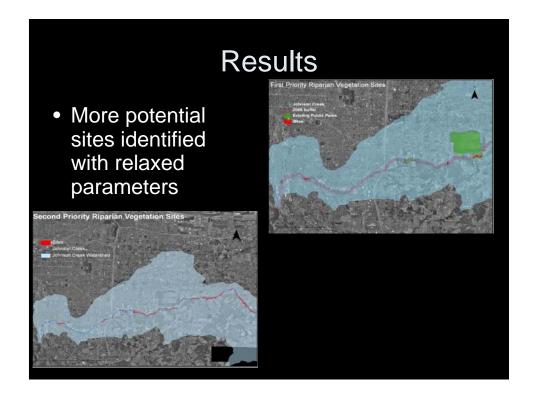
| Parameters: | | |
|--|--|------------------|
| | rst Priority Riparian Vegetation | Sites |
| – Forest cover | | |
| Existing parks | Johnson Creek | |
| - Zoned POS | Existing Public Parks | |
| 200 ft stream distance | | |
| Clip – watershed | | |
| Convert Features to | | and the second |
| Raster | | Lar + 1 - F |
| Reclassify | Man 1 | |
| – 1, 2, or 3 – 3 optimal | 1. And | All and a second |
| Weighted Overlay | | |
| Equal influence – 25% | | A CARE A LAND |
| Convert Raster to | and the second s | |
| Features | | |
| Clip – 200 ft. buffer | | |

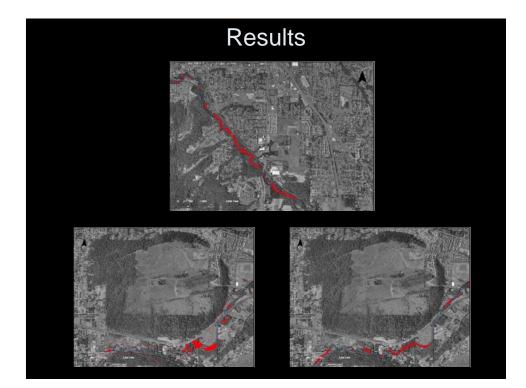
Second Priority Sites

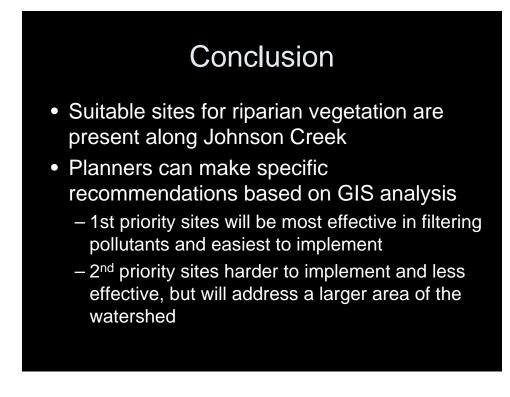
• Parameters:

- <15 percent slope</p>
- Forest, woody or shrub cover
 Zoned POS or
- Zoned POS or residential (MFR, SFR, MUR)
- 50 ft stream distance
- Convert Features to Raster
- Reclassify
 - 1, 2, or 3 3 optimal
- Weighted Overlay
 - Equal influence 33.3%
- Clip 50 ft. buffer









Questions, Suggestions?

- Valuable analysis?
- Existing riparian vegetation areas



Thank you!