

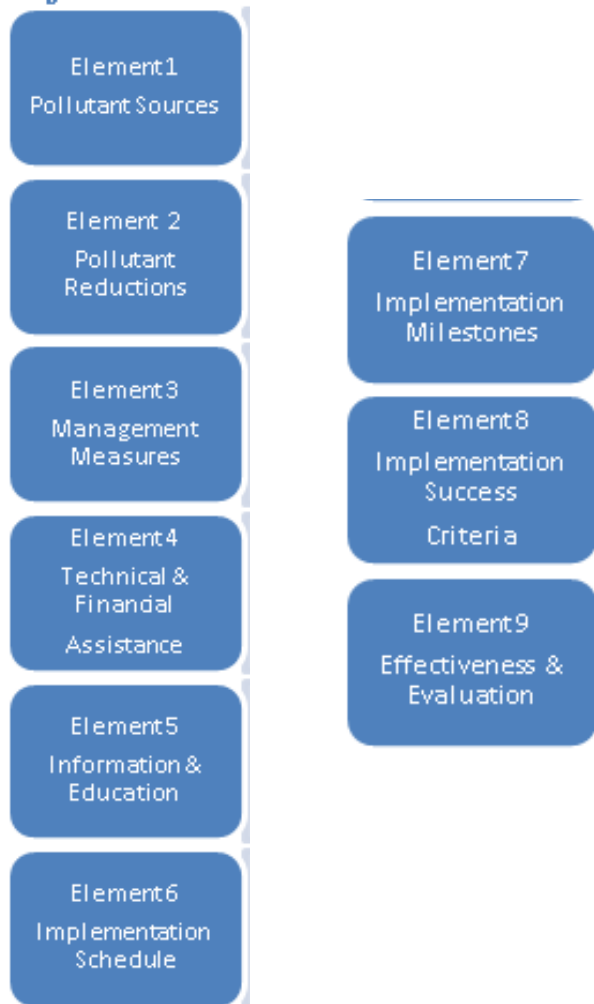


DANE COUNTY
LAND & WATER RESOURCES
DEPARTMENT

Door Creek Watershed Management Action Plan

Briefing for Dane County Committees, Commissions, and Councils.
August 18, 2015

Nine Key Element Plans



Why “nine key element” approach?

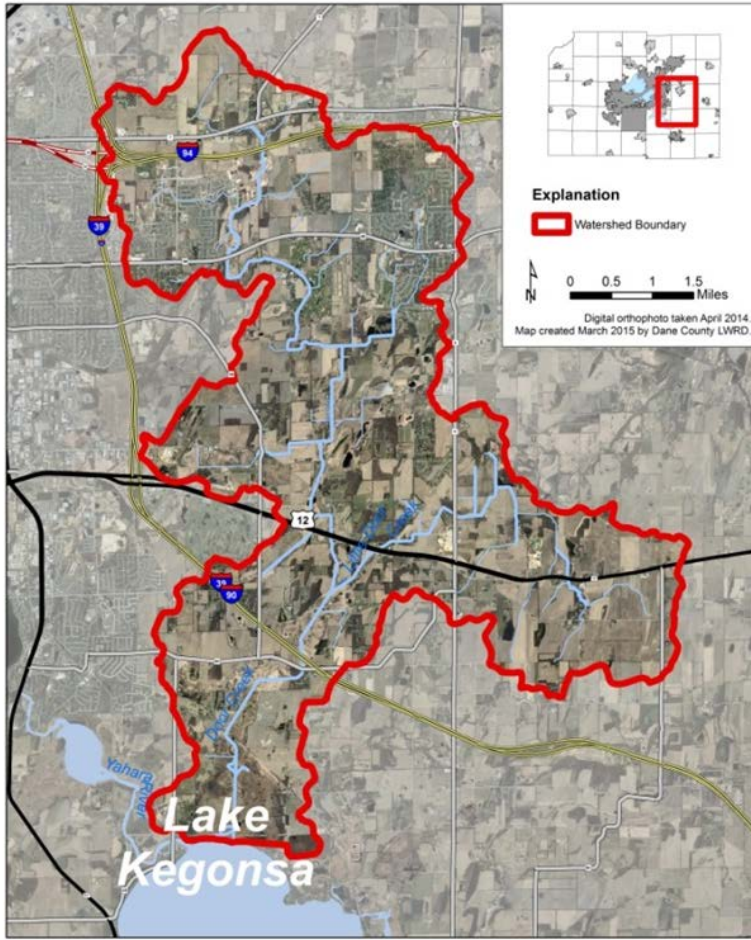
DNR/EPA approval process

Thank you!

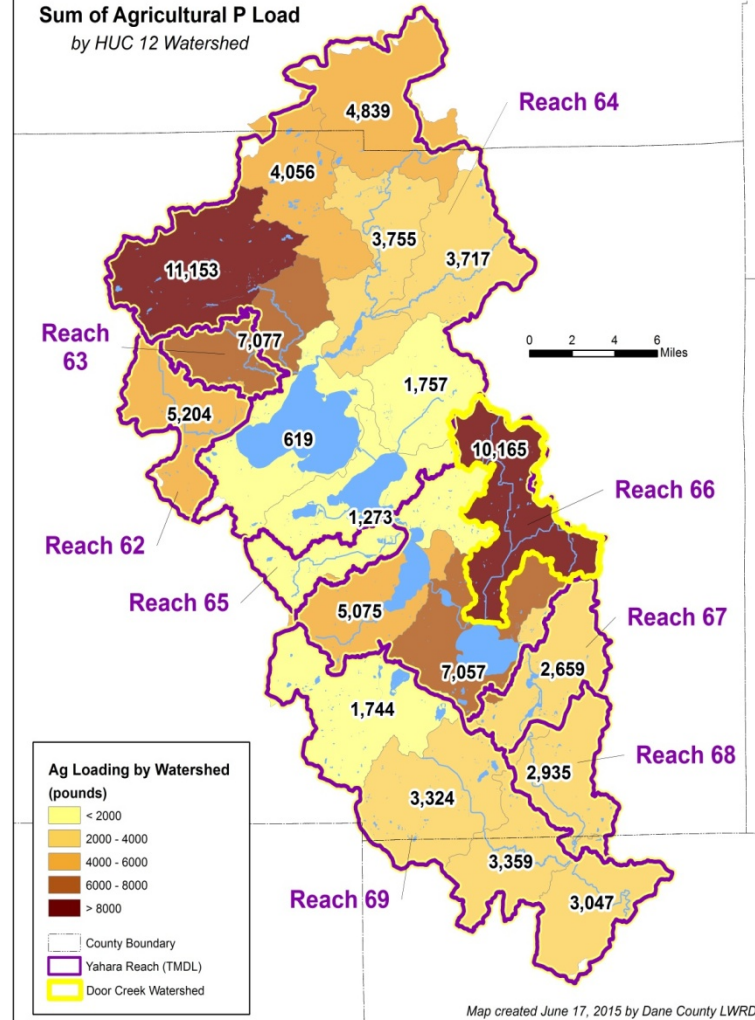


Overview of Draft Plan – Watershed Characteristics and Pollutant Sources

Door Creek Watershed



**Sum of Agricultural P Load
by HUC 12 Watershed**



Municipality	Acres in Door Creek
City of Madison	2,664
Village of Cottage Grove	1,214
Village of McFarland	4
Town of Blooming Grove	1,636
Town of Burke	306
Town of Cottage Grove	10,240
Town of Dunn	1,696
Town of Pleasant Springs	2,429
Town of Sun Prairie	314
TOTAL:	20,503



Primary Plan Goals

- ▶ ***Remove Door Creek's Impairments***
- ▶ ***Meet Door Creek's Phosphorus Water Quality Criterion***
 - ▶ pollutant of concern = phosphorus
 - ▶ 0.075 mg/L
- ▶ ***Restore Door Creek's Designated Use***
 - ▶ Current: Fish and Aquatic Life/Warmwater Forage Fishery (small fish which are preyed on by larger predators for food)
 - ▶ Potential for: Warmwater Sport Fishery (such as large and smallmouth bass, crappie, and bluegill)



Proposal for meeting goals and objectives

► Reduce P loads

Action	Indicators (unit of measure)	Total Number of Units	Estimated pounds of Phosphorus Reduced per Unit	Total Phosphorus Reduced
Management				
Conservation-Nutrient Management Plan Development/Review	number	90	0	0
Conservation-Nutrient Management Plan Implementation/Follow Up	number	45	30	1,350
Harvestable Buffers	feet	50,375	0.017	856
Structural				
Diversion	feet	3,950	0.14	553
Terrace	feet	1,800	0.02	36
Grassed Waterway	acres	23.8	30	714
Barnyard System	number	5	30	150
Innovative				
Legacy Sediment Removal	feet	3,000	0.2	600
Total Phosphorus Reduction				4,259

Proposal for meeting goals and objectives

- ▶ Implement information and education actions to influence adoption of urban and rural actions necessary to meet the water quality goals and objectives of this plan
- ▶ Reduce sediment loads (details in later plan update)
- ▶ Wetland/habitat actions - prioritizing wetland restorations for nutrient reduction benefit (details in later plan update)
- ▶ Monitor (in years 1, 5, and 10) baseflow, stormflow, fish and macroinvertebrates to measure implementation success



Next Steps

- ▶ We welcome your comments! (Wednesday by noon)
- ▶ Submit for DNR review by August 31
- ▶ County Board approval
- ▶ Begin community engagement
 - ▶ Streambank clearing workdays: September 12 and October 17
 - ▶ 9 a.m., Capital Water Trails partnership

