

Garrett County Department of Planning & Land Management North Glade Run Stormwater Assessment



Public
Meeting



September 25, 2015



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Study Objectives

- Develop Watershed Assessment Methodology & Evaluation Criteria
- Identify Stormwater Runoff Problems & Sources
- Rank Identified Stormwater Runoff Problems
- Provide Mitigation Strategies & Concept Sketches

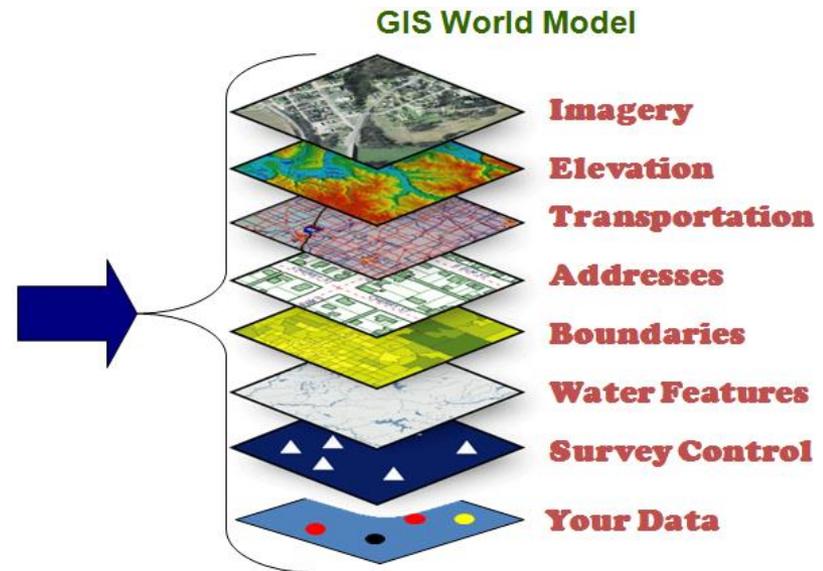


Watershed Assessment Methodology

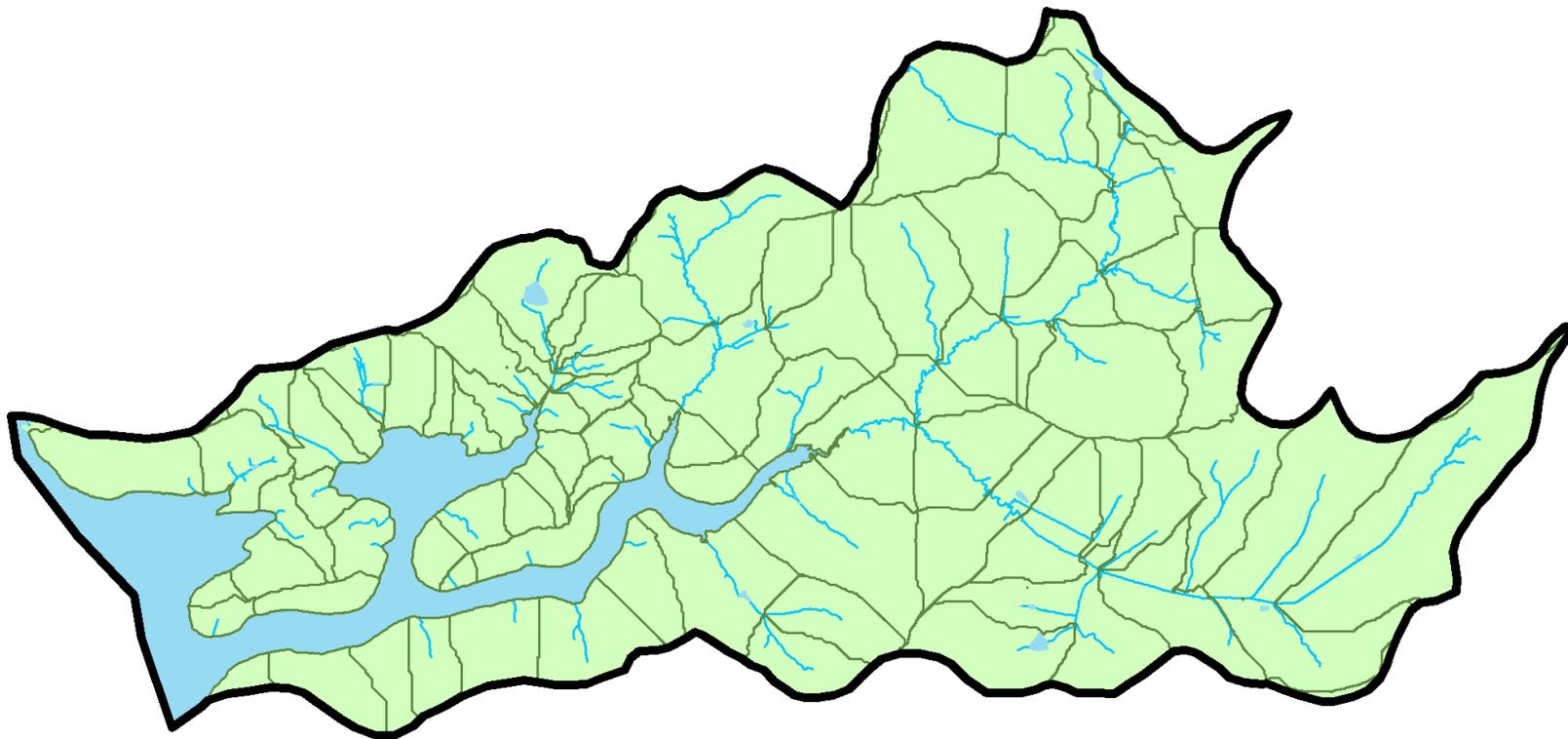
- GIS Desktop Analysis
 - Subwatershed Evaluation and Ranking
- Stormwater Management Practices
- Field Observations
 - Hot Spots Identification
 - Desktop Analysis Validation
- Concept Project Recommendations

Data Gathering

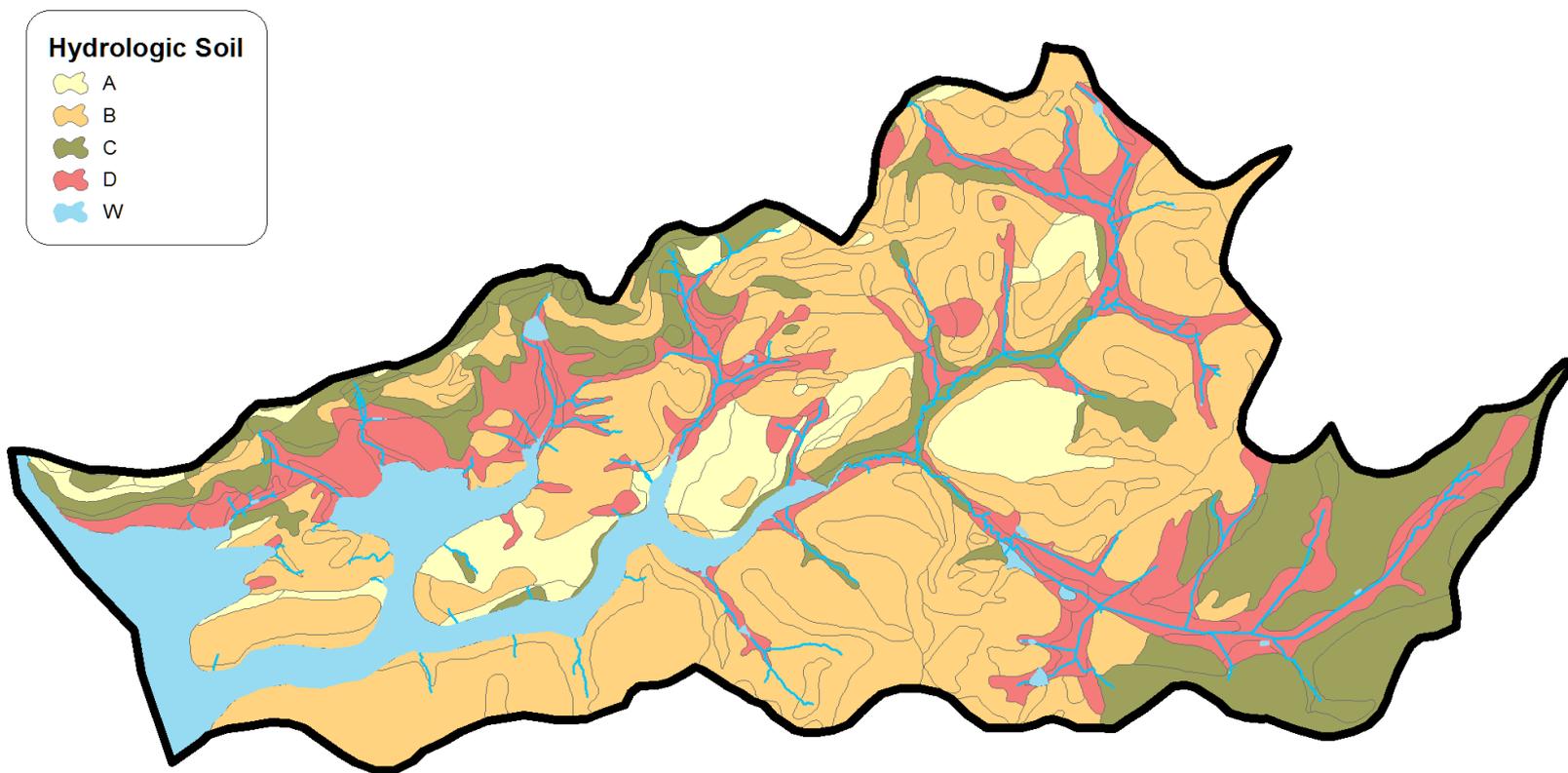
- County GIS Data
- Citizens' Feedback
- Field Investigations & Photo Log
- In-House Data Analyses
- GIS Database Management



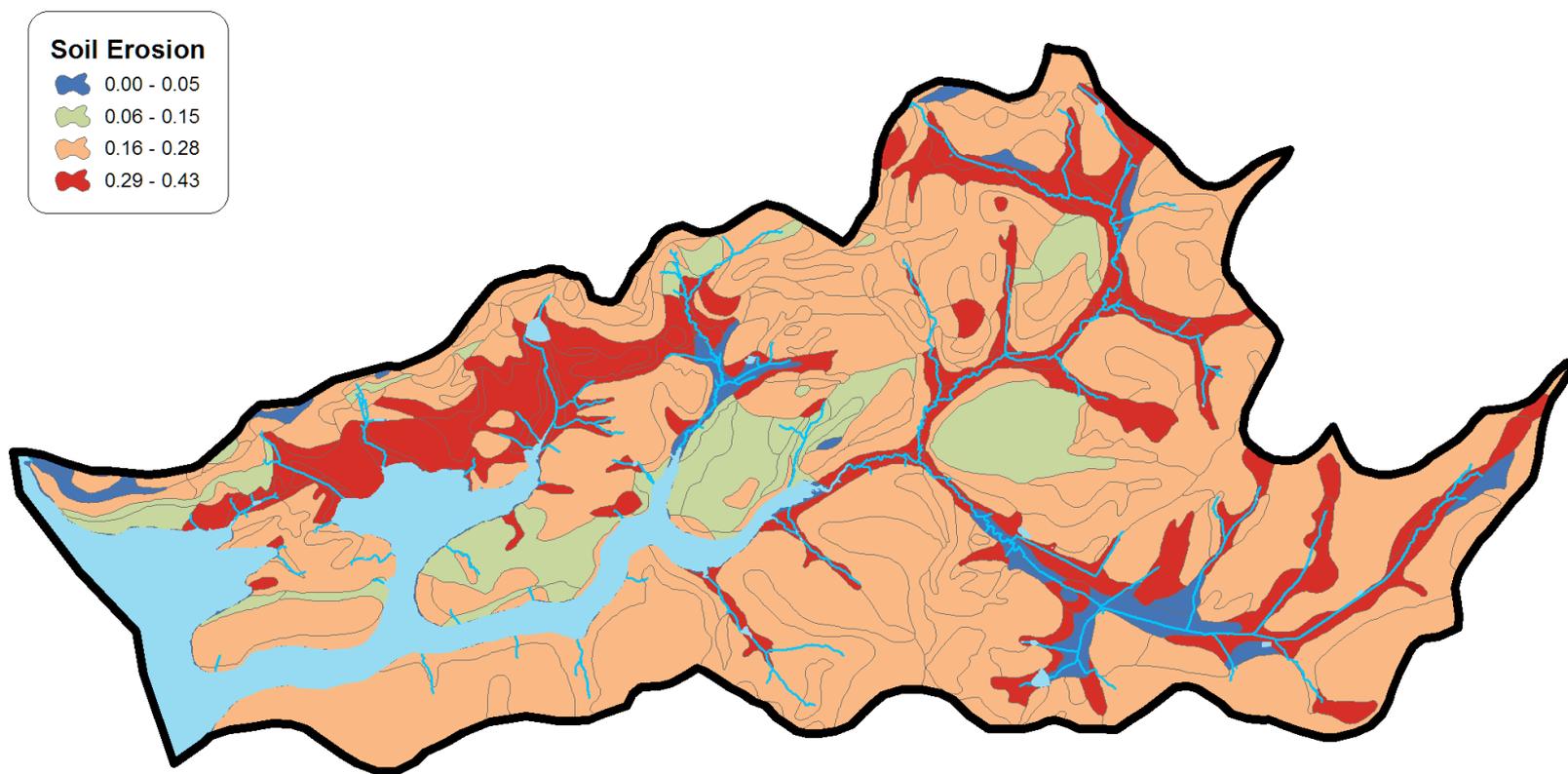
GIS Desktop Analysis - Subwatersheds



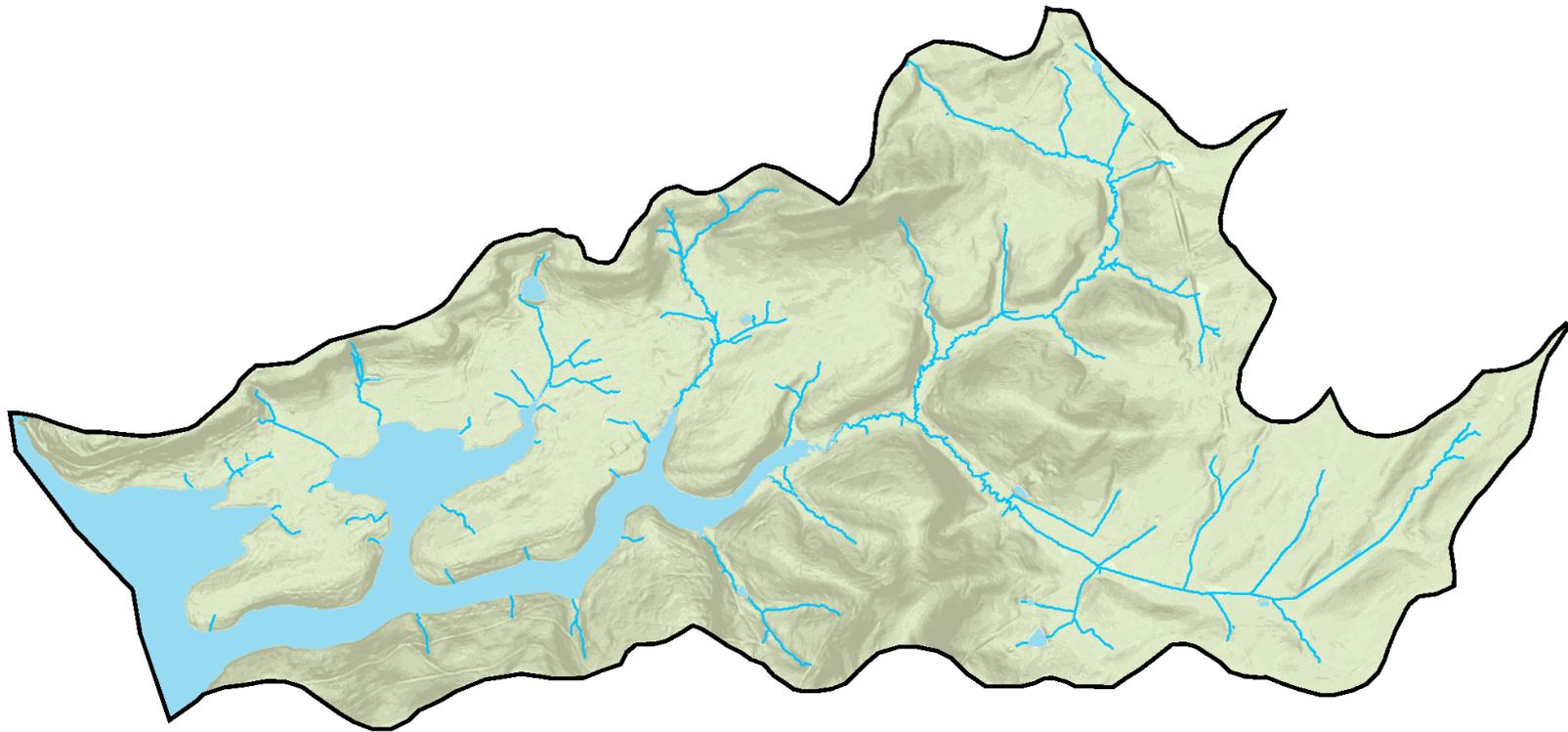
GIS Desktop Analysis – Hydrologic Soils



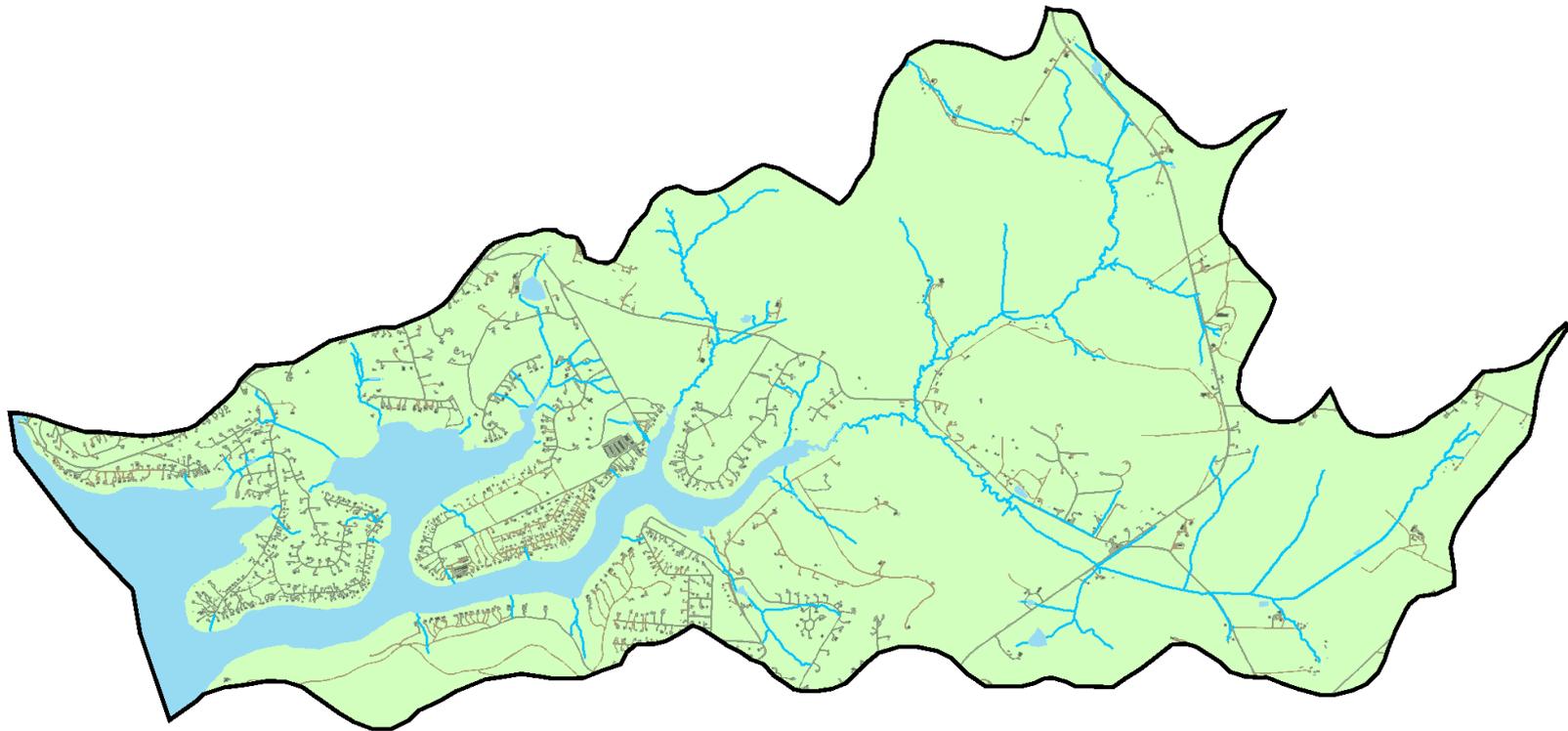
GIS Desktop Analysis – Soil Erosion Factor



GIS Desktop Analysis – Drainage Relief



GIS Desktop Analysis – Impervious Cover



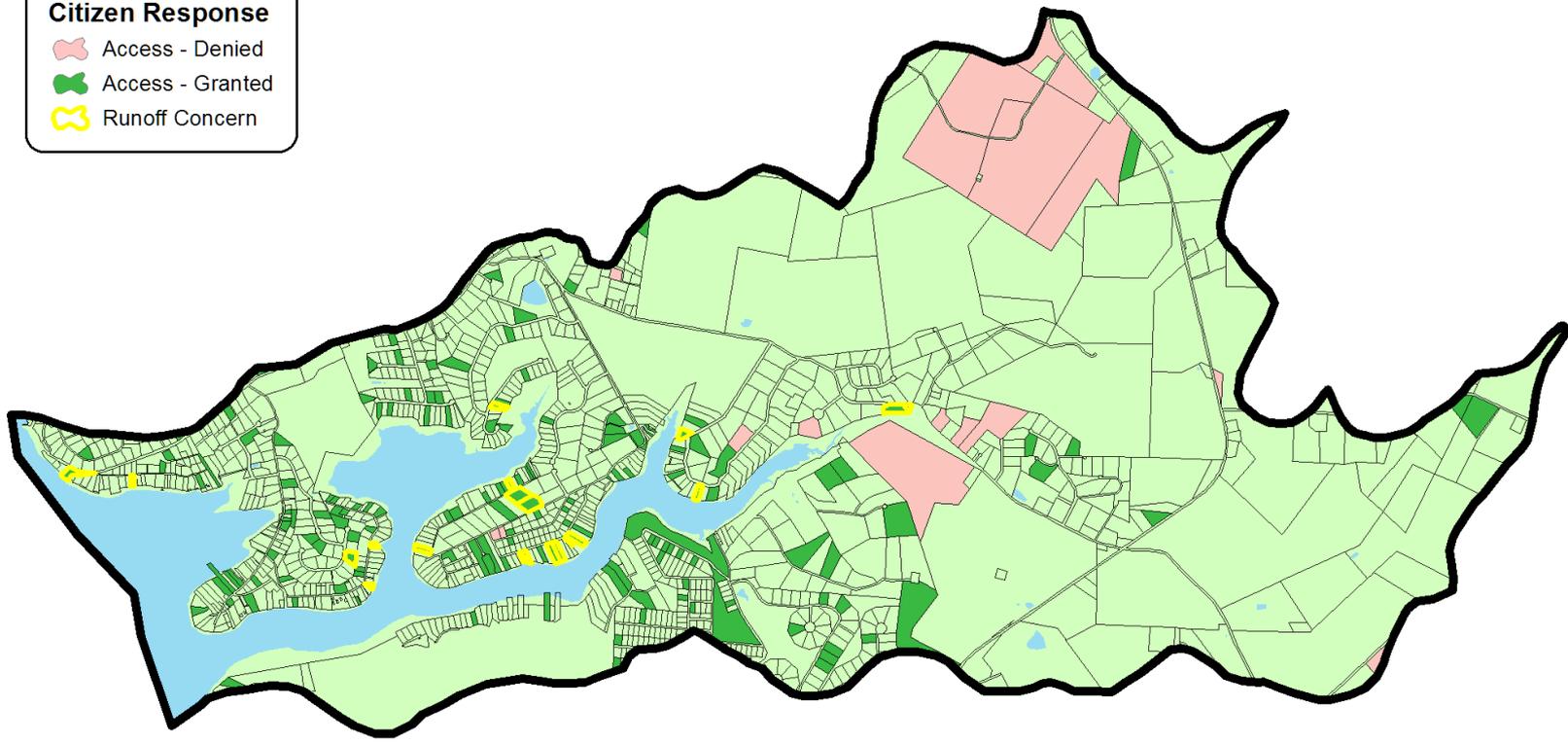
GIS Desktop Analysis – Ditch Parameter



GIS Desktop Analysis – Citizens Input

Citizen Response

- Access - Denied
- Access - Granted
- Runoff Concern



Watershed Summary Statistics

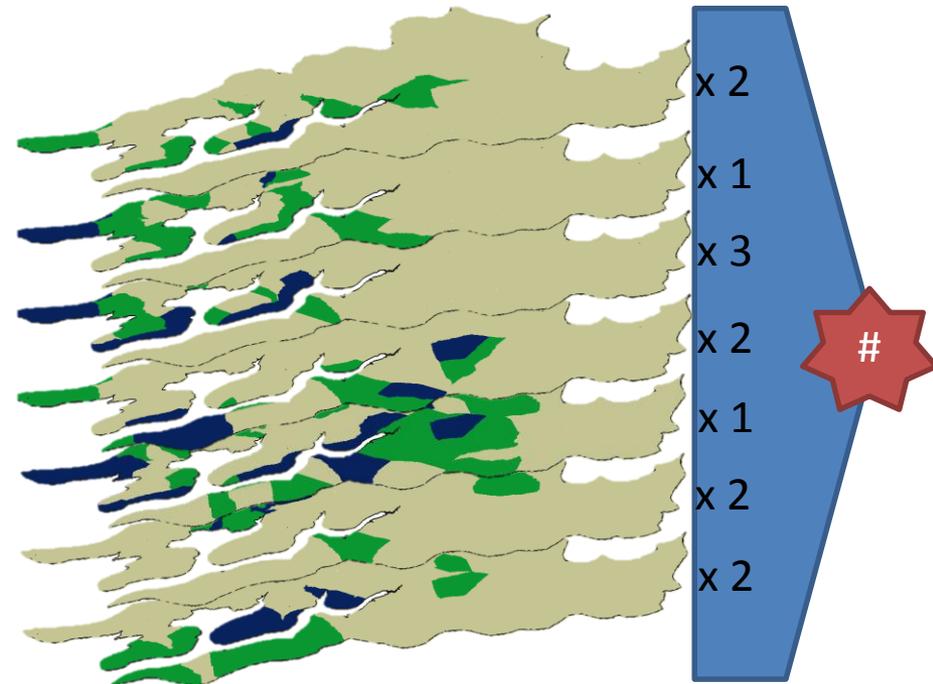
Statistics	HSG	Soil K	Max Relief	Mean Relief	Impervious %	Ditch Factor	Citizen Concern
Minimum	1.217	0.283	10.0	4.1	0.0	0.0	0
Maximum	3.783	0.397	60.0	15.4	32.8	1313.0	5
Average	2.372	0.364	31.1	9.3	6.3	262	0.2
Std. Dev.	0.552	0.017	10.4	3.4	5.5	287	0.7
20 th Percentile	1.997	0.371	40.0	13.1	9.9	502	0.0
Top Tier	1.660	0.390	40.0	14.5	12.8	823.3	All Concerns Matter
Second Tier	1.999	0.375	33.3	13.5	10.2	450.5	

Parameter Weight and Score Criteria

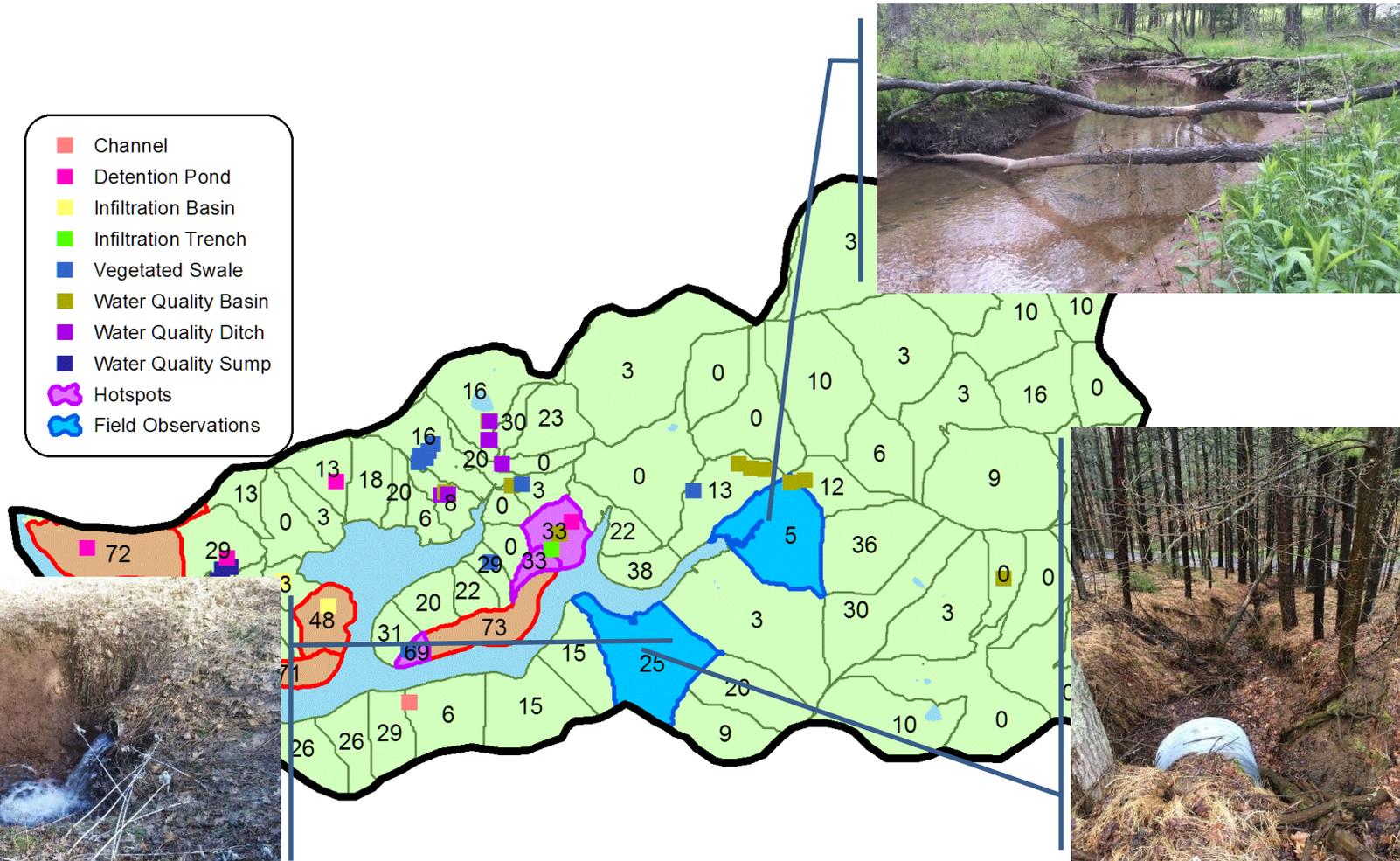
Parameter	HSG	Soil K	Max Relief	Mean Relief	Impervious %	Ditch Factor	Citizen Concern
Weight	2	2	1	2	3	1	2

Tier	Score
Top Tier	10
Second Tier	3

10
3

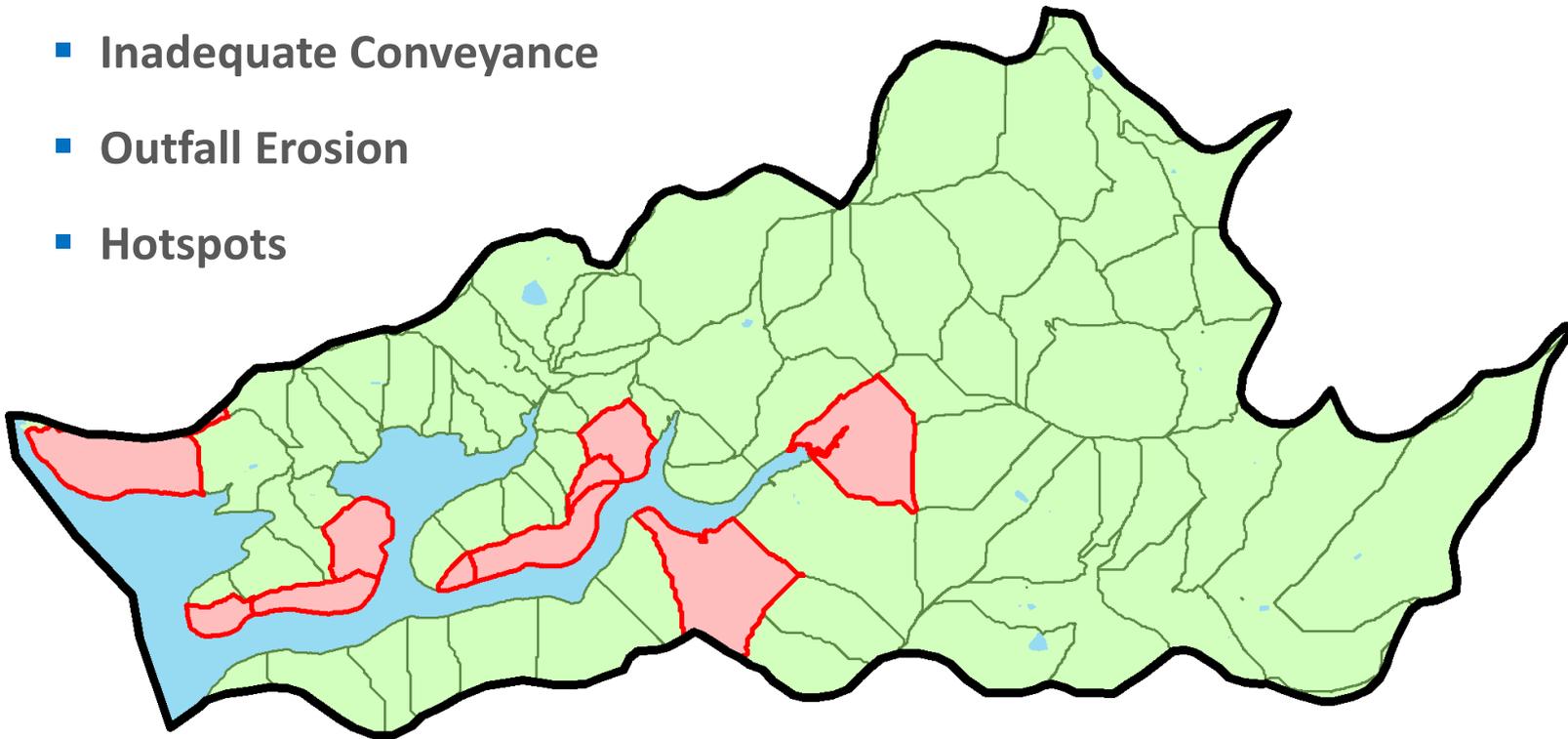


Field Observation & SWM Practices

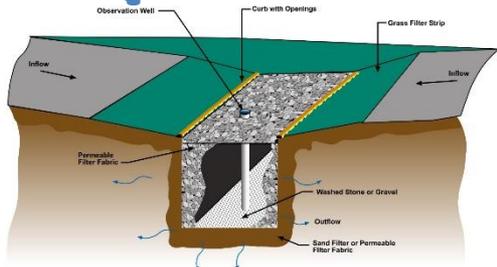


Prioritized Subwatersheds

- Erosion on Steep Slopes
- Inadequate Conveyance
- Outfall Erosion
- Hotspots



Improvement Techniques



INFILTRATION TRENCH

