St. Johns River Water Management District

Framework for Integrating Scientific Findings into Project Implementation and Management Programs

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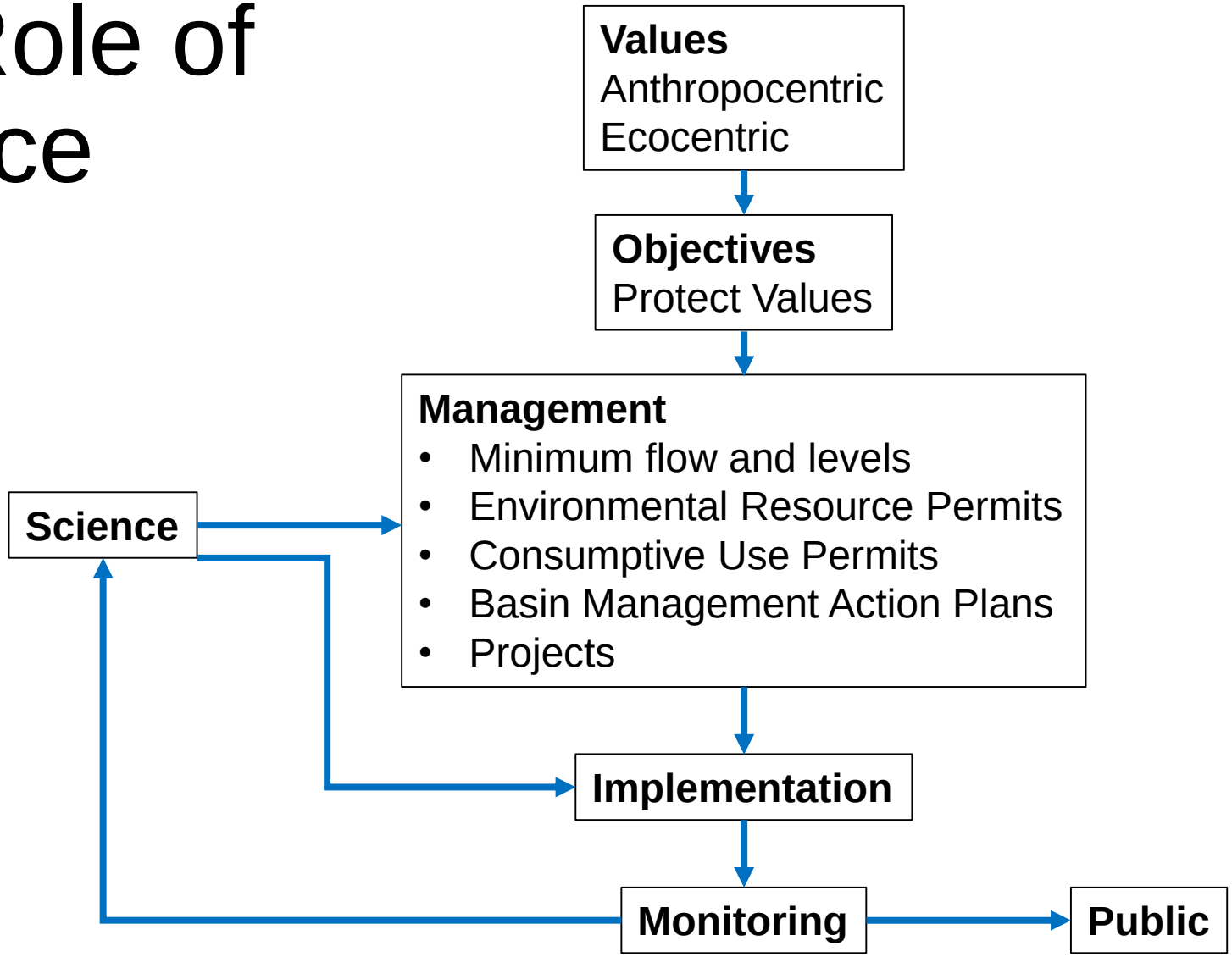
The Role of Science



Minimum Flows and Levels

Water Resource Values
(62-40, FAC)

1. Recreation in and on the water
2. Fish and wildlife habitat and the passage of fish WO#3 Physicochemistry WO#5 Biology
3. Estuarine resources
4. Transfer of detrital material WO#5 Biology
5. Maintenance of freshwater storage and supply WO#4 Groundwater
6. Aesthetics and scenic attributes WO#1 N Biogeochemistry WO#6 N Transport
7. Filtration and absorption of nutrients and other pollutants WO#1 N Biogeochemistry WO#6 N Transport
8. Sediment loads WO#3 Physicochemistry WO#2 H&H
9. Water quality WO#1 N Biogeochemistry WO#6 N Transport WO#3 Physicochemistry
10. Navigation

Silver Springs Basin Management Action Plan

2.1.4 ESTIMATED LOAD TO THE UFA WO#1 N Biogeochemistry WO#6 N Transport

3.2 AGRICULTURAL BMP IMPLEMENTATION WO#1 N Biogeochemistry WO#6 N Transport

3.3 SJRWMD SPRINGS PROTECTION INITIATIVE

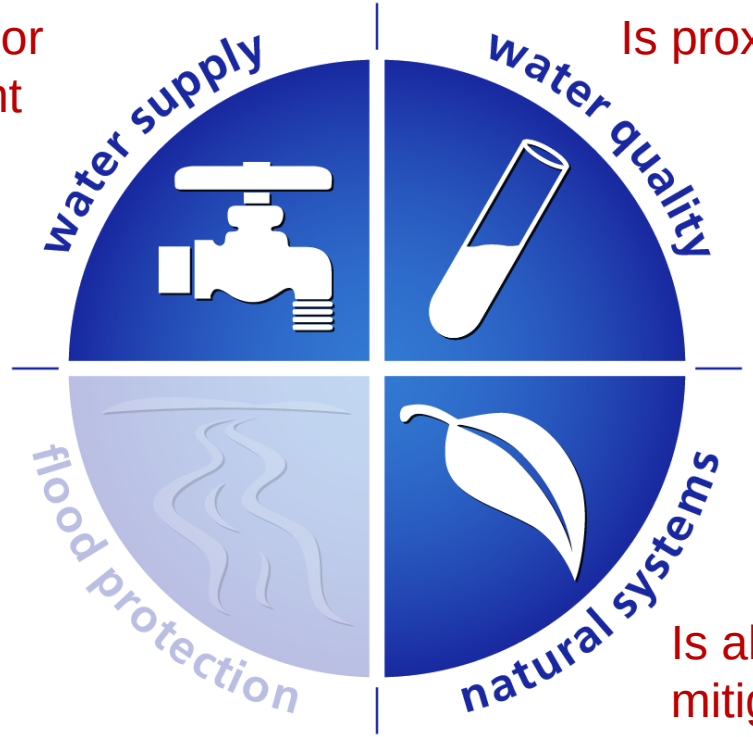
The findings of this research are expected to inform and direct the future BMAP process by aiding in the selection of additional management actions and increasing the understanding of the processes that transport and transform nitrate in the aquifer. The research results will be not available until 2017, and thus the outcomes of studies will most likely be integrated into the BMAP during its second phase.

4.2 WASTEWATER MANAGEMENT WO#4 Groundwater WO#1 N Biogeochemistry WO#6 N Transport

Cost-Share Projects

Ranking Competing Projects

Are there geographic areas or techniques that can augment spring flow?

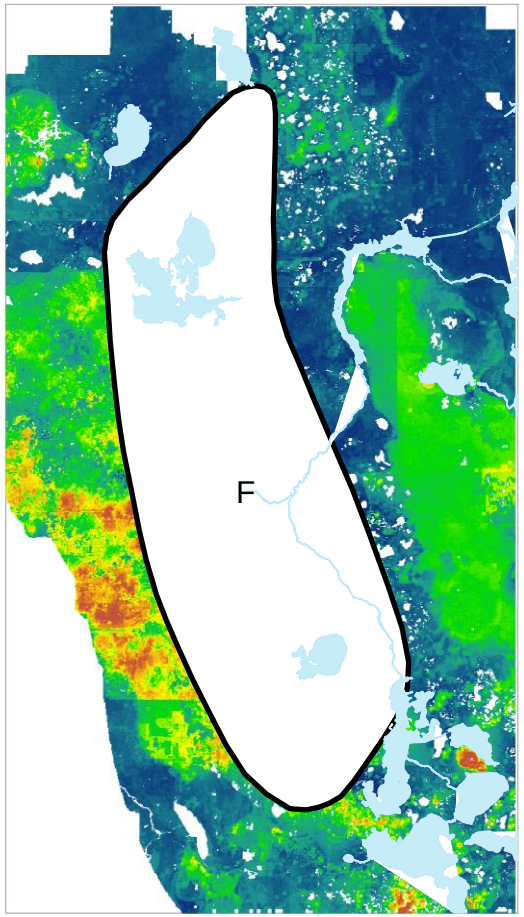


Is proximity to the spring important?

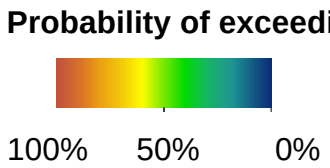
Is algae harvesting a viable mitigation tool?

Cost-Share Projects

Planning



Specific Aquifer Vulnerability



Provide guidance to cost-share applicants to help site projects in springsheds that have the greatest potential for remediation or preservation