



Keeping Your Facility Above Water: How Water Quality Regulations May Affect the Golf Business

Chava E. McKeel

GCSAA Senior Manager, Information & Public Policy

**“Sierra Club fights for continued rainy season fertilizer ban”
(02/03/12)**

**“Connecticut lawmakers propose limits on lawn fertilizers”
(02/07/12)**

**“Indiana moving slowly on lake phosphorus rules”
(01/29/12)**

**“EPA gives mixed grades on Chesapeake Bay cleanup plans”
(02/18/12)**

**“WA governor signs bill limiting phosphorus fertilizer”
(04/14/11)**



This Is What They See



But Do They Know...

Golf is a professionally managed land use.

Golf course turf is valuable green space in the watershed.



National Scope of the Problem

- **Almost 16,000 waters are impaired by nutrient-related pollution.**
 - **101,461 miles of rivers and streams**
 - **2.5 million acres of lakes and reservoirs**
 - **833 square miles of bays and estuaries**
- **USGS' *Nutrients in the Nation's Streams and Groundwater* (September 2010) report found that:**
 - **50% of U.S. streams have medium to high levels of nitrogen and phosphorus**
 - **78% of assessed coastal waters exhibit eutrophication**

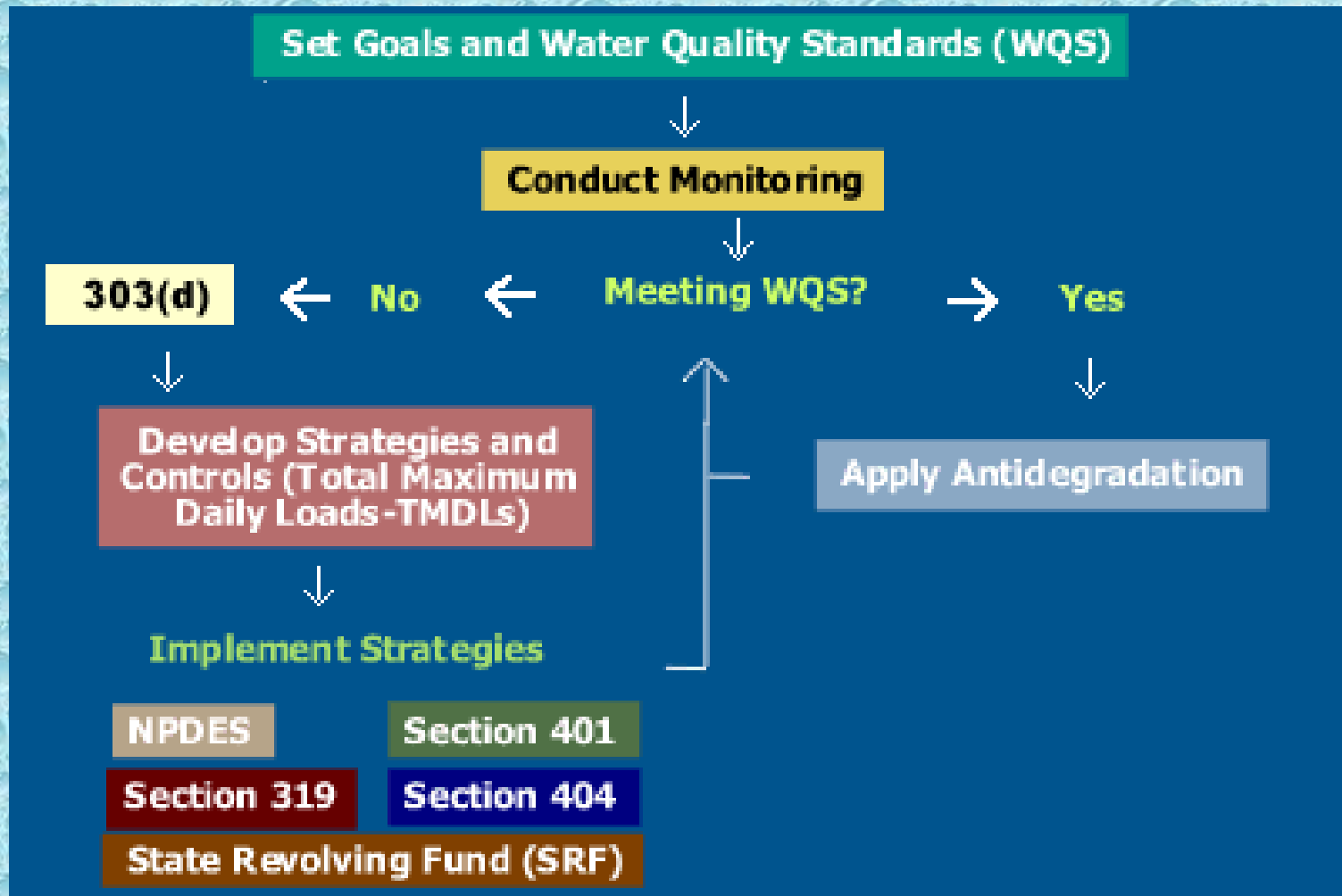
Primary Sources of Nitrogen and Phosphorus Pollution

- Row crop agriculture
- Agricultural livestock
- *Urban and suburban stormwater runoff*
- *Lawn fertilizer*
- Municipal wastewater treatment systems
- Atmospheric deposition

Federal laws, politics, activists, and conservationists driving increase in regulations!



Clean Water Act a major driver.



Chesapeake Bay Watershed



- **Obama EO sets aggressive goals for restoring health of the Bay.**
- **EPA/states cracking down on fertilizers.**
- **Watershed cleanup efforts a “model” for rest of the country.**

State Laws to Restrict the Use of Fertilizers

Minnesota Phosphorus Turf Fertilizer Restrictions	2004
Maine Protection and Improvement of Waters	2007
Wisconsin Turf Fertilizer Restrictions Law	2009
Michigan Public Act 299	2010
Illinois Lawn Care Products Application and Notice Act	2010
New York Dishwasher Detergent and Nutrient Runoff Law	2010
Florida Fertilizer Statutes	2010
Maryland Fertilizer Use Act of 2011	2011
Virginia Fertilizer Act	2011
New Jersey Fertilizer Law	2011
Vermont Turf Fertilizer Law	2011
Washington State Clean Fertilizers, Healthier Lakes and Rivers Law	2011

A close-up photograph of a golf green. A yellow flagstick is in the hole on the left. A white golf ball with blue and red markings is on the green in the lower center. The grass is vibrant green and well-maintained. The text is overlaid in white, bold font.

**GCSAA and Golf Course
Superintendents Are Focused
On Water Quality Issues.**

**Ensure Your License
To Do Business!**



Thank You

Chava E. McKeel

GCSAA Senior Manager, Information & Public Policy

cmmckeel@gcsaa.org

(800) 472-7878, ext. 3610