



IOWA DEPARTMENT OF NATURAL RESOURCES

LEADING IOWANS IN CARING FOR OUR NATURAL RESOURCES

Triennial Review 2021-2023

Overview

- Triennial Review
- Water Quality Standards and Designated Uses
- Potential topics for the Triennial Review
- Discussion/Comments/Questions

Triennial Review: Background

- Mandated in the Clean Water Act
- Occur at least once every three years
- Public hearings held to review applicable Water Quality Standards
- Designed to be a tool for the public to have an active role in their State's Water Quality Standards Program

Triennial Review: Timeline

- General timeline
 - Internal DNR Stakeholder Meeting (April 2021)
 - External Stakeholder Meeting (today)
 - Organization of Comments
 - DNR Selection of Priorities and Drafting Work Plan
 - EPA Improvement Process
 - Begin Rulemaking
 - Start Cycle All Over Again

Water Quality Standards

- Define the water quality goals of a water body
- Accomplished through the following:
 - Designating the use/uses to be made of the water (aquatic, recreational, etc.)
 - Setting criteria necessary to protect the uses
 - Antidegradation, preservation of water quality

Designated Uses

- **Aquatic Life Uses**

- Warm water Uses

- B(WW-1)
- B(WW-2)
- B(WW-3)

- Cold water Uses

- B(CW-1)
- B(CW-2)

- Lakes & Wetlands Uses

- B(LW)

- **Recreational Uses**

- A1: Primary Contact
- A2: Secondary Contact
- A3: Children's Play

- **Drinking Water Uses**

- Class C

- **Human Health (HH)**

- **General Use**



Overview of Tentative Triennial Review Topics

- Surface Water Classification (SWC) Document Corrections
- Use Attainability Analysis (UAA)
- Antidegradation Policy Update
- Chapter 61, Table 1 Cleanup

Surface Water Classification (SWC) Document

- Document that lists stream segments and their designated uses
- Rule referenced document
 - Requires rule making to change
- Updates/Corrections
- Matching ADBNet

Western Iowa River Basin - Designations

#	Name	Description	A1	A2	A3	B (WW-1)	B (WW-2)	B (WW-3)	B (LW)	B (CW1)	B (CW2)	HH	C	IDNR Submittal	EPA Action
1	<u>MAJOR RIVER - MISSOURI R. AND ITS TRIBUTARIES</u> Missouri R.	Iowa-Missouri state line to confluence with the Big Sioux R.	X			X						X			
2	Missouri R.	City of Council Bluffs Water Works Intakes											X		
3	<u>PLUM CR. AND ITS TRIBUTARIES</u> Plum Cr.	Mouth (S6, T69N, R43W, Fremont Co.) to confluence with an unnamed tributary (S29, T70N, R42W, Fremont Co.)	X				X								
4	<u>WAUBONSIE CR. AND ITS TRIBUTARIES</u> Waubonsie Cr.	Mouth (S8, T70N, R43W, Fremont Co.) to confluence with an unnamed tributary (S25, T71N, R43W, Mills Co.)	X				X								

Use Attainability Assessments: Background

- Why do we do them?
- Process to gather field data on stream features and uses
 - Water depth, pictures, fish sampling, etc.
- Analysis of field data to determine appropriate uses streams can support
- Recommendation for appropriate designated uses

Use Attainability Assessments: Triennial Review

- Right now:
 - Moving existing uses through rulemaking
- In the future:
 - Getting through the backlog of UAAs required for permits
 - Updating cold/warm water rule-referenced protocols
 - Updating the GIS layer

Antidegradation: Background

- Keep clean water clean
- Four Tiers:
 - Tier 1: maintain uses
 - Tier 2: maintain existing quality
 - Tier 2 ½: Outstanding Iowa Waters
 - Tier 3: Outstanding National Resource Waters
- If there is a plan to discharge a new pollutant or more of an existing pollutant, we ask that an alternatives analysis is performed to choose the least- (or non-) degrading, most cost-efficient/practical option.

Antidegradation: Triennial Review

- What needs done
 - Update
 - Begin review from lessons learned in the last two decades



Chapter 61 Table 1

Parameter		Use Designations							
		B(CW1)	B(CW2)	B(WW-1)	B(WW-2)	B(WW-3)	B(LW)	C	HH
Alachlor	MCL	—	—	—	—	—	—	2	—
Aldrin	Acute	—	—	3	3	3	—	—	—
	Human Health — Fish	—	—	—	—	—	—	—	.00050 ^(e)
	Human Health + — F & W	—	—	—	—	—	—	—	.00049 ^(f)
Aluminum	Chronic ^(t)	890 ^(o)	—	890 ^(o)	890 ^(o)	890 ^(o)	890 ^(o)	—	—
	Acute ^(t)	2,500 ^(o)	—	2,500 ^(o)	2,500 ^(o)	2,500 ^(o)	2,500 ^(o)	—	—
Antimony	Human Health — Fish	—	—	—	—	—	—	—	640 ^(e)
	Human Health + — F & W	—	—	—	—	—	—	—	5.6 ^(f)
Arsenic (III)	Chronic ^(p)	150	—	150	150	150	150	—	—
	Acute ^(p)	340	—	340	340	340	340	—	—
	Human Health — Fish	—	—	—	—	—	—	—	50 ^{(e)(g)}
	Human Health — F & W	—	—	—	—	—	—	—	.18 ^{(f)(g)}
Asbestos	Human Health — F & W	—	—	—	—	—	—	—	7 ^{(a)(f)}

Discussion/Comments/Questions

- What would you like addressed and why?
 - What are your ideas for how to change it?
- How does this affect you?
- Other?
- Consensus on change?

Contact Information

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