Nutrient Work Group

February 26, 2024



Welcome!

- This meeting is a webinar
- NWG members will be panelists
- Members of the public can raise their hand or use the Q&A feature to ask questions during the public comment portion of the meeting
- *9 raises your hand if you're on the phone
- State your name and affiliation before providing your comment

Question and Answer — — X
Welcome to Q&A Questions you ask will show up here. Only host and panelists will be able to see all questions.
Type your question here
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Chat Raise Hand Q&A









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Agenda

Meeting Goal: Discuss the new rulemaking timeline, reasonable potential analysis, and have a Q&A session to answer questions on the rulemaking documents.

Preliminaries• Nutrient Work Group Roll CallRulemaking Timeline UpdateReasonable Potential AnalysisRulemaking Documents Q&A

Public Comment & Close of Meeting

Public comment



Roll Call Nutrient Work Group Members

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Interest Group	Representative	Substitute
Point Source Discharger: Large Municipal Systems (>1 MGD)	Louis Engels	
Point Source Discharger: Middle-Sized Mechanical Systems (<1 MGD)	Shannon Holmes	
Point Source Discharger: Small Municipal Systems with Lagoons	Rika Lashley	
Point Source Discharger: Non-POTW	Alan Olson	
Municipalities	Kelly Lynch	
Mining	Matt Vincent	
Farming-Oriented Agriculture	Karli Johnson	
Livestock-Oriented Agriculture	Ellie Brighton	
Conservation Organization - Local	Kristin Gardner	
Conservation Organization – Regional	Sarah Zuzulock	
Conservation Organization – Statewide	David Brooks	
Environmental Advocacy Organization	Guy Alsentzer	
Water or Fishing-Based Recreation	Pete Cardinal	
Federal Land Management Agencies	Andy Efta	
Federal Regulatory Agencies	Tina Laidlaw	
State Land Management Agencies	Jeff Schmalenberg	
Water Quality Districts / County Planning Departments	Nick Banish	
Soil & Water Conservation Districts – West of the Continental Divide	Samantha Tappenbeck	
Soil & Water Conservation Districts – East of the Continental Divide	Dan Rostad	
Wastewater Engineering Firms	Scott Buecker	
Timber Industry	Julia Altemus	



Rulemaking Timeline Update



2021 to 2023 - Conceptual review and initial drafting

November 14, 2023 - Final NWG meeting of 2023

December 5, 2023 - Provide materials to WPCAC

December 13, 2023 - Rulemaking presentation to WPCAC

January 16, 2024 - Rulemaking overview to WPIC

January 26, 2024 - Rulemaking update to WPCAC

March 8, 2024 – Revised rule package to NWG and WPCAC

March 15, 2024 - Rulemaking update to WPCAC

March 18, 2024 - Rulemaking overview to WPIC

April 16, 2024 - File proposal notice with SOS

April 26, 2024 - Proposal notice published in MAR

April 26 - June 10, 2024 - Public comment period

June 10, 2024 - Public hearing

Respond to comments; modify adoption notice



September 24, 2024 - File adoption notice with SOS

October 4, 2024 - Adoption notice published in MAR

Rulemaking Timeline

* Dates subject to change

NWG = Nutrient Work Group

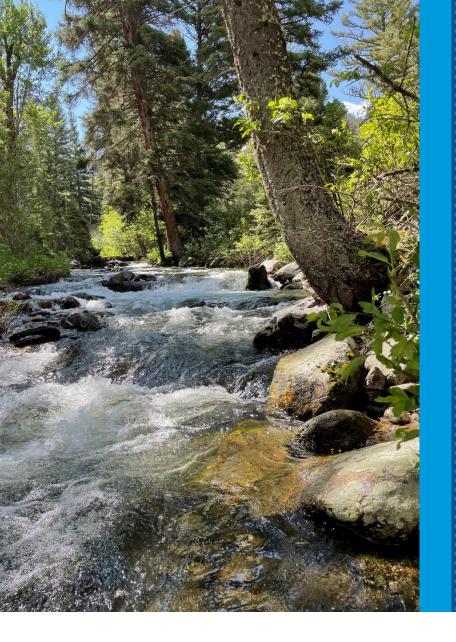
WPCAC = Water Pollution Control Advisory Council

WPIC = Water Policy Interim Committee

SOS = Secretary of State

MAR = Montana Administrative Record





Reasonable Potential Analysis



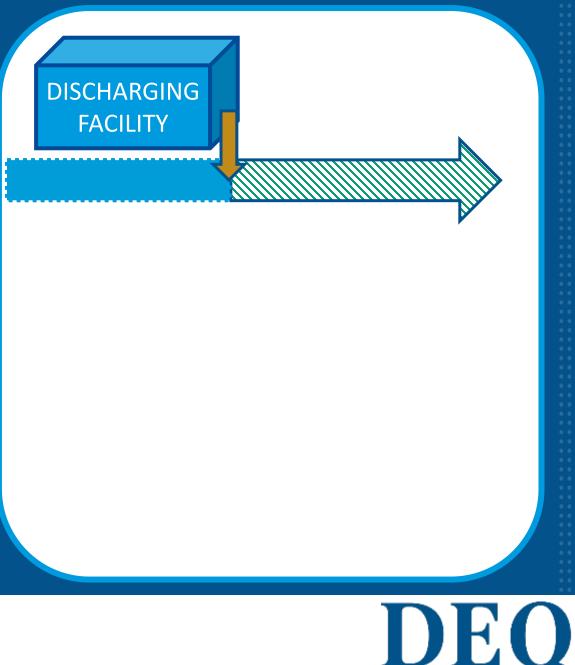
DISCHARGING

FACILITY

- 40 CFR 122.44(d)(1)(i)



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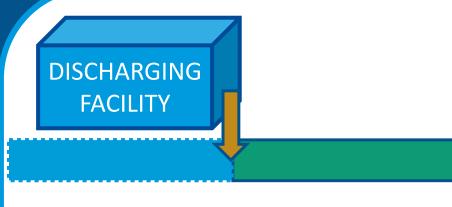
DISCHARGING

FACILITY

- 40 CFR 122.44(d)(1)(i)



- 40 CFR 122.44(d)(1)(i)



Quantitative RP, calculated using a mass-balance approach, with preestablished critical conditions: $C_sQ_s+C_eQ_e=C_dQ_d$



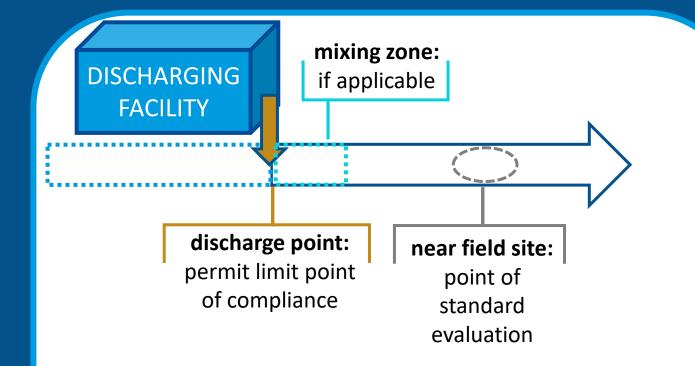
- 40 CFR 122.44(d)(1)(i)

DISCHARGING FACILITY

Quantitative RP, calculated using a mass-balance approach, with preestablished critical conditions: $C_sQ_s+C_eQ_e=C_dQ_d$

This approach is workable for causal variables, but not for response variables.





Ecoregion: 17. Middle Rockies **Stream Slope Zone:** low valley & transitional, <1% slope

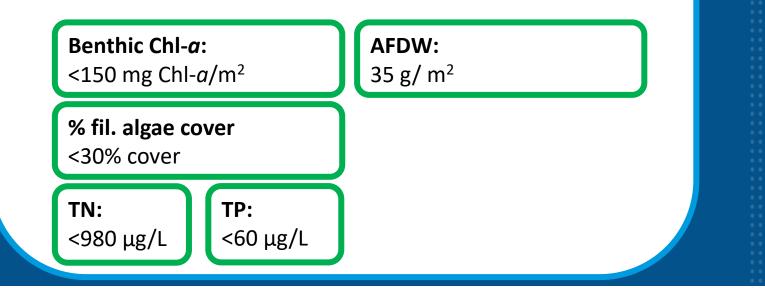


Benefical Use and Applicable Zone			Causal Variable	Causal Variable Response Variable (threshold)					
Beneficial Use	Stream Slope Zone*	TP, TN (see Macroinvertebrate ecoregional nutrient Zone* concentration ranges in Table 2-3)		DO Delta [†]	Benthic Chl <i>a</i> ; AFDW	% filamentous algae bottom cover	Macroinvertebrates		
Recreation	Western and transitional ecoregions, <u>all</u> stream/medium river water surface slopes	n/a	х		X (150 mg Chla/m ² ; 35 g AFDM/m ²)	X (30% cover)			
Aquatic Life	Western and transitional ecoregions, streams/medium rivers with ≤1% water surface slope	Low Valleys and Transitional ^a	x	X (3.0 mg DO/L)			X Beck's Biotic Index v3 (18.7)		



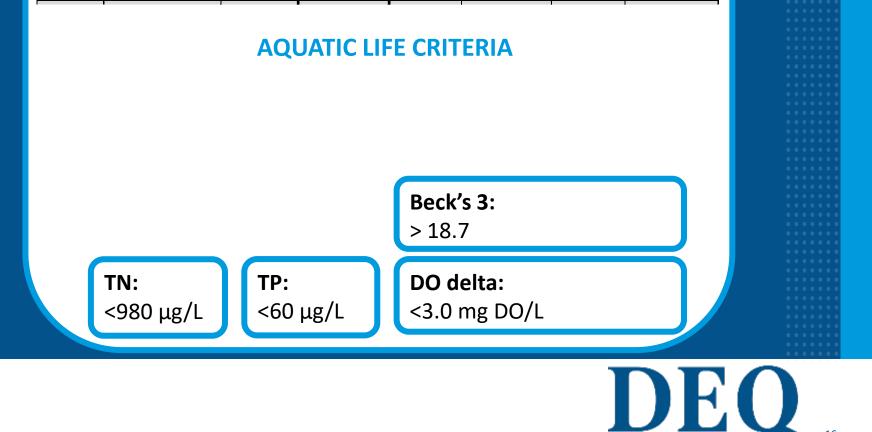
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RECREATION CRITERIA





В	enefical Use and Applicable Z	one	Causal Variable	Response Variable (threshold)				
Beneficial Use	Stream Slope Zone*	TP, TN (see Macroinvertebrate Zone* in Table 2-3)		DO Delta [†]	Benthic Chla ; AFDW	% filamentous algae bottom cover	Macroinvertebrates	
Recreation	Western and transitional ecoregions, <u>all</u> stream/medium river water surface slopes	n/a	х		X (150 mg Chla/m ² ; 35 g AFDM/m ²)	X (30% cover)		
Aquatic Lite	Western and transitional ecoregions, streams/medium rivers with ≤1% water surface slope	Low Valleys and Transitional ^a	x	X (3.0 mg DO/L)			X Beck's Biotic Index v3 (18.7)	

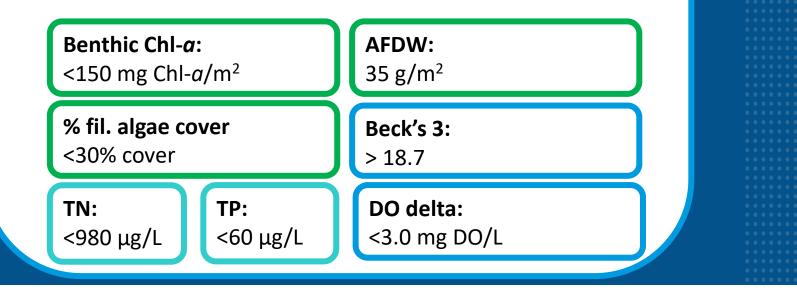


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MONTANA

Benefical Use and Applicable Zone				Causal Variable		Response Variable (threshold)				
Beneficial Use	Stream Slope Zone*	Macroinvertebrate Zone*	TP, TN (<i>see</i> ecoregional nutrient concentration ranges in Table 2-3)		DO Delta [†]	Benthic Chl <i>a</i> ; AFDW	% filamentous algae bottom cover	Macroinvertebrates		
Recreation	Western and transitional ecoregions, <u>all</u> stream/medium river water surface slopes	n/a		x			 X (150 mg Chla/m²; 35 g AFDM/m²) 	X (30% cover)		
Aquatic Life	Western and transitional ecoregions, streams/medium rivers with ≤1% water surface slope	Low Valleys and Transitional ^a		x		X (3.0 mg DO/L)			X Beck's Biotic Index v3 (18.7)	

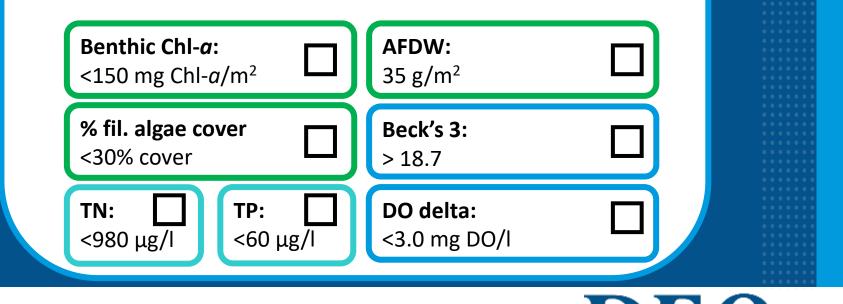
RECREATION & AQUATIC LIFE CRITERIA



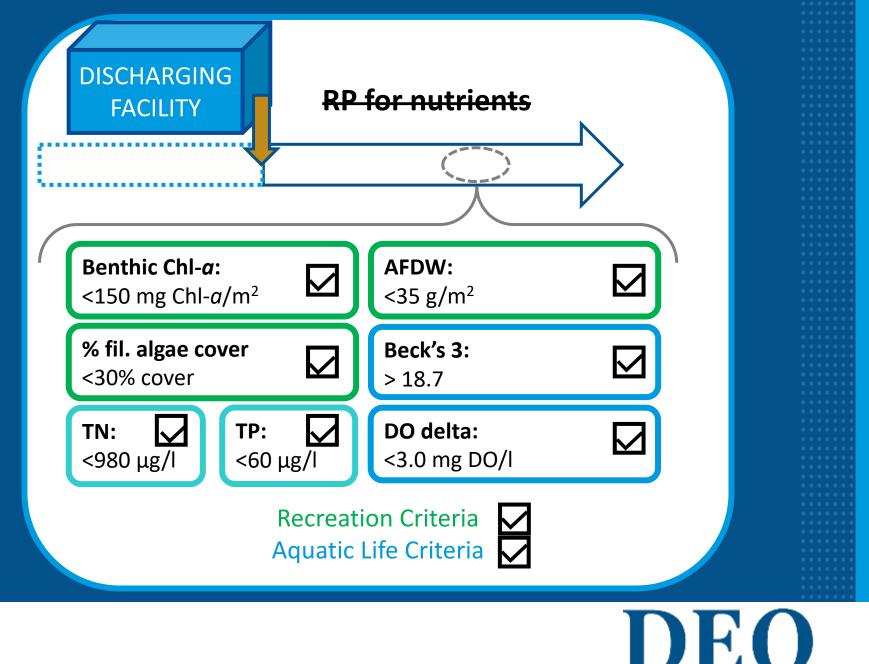


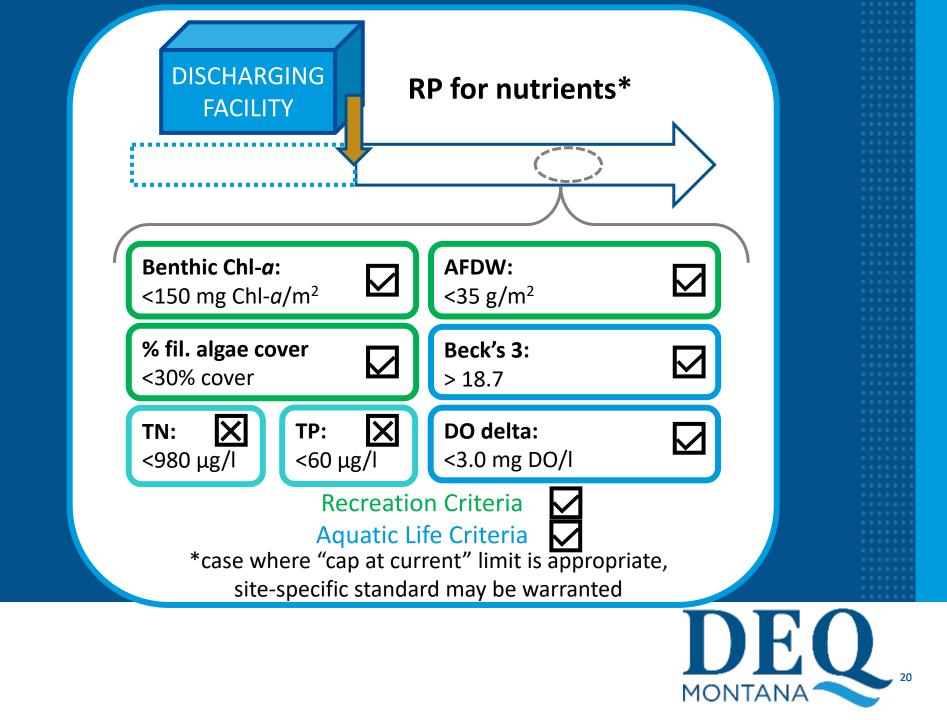
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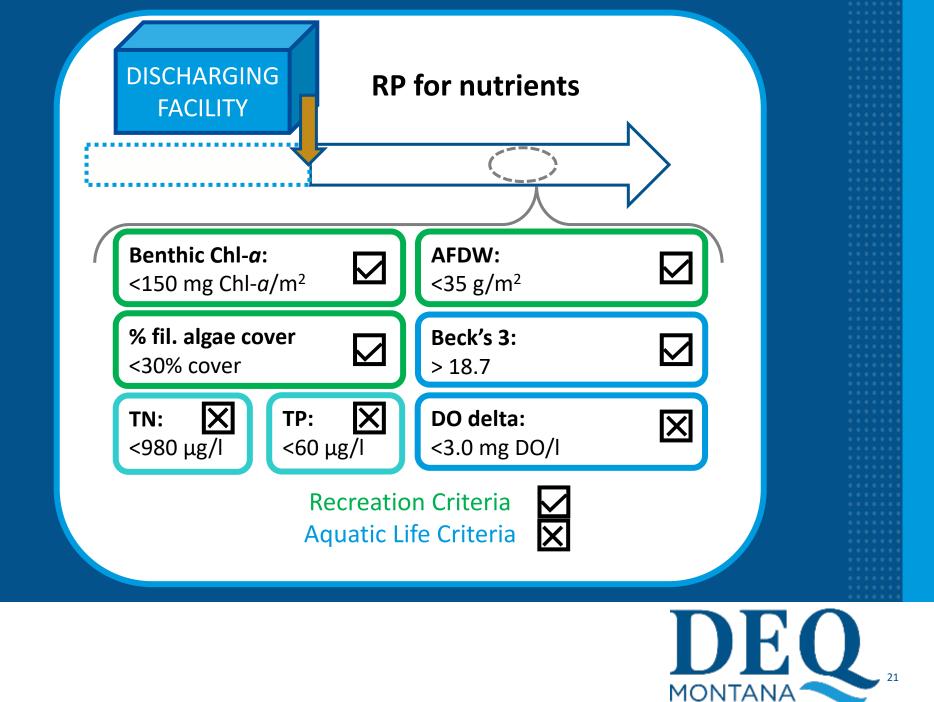
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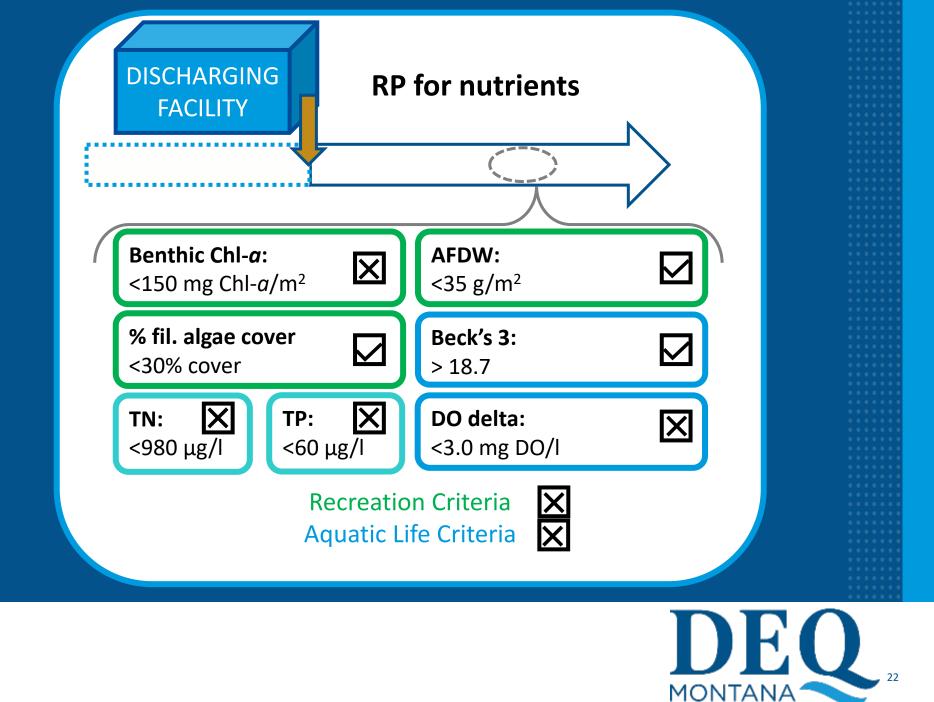


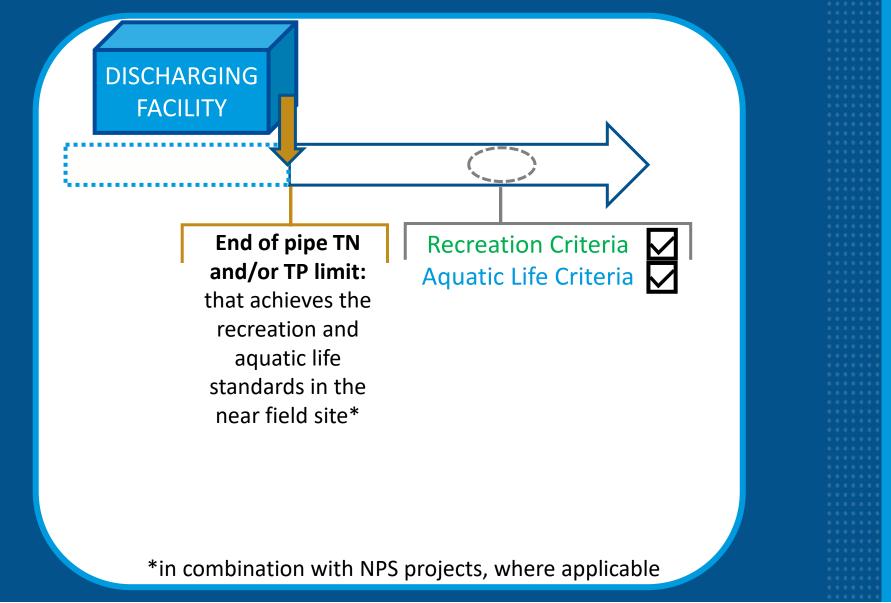
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Rulemaking Documents Q & A





Future NWG Meetings



Future NWG Meetings

- DEQ is open to other venues for feedback as needed. Some suggestions: a video call between parties, written submitted Q&A, and phone calls to DEQ experts for clarifications
- DEQ values NWG member input and will continue listening as the rules are implemented.
- DEQ anticipates future NWG meetings on an as-needed basis to provide updates and hear concerns.



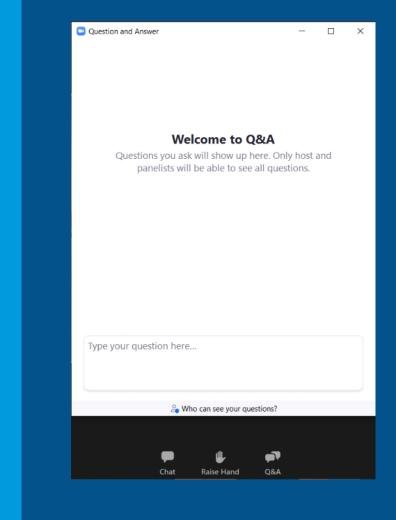


Public Comment



Questions/ Comments

- Raise hand (*9 if on the phone) or type questions into the Q&A
- DEQ will unmute you if you wish to provide your comment orally
- If calling by phone, press*6 to unmute
- State your name and affiliation before providing your comment









Leave

Thanks for Joining Us

Contact: Kyle Milke <u>kyle.milke@mt.gov</u>

To submit comments or questions

Submit Comments or Questions



https://deq.mt.gov/water/Councils

