DNR – Drinking Water and Groundwater Study Group Meeting

October 15, 2020







DNR PFAS Updates & Office of Emerging Contaminants



Mimi Johnson Emerging Contaminants Director





Wisconsin PFAS Updates

- Office of Emerging Contaminants
- Great Lakes PFAS Task Force
- WisPAC
- Other Activities



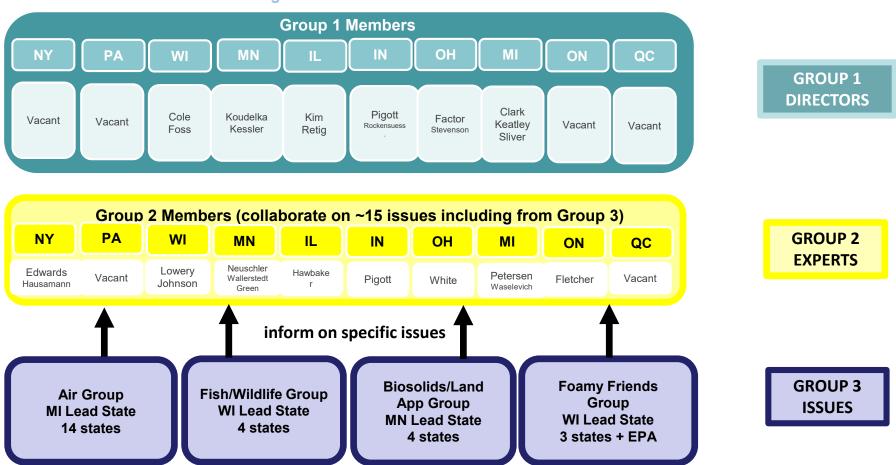
Office of Emerging Contaminants

- Policy director Johnson
- Tech ops coordinator Lowery
- Risk communicator Kruger
- Program coordinator Murdock



Great Lakes Region 5 PFAS Task Force

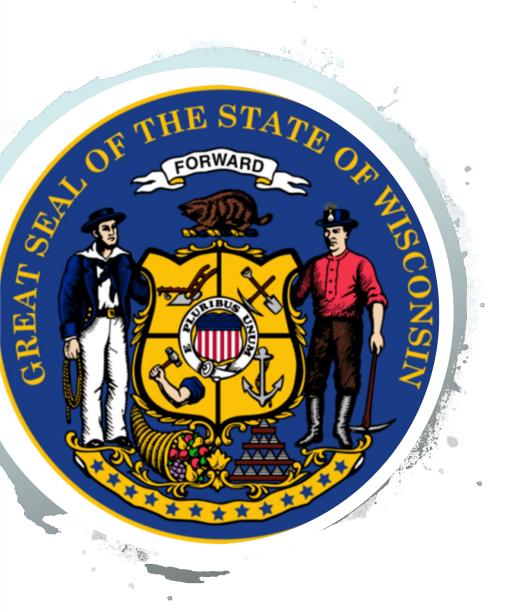
Region 5 + Great Lakes States & Provinces





MANAGE MANAGE





Executive Order 40

"Create the **PFAS Coordinating Council** pursuant to Section 13.019 of the Wisconsin Statutes. The Council shall be staffed by the Department of Natural Resources, with assistance provided by other agencies. Membership of the Council shall include a representative form each agency seeking to participate."

- Wisconsin PFAS Action Council (WisPAC)
- First Step → PFAS Action plan
- Ongoing role to make sure we keep moving forward





PFAS Action Plan Development





WisPAC

Meeting

Advisory

Listening Session Comment

Period

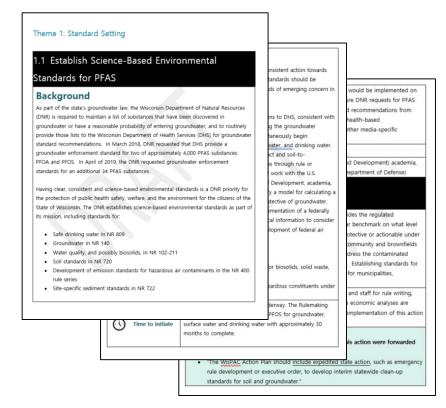
PFAS Action Plan Contents

- Background on PFAS and WisPAC
- Review of the process
- Eight themes → 25 Action Items

PFAS Action Plan available online for review:

https://dnr.wisconsin.gov/topic/Contaminants/ActionPlan.html







DG-Applicable Proposals

- 1.1 Establish Science-Based Environmental Standards for PFAS
- 2.1 Expanding PFAS Site Identification Using GIS Mapping
- 2.2 Facilitate Timely Collection of Environmental PFAS Data
- 2.3 Standardize PFAS Sampling Methods and Support Statewide Implementation
- <u>2.4 Test Public Water Systems for</u> PFAS
- 4.5 Enhance Collaboration Between Wisconsin and Federal Agencies on PFAS Relating to Military Installations
- 5.1 Collaborate on and Implement Research
- 5.2 Monitor Background Levels of PFAS in the Environment
- <u>5.3 Collect Data on Drinking Water</u> <u>Treatment and Costs</u>
- <u>7.3 Provide Financial Tools for Local</u> Governments
- 8.1 Improve Efficiency in Development of Long-Term Water Supply Solutions



DG-Applicable Proposals

2.4 – Test Public Water Systems for PFAS (DNR Lead)

 State conducts statewide drinking water testing – all municipal systems plus other priority community & non-community systems – helpful in development of standards

5.3 - Collect Data on Drinking Water Treatment and Costs (PSC Lead)

Collect data on PFAS treatment options & costs & disseminate information

7.3 - Provide Financial Tools for Local Governments (DNR/SLH Lead)

- Municipal grant program for investigation, sampling, treatment, providing alternative water, or remediation
- Municipal loan program for infrastructure upgrades or new systems (water systems, WWTPs, solid waste facilities, firefighting equipment
- Utilize DOA's Community Block Grant Program for public facilities
- Lab discounts for municipalities

• 8.1 - Improve Efficiency in Development of Long-Term Water Supply Solutions (PSC Lead)

 Ensure that delivery of clean public water to PFAS-impacted areas can be implemented without undue delay – streamline processes



Action Plan - Next Steps

PFAS Action Plan available online for review:

https://dnr.wisconsin.gov/topic/Contaminants/ActionPlan.html



- Written submissions via online form:
 https://www.surveymonkey.com/r/WisPFASPlan
- Comments due: October 31st, 2020
- WisPAC reviews + considers public input & finalizes plan
- Late 2020 WisPAC PFAS Action Plan shared with Governor



Other DNR PFAS Activities

FY2019-2021 Budget provided \$200,000 in environmental management SEG for 2019-2020 to the DNR

- \$150,000 to develop a departmentwide model to identify and prioritize sites with likely PFAS
- \$50,000 to conduct a survey of local and state emergency responders to determine the amount PFAS-containing firefighting foam in the community



Prioritization Protocol

Analysis of Potential Sources of Per- and Polyfluorinated Alkyl Substances (PFAS) in Wisconsin

- 1. Development of a "Source Evaluation Program" that would help guide the evaluation of potential sources and prioritization of sampling
- 2. Secondary analysis of sources in a 1.0 mile buffer around the preidentified wells
- 3. Development and population of a geospatial database of the potential sources with the evaluation and ranking criteria
- 4. Development of an "Extended Analysis Framework" that could be used to expand the results to help identify and screen sites for sampling beyond the target wells



DNR Office of Emerging Contaminants Contacts:

Mimi Johnson, Director

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Jason Lowery, Technical Operations Coordinator

jason.lowery@wisconsin.gov Tel. 608 228 4737



Steve Elmore – DG Program Director



Why Sample for PFAS Now?

- Gather information, including on economic impact of proposed maximum contaminant levels (MCLs)
- Public health impacts
- Wisconsin's PFAS Action Council recommended testing of municipal systems



What sampling will be done?

- DNR will analyze data on where PFAS was used or possibly discharged in the state
 - Nearby wells will be selected for sampling
- Samples will be analyzed for 36 PFAS that are part of the DNR lab accreditation
- Communications and help DNR will engage with systems that exceed health advisory levels to deliver public notices and conduct follow-up action



How will the sampling and analysis be completed?

- Municipal system staff will take the samples with training from DNR
- DNR will use federal funds to pay for the analysis of the samples



Questions?



Member Roundtable



Scott Laeser, Clean Wisconsin

Chris Groh, Wisconsin Rural Water Association

David Webb, Wisconsin State Laboratory of Hygiene

David Kelter, American Water Works Association (AWWA) - Wisconsin Chapter - Not present

Lawrie Kobza, Municipal Environmental Group

Paul Junio, Northern Lake Service

Jeff Kramer, Wisconsin Water Well Association – Not present

Roy Irving, Department of Health Services

Rick Wietersen, Wisconsin Association of Local Health Departments and Boards



NR114 and 146 Updates

Cathy Wunderlich – Public Water Engineering Section Chief



Continuing Education

Certification Expiration: March 12 – May 11, 2020

- ✓ Renewal Deadline is November 1, 2020
- ✓ 2023 Renewal deadline is based on the original anniversary date
- ✓ All other expiration dates remain in effect

No change in required credits for continuing education

Search:
Operator Training

<u>Date</u>	<u>Location</u>	<u>Title</u>	Contact	<u>Details</u>		
10/15/2020	0 √irtual, WI	WRWA/RM Regional Clerk Virtual Training More Info	Wisconsin Rural Water Association, Phone: (715)344-7778 (a), Email: wrwa@wrwa.org, Website: http://www.wrwa.org.lexit.DNR)	Multiday event, Municipal Waterworks hours: 3		
10/16/202	o , wi	Turbidity Process Instrument Verification More Info	Hach Company, Phone: (970)290-1319, 0, Email: hachtraining@hach.com, Website: https://www.hach.com/events?eventType=ONLINE% 2FWEB [extl DNR]	Municipal Waterworks hours: 1.5, Wastewater hours: 1.5		
10/20/2020	virtual, WI	Environment 2020 More Info	FET, Inc, Phone: (262)437-1700 ⁽³⁾ , Website: http://www.fetinc.org.lexit.DNRI	Multiday event, Municipal Waterworks hours: 12, Wastewater hours: 12		
10/20/2020	Online, WI	Distribution Infrastructure Water Quality More Info	GLCAP, RCAP, Website: http://tiny.cc/npvxsz [exit DNR]	Municipal Waterworks hours: 1.5		
10/20/2020	Virtual, WI	Emerging Contaminants in Water and Wastewater More Info	Marquette University, Website: https://www.marquette.edu/civil-construction- environmental-engineering/emerging-contaminants.php [exit DNR]	Municipal Waterworks hours: 6, Wastewater hours: 6		
10/20/2020	Online, WI	Return to Service-Building Water Quality More Info	RCAP, GLCAP, Website: http://tiny.cc/xwvxsz [exit DNR]	Municipal Waterworks hours: 1.5		
10/21/2020	Virtual, WI	Water Affordability More Info	University of Wisconsin - Madison - Wisconsin Public Utility Institute, Email: sakk@wisc.edu, Website: https://wpui.wisc.edu/programs/2020-programs/water-affordability/fexit DNR)	Municipal Waterworks hours: 4.5		



Annual Exam Administration

Exam Categories	May-19	August-19	November-19	February-20	Annual Total
Landfill	35	6	18	1	60
Pump Installer	37	21	40	22	120
Well Driller	5	2	9	6	22
Municipal Waterworks	325	57	270	65	717
Small Water System	29	6	21	3	59
Wastewater	910	142	712	157	1921
Septage Hauler	80	20	100	26	226
TOTAL	1421	254	1170	280	3125

Wastewater: 61%

Drinking Water: 25%

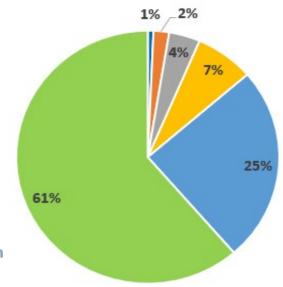
Septage: 7%

Pump Installer: 4%

Landfill: 2%

Well Driller: 1%





Breakout of Exams Types

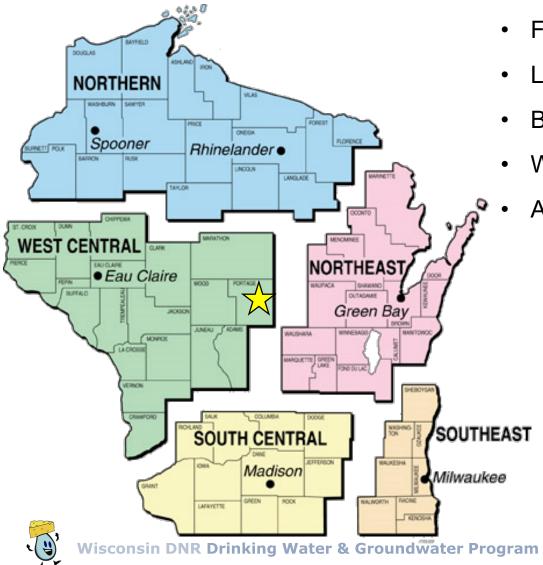
Exam Categories	Number of Exams with Multiple Choice Questions (Q)						Total
	25 Q	40 Q	50 Q	60 Q	80 Q	100 Q	
Wastewater	2		11			1	14
Municipal Waterworks		6			1		7
Small Water System		1					1
Septage Haulers	1	3					4
Incinerator				1		1	2
Landfill			2				2
Well Drillers/Pump Installer						3	3
TOTAL	3	10	13	1	1	5	33

<u>Short Term Solution:</u> *Meets critical needs; protective of health and safety; no cost increase*

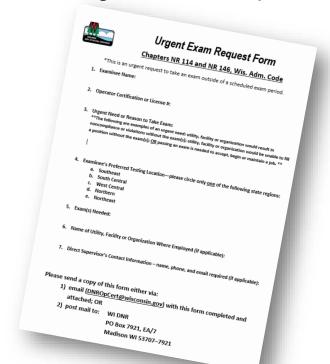
<u>Long Term Solution:</u> *Meets all needs; protective of health and safety;* program costs are covered



Proposed Short Term Solution



- Face-to-Face
- Limited Size Groups
- Bi-Monthly
- WI Rural Water Facility in Plover, WI
- Approved Urgent Exam Requests



Proposed Long Term Solution

3rd Party Exam Contractor

- Utilize existing DNR exam questions and answers (start up fee)
- Formats
 - Contracted computer labs with live proctor (\$80-\$125/ea)
 - Remote location with remote proctor (\$65-\$90/ea + start up fee)
 - Paper based with live proctor- limited exceptions (\$45/ea)
- Unlimited scheduling through contractor's portal

Requirements:

- Emergency NR 114 and NR 146 Rule (locations, frequency and costs)
- Revised NR 114 and NR 146 Rule





Internal Updates



Kyle Burton–Director of Field Operations



COVID Update

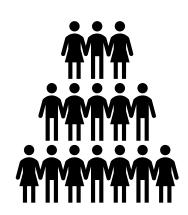
The agency remains operating under Phase II of the DNR Bounce Back Plan.

- Those of us that can work from home are continuing to do so
- DG field activities continue following agency safety protocols and DG Return to Work Plan
 - All field inspections include:
 - » Completing as much virtually as possible
 - » Pre-Inspection COVID safety questions
 - » Protective measures onsite
 - Masks and social distancing required for DNR staff



NR 140 Groundwater Quality Rule

- Cycle 10 Rulemaking in progress for 26 substances (including PFOA and PFAS)
- Information on past & upcoming meetings available on the NR 140 update website.
 - NR140 rule webpage





http://www.biocycle.net/wp-content/uploads/2018/07/20b.jp

NR 140 Cycle 10 Stakeholder Meetings

- PFAS
 - March 23, 2020
- Metals and Metalloids
 - June 9, 2020
- Volatile organic compounds (VOCs)
 - July 21, 2020
- Pesticides
 - August 25, 2020
- Bacteria
 - October 14, 2020

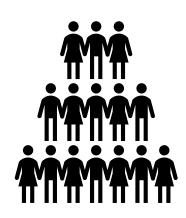


DEPARTMENT OF NATURAL RESOURCES



NR 140 Groundwater Quality Rule

- Cycle 11 for 40 substances (including 34 PFAS and 6 pesticides)
- DHS currently working on recommendations (Expected Oct – Dec 2020)





http://www.biocycle.net/wp-content/uploads/2018/07/20b.jpj

Groundwater Coordinating Council

- Annual Report to Legislature (Aug 31, 2020)
- Three key recommendations:
 - Protecting groundwater from nitrate and other agricultural contaminants;
 - Addressing public health and environmental concerns regarding perfluoroalkyl and polyfluoroalkyl (PFAS) chemicals; and
 - Evaluating groundwater for viruses and other microbial pathogens.
- Also highlighted the need for increased support of applied groundwater research





tp://www.biocycle.net/wp-content/uploads/2018/07/20b.jp

2020: High Capacity Wells



Josh Kaul Wisconsin Attorney General P.O. Box 7857 Madison, WI 53707-7857

NEWS FOR IMMEDIATE RELEASE

May 1, 2020

AG Kaul Issues Letter Withdrawing 2016 AG Opinion on High-Capacity Well Permitting

MADISON, Wis. —Wisconsin Attorney General Josh Kaul issued <u>a letter</u> today informing Wisconsin Department of Natural Resources (DNR) Secretary Preston Cole that Kaul is withdrawing a 2016 Attorney General Opinion about high-capacity well permitting. Kaul's letter was in response to an inquiry from Secretary Cole about the ongoing validity of the 2016 Attorney General Opinion after certain court orders questioned aspects of the opinion.

In his letter to Secretary Cole, Attorney General Kaul explained that, in light of two courts' orders that undermine the legal analysis in the 2016 opinion, that opinion is no longer valid. Kaul explained that he is therefore withdrawing the 2016 opinion in its entirety.

The 2016 opinion related to a 2011 Wisconsin Supreme Court decision recognizing that DNR has "broad authority and a general duty . . . to manage, protect, and maintain waters of the state," including "the authority and a general duty to consider the environmental impact of a proposed high capacity well on waters of the state." Lake Beulah Management District v. DNR, 2011 WI 54, $\P\P$ 39, 63, 355 Wis. 2d 47, 799 N.W.2d 73. The 2016 Attorney General Opinion concluded that other statutes had changed the high-capacity well permitting framework, so that the 2011 supreme court decision was "no longer controlling."

However, since 2016 two Wisconsin courts have rejected the reasoning of the Attorney General Opinion, stating that courts are instead bound to apply the 2011 supreme

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DOJ Communications Office

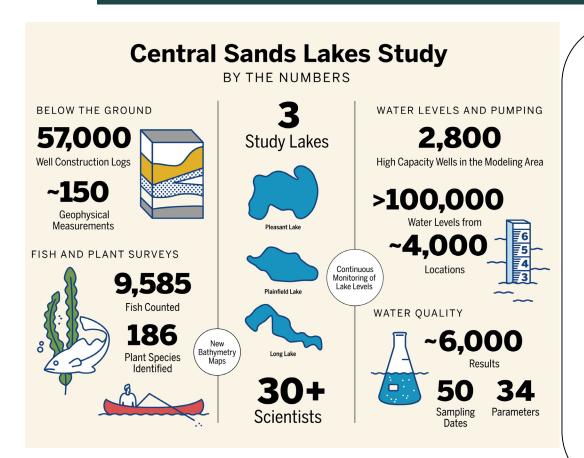
DOJCommunications@doj.state.wi.u

(608) 266-1220

- Attorney General Kaul orders withdrawal of 2016 AG Opinion on May 1, 2020
 - ✓ Water Use Section implemented change beginning June 2, 2020
 - ✓ Review of high capacity well applications now considers navigable waters as well as impacts from existing high capacity wells
- As of July 1, 2020 Water Use took the responsibility of issuing decisions for all potable and non-potable high capacity well applications governed under NR 812



2020: Central Sands Lakes Study



- Findings due to legislature by June 3, 2021
- Oct. 2020 Release of technical presentations & 30-day public comment period

Leveraging IT to Improve Customer Service



- Creating new online study guides to provide improved exam preparation materials for license applicants – Online renewals begin Nov.
 1
- New approval tracking system that allows staff to more efficiently review and approve variances.
- Providing online training modules for the NR 812 code revision



Other Hot Topics and Priority Work



- County Contract –COVID Impacts
- Field Inspections
- PB/CU MSP Updating Efforts
- Manganese

- Creating guidance documents designed to create consistency statewide
- Ongoing Corrosion Control Study Review
- WIIN Small Systems Grant Work
- AWIA



Wrap-up and adjourn

Next Meeting Date: January 14, 2021 Location: Zoom

Meeting recording will be posted on the Drinking Water & Groundwater Study Group website

DEPT. OF NATURAL RESOURCES

