#### Weekly LWC Update 3-17-17

## **ERRORS? OMISSIONS?** If found, please notify **barb.huberty@lcc.leg.mn**.

Interested reader: each week, I gather general information for Legislative Water Commission members to help keep them apprised about water issues in Minnesota. This update contains a roundup of easily attainable MN water news, as well as articles from beyond MN that may inform member thinking. It also includes summaries of meetings I have monitored and reports I have read, as well as information about upcoming events. During the Legislative Session, updates on water-related legislation and committee activities are added. Any errors or omissions are inadvertent.

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#### **Next 2 LWC meeting dates set:**

- Monday, March 27<sup>th</sup>, 6 to 8 pm, State Office Building basement hearing room; see agenda
- Monday, April 24<sup>th</sup>, 6-8 pm, State Office Building basement hearing room; the focus will be on N&E metro water issues, including White Bear Lake

## **LEGISLATURE**

## **COMMITTEES ACTIVITIES THIS WEEK**

Nearly all bills are being amended as they move through the committee process. To see the text of introduced bills or as amended (called engrossments) go to the Legislature's <u>bill search</u> web page and enter the bill # of interest. Keep in mind that there is usually a delay between the committee's actions and when the amended versions are posted.

## In the Senate:

- The Environment and Natural Resources Finance Committee laid over SF695, re-referred SF1542 to taxes, laid over SFs 1351 and SF2103, and re-referred SF1087 to the Finance Committee
- The Environment and Natural Resources Policy and Legacy Finance Committee laid over SF1695; SF1290 and SF565 were re-referred to the Environment and Natural Resources Finance Committee; and SF865 was amended with a delete all amendment to become the Omnibus Environment Policy bill and re-referred to the Environment and Natural Resources Finance Committee – this bill contains provisions from these earlier bills: SFs 1695, 1122, 1482, 289, 865, 1417, 1731, 1458, 1093, 1310, and 844
- The State Government Committee laid over SF737; after being heard in the Judiciary and Public Safety Finance and Policy Committee last Friday and re-referred to the State Government Committee, SF1087 was heard and re-referred to the Environment and Natural Resources Finance Committee; HF1542 was re-referred to taxes
- The Taxes Committee laid over SF1368

#### In the House:

• The Environment and Natural Resources Policy and Finance Committee passed HF1265 to the General Register; House Public Information Services: <a href="LCCMR">LCCMR</a> bill moves forward despite

<u>substantial changes</u>; see the water-related projects and funding amounts that being recommended by the LCCMR, as amended by the House Environment Committee below:

# LCCMR Water Related Proposals Contained in HF1265, as amended with DE-1, A-7, & A-10 on 3/15/17

Draft Work	Original ENRTF	Title	Total LCCMR \$	Total LCCMR \$	TOTAL	Organizatio n			
Plan	ID		FY2017	FY2018					
Subd. 0	Subd. 03 Foundational Natural Resource Data and Information								
<u>03a</u>	<u>001-A</u>	County Geologic Atlases - Continuation	\$3,700,000	\$0	\$3,700,000	U of MN - MN Geological Survey			
<u>03b</u>	<u>002-A</u>	Assessment of Public Benefits of Protecting Source Water	\$0	\$320,000	\$320,000	U of MN			
<u>03g</u>	<u>011-A</u>	Drainage Records Modernization Cost Share - Phase II	\$0	\$540,000	\$540,000	BWSR			
<u>03h</u>	<u>012-A</u>	Groundwater Contamination Mapping	\$0	\$400,000	\$400,000	МРСА			
	Foundat	ional Natural Resource Data and Information Subtotal =	\$3,700,000	\$1,260,000	\$4,960,000				
Subd. 0	4 Water Re	esources							
<u>04a</u>	<u>033-B</u>	Assessment of Household Chemicals and Herbicides in Rivers and Lakes	\$0	\$236,000	\$236,000	U of MN			
<u>04b</u>	<u>034-B</u>	Wastewater Nitrogen Removal Technology to Protect Water Quality	\$0	\$450,000	\$450,000	U of MN			
<u>04d</u>	<u>044-B</u>	Water Quality Monitoring in Southeastern Minnesota Trout Streams	\$0	\$500,000	\$500,000	Winona State University			
<u>04e</u>	<u>048-B</u>	Reassessing Toxicity of Petrochemical Spills on Groundwater and Surface Water	\$0	\$300,000	\$300,000	University of St. Thomas			
<u>04f</u>	<u>055-B</u>	Assessment of Water Quality for Reuse	\$0	\$148,000	\$148,000	U of MN			
<u>04g</u>	Identification of Chemicals of		\$0	\$400,000	\$400,000	Grand Portage Band of Lake Superior Chippewa			
<u>04h</u>	<u>183-I</u>	Techniques for Water Storage Estimates in Central Minnesota	\$0	\$250,000	\$250,000	U of MN			
<u>04i</u>	<u>184-I</u>	Assessing Release of Mercury and Sulfur on Aquatic Communities	\$0	\$300,000	\$300,000	U of MN			

		Water Resources Subtotal =	\$0	\$2,584,000	\$2,584,000	
Subd. (	05 Environ	mental Education				
<u>05a</u>	<u>079-C</u>	Connecting Youth to Minnesota Waterways through Outdoor Classrooms	\$0	\$1,200,000	\$1,200,000	Wilderness Inquiry
	En	vironmental Education Subtotal =	\$0	\$1,200,000	\$1,200,000	
Subd. (	06 Aquatic	and Terrestrial Invasive Species				
<u>06a</u>	<u>106-D</u>	Aquatic Invasive Species Research Center - Phase II	\$2,700,000	\$0	\$2,700,000	U of MN
<u>06c</u>	<u>114-D</u>	Invasive Bighead and Silver Carp and Native Fish Evaluation - Phase II	\$0	\$500,000	\$500,000	MN DNR
<u>06d</u>	<u>119-D</u>	Adapting Stream Barriers to Remove Common Carp	\$0	\$301,000	\$301,000	U of MN
<u>06e</u>	<u>122-D</u>	Tactical Invasive Plant Management Plan Development	\$0	\$296,000	\$296,000	MDA
<u>06f</u>	<u>123-D</u>	Maximize Value of Water Impoundments to Wildlife	\$0	\$195,000	\$195,000	Audubon Minnesota
Aquati	ic and Terr	estrial Invasive Species Subtotal =	\$2,700,000	\$1,292,000	\$3,992,000	
Subd. (	08 Method	s to Protect or Restore Land, Wate	r, and Habitat			
<u>081</u>	<u>196-K</u>	Conservation Reserve Enhancement Program (CREP) Outreach and Implementation	\$0	\$6,000,000	\$6,000,000	BWSR
NA	NA	Conservation Reserve Enhancement Program (CREP) Outreach and Implementation	\$1,029,000	\$20,071,000	\$21,100,000	BWSR
M	ethods to F	Protect, Restore, & Enhance Land, Water, & Habitat Subtotal =	\$1,029,000	\$26,071,000	\$27,100,000	
		WATER TOTALS =	\$7,429,000	\$32,407,000	\$39,836,000	

The original recommendations can be seen in the bill, <u>as introduced</u>, or on the LCCMR <u>website</u>.

- The Job Growth Committee laid over HF1317
- The Legacy Funding Finance Committee laid over HF1986, HF1485, and HF1731
- The Property Tax and Local Government Finance Division laid over HF1466
- The State Government Committee heard HF1433 as an informational item; no action was taken

A total of 82 (26%) of introduced water-related bills have received action, to date, beyond introduction. The first Omnibus bill has emerged (SF865). The green Committee Assignment cells in the following table show committee actions:

House	Chief/ <i>LWC</i>	Committee	Senate	Chief/ <i>LWC</i>	Committee	Description (as introduced, not as amended)
File	Authors	Assignment	File	Authors	Assignment	
<u>198</u>	Hanson	Legacy -> laid over	<u>18</u>	Klein	ENRP&LF	\$5M CWF to Met Council for grants/loans for local inflow/infiltration reduction programs in metro area

<u>151</u>	Murphy, M	Legacy -> laid over	<u>179</u>	Simonson	ENRP&LF -> laid over	\$350K from CWF to Admin for grant to Lake Superior Center Authority for new river systems exhibit (dba the Great Lakes Aquarium)
200	Lien, C Johnson, Bly	Ag Policy -> Prop Tax -> laid over	<u>111</u>	Eken	Ag & Rural Dev -> taxes	Ag and Revenue Departments to study the impact of taxing ag lands based on production value (including identifying types of ag properties not directly used in ag production and approaches for valuing them)
None	None	None	210	Senjem, Eken	Cap Invest - > Finance -> gen ord	omnibus bonding bill; \$213.225M in bond proceeds DNR, MPCA, BWSR, MDA, Met Council, MDH, DEED and PFA to fund various capital investment programs and projects, including those related to water infrastructure and water resources
457	Howe	ENRPF -> laid over	<u>233</u>	Fischbach	ENRF -> laid over	Extends availability of grant money to remove and prevent aquatic invasive species
710	Uglem	ENRPF -> Legacy-> laid over	<u>262</u>	Ingebrigsten, Ruud	ENRP&LF	\$103,978,000 in 2018 and \$585,000 in 2019 from the outdoor heritage fund to various recipients
<u>284</u>	Hamilton	Ag Finance	<u>315</u>	Westrom	Ag, RDP -> Ag, RDF -> Finance	\$2.218M general fund to MDA to equip ag laboratory
2330	Loeffler	ENRPF	<u>316</u>	Dziedzic	Energy & Utilities -> laid over	\$ general fund to DOC to establish a green roof advisory task force
398	Torkelson	ENRPF	<u>348</u>	Dahms, <i>Weber</i>	ENRF -> laid over	\$378K from gen fund to BWSR for grant to Area II Mn River Basin floodplain management projects
431	Norness, Johnson, Torkelson	ENRPF	<u>371</u>	Ingebrigsten, Ruud	ENRP&LF -> ENRF	\$5M gen fund to BWSR to acquire wetland banking projects for road projects and \$10M bond proceeds to purchase land or easements for the wetland banks

434	Fabian, Torkelson	ENRPF -> W&M (1st Engr) -> gen reg - passed, signed by Gov	326	Ingebrigsten, Lang	ENRP&LF -> Transp F&P -> ENRF -> Finance -> gen orders - passed, signed by Gov	where road replacement wetland bank credits are not available, BWSR must use credits from other service areas as permitted by state/fed law and wetland disturbances up to 10K sq ft for roads previously authorized by ACE Sec 404 are exempt from WCA [note: SF 326 amended to include \$1.4M fire remediation for Madelia and \$296K fire remediation for Watonwan Co; see HF468/SF627]
<u>468</u>	Cornish	Job Growth - > W & M -> incorp into 434	<u>627</u>	Rosen	Jobs -> laid over -> incorp into 326	\$101K gen fund to DEED for grant to reimburse Madelia for infrastructure repair costs from 1/16 fire
<u>495</u>	Sundin	Job Growth - laid over	<u>361</u>	Lourey	Cap Invest	\$2.2M bond proceeds to PFA for grant to Big Lake Area Sanitary District for wastewater connection to WLSSD connector in Cloquet
<u>552</u>	Green, Poston	Gov Ops -> laid over	None	None	None	Grant of authority in law required for adoption of rules, and threshold for conducting a public hearing on expedited rules reduced
<u>560</u>	Kiel	Legacy -> laid over	<u>399</u>	Johnson, Eken	ENRF -> ENR&LF-> laid over	\$300K over 2 yrs from CWF to MPCA for grant to Red River Mgmt Bd for River Watch monitoring and education program
<u>575</u>	Urdahl	Cap Invest -> W & M -> gen register	<u>396</u>	Senjem	Cap Invest	Lanesboro dam project exempted from a nonstate contribution
<u>653</u>	Gunther, C. Johnson, Poston	Job Growth - > laid over	<u>391</u>	Jasinski, Lang	Cap Invest	\$15M bond proceeds to DEED for grants under the Greater MN business development public infrastructure program
<u>649</u>	Backer	Job Growth - > laid over	<u>472</u>	Westrom	Cap Invest	\$11.495M bond proceeds to PFA for Morris to demolish and replace its water treatment plant to reduce chloride discharges to Pomme de Terre River from its WWTF
<u>635</u>	Hamilton	Job Growth - > Cap Invest	<u>543</u>	Weber	Cap Invest	existing bond authorization purposes modified for the <b>Lewis</b> <b>&amp; Clark Regional Water System</b> & \$5M bond proceeds authorized for Phase 3

<u>702</u>	O' Driscoll, Poston, Gruenhagen	ENRPF	<u>695</u>	Newman, Eken	ENRP&LF -> state gov't - > ENRF -> laid over	provides for expert review of agency actions and prohibits use of unadopted rules
<u>706</u>	Gunther	Legacy -> W&M -> gen reg	<u>565</u>	Ruud	ENRP&LF -> ENRF	no more than 95% of the projected balance for each of the Legacy funds may be appropriated in a fiscal year
<u>707</u>	Gunther	Legacy -> laid over	<u>566</u>	Ruud	ENRP&LF	\$50K from the Legacy and Environmental Trust Funds to LCC in FY18 to maintain the dedicated funding website
717	Green	Legacy -> laid over	<u>643</u>	Johnson, Ruud	ENRP & LF	\$ CWF and \$ gen fund to DNR for grants to road authorities or WDs for replacing culverts as part of water quality or environmental improvement projects, respectively
1265	Heintzeman	ENRPF -> Gen Reg	<u>550</u>	Westrom	ENRF -> Finance	\$8.428M in FY2017 and \$50.728M in FY2018 from the ENRTF to various recipients (LCCMR bill)
766	Swedzinski	ENRPF -> laid over	<u>672</u>	Ruud, Weber, Eken	ENRP&LF -> State Gov't	Modifies public comment period requirements for draft impaired waters list notices, provides process to challenge impaired waters lists, and requires notice to publicly owned wastewater treatment facility applicants
<u>821</u>	Loonan	ENRPF	<u>701</u>	Hall	ENRF -> laid over	\$960K gen fund to BWSR for grant to Lower MN River WD to defray dredge site O & M cost
829	Hornstine	Transp & Reg Gov -> laid over	<u>641</u>	Dibble	Local Govt	Established sewer availability charges stakeholder group
None	None	None	<u>717</u>	B Anderson, <i>Weber</i>	ENRF - no action	MPCA must review wastewater treatment projects receiving financial assistance to ID wastewater discharge impact on geographic aquifer; definitions added
1003	Lueck	ENRPF -> Gov Ops -> Gen Reg	<u>737</u>	Weber, Ruud, Eken	ENRP&LF -> state gov't - > laid over	MPCA shall amend MnR 7001.0150 using the MnStat 14.388 good cause exemption to allow a municipality that builds a WWTF to comply with new/modified effluent limits compliance with any new/modified limits adopted

						after construction onset if it would require additional capital investment until the new/modified WWTF is 80% depreciated
1285	Pugh	Gov Ops-> laid over	<u>769</u>	Kiffmeyer	State Govt - > laid over	Agencies can't adopt rules without legislative approval
<u>790</u>	Gruenhagen	Gov Ops	822	Newman	State Govt - > laid over	Agencies must submit all contested case hearings to the Office of Administrative Hearings for disposition
1858	Miller	ENRPF	<u>835</u>	Draheim, <i>Weber</i>	Ag & Rural Dev -> ENRP&LF	buffer law compliance practices must use only seed mixes grown & processed in MN
1076	Bly, C Johnson	Ag Finance - > laid over	None	None	None	\$10M gen fund to MDA for grant to U of MN for Forever Green program to protect natural resources while supporting ag economy via development of perennial and winter annual crops
<u>761</u>	Hamilton, C Johnson	Ag Policy -> Gov ops -> gen register, incorporated in HF1717	<u>960</u>	Westrom	Ag, Rural Dev -> general orders	extends the ag fertilizer research and education program and council
1456	Swedzinski	Ag Policy	<u>1016</u>	Weber	Ag, Rural Dev -> ENRP&LF	modifies public comment and environmental review provisions for CAFOs; mandatory EAW not required for CAFOs <2K animal units; public notice concurrent with CUPs notice by LGU
<u>1291</u>	Fabian	ENRPF -> Civil Law -> Gov Ops -> W&M	<u>1087</u>	Ingebrigsten, Ruud	ENRP&LF -> Judiciary -> state govt - > ENRF -> Finance	modifies permitting, rules, and environmental review processes for DNR & MPCA; eliminates the EQB & transfers duties to the MPCA and gives some duties to the CWC
<u>1317</u>	Newberger	Job Growth - > laid over	<u>1933</u>	Mathews	Cap Invest	\$1.2M bond proceeds to PFA for Clear Lake-Clearwater Sewer Authority to remove/replace WWTF to control P discharges to the Mississippi River

1387	Newberger, Torkelson	ENRPF -> laid over	1290	Mathews	ENRP&LF -> ENRF	modifies groundwater appropriation permit requirements and well interference claim requirements
1433	Kresha, Torkelson	Gov Ops -> laid over (info for State Gov)	None	None	None	regulates rulemaking, reviews/repeals EAW/EIS, restricts implementation and enforcement of policies/guidelines/statements; increases rule oversight; modifies notice requirements; requires impact analysis; modifies SONAR requirements
<u>1466</u>	Torkelson	ENRPF -> Taxes -> laid over	<u>1395</u>	Westrom, Eken	ENRF -> gen ord	\$10M gen fund to Dept of Revenue to make payments to LGUs that assume jurisdiction for implementation and enforcement of the buffer law
<u>1485</u>	Ecklund	Legacy -> laid over	<u>1360</u>	Bakk, Ruud	ENRP&LF	\$2M from CWF to MPCA for grants to LGUs for sanitary sewer projects included in the VNP Clean Water Comprehensive Plan to restore waters of VNP
1498	Loonan	ENRPF	<u>1131</u>	Hall	ENRF -> ENRP&LF	\$4.5M from CWF to BWSR to coordinate the development & implementation of goals and strategies for sediment, flow & nutrient reduction in the MN River Basin; with \$2M to local grants, \$2M to research, & 500K to BWSR for oversight
<u>1557</u>	Drazkowski	ENRPF -> laid over	<u>1351</u>	Goggin	ENRP&LF -> laid over	When a court has ruled that there has been no violation of a wetland restoration or replacement, recording of the order on a deed is prohibited
1673	Fabian	ENRPF -> gen reg	<u>1695</u>	Ruud	ENRP &LF - > laid over	DNR game and fish bill; includes a change to 103G.411 re: stipulation of low water mark no longer requires approval of attorney general
893	Davids	Taxes -> laid over	<u>726</u>	Chamberlain	Taxes	Tax bill; includes provision for farmers to receive \$40/tillable acre converted to a public waters buffer
916	Hilstrom	Public Safety - Security P&F -> laid over	<u>743</u>	Eaton	Judiciary - Public Safety F&P	requires county sheriffs to maintain collection boxes for drugs

<u>1796</u>	C Johnson, Bly	ENRPF	<u>1417</u>	Ruud	ENRP&LF -> laid over -> SF865 (OEP) -> ENRF	establishes 25% water pollution reduction goal by 2025
1863	Dettmer, Fischer	ENRPF -> laid over	<u>1458</u>	Chamberlain	ENRP&LF -> laid over -> SF865 (OEP) -> ENRF	modifies wetland replacement requirements by defining 80% wetland bank replacement areas
1807	Lueck	ENRPF	1482	Tomassoni	ENRP&LF -> laid over -> SF865 (OEP) -> ENRF	surplus wetland replacement credits obtained in association with a mining permit issued on/after 7/1/91 to may be used to off-set future mining-related wetland impacts under any permits to mine held by the permittee or their associates
1717	P Anderson	Ag Policy -> gen reg	<u>1674</u>	Weber	Ag, RD & HP -> gen ord	Omnibus Ag bill; includes modification of MnStat Ch 18B provisions related to experimental pesticide use and treated seeds
<u>1731</u>	Torkelson	ENRPF -> Legacy -> laid over	<u>1734</u>	Ruud	ENRP&LF	\$220.514M CWF to MDA, PFA, MPCA, DNR, BWSR, MDH, Met Council, U of MN, LCC
1747	Wagenius	Transp & Reg Gov -> Gov Ops	1877	Torres-Ray	Local Govt	Met Council must not impose a sewer availability charge on a LGU for existing eating/drinking establishment due to expansion of outdoor seating unless the # of fixtures discharging to the sanitary sewer increase or the capacity of the pipes are increased; the charge must be proportionate to increase on demand
None	None	None	<u>1646</u>	Weber, Ruud	ENRF -> laid over	\$300K gen fund to MPCA for a grant to Shell Rock River WD for a pilot project for a water quality credit trading program for stormwater
1994	Torkelson, Gruenhagen	ENRPF -> Ag Pol -> ENRPF	<u>1693</u>	Weber	ENRP&LF -> gen ord	modifies buffer law, limiting APO authority to BWSR, 50' buffer applies to public waters with shoreland classification; 16.5' to those without and to public ditches; extends compliance date for both to 11/1/18; enforcement can only

						occur if 100% of cost to establish buffers is provided
2028	Fischer, Torkelson, C Johnson	ENRPF -> laid over	<u>1731</u>	Ruud, Wiger	ENRP&LF -> laid over -> SF865 (OEP) -> ENRF	exempts stormwater reuse projects from water-use permit requirements
<u>1986</u>	Bernardy	Legacy -> laid over	<u>1992</u>	Laine, Wiger	ENRP&LF	\$15K CWF to DNR for grant to New Brighton for aquatic invasive species control & education
2301	Lueck	Higher Ed	2103	Tomassoni	ENRF - > laid over	\$1M in 2018, \$3M in 2019 and each yr thereafter from bond proceeds to the DNR to transfer to the U of MN Bd of Regents for the Natural Resources Research Institute for ops, maintenance, research and staff for applied research in water and other key areas
1752	Torkelson	ENRPF	<u>1542</u>	Dziedzic	ENRF -> taxes	establishes riparian-buffer compensation program; \$11K FY18, \$434K FY19 from general fund to DOR for administration; \$286K to DOR base budget for FY20-21
<u>1711</u>	Loonan	Taxes -> property taxes	<u>1368</u>	Pratt	Taxes -> laid over	modifies the definition of agricultural purpose to include local conservation programs
1483	B Johnson	ENRPF	<u>865</u>	Ruud	ENRP&LF -> ENRF	modifies blaze orange hunting requirements to allow for blaze pink; amended in the Senate to become the OMNIBUS ENVIRONMENT POLICY BILL

## **WATER BILLS**

The pace of water-related bill introductions has slowed significantly this 11<sup>th</sup> week of Session. On the table below, the gold shaded cells are bills introduced this week (or that I missed earlier) that are companions to bills introduced previously. Click on the File # hyperlinks for more details. As of 3/17/17, 315 of 4,625 introduced bills (7%) are water-related.

House File	Chief/ <i>LWC</i> Authors	Senate File	Chief/ <i>LWC</i> Authors	Description (as introduced, not as amended)
<u>2330</u>	Loeffler	<u>316</u>	Dziedzic	\$ general fund to DOC to establish a green roof advisory task force

2301	Lueck	2103	Tomassoni	\$1M in 2018, \$3M in 2019 and each yr thereafter from bond proceeds to the DNR to transfer to the U of MN Bd of Regents for the Natural Resources Research Institute for ops, maintenance, research and staff for applied research in water and other key areas
2411	Lueck	<u>2031</u>	Ruud	\$3M gen fund to DNR for U's MN Aquatic Invasive Species Research Center for solutions to reduce aquatic invasive species impacts
<u>1752</u>	Torkelson	<u>1542</u>	Dziedzic	establishes riparian-buffer compensation program; \$11K FY18, \$434K FY19 from general fund to DOR for administration; \$286K to DOR base budget for FY20- 21
<u>1711</u>	Loonan	<u>1368</u>	Pratt	modifies the definition of agricultural purpose to include local conservation programs
2400	P Anderson	<u>2160</u>	Westrom	establishes riparian-buffer compensation program; \$11K FY18, \$434K FY19 from general fund to DOR for administration; \$286K to DOR base budget for FY20- 21
2417	Hamilton	2114	Weber	\$5M gen fund to MPCA for grants to delegated counties to administer the county feedlot program
1483	B Johnson	<u>865</u>	Ruud	modifies blaze orange hunting requirements to allow for blaze pink; amended in the Senate to become the <b>OMNIBUS ENVIRONMENT POLICY BILL</b>
2384	Hausman, Fischer, C Johnson	2154	Pappas	Capital Investment bill
2432	C Johnson	None	None	affected party may ask SWCD to make a determination on whether an alternative practice would meet the applicable buffer requirements; 90 day lead time needed to avoid noncompliance findings
<u>2446</u>	Newberger	None	None	\$250K gen fund to DNR to compensate hydroelectric facilities impacted by Little Rock Lake-Sartell Pool drawdown project

## MN NEWS

## WATER ACTIONS

- Strib: A land of 10,000 lakes for sure. But how about springs?
- U of MN: <u>U of M President Kaler and other leaders present priorities to Legislature</u>; priorities include expanding the MnDRIVE (Minnesota's Discovery, Research and InnoVation Economy) investment to include additional initiatives to solve Minnesota's challenges in the many areas, including improving water quality, and advancing applied research activities at the Natural Resources Research Institute (NRRI), including minerals, mining and water
- DL Online: 'No water, no life': Smithsonian Water/Ways exhibit opens at Becker County Museum
- Walker Pilot Independent: What is clean water worth for northern Minnesota communities?

- YouTube: <u>Mississippi River Basin Watershed Support Group</u>; this Iowa Motion Picture Association Award Winner offers some droll humor about pollution
- Whapeton-Breckenridge Daily News: County board hears update on watershed
- Post-Bulletin: Greenspace: Learn more about rain gardens at three upcoming workshops
- Crookston Times: <u>International Water Institute Dayton proclaims March 12-18 River Watch Week'</u> in Minnesota; River Watch Forum March 15 at UMC
- Strib: Environmentalists decry bills advanced by GOP lawmakers
- Pioneer Press: Clean-water agency moving into industrial site in St. Paul's Midway
- Governor Dayton's Appointments to the Board of Water and Soil Resources:
  - o Patty Acomb- Minnetonka, Metropolitan City Elected Official, reappointment
  - o Tom Loveall Winnebago, County Commissioner, reappointment
  - o Tom Schulz Sebeka, Soil and Water Conservation District Supervisor, reappointment
  - Rich Sve Two Harbors, County Commissioner, replacing Brian Napstad's County Commissioner vacancy
  - Gerald Van Amburg Moorhead, sitting citizen member appointed as Chair Designee to replace Brian Napstad, as chairperson
  - o Paige Winebarger Bloomington, Citizen Member, reappointment

#### **WATER BUSINESSES**

• Ethisphere: World's Most Ethical Companies® Honorees; MN water-tech businesses 3M and Ecolab make the list

## **SURFACE WATER/STORMWATER**

- BWSR: <u>Local Road Wetland Replacement Program</u>: <u>Notification of Wetland Bank Service Area</u>
   Opening
- Waseca County News: <u>Lakes report from MSU reveals high phosphorus levels</u>; in Clear Lake,
   53 % of the total P entered from the watershed and 47% from internal loading; an estimated
   66% of Loon Lake's annual total P was from internal loading
- U of MN: "Super sponge" promises effective toxic clean-up of lakes and more
- Pine Journal: New options for river that dumps red clay into Lake Superior
- Post Bulletin: John Weiss: New problems on the water front
- LMC: Stormwater Reuse Bill Heard in House and Senate
- LMC: Governor Signs Bill Providing Emergency Cash for Local Road Wetland Banks
- LMC: DNR Releases New Shoreland Model Ordinance
- Worthington Daily Globe: Watershed District to invest in more floating biohavens
- Pioneer Press: <u>Invasive silver carp found for the first time in St. Croix River</u>; MPR: <u>DNR: Invasive silver carp found for first time in St. Croix River</u>; Strib: <u>The first silver carp</u>, the 'flying' invasive fish, is captured in St. Croix
- Mankato Free Press: Mankato OKs nearly \$500,000 to study erosion, drainage; here are 2 of the erosion prone areas, with the City wellfield in the area shown at right





#### **GREAT LAKES**

- MLive: <u>Trump slashes Great Lakes funding by 97 percent in early budget plan</u>; see the
  embedded spreadsheet for a full list of proposed EPA budget cuts (the White House released its
  proposed budget to Congress on 3/16; see article in National Section, below); Strib: <u>Trump seeks
  elimination of Great Lakes restoration funding</u>; MPR: <u>Trump seeks elimination of Great Lakes
  restoration funding</u>; Strib: Walker, Trump at odds over defunding of Great Lakes program
- MPR: Exploring the death, and life, of the Great Lakes [short article + a link to a 49 min interview with author Dan Egan]
- E&E News: Great Lakes communities gear up to battle Trump's budget

#### **WATER SUPPLY**

- Congressional Research Service: <u>Safe Drinking Water Act (SDWA)</u>: A <u>Summary of the Act and Its</u>
   Major Requirements; in MN, the SDWA is administered by MDH
- Waseca County News: <u>Study finds small public wells in Minnesota have viruses, bacteria</u>;
   Brainerd Dispatch: <u>Study finds small public wells in Minnesota have viruses, bacteria</u>; <u>Pioneer Press: Viruses, bacteria in MN drinking water wells? Maybe, but what does it mean?</u>
- MDH: <u>Minnesota Well Management News</u>; includes articles on proposed fee increases, well sealing grant awards, locations of artesian wells in MN, and more
- WCCO: Boil Advisory Issued After Another Water Outage In Blaine

#### **WASTEWATER**

• Echo Press: <u>Cities object to high sewage treatment plant costs</u>; Mesabi Daily News: <u>Cities object to high sewage treatment plant costs</u>

#### **ENERY-WATER NEXUS**

Midwest Energy Research Consortium: <u>Strategic Roadmap on the Energy Water Nexus</u>

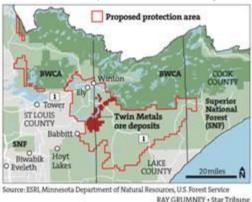
#### **AG & WATER**

- West Central Tribune: Buffer law draws questions from landowners in Renville County
- Brownfield: Minnesota Soybean Leader is Excited About Ag Research
- AgWeek: Minnesota watershed district talks tile intakes
- Jamestown Sun: Taking a long-term view supporters say tile drainage still makes sense
- AgriNews: What can the Root River teach us about erosion?

- Journal of Soil and Water Conservation: <u>Looking for agricultural water quality protection</u> practices: Saturated buffers
- Science Daily: What makes farmers try new practices?
- House Public Information Services: <u>Jumbo shrimp farms touted as new agriculture industry</u>
- The News and Observer: <u>Dayton</u>: <u>Minnesota on track to meet new buffer requirements</u>; Pioneer Press: <u>Buffer strips ahead of deadline</u>; <u>Mark Dayton opposes big changes to law</u>; <u>MPR: State on track to meet new buffer requirements</u>; <u>Strib</u>: <u>Dayton</u>: <u>Minnesota on track to meet new buffer requirements</u> and <u>In advance of fight over water quality</u>, <u>Gov. Mark Dayton touts his signature initiative</u>; <u>Governor Dayton's Office</u>: <u>Minnesota is Well On its Way to Full Compliance with Statewide</u>, <u>Bipartisan Water Quality Effort</u>; <u>Albert Lea Tribune</u>: <u>State on track to meet buffer requirements</u>

#### **EXTRACTIVE INDUSTRIES**

• Strib: Comment period on restricting mining near BWCA extended to August



- MPR: <u>Divide over mining near BWCA on display at public meeting</u>; <u>Duluth News Tribune</u>: <u>Duluth hearing draws supporters</u>, <u>critics of proposed mining ban near BWCAW</u>
- Duluth News Tribune: <u>Twin Metals meeting may end up moot, but big crowd expected</u> and Pioneer Press: <u>Twin Metals public hearing could be big, but Trump might make it moot</u>; MPR: <u>Pro- and anti-mining forces prepare for Duluth meeting</u>; Newsday: <u>Agencies to take comments on plan for Minnesota mining</u>; Strib: <u>Agencies to take comments on plan for Minnesota mining</u> and Hundreds expected tonight at Duluth public hearing on mining near BWCA
- Save the Boundary Waters: New poll: Minnesotans support mining, but not near the Boundary
   <u>Waters</u>; see the FabrizioWard polling memo <u>Sulfide Ore Copper Mining Near the Boundary</u>
   <u>Waters</u> or the more detailed <u>summary deck</u>

## **OPINIONS**

- Pioneer Press: Real World Economics: Pollution can't be a local concern
- Strib: Plastic bags: It's time to bag these ubiquitous, deadly pollutants

## **BEYOND MINNESOTA**

#### **REGIONAL**

Congressman Brian Fitzpatrick: <u>Fitzpatrick Fights for Defense Dept. Funding of Water Contamination Clean Up, Health Study</u>; firefighting foam used on military bases has contaminated public and private wells with the perfluorinated compounds (PFCs) perfluoroctanoic acid (PFOA) and perfluoroctanesulfonic acid (PFOS)

- The Columbus Dispatch: <u>Water customers worried about lead lines can check Columbus' map;</u>
   Strib: Michigan governor will drop lead limit below federal cap
- Public News Service: <u>Another Wisconsin Groundwater-Protection Measure Dropped</u>; Strib: <u>Wisconsin conservationists</u>, farmers clash at hearing
- NPR: Kentucky Community Hopes Trump Infrastructure Plan Will Fix Water System
- phys.org: <u>Study quantifies effect of 'legacy phosphorus' in reduced water quality</u>; "Solutions should be focused on stopping phosphorus from going onto the landscape or mining the excess amount that is already built up"
- Strib: Ethanol spills in Iowa as train cars pulled from creek
- Strib: <u>Great Lakes fund has aided Ohio's algae fight, river cleanup</u>; The Washington Post: Republicans join Democrats against Trump's Great Lakes cuts
- AZ Daily Sun: Uranium mine deals with excess water

#### **NATIONAL**

- NPR: <u>How To Make Farmers Love Cover Crops? Pay Them</u>
- Governing: To Speed Up Infrastructure Projects, Trump Revisits Environmental Regs
- Bloomberg BNA: Water Systems Facing Unique Cyberthreats
- Reuters: <u>Trump budget plan cuts USDA food</u>, <u>rural water funding</u>; "The proposal would save \$498 million by eliminating a rural water and wastewater loan and grant program, which the White House proposal said was duplicative. The program helps fund clean water and sewer systems in communities with less than 10,000 people."
- New York Times: Who Wins and Loses in Trump's Proposed Budget; Pioneer Press: Winners and losers in Trump's first budget plan; Vox: Trump's budget cripples EPA enforcement. This is bad for drinking water; Strib: State and metro officials say that federal budget cuts would have big impact; Strib: Trump budget would gut science, environment programs
- Circle of Blue: <u>Trump Proposal to Fix U.S. Water Infrastructure Invites Large Role for Private Investors</u>
- E&E News: Cuts could complicate flood insurance reauthorization
- Strib: Sack cartoon: Clean water, the musical

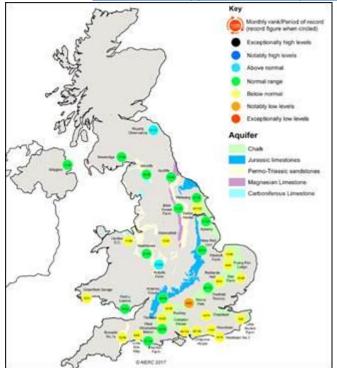


STEVE SACK 6/4x2022; STAR TRIBUNI

#### **GLOBAL**

- Winnepeg Free Press: <u>Proposed legislation calls for fewer inspections of drinking water</u> infrastructure
- Reuters: Research for drought-resistant crops gets boost as U.S. joins seeds treaty

- The Guardian: New Zealand river granted same legal rights as human being; for 140 yrs, the local Māori tribe has fought for the recognition of the Whanganui River (the 3<sup>rd</sup> largest in New Zealand) as an ancestor
- The Guardian: Groundwater supplies low after dry winter



## **MEETINGS**

#### **STORMWATER REUSE STAKEHOLDERS**

MDH is leading an interagency workgroup to assess the viability of water reuse projects (see <a href="website">website</a> for project details and the mid-project update). As part of this effort, a series of 4 workshops is planned to gather stakeholder input. At the 3<sup>rd</sup> workshop held this week, stakeholders discussed risk management, wastewater/graywater reuse, the plumbing code, and liability issues. Additionally, MDH staff presented information about health risk management and reuse, including the need to assess hazards and exposures, using a consistent approach for each water source, adjusting for site specific conditions, and implementing good design practices, source controls, and exposure controls.

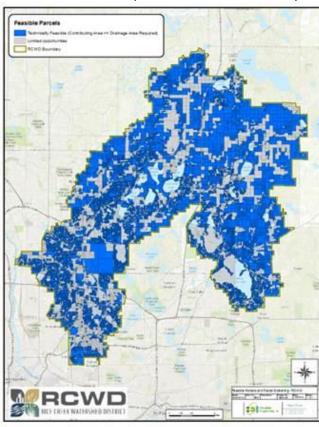
#### **MAWSAC TAC**

Created by the MN Legislature, the Water Supply Technical Advisory Committee (TAC) provides scientific and engineering expertise to inform the work of the Metropolitan Area Water Supply Advisory Committee (MAWSAC). The TAC formed in March 2016 and holds regular meetings to discuss technical issues facing metro water suppliers. Their current task is to determine what technical studies and analyses are needed to improve water supply planning. The broad range of technical needs includes: groundwater recharge, water availability, reuse, effects of climate change on water supplies – especially dealing with multi-year droughts, the quality of water in different source areas, improving use efficiency, groundwater-surface water interactions, and emergency responses to infrastructure or software failures. Three themes emerged from their discussion: (1) optimizing access to and use and maintenance of existing tools and data, (2) analyzing and interpreting conditions at both city and sub-

regional scales so utilities' effects on each other can be understood, and (3) identifying primary vulnerabilities so solutions can be developed in advance of a crisis.

#### **ADVANCING STORMWATER REUSE**

With funding from a BWSR CWF grant, the Rice Creek Watershed District developed a methodology to determine optimal sites for stormwater reuse that would thereby diminish the need for groundwater irrigation wells. To select the planning criteria used in the methodology, a comprehensive literature search was conducted and municipalities within the watershed district were surveyed; maintain a 3' separation between the base of the collection system and the top of the water table was one important criteria. Once the criteria were set, GIS data was used to identify parcels in the district where stormwater reuse is technically feasible. The bright blue parcels in the figure below show where there is enough drainage area to produce the needed supply of stormwater married with sufficient green space to create the demand. The top 11 sites, based on the greatest offset of groundwater, included golf courses, corporate campuses and public/institutional campuses; 2 of these sites have already started reusing stormwater. Although this tool targets groundwater conservation, it can also be used to target pollutant reductions. The cost and sizes of ponds can be estimated with the tool. The methodology is not a model; it requires manual calculations and geoprocessing to address site-specific conditions. An unexpected result of the project was the adoption of a policy by the RCWD Board to financially support cost-effective projects that convert groundwater turf irrigators into surface water irrigators. Read the entire report here: The Stormwater Reuse for Irrigation Assessment Methodology. This methodology can be applied anywhere in the state, but with some additional funding, a GIS toolbox could be created so local users can easily customize the tool so they can apply their own date to the methodology.



## **REPORTS**

#### **STATE OF MN WATER**

- DNR: Stream Flow Report discontinued until spring
- National Drought Mitigation Center: 3/14/17 Drought Monitor

#### **CHEMICALS OF EMERGING CONCERN IN RIVERS**

Scientists from MPCA, the U of St. Thomas, and MDH published Pharmaceuticals and Chemicals of Concern in Rivers: Occurrence and Biological Effects in January 2017. Past research has shown that pharmaceuticals and personal care products (PPCPs) and other endocrine active compounds are present in MN's lakes (Pharmaceuticals and Endocrine Active Chemicals in Minnesota Lakes; 5/13). Though these unregulated contaminants of emerging concern (CECs) are typically detected at only part per trillion (ppt) concentrations, other studies are showing that some that several of these CECs negatively affect aquatic life at very low levels. The January river study was designed to expand knowledge about the extent of CECs in rivers and streams across MN and it looked at CEC effects on the genetic makeup of aquatic organisms. Water was collected from 50 randomly selected sites that represented all 3 of MN's ecoregions, as well as large and small order streams. The samples were analyzed for 146 CECs.

The study found that 58 of the 146 chemicals were found and almost every site had at least 1 compound present (only Pike River in NE MN had no detections). The pharmaceutical iopamidol, an X-ray contrast agent, was the compound most frequently detected, found at 78% of the locations sampled. The antidepressants sertraline, amitriptyline, and fluoxetine were detected in water from 48%, 44%, and 10% of the locations, respectively. The antibiotics sulfamethoxazole and erythromycin were detected in water at 24% and 14% of the locations, respectively. Metformin, a medication used to treat type II diabetes; triamterene, a diuretic; and carbamazepine, an anticonvulsive medicine, were detected at 18%, 16%, and 14% of the locations, respectively. The insect repellent DEET, the plastic component bisphenol A, the corrosion inhibitor benzotriazole, and benzotriazole breakdown products were also widespread.

The biological effect of the contaminants detected in water samples was evaluated in two ways: comparing detected contaminants with compiled toxicological data and by conducting laboratory effect studies to see which contaminants behaved like estrogen and how the contaminants activated fish genes. This information can then be used to predict how a contaminant might adversely affect reproduction, behavior, or other metabolic functions. The effect studies showed that 5 of the 10 water samples exhibited low estrogenic activity. The genetic studies showed that that CECs may impact genes associated with reproduction, development, growth, and tumor formation. In general, there was agreement between the predictions made by the ToxCast database and the laboratory effects studies.

The river findings are generally consistent with the lake study findings that discovered CECs in most of the lakes sampled, including lakes lacking obvious contamination sources. Statistical analyses to evaluate the potential sources of the detected CECs were not completed as part of this study. This study did not distinguish between human, plant, animal and microbial sources of these CECs. Additionally, the synergistic effects of chemical mixtures is unknown.

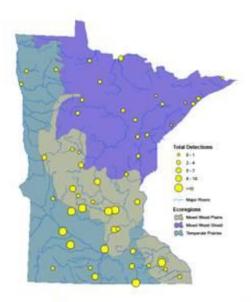


Figure 3. Number of chemicals detected at each sampling location.

## **UPCOMING EVENTS**

- Feb 25-Apr 9: **Smithsonian Water/Ways and MN We Are Water exhibits** on display in Detroit Lakes; the grand opening is from 10-11 on 2/25 at the Becker County Historical Society; additional activities will be posted <a href="here">here</a>
- Mar 19-25: National Water Week
- Mar 20: MnDRIVE 2017 Research Symposium Advancing Industry, Conserving the Environment; 1-5 pm, U of MN Walter Library Digital Technology Center; register here
- Mar 22: Ag Utilization Research Institute New Uses Innovation Forum; 8 am to 5 pm; Crowne Plaza (3131 Campus Drive, Plymouth); \$55; info and registration link here
- Mar 22-23: 19th Joint Annual Conference of the Red River Watershed Management Board and Red River Basin Flood Damage Reduction Work Group; Courtyard by Marriott in Moorhead; agenda; register <a href="here">here</a>
- Mar 23: Shared Water, Shared Responsibility: Engaging Minnesota's Communities, Students, and Policy-Makers; co-sponsored by the U of MN's Humphrey School of Public Affairs' Center for Science, Technology, and Environmental Policy and the U of MN's Water Resources Center; 5:15 p.m.—reception & poster session in Humphrey Atrium; 6:30 p.m.—panel discussion in Cowles Auditorium (301 19th Ave S); event, livestreaming and registration details <a href="here">here</a>; free, but register is required by March 15<sup>th</sup>
- Mar 27: LWC Meeting, 6-8 pm, State Office Building basement hearing room; agenda here
- Mar 27: Agricultural Drainage Workshop; Best Western Hotel, Willmar; \$30; register here
- Mar 27: Industry/Academia Roundtable on Water; 8:30 to 11:30 a.m.; Thomas H. Swain Room-U of MN McNamara Alumni Center (200 Oak St, Minneapolis), more info to come
- Mar 29-31: **Design-Build for Water/Wastewater Conference**; Minneapolis Convention Center; registration costs vary; agenda and registration info here
- Mar 30: Rain Bird's MN Efficient Irrigation Summit re: water-efficiency information and costeffective retrofit and upgrade solutions for municipalities, with product fair; U of M, McNamara
  Alumni Center (200 SE Oak St., Minneapolis); 9am-4 pm; \$10 (includes lunch); register <a href="here">here</a> by
  March 10<sup>th</sup>

- Apr 10-12: International Biomass Conference & Expo; Minneapolis Convention Center; more info here
- Apr 18: DEED MN Water Technology Export Roundtable: The Water Energy Nexus, 10:00 a.m. to 1:00 p.m. @ Aeration Industries (4100 Peavey Road, Chaska) \$30 (includes lunch); register here
- Apr 19: Water Action Day; 8-4 pm meet with legislators, rotunda rally @ 1 pm; more info here
- Apr 24: LWC Meeting, 6-8 pm, State Office Building basement hearing room; details to come
- Apr 25: Freshwater Society Moos Family Lecture: The Death and Life of the Great Lakes by Dan Eagan; St Paul Student Center; reception at 5:30 pm & lecture at 7:00 pm; free but registration is required here
- May 5: N & E Metro Groundwater Management Area Project Advisory Team Meeting; 8:30-11:30; DNR Central Office, 500 Lafayette Road, St. Paul,
- May 9: Minnesota Day at the National Climate Adaptation Forum; registration can be found here
- May 18: MN River Congress; Redwood Falls Community Center; details to come
- Aug 7-9: WaterWorks! Drinking Water Institute for Educators; Lakeville; details here