Water Conservation and Efficiency Program Review

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2. Status of Wisconsin's Water Conservation and Efficiency Goals and Objectives Consistent with the Basin-wide Goals and Objectives:

Wisconsin adopted water conservation and efficiency goals and objectives that are consistent with the Basin-wide goals and objectives. The goals and objectives, which were most recently revised in 2011, can be found on the Department website at: http://dnr.wi.gov/topic/WaterUse/documents/WDNR_Statewide_WCE_Objectives_2011.pdf

Wisconsin reviews these goals and objectives periodically.

3. Water Conservation & Efficiency Program Overview:

The Wisconsin Legislature ratified the Great Lakes—St. Lawrence River Basin Water Resources Compact (Compact) in 2007 Wisconsin Act 227. Act 227 contains additional water conservation and efficiency requirements that go beyond the minimum required by the Compact. These requirements are codified in §281.346 (8), Wis. Stats., and ch. NR 852, Wisconsin Administrative Code.

The Water Use Section of the Wisconsin Department of Natural Resource's Bureau of Drinking Water and Groundwater developed a statewide water conservation and efficiency program that is based on Wisconsin's adaptation of the Great Lakes Regional Conservation and Efficiency Objectives. The program requires mandatory water conservation and efficiency measures for new or increased withdrawals in the Great Lakes Basin, for any new or increased diversions from the Great Lakes Basin, and for any new or increased withdrawals—statewide—that will result in a water loss averaging more than 2 million gallons per day in any 30-day period. Voluntary water conservation and efficiency measures are encouraged for existing water users throughout the state.

This program is implemented through administrative rules, water use permits, and guidance developed in cooperation with the Public Service Commission of Wisconsin (PSC) and the Wisconsin Department of Safety and Professional Services. Rules implementing the program,

primarily ch. NR 852 Wis. Adm. Code, establish the necessary components for a water conservation plan and identify water conservation and efficiency measures by water use sector. For withdrawals subject to mandatory water conservation and efficiency, requirements increase as the volume of withdrawal increases.

In addition, water supply service area plans for public water supply systems must consider water conservation alternatives when identifying options for supplying water. These plans are required by 2026 for all public water systems in Wisconsin serving populations of 10,000 or more; and are typically required immediately for any Great Lakes Basin public water systems serving populations of 10,000 or more seeking a new or increased withdrawal, and for applicants for diversions of Great Lakes water.

4. Consistency with Regional Objectives:

As shown in the table below, the Wisconsin program is consistent with the regional objectives in the promotion of environmentally sound and economically feasible water conservation measures. More details for each objective are available at http://www.glslregionalbody.org/Docs/Resolutions/GLSLRWRRB_Resolution_6- Conservation-Efficiency.pdf.

OBJECTIVES		LEGISLATIVE OR PROGRAM DESCRIPTION
o Guide programs toward	0	Adoption of Water Conservation and Water Use Efficiency
long-term sustainable		Rules (NR 852), 1/1/2011
water use.	0	Mandatory water conservation plans and conservation and
		efficiency measures for new or increased Great Lakes Basin
		withdrawals, all diversions of Great Lakes water, and
		withdrawals with a water loss of ≥ 2 MGD
	0	Water Supply Service Area Planning (§. 281.348, Wis. Stats.),
		rules still in development
 Adopt and implement 	0	Implemented a pilot water use audit and water use efficiency
supply and demand		upgrade at Peninsula State Park
management to	0	Required water conservation plans are in place for 295 water use
promote efficient use		permittees
and conservation of	0	Continued development of irrigation benchmarking program for
water resources.		agriculture and golf courses
 Improve monitoring 	0	Developed a new database for water use data
and standardize data	0	Developed an online reporting system, with ongoing system
reporting among State		refinement. Online reporting is available for all registered water
and Provincial water		users and reporting forms are mailed to those who choose not to
conservation and		report online. Online system automated quality checks continue
efficiency programs.		to improve reporting quality.
	0	New tools to provide water use information at a site specific,
		aggregate and spatial levels to the public. Water use data can be
		searched through an online tool.
		https://dnr.wi.gov/wateruse/pub_v3_ext/source/. Water use data
		is also available spatially through a web viewer.
		https://dnrmaps.wi.gov/H5/?viewer=Water_Use_Viewer

o Develop science,	0	Co-funded a project with the Public Service Commission titled
technology and		"Water Efficiency Potential Study for Wisconsin", which was
research.		completed in late 2011
100001111	0	Funded a project titled "Ecological Limits of Hydrologic
		Alteration" focused on understanding stress to fish populations
		due to reduced streamflows.
	0	Funded a project to develop a hydrogeologic data viewer.
	0	Funded a "proof-of-concept" hydrological model to optimize
		stream flow, withdrawals and crop rotations in a small watershed
		in central Wisconsin
	0	Funded a project entitled "Impacts of potato and maize
		management and climate change on groundwater recharge across
		the Central Sands" to better understand impacts of groundwater
		dependent agro-ecosystems.
	0	Funded a project to conduct a comprehensive survey of Springs
		in Wisconsin.
	0	Funded a project to compile groundwater and lake level data for
		Wisconsin and develop statistical models to understand linkages
		between groundwater, climate and water levels of seepage lakes.
	0	Conducting a study authorized by the Wisconsin legislature to
		evaluate and model the potential impacts of groundwater
		withdrawals on three specific lakes in Central Sands region of
		Wisconsin.
 Develop education 	0	Participated in state conferences with displays and presentation
programs and		for various water use sectors
information sharing for	0	Participated in irrigation management seminars delivered by
all water users.		UW-Extension
	0	Participated in development of a drought early warning system
		for the upper Midwest.
	0	Supporting collaborative development of conservation
		stewardship program for irrigated agriculture.
	0	Assisting in the design and implementation of an online
		continuing education course at UW-Madison to train
		conservation professionals in agricultural water conservation.
	0	Compile an annual Wisconsin Water Use report that examines
		water use trends by location, water use sector, and source.

5. Wisconsin Water Conservation and Efficiency Program Implementation Timeline and Status:

Program Element	Status	
Goals and Objectives	o Completed – December 2008	
	 Updated for statewide application – June 2011 	
Administrative rules	o Chapter NR 852, Wis. Adm. Code effective January 2011	
Websites	 Established DNR water conservation and efficiency page – June 2010 	

Water Conservation Plan Requirements	0	Integrated requirements into new water use permit review and issuance process – December 2011
Water Use Audits	0	Pilot water use audit project at Peninsula State Park – Completed 2013