

<b>Groundwater Management Areas</b>	<b>Consensus Date</b>	<b>Report Chapter</b>
<b>1. Designated Groundwater Management Areas (GMAs) are required to have Groundwater Management Plans.</b>	<b>4/6/06</b>	<b>2.3.a</b>
<b>2. The State should encourage coordinated groundwater management planning in order to avoid or reduce future groundwater problems</b>	<b>6/1/06</b>	<b>3.3</b>
<b>3. Groundwater management planning needs to balance the need for local control of water use and land-use zoning with the lack of synchronization of water resource boundaries with political boundaries.</b>	<b>10/5/06</b>	<b>2.3.a</b>
<b>4. Groundwater management planning must integrate water use and system planning within land use planning.</b>	<b>10/5/06</b>	<b>2.3.a</b>
<b>5. Different planning entities may do the planning in different parts of the state.</b>	<b>4/6/06</b>	<b>2.3.b</b>
<b>a. The department will authorize a planning agency for each GMA. Those planning agencies will:</b>	<b>10/5/06</b>	<b>2.3.b</b>
<b>i. Be a regional planning commission or a representative organization that includes elected officials or their designees, having jurisdiction in the GMA.</b>	<b>10/5/06</b>	<b>2.3.b</b>
<b>ii. To the extent possible, be supported by resolutions from local government units.</b>	<b>10/5/06</b>	<b>2.3.b</b>
<b>iii. Be technically capable to complete the plan in a timely manner</b>	<b>10/5/06</b>	<b>2.3.b</b>
<b>iv. Meet supplementary criteria agreed to by the Groundwater Advisory Committee</b>		
<b>b. The department can withdraw or modify the authorization of a planning agency for cause with public input.</b>	<b>10/5/06</b>	<b>2.3.b</b>
<b>c. If the department withdraws authorization of a planning agency, then it must authorize an alternative planning agency.</b>	<b>10/5/06</b>	<b>2.3.b</b>
<b>6. To facilitate proactive planning and mitigation strategies, a process short of GMA-designation (Groundwater Attention Areas) should be developed to identify areas that are likely to have future groundwater problems.</b>	<b>10/5/06</b>	<b>3.3</b>
<b>7. The process used to designate an area as a Groundwater Attention Area will be as follows: the DNR will identify</b>		

<b>areas of concern based on water imbalance. Using available data, available flow models, or other quantitative methods, they will identify Groundwater Attention Areas as those which meet one or both of these criteria:</b>		
<i>1. Where the existing or projected ground water pumping exceeds the sum of the natural recharge and inflows to an aquifer</i>		
<i>2. Where the average annual ground water discharge to important surface waters (streams, lakes, wetlands and springs) has been reduced by &gt; than 2% for a sustained period.</i>		
<i>Phase 2: Groundwater Attention Areas identified in Phase 1 will be assessed to determine whether they should be identified as ground water management areas (GMAs). The assessing body (undefined herein) gathers existing data, including water levels, surface water flows, inventories of wells, springs, wetlands, and more. If an area meets at least one of the following criteria, it will be designated a GMA.</i>		
<i>1. Drawdown of ground water levels in excess of 10% of the saturated thickness of an unconfined water supply aquifer or the elimination of the potentiometric head at any location in a confined water supply aquifer.</i>		
<i>2. Reduction of average annual base flow to important surface waters in the area &gt; 2%</i>		
<i>3. Ground water withdrawals are causing unacceptable ecological impacts</i>		
<i>4. Ground water withdrawals are causing water quality degradation in water supply aquifer</i>		
<i>Phase 3: Once a site is identified as a GMA, then the structure and process identified in the draft NR kicks in</i>		
<b>7(alt) The process used to designate an area as a Groundwater Attention Area will be as follows: a panel of experts, such as the Groundwater Coordinating Council, appointed by the governor, will identify areas of concern based on water imbalance. Using available data, available flow models, or other quantitative methods, they will identify areas of concern as those which meet one or both of these criteria: (all the subs of the original "7" apply as amended)</b>		
<b>8. The Groundwater Management Plan will manage all of the aquifers in the area concurrently to minimize ecological impact, to limit impacts on base flow of streams, and to sustain groundwater quality and quantity for future generations.</b>	<b>4/6/06</b>	<b>2.3.a</b>
<b>9. Groundwater management planning must recognize the need to promote local planning and regulation to protect:</b>	<b>10/5/06</b>	<b>2.3.c</b>
<b>a. Important groundwater recharge areas</b>	<b>10/5/06</b>	<b>2.3.c</b>
<b>b. Existing and future well zone-of-contribution areas, and</b>	<b>10/5/06</b>	<b>2.3.c</b>

<b>c. Areas most susceptible to groundwater contamination.</b>	<b>10/5/06</b>	<b>2.3.c</b>
<b>10. Groundwater management should balance human health, environmental, economic, and social benefits for the long term, using flexible and adaptive approaches.</b>	<b>10/5/06</b>	<b>2.3.a</b>
<del><b>11. Cooperative management agreements among water utilities and high capacity well owners in GMAs should be established for collaborative regional management and must be consistent with the Groundwater Management Plan.</b></del>	<i>Deleted 11/14/06</i>	
<del><b>a. DNR should be able to withhold or revise the conditions of well approvals based on lack of consistency with approved/adopted management plans.</b></del>	<i>Deleted 11/1/06</i>	
<del><b>b. A conflict resolution process must be established to resolve inevitable disagreements among participants.</b></del>	<i>Deleted 11/14/06</i>	
<b>12. High capacity well permit applications in a GMA should include a quantitative analysis of the impact on groundwater and surface water of pumping in the proposed well. (McCartney)(10/18 consensus to defer to 2007)</b>		<b>Defer to 2007</b>
<b>13. Groundwater management planning in Wisconsin must recognize the constraints of regulations and policies relating to the ability to obtain water from the Great Lakes Basins and the groundwater aquifers. (SEWRPC)</b>	<b>10/18/06</b>	<b>2.3.a</b>
<b>14. The requirements of a GMP will be established by Administrative Rule.</b>	<b>4/6/06</b>	<b>2.3.b</b>
<b>a. GMPs maybe different in different areas but all GMPs must meet requirements set by the administrative rule.</b>	<b>4/6/06</b>	<b>2.3.c</b>
<b>b. The administrative rule will identify the type of information that must be reviewed and considered in the GMP.</b>	<b>4/6/06</b>	<b>2.3.c</b>
<b>c. Best Management Practices that must be considered in the GMP will be identified in the administrative rule.</b>	<b>4/6/06</b>	<b>2.3.c</b>
<b>d. The rule will identify the standard that is being managed to.</b>	<b>4/6/06</b>	<b>2.3.c</b>
<b>e. The GMP must include a monitoring component.</b>	<b>6/1/06</b>	<b>2.3.c</b>

f. The GMP should include progress reporting to the DNR as established by rule.	10/18/06	2.3.c
g. The GMP must include a process for adaptive management.	6/1/06	2.3.c
h. The GMP should include a public participation process. (McCartney)	10/18/06	2.3.c
<i>i. The GMP should include: (SEWRPC)</i>		
i. Inventory and forecast information as appropriate to the study area.	10/18/06	2.3.c
ii. An implementation plan.	10/18/06	2.3.c
iii. <del>preparation, test, and evaluation of alternative plans</del>	Defer discussion	2.3.c
iv. <del>plan selection</del>	Defer	2.3.c
v. <del>a component to quantify impacts from groundwater use (Nauta)</del>	Defer	2.3.c
j. The GMP should identify important recharge areas and identify the standard related to quality and quantity to which they will be managed.	10/18/06	2.3.c
i. <del>Performance standard is to exceed the requirements of the statewide storm water regulations.</del>	Defer	2.3.c
ii. <del>Methods of achieving could vary (limit development, provide compensatory recharge, supplement current demands through water reuse, etc.)</del>	Defer	2.3.c
k. The GMP must include a conservation component.	11/1/06	2.3.c
15. The Legislature should provide a structure for renewable funding for the long-term operation and maintenance of groundwater level and surface water level monitoring and data management systems throughout the state. The monitoring effort should consist of two elements; a base level monitoring system that covers the state, and targeted monitoring systems in existing GMAs or Groundwater Attention Areas that are designed to support the specific needs and management objectives of the area. The targeted monitoring programs should be designed with substantial support and guidance from the GMA or GAA.	4/6/06	5
16. The Legislature should designate the following as a		3.3

<b>Groundwater Attention Area (modified 10/11/06):</b>		
<b>a. Dane County</b>	<b>10/11/06</b>	<b>3.3</b>
<b>b. Little Plover Watershed</b>	<b>10/11/06</b>	<b>3.3</b>
<b>c. St. Croix County</b>	<i>tabled</i>	
17. <i>Cost-of-service disparities among utilities must be addressed by the PSC, especially upon interconnection and sharing of services under cooperative agreements.</i>	<i>Defer</i>	
18. <i>Guidance manuals should be developed for high capacity well owners/operators addressing the issues discussed in the Task Force Report (Task E).</i>	<i>Defer</i>	
19. <i>Model management agreements and ordinances should be prepared for use by cooperating organizations (water utilities and well-owners).</i>	<i>Defer</i>	
<b>20. Groundwater management plans will be written documents developed with the participation of local government units, owners of high capacity wells, and other interested parties.</b>	<b>10/18/06</b>	<b>2.3.c</b>
<b>21. Groundwater management plans will identify groundwater management goals specific to the GMA.</b>	<b>10/18/06</b>	<b>2.3.c</b>
<b>22. The department will approve or disapprove each groundwater management plan after the public hearing for the plan.</b>	<b>10/18/06</b>	<b>2.3.b</b>
<del>23. <i>Five-year updates of groundwater management plans are required and will be approved or disapproved by the department.</i></del>	<del><i>Deleted 10/18/06</i></del>	
<del>24. <i>If a previously approved plan conflicts with state law, the department may rescind its approval.</i></del>	<del><i>Deleted 10/18/06</i></del>	
<b>25. A groundwater management agency with an approved and adopted plan is empowered to collect fees and assessments for groundwater management activities.</b>	<b><i>Defer</i></b>	
<b>Correction of Existing Statutory and Regulatory Barriers to Water Conservation in Wisconsin ( <b>Consensus to defer this section to discussion for the report due in 2007</b> )</b>	<b>10/18/06</b>	
26. <i>Development/promulgation of regulations to require conservation for high capacity well permit holders under the Groundwater Quantity Act</i>	<i>Defer</i>	

27. <i>Enactment of legislation precluding large-scale water users from opting out of available public water utility systems – e.g. by means of mandatory connection provisions or high capacity well permit conditions</i>	defer	
28. <i>Recommendations that the Public Service Commission apply an increasing block rate structure or other conservation-oriented structure to the state's GMAs and promote water conservation measures statewide.</i>	defer	
29. <i>Development of a regulatory and institutional framework addressing/promoting the use of reclaimed water as a means to recharge groundwater supplies and to decrease water demand.</i>	defer	
30. <i>Amendment of Wisconsin Statute section 281.35 to require all entities seeking new or increased water withdrawal in excess of 100,000 gallons per day (v. the 2 mgd trigger under the current statute) to have implemented conservation measures prior to approval, consistent with the high capacity well permit threshold under the Groundwater Quantity Act.</i>	defer	
<b>High Capacity Well Permitting Approval Process (<u>defer, except for GMAs, until 2007</u>)</b>	<b>10/18/06</b>	
<b>31. High capacity well approval criteria in GMAs will include testing, quantitative analysis, and numerical simulation requirements and conservation considerations.</b>	<b>11/1/06</b>	<b>2.3.d</b>
<b>32. Within GMAs, new high capacity well approvals must be consistent with the Groundwater Management Plan adopted for the GMA.</b>	<b>11/1/06</b>	<b>2.3.d</b>
<b>32'. After 10 years, existing high capacity well approvals in GMAs may be modified to be consistent with the Groundwater Management Plan adopted for the GMA.</b>	<b>11/1/06</b>	<b>2.3.d</b>
<i>Funding</i>		
<del>33. Recommendation to fund GMA process – both existing GMAs and potential areas of concern.</del>	<del>Removed 11/14/06</del>	
<b>34. DNR should develop a rule for funding local aids and mitigation in GMAs, GAAs, and GPAs.</b>		<b>2.4</b>
<b>a. The administrative rules will establish funding guidelines.</b>		<b>4.3</b>
<b>b. Structured funding processes and opportunities should be developed to support research, planning and management activities in GAAs.</b>		<b>4.4</b>
<b>c. Funds dedicated to mitigation activities shall be</b>		<b>4.4</b>

<i>disbursed in accordance with an overall funding strategy that also addresses planning and implementation aspects of GMAs.</i>		
<b>d. Funding of mitigation activities in GMAs should be on a cost-sharing basis.</b>		<b>4.2</b>
<b>e. Costs of mitigation activities ordered by the department in GMAs will be partially funded through cost-sharing by the owner of the well.</b>		<b>4.2</b>
<b>f. The department will request statutory authority for funding under s. 13.10, Wis. Stats., when the appropriated amount is insufficient to cover mitigation activities.</b>		<b>4.2</b>
<b>35. The Legislature should provide renewable funding for planning, management, and mitigation in GMAs, GAAs, and potential areas of concern.</b>	<b>11/14/06</b>	<b>2.4</b>
<i>Additional items</i>		
<b>36. Areas designated as Groundwater Attention Areas shall be eligible to receive funding to support research, pilot programs, management strategies and planning activities.</b>	<b>10/11/06</b>	<b>3.3</b>
<b>37. A process or mechanism needs to be created to determine when an area should be classified as a GMA or Groundwater Attention Area and also when it is appropriate to change the classification of an area.</b>	<b>10/11/06</b>	<b>3.4</b>
<b>38. The rules shall designate Groundwater Attention Areas, consistent with those in item 16, and shall delineate a funding program to support research, management strategies and planning activities in those areas.</b>	<b>11/1/06</b>	<b>3.4</b>
<i>39. The legislature shall direct the DNR to develop administrative rules to implement the concept of Groundwater Attention Areas and shall authorize a funding program to support research, pilot programs, management and planning activities in those areas.</i>		
<b>40. DNR will act consistently in regulatory and non-regulatory activities to further the goals of the Groundwater Management Plan.</b>	<b>11/14/06</b>	<b>2.3.d</b>
<b>41. After 10 years, the legislature shall establish a committee to evaluate the effectiveness of the statute (281.34) and identify other areas to be designated as a GMA.</b>	<b>11/14/06</b>	<b>3.2</b>
<i>a. Every seven years, the WGNHS in consultation with the USGS, will identify to the Groundwater Coordinating Council (GCC) any "regionally defined" areas of the state where groundwater quantity availability, coupled with water quality degradation, may warrant designation</i>		

<p><i>as a GMA or GAA.</i></p>		
<p><i>b. The GCC will conduct a review of the information provided by the WGNHS and, within six months, forward to the DNR recommendations concerning the need for designation of identified areas as potential GAAs or GMAs.</i></p>		
<p><i>c. Within six months of receipt of the GCC recommendations, the DNR shall submit a report to the Natural Resources Board that includes a thorough environmental, economic and social analysis of the GCC findings and, based on that analysis, recommendations for rule-making to formally designate additional GAAs and GMAs.</i></p>		
<p><i>d. In accordance with the recommendations of the Natural Resources Board and within one year from receiving direction from the Natural Resources Board, DNR will complete the rule promulgation process to establish the appropriate designations.</i></p>		
<p><b>42. The Department, using available funds and resources, should at its discretion provide assistance and support in areas where potential groundwater quantity problems may be developing. The department should encourage proactive stakeholder initiatives, consistent with the State goal of avoiding serious future water supply/groundwater and surface water quantity problems.</b></p>		3.5
<p><b>43. Designation of GMAs should not be restricted to 150-foot drawdown in a confined aquifer or exclude unconfined aquifers.</b></p>	11/14/06	3.2?