

**NATIONAL GROUND WATER ASSOCIATION  
CUMULATIVE PROGRESS REPORT  
MANAGED AQUIFER RECHARGE WORK GROUP**

**NGWA MAR Work Group Priorities  
Progress Report – October 21, 2021**

<b>Work Group Activity</b>	<b>Progress</b>
1) Review and summarize what other groups in MAR are doing to avoid redundancy and look for cooperative collaborative opportunities	Completed
7) Develop ideas for MAR focused series of events including training courses and symposia related to MAR focused on (1) case studies, (2) basics of developing a MAR project from planning to field studies to pilot testing to full scale, (3) challenges with MAR including but not limited to plugging and contaminant issues, (4) MAR as a key tool for regional water resiliency	1 – Planning MAR Sessions and Workshops for GWW 2020 Completed 2 – Met with GWPC (4/20) and was invited to support Sept 2020 MAR Workshop 3 – Met with EPA/WateReuse Assoc/AWWA/ACWA on National Water Reuse Action Plan on multiple occasions and developed case studies on integrated water resource management incl MAR to present to 2021 NWRAP conference
4) Consider developing an inventory of MAR regulations and guidance	Completed for states that submitted materials – CA, WA, AZ
3) Review NGWA MAR-related documents and recommend updates and-or new materials - <a href="https://www.dropbox.com/sh/ukivr9bsusstwmm/AAAbBQx4PJYayZ_j9LJLJyQWa?dl=0">https://www.dropbox.com/sh/ukivr9bsusstwmm/AAAbBQx4PJYayZ_j9LJLJyQWa?dl=0</a>	1 - Materials in Dropbox 2 –MAR Terminology completed (6/20)
5) GW Journal Special issue (or general issue) devoted to MAR providing 15 to 20 brief but comparably described case studies, coupled with an editorial article including overview of MAR terminology, types, recent advances, lessons learned and future tied into water resiliency	Currently in progress (10/2021)
6) John Cherry’s “The Groundwater Project” online <a href="http://gw-project.org/about.php">http://gw-project.org/about.php</a> - the group might work on an approach on how to engage on that extensive online development.	Bill Alley leading NGWA response on MAR for GW Project

**NGWA MAR Work Group Priorities  
Progress Report – November 16, 2022**

<b>Work Group Activity</b>	<b>Progress</b>
1) Review and summarize what other groups in MAR are doing to avoid redundancy and look for cooperative collaborative opportunities	Completed
2) Develop ideas for MAR focused series of events including training courses and symposia related to MAR focused on (1) case studies, (2) basics of developing a MAR project from planning to field studies to pilot testing to full scale, (3) challenges with MAR including but not limited to plugging and contaminant issues, (4) MAR as a key tool for regional water resiliency	1 – Planning MAR Sessions and Workshops for GWW 2020 Completed 2 – Met with GWPC (4/20) and was invited to support Sept 2020 MAR Workshop 3 – Met with EPA/WaterReuse Assoc/AWWA/ACWA on National Water Reuse Action Plan on multiple occasions and developed case studies on integrated water resource management incl MAR to present to 2021 NWRAP conference 4 – Planning MAR Conference - Managed Aquifer Recharge: Unleashing Resiliency, Protecting Groundwater – San Antonio TX, April 24-25, 2023
3) Consider developing an inventory of MAR regulations and guidance	Completed for states that submitted materials – CA, WA, AZ
4) Review NGWA MAR-related documents and recommend updates and-or new materials - <a href="https://www.dropbox.com/sh/ukivr9bsusstwwm/AAAbBQx4PJYayZ_j9LJLJyQWa?dl=0">https://www.dropbox.com/sh/ukivr9bsusstwwm/AAAbBQx4PJYayZ_j9LJLJyQWa?dl=0</a>	1 - Materials in Dropbox 2 –MAR Terminology completed (6/20) 3 – Initiated review of NGWA white papers related to MAR – March 2022
5) GW Journal Special issue (or general issue) devoted to MAR providing 15 to 20 brief but comparably described case studies, coupled with an editorial article including overview of MAR terminology, types, recent advances, lessons learned and future tied into water resiliency	Completed September 2022
6) John Cherry’s “The Groundwater Project” online <a href="http://gw-project.org/about.php">http://gw-project.org/about.php</a> - the group might work on an approach on how to engage on that extensive online development.	Bill Alley completed NGWA response on MAR for GW Project

**NGWA MAR Work Group Priorities  
Progress Report – December 29, 2023**

<b>Work Group Activity</b>	<b>Progress</b>
1) Review and summarize what other groups in MAR are doing to avoid redundancy and look for cooperative collaborative opportunities	Collaborated with GWPC in organizing the State Regulatory Panel for the Managed Aquifer Conference, San Antonio TX
2) Develop ideas for MAR focused series of events including training courses and symposia related to MAR focused on (1) case studies, (2) basics of developing a MAR project from planning to field studies to pilot testing to full scale, (3) challenges with MAR including but not limited to plugging and contaminant issues, (4) MAR as a key tool for regional water resiliency	1 – Initiated discussion and special meetings on issues in Aquifer Storage and Virus Inactivation 2 – Held special session on USACE MR strategy and feasibility studies 3 – Held special session on US Bureau of Reclamation MAR activities 4 – Held special session on EPA National Water Reuse Plan and relation to MAR 5 – Held successful MAR conference in San Antonio TX – April 2023 6 – Served as regulatory review group for USACE MAR strategy, USGS water use survey to include MAR and FEMA Floodplain rule regarding MAR structures in floodplain 7 – Prepared WRDA 2024 proposal to fund USACE working group, national assessment and feasibility studies
3) Developing an inventory of State MAR regulatory contacts	Compiling for each state
4) Review NGWA MAR-related documents and recommend updates and-or new materials	1 – Updated MAR documents on NGWA Website for posting in 2024: MAR Info Brief ASR Best Suggested Practice Financing MAR Projects Climate Change Position Paper Groundwater Position Paper  2 - Developing concept for Surface Infiltration BSP
5) Continue preparing MAR articles for NGW publications	GWMR Financing MAR Projects
6) MAR Webpage Reorganization	Finalized MAR Webpage organization for implementation in 2024