

# Meeting Agenda/Summary

<b>Meeting</b>	Water Quality Division: Onsite Wastewater Advisory Committee (OWAC)
<b>Date</b>	April 5, 2022
<b>Start / End Time</b>	11 am – 1 pm
<b>Virtual Meeting</b>	Zoom link in calendar invite
<b>Documents</b>	Located in ShareFile - <a href="https://azdeq.sharefile.com/">https://azdeq.sharefile.com/</a>

## MEMBERS

- ☒ David Bartholomew, Bartholomew WW Services, Inc.
- ☐ Mark Basic, Basic Drilling Company
- ☒ Colin Bishop, Anua
- ☐ Bryan Chiordi, Orenco
- ☒ Jake Garrett, Gila County, Chair
- ☐ Michael Stidham, EZ Treat, Inc
- ☒ Frederick Tack, GHD Inc.

- ☐ Jaimee Griffin, PE Drilling
- ☒ Thomas Hanson, Maricopa County
- ☒ Dawn Long, First American Septic Service LLC
- ☒ Cullin Pattillo, Mohave County
- ☒ Kitt Farrell-Poe, University of Arizona
- ☐ Jenny Vitale, PE, Civil Engineer
- ☐ Joelle Wirth, Summit Environmental LLC

## ADEQ STAFF

- ☐ Trevor Baggione, ADEQ, Water Quality Division Director
- ☒ Naveen Savarirayan, Manager, Groundwater Protection Value Stream
- ☐ Matt Ivers, Groundwater General Permits and Reuse
- ☒ Theresa Gunn, Project Manager
- ☐ Jon Rezabek, Legal Specialist
- ☒ Karthik Kumarasamy, PhD, Engineer III
- ☒ Linneth Lopez, Environmental Engineering Specialist III
- ☒ Randy Matas, Deputy Division Director

- ☒ Raymond Morgan, Trainer, Groundwater Protection, Groundwater Permits & Reuse Unit
- ☒ Luke Peterson, Environmental Engineer Specialist 3, Groundwater Protection
- ☐ Heidi Welborn, Legal Support
- ☐ Morgan O'Connor, Community Liaison
- ☒ Meghan Railsback, Atlas
- ☒ Edwin Vandegrift, Atlas

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Agenda Topic	Lead	Overview	Documents (* on ShareFile)	Action Requested	NOTES
<b>Welcome</b> (10 mins)	Jake Garrett, Chair	<ul style="list-style-type: none"> <li>Roll Call</li> <li>Meeting Notes</li> <li>Review Agenda</li> <li>Review Ground Rules</li> </ul>	March Summary* April Agenda* Ground Rules*	Approval of Notes	NOWRA sponsored a meeting with Senator Kelly's office, Joe Russell. Jake and Dave attended. Purpose was to seek full funding for decentralized systems (\$50 million). Topics: finding new water. NOWRA is putting together a list of NGOs.
<b>Draft QASAP for Sampling</b> (30 mins)	Atlas Technical Consultants	Atlas will review the draft plan and approach to the sampling project.	Draft QASAP	For Discussion and Feedback	<p>Naveen stated, In God we trust, all others bring data. ADEQ is a data driven organization. This is an important project to give us data on how well the current systems are performing. Meghan Railsback, Atlas field coordinator, provided an overview of the QASAP for sampling onsite wastewater treatment facilities.</p> <ul style="list-style-type: none"> <li>400 sites to be sampled including PPL, conventional and 1.09 systems</li> <li>Compare results to the rule</li> <li>Voluntary sampling, any systems out of compliance will not be issued a violation</li> <li>Will be a blind study; ADEQ will not have homeowner information</li> <li>30 will be sampled multiple times over 5 months</li> <li>Sampling influent and effluent</li> <li>Field activities include the influent and effluent samples, photographs, field notes, homeowner questionnaire, and inspection.</li> </ul> <p>Questions from Members:</p> <ul style="list-style-type: none"> <li>Will you be surveying the source water; homeowner questionnaire? Yes, either while on site or prior if not at home. Will also do an inspection.</li> <li>What about the timing of the sampling? Single visit hasn't thought much about the timing as they are addressing the time limits to get to the lab. Want to be there in the morning. No sampling after 3 pm.</li> <li>Effluent sample will be taken before it goes into the leach field to avoid disruption of the leach field.</li> <li>Will it be helpful if the County identifies problem areas? (North Kingman in Mohave County) Yes, if the homeowners are willing to be sampled. Mohave County will assist in contacting homeowners. About half of the systems in the county have no D-box and only one leach field. (Lewis Equipment, Calvin Septic Service, Daniels Septic Pumping might be helpful)</li> <li>Need to qualify the site, set up a proper sampling protocol. A lot that needs to be done to ensure that the results are meaningful. Grab sampling out of septic tanks</li> </ul>

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					<p>are not going to give you good results. Pumpers are not the right people to determine the right location of the sample.</p> <ul style="list-style-type: none"> <li>• Need to add a sampling port between the tank and the leach field.</li> <li>• Rather than grab samples consider a 12- or 24-hour sampling event and go back and collect; consider smaller sample size to accommodate the additional costs of doing the longer samples</li> <li>• Colin to send information of how NSF sets up the sampling in Texas</li> <li>• Consider scheduling a group call on the sampling methods to give additional input (Kitt, Colin, Dawn) to further discuss the approach</li> <li>• Can you do a composite sample and meet the time for getting to the lab</li> <li>• Sampling at a D-box will be an issue as they are not marked and will be difficult to find (will need locator device and then uncover)</li> <li>• Peristaltic pump for testing: how does that work? Concern about a filter on the pump and how that might impact the sample result. Pump can be used with and without the filter. Will need to check to ensure the filter will not impact the results.</li> <li>• Effluent has to be as pure as possible without the pump changing its parameters.</li> <li>• Would like to have a diagram of where the samples will be taken for each type of system.</li> <li>• NOT inspections may occur when the house is vacant or renovated and not provide good sample</li> <li>• Need to be statistically relevant data.</li> <li>• More thought on how the sites are selected and the samples are taken</li> <li>• Don't have the biggest critics here to say what they want to see out of testing. Think about how they might attack the data.</li> <li>• <b>What do we need to move forward?</b> <ul style="list-style-type: none"> <li>○ Need to know where the samples are going to be taken</li> <li>○ Need to reconsider the single sample versus composite sample</li> <li>○ QA/QC plan</li> <li>○ Sample after the septic tank and filter to match rule <ul style="list-style-type: none"> <li>■ Filters won't be in the tank (not required before 2005)</li> <li>■ Prequalify sites</li> </ul> </li> <li>○ NSF 360 field testing protocol hasn't been used but has additional information</li> <li>○ Other states have field verification protocols (pull information from those)</li> </ul> </li> </ul>
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<b>Expectations for May 4 Joint Meeting</b> (20 mins)	All	What are the OWAC member expectations for the next in-person meeting?		For Discussion	<p>Members discussed what they would like to accomplish during the April 4 meeting.</p> <p>Tiered Approach decision (what does this mean and people are in agreement)</p> <ul style="list-style-type: none"> <li>Once we know the tiers, the TWGs can continue their work</li> <li>Need to know the structure we are working with</li> </ul> <p>What is the scientific basis we are building upon (this will lead to debate)</p> <ul style="list-style-type: none"> <li>Indicator organisms</li> <li>Soils</li> </ul> <p>Frederick has put together information on the tiers and 5 foundational considerations</p> <ul style="list-style-type: none"> <li>Soil science and hydrogeology</li> <li>Microorganisms</li> <li>Hydrology and hydraulics</li> <li>Virology</li> <li>Soil chemistry</li> </ul> <p>He also presented:</p> <ul style="list-style-type: none"> <li>Tiered policy examples from California Water Board</li> <li>Washington State Department of Health (tiered treatment standards)</li> <li>New Hampshire (not tiered) but has a maintenance and operations program with burden on the operator and certification of designers of installers</li> <li>Florida has significant research especially on loss of infiltration rates and cost of a 5-year septic tank inspection program</li> </ul> <p>Frederick's presentation to be the kick off for the May 4 meeting. He will give us some topics for comment back to him for integration into the presentation. This will give us a meaningful discussion for Arizona.</p> <ul style="list-style-type: none"> <li>Refine the questions to start the discussion</li> <li>Could give some homework as well on how to define soil tiers</li> <li>The tiers will put us on the road to move forward with O&amp;M and certification</li> </ul> <p>OWAC suggested sending advance materials at least one week prior and it would be a good idea to invite Dr Rubin and potentially UofA soil scientists.</p>
<b>Technical Work Group Reports</b> (30 mins)	TWG Chairs	<ul style="list-style-type: none"> <li>Design and Permitting: Jake</li> <li>Future State: Colin</li> <li>Operations,</li> </ul>		For Discussion and Feedback	<p>Due to time constraints, this item was tabled.</p>

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		<p>Maintenance and Certification: Dave</p> <ul style="list-style-type: none"> <li>PPL: Joelle</li> </ul>			
<b>Outreach Strategy</b> (5 mins)	Theresa Gunn, Project Manager	Response to request from OWAC members to have stakeholder meetings across the state		For Information	Due to time constraints, this item was tabled.
<b>Program Updates</b> (20 mins)	Matt Ivers, Groundwater Protection Permits Unit Manager	<ul style="list-style-type: none"> <li>NPRM (Phase 1)</li> <li>SPS for Review</li> <li>Phase 2 Exemption Memo</li> </ul>			Due to time constraints, this item was tabled.
<b>Review New Action Items</b> (5 mins)	Theresa Gunn, Project Manager	New Action Items	Action Plan	For Information Only	<b>In-person TWG Meeting: May 4, 2022 at ADOA, 100 N 15<sup>th</sup> Ave, Room 300</b>
<b>Adjourn</b>	Jake Garrett, Chair				<p><b>Next Meeting: May 3, 2022</b></p> <p>The group agreed to cancel the meeting and focus on preparing for the May 4 in-person TWG meeting.</p>

