



Meeting Agenda/Summary

Meeting	Water Quality Division: Onsite Wastewater Advisory Committee (OWAC)
Date	November 2, 2021
Start / End Time	10 am – 1:00 pm (15-minute break at 11:30 am)
Virtual Meeting	Zoom link in calendar invite
Documents	Located in ShareFile - https://azdeq.sharefile.com/

MEMBERS

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| <input checked="" type="checkbox"/> David Bartholomew, Bartholomew WW Services, Inc. | <input type="checkbox"/> Maher Hazine, PE, REI Development Services, LLC | <input checked="" type="checkbox"/> Michael Stidham, EZ Treat, Inc |
| <input checked="" type="checkbox"/> Mark Basic, Basic Drilling Company | <input checked="" type="checkbox"/> Dawn Long, First American Septic Service LLC | <input checked="" type="checkbox"/> Jenny Vitale, PE, Civil Engineer |
| <input checked="" type="checkbox"/> Colin Bishop, Anua | <input checked="" type="checkbox"/> Kathy Mills, Mills Engineering, LLC | <input checked="" type="checkbox"/> Joelle Wirth, Summit Environmental LLC |
| <input type="checkbox"/> Suzanne Ehrlich, Yavapai County | <input type="checkbox"/> David Monihan, PE, RLS, Coconino County | <input checked="" type="checkbox"/> Kitt Farrell-Poe |
| <input checked="" type="checkbox"/> Jake Garrett, Gila County | <input checked="" type="checkbox"/> Cullin Pattillo, Mohave County | <input checked="" type="checkbox"/> Ashley Chatfield (Design/Permit TWG Co-Chair) |
| <input checked="" type="checkbox"/> Thomas Hanson, Maricopa County | <input checked="" type="checkbox"/> Craig Rasmussen, University of Arizona | |

ADEQ STAFF

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| <input checked="" type="checkbox"/> Trevor Baggio, ADEQ, Water Quality Division Director | <input checked="" type="checkbox"/> Linneth Lopez, Environmental Engineering Specialist III |
| <input checked="" type="checkbox"/> Naveen Savarirayan, Manager, Groundwater Protection Value Stream | <input checked="" type="checkbox"/> Raymond Morgan, Trainer, Groundwater Protection, Groundwater Permits & Reuse Unit |
| <input type="checkbox"/> Matt Ivers, Groundwater General Permits and Reuse | <input checked="" type="checkbox"/> Luke Peterson, Environmental Engineer Specialist 3, Groundwater Protection |
| <input checked="" type="checkbox"/> Theresa Gunn, Project Manager | <input checked="" type="checkbox"/> Heidi Welborn, Legal Support |
| <input type="checkbox"/> Jon Rezabek, Legal Specialist | <input type="checkbox"/> Morgan O'Connor, Community Liaison |
| <input checked="" type="checkbox"/> Karthik Kumarasamy, PhD, Engineer III | |

Agenda Topic	Lead	Overview	Documents (* on ShareFile)	Action Requested	NOTES
Welcome (5 mins)	Jake Garrett, Chair	Roll Call Meeting Notes Review Agenda Review Ground Rules	Oct Summary* Nov Agenda* Ground Rules*	Approval of Notes	Theresa called roll. Oct summary submitted for feedback through ShareFile; no comments received. Motion to approve notes by Joelle and seconded by Jenny.

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<p>Technical Work Groups Reports (45 mins)</p>	<p>TWG Chairs</p>	<ul style="list-style-type: none"> ● O&M: Dave B ● 1.09: Maher ● Design/Permitting: David M/Ashley ● Future State: Colin ● PPL: Joelle ● Training/Certification: Cullin <p>Joint TWG Meeting: Theresa</p>		<p>Status Reports</p>	<p>O&M TWG - Dave reported the team fleshed out the O&M outline and addressed the questions from OWAC members. About 25% complete in developing the outline.</p> <p>1.09 - Meeting is tomorrow. Maher is out sick but Jake will lead the meeting.</p> <p>Design and Permitting: Ashley reported the group met in October. Some of the groups had a change in leadership. Next meeting November 10 to discuss topics from the small groups. Topics under discussion: changing typical sewage definition, moving away from fixture counts, modifications to tank size chart, reviewing USDA versus ASTM, tank criteria, and setbacks. ROI/NOT is on hold until O&M makes a recommendation on the notice of transfer.</p> <p><u>OWAC Questions/Comments on design and permitting:</u></p> <ul style="list-style-type: none"> ● Concern about going back to perc tests (in strong cemented soils) when we have a wealth of data from previous perc testing (all of the counties have the records) ● The data exists, we need to put it to work ● Setbacks group needs to know where ADEQ is going on setbacks; ADEQ has no direction on future setbacks as the agency is looking for new direction from the TWG ● Perc tests are not reflective of the water that is put on the ground over time ● Consider a site-specific SAR table to fill in some of the gaps ● It might be of value to consider where local plumbing code conflicts with proposed horizontal setbacks. ● I always thought setbacks from buildings are more so to protect the building structure from subsidence (wetting of soil affects its structural properties) ● Setbacks also consider potential human contact to septic (fumes, vectors, etc.) ● Setbacks could align with a tiered level of alternative systems; a tiered level could also work with conventional system based on constituency ● Need document re: radius of influence? Depends on soil and structure. <p>Future State: Theresa reported for Colin. The group met last week and started discussion on the future state we wanted for use of the wastewater treatment water. The group is doing research to be able to tell the story about the impact of OWWTF and the amount of water which could be reused. The team is doing research with ADWR and within ADEQ. Colin is going to ask if people on the NSF reuse group are interested in discussing a potential new approach with Arizona and the team is looking to see if others need to be added to the group for this conversation.</p> <ul style="list-style-type: none"> ● I like the idea of using decentralized wastewater treatment as part of a regional water plan to put water back into the ground.
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					<p>PPL: Joelle reported the group is working on the tier approach and performance parameters. Will have more to report on for next week.</p> <p>Training/Certification: Cullin reported the team has developed an understanding of what they want to do but not sure how to implement.</p>
<p>5-Year Plan Overview (10 mins)</p>	<p>Theresa Gunn, Project Manager</p>	<p>Review of the 5 tasks and current status</p>	<p>https://static.azdeq.gov/wqd/rule-making/onsite/5yr-plan-owwt.pdf</p>	<p>For Discussion</p>	<p>Theresa provided an overview of the actions underway for implementation of the 5-year plan and the activities we are working on including development of a method to determine impact of septic systems in Arizona. The group discussed items to consider regarding the inspection methodology.</p>
<p>Stacking (Treatment Train) (45 mins)</p>	<p>Ray Morgan, Engineer Groundwater Protection</p>	<p>Discussion of the ADEQ technical briefing paper on stacking</p>		<p>For Discussion</p>	<p>Ray reviewed ADEQ's position on a treatment train (stacking). Presentation is attached. ADEQ is providing clarification on the current rule. ADEQ is open to having different approach to treatment train in phase 2 rule.</p> <p><u>OWAC Member Questions and Comments:</u></p> <ul style="list-style-type: none"> • Where is this a problem? Are there no other solutions? • Rule does allow stacking (4.08 D.11. b. allows to use pretreatment before a mound) • Don't think ADEQ is doing what is reflected in the presentation • Need to change the definition of typical sewage • We know what is coming in and out based on NSF testing • This seems heavy handed right now; should wait to address in Phase 2 • This is stepping backwards instead of moving forward where we want to go • Disappointed this is the way we are going • Need to look at the influent not just the effluent • The NSF report doesn't include all of the information on the testing program • Have not seen a proper amount of alkalinity in Arizona; adding alkalinity should not be considered a treatment train • Continue where we are in the state now • Need direction on what parameters are we looking at for the effluent? • If testing was done with typical sewage different than Arizona's how does that impact Arizona's position • What qualifies as pre-treatment? Is pre-treatment an element of the treatment train? • Look at the information on the Wisconsin mound • Pre-treatment prior to a final treatment (pretreatment - what I do to a stain before I wash the document) • Need to have a single definition for pre-treatment (see A309(A)(7)(d))

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					<ul style="list-style-type: none"> ○ Is soil the treatment and pre-treatment is what is done before the effluent reaches the soil ○ Typical effluent - pretreatment and what is an OWWTF ○ High strength effluent - pretreatment and what is an OWWTF
Phase 1 Rulemaking (15 mins)	Theresa Gunn, Project Manager	Provide an update on the rulemaking schedule		Status Report	Stakeholder comments due on November 12. A reminder email will be sent this week.
Phase 2 Rule Outline (20 mins)	Jake Garrett and Jenny Vitale			For Discussion	About 75% complete. Need input from training/certification and operations and maintenance TWGs. This may be the deliverable for the February meeting.
Technical Briefing Papers (30 mins)	Theresa Gunn, Project Manager	Opportunity for OWAC members to ask questions on the other technical briefing papers		For Discussion	Theresa reported the staff is reviewing the comments on the papers.
Program Updates (5 mins)	Theresa Gunn, Project Manager	<ul style="list-style-type: none"> ● SPS ● PPL 		For Information Only	Theresa stated the team has developed the approach for distribution to counties which will have 60 days to implement a new policy after the issue date. There is no update on PPL at this time.
Review New Action Items (5 mins)	Theresa Gunn, Project Manager	New Action Items	Action Plan	For Information Only	Report on 4.01 meeting – Dave B stated Trevor requested a convincing paper for the big pipe side. Onsite issues were addressed. Jake stated liquid sewer is also being considered by the agency. Tom asked if the liquid sewer applies to a subdivision on a hillside with a septic system which feeds into a sewer system?
Adjourn	Jake Garrett, Chair				Jake adjourned the meeting at 1 pm.

No.	Action to be Taken	Person Responsible	Due Date	Comments	Percent Complete				Date Complete
34	Strawman for Phase 2 rule structure	Jenny and Jake			25	50	75	100	
44	Need paper on radius of soil influence for Jenny	Kitt			25	50	75	100	
45	Outline of the Strawman from O&M and Training and Certification to Jenny and David	Theresa/Cullin			25	50	75	100	
46	Which work group is working on 'treatment train'	Theresa			25	50	75	100	
47	Look at 4.08 D.11. b.	Ray			25	50	75	100	
48	Send any additional documentation to Theresa	Joelle			25	50	75	100	
50	Talk through pre-treatment (what is pre-treatment)	Ray, Kitt, Heidi			25	50	75	100	
51	Discuss the book status for the February Meeting	Theresa/Jenny			25	50	75	100	