

# University of Arizona Water Resources Research Center, Annual Report 2016

## Appendix B

### Section 1 - Grants Received

Title	Sponsor
State Water Resources Research Institute Program	United States Geological Survey, NIWR
Water Education for k-12 Students and Teachers	City of Peoria
Water Education for k-12 Students and Teachers	City of Tucson
Transboundary Aquifer Assessment Program (TAAP).	United States Geological Survey
Needs Assessment and Recommendations for Water Resources in Cobre Valley.	Bureau of Reclamation
Expansion of Arizona Project WET (APW) in the Phoenix AMA.	Arizona Department of Water Resources
Creation of a conceptual water budget for the Upper Santa Cruz River and assistance with engagement activities.	Sonoran Institute

### Section 2 - 104b Water Research Grants

Title	University	Amount
2015		
Water Sources Over Time for a Semi-Arid River: Implications for water resources and groundwater modeling	UA	\$9,985
Impact of Upgraded Wastewater Reclamation Facilities on Chemicals of Emerging Concern in the Effluent-dependent Lower Santa Cruz River	UA	\$9,998
Characterization of Uranium and Arsenic in Unregulated Water Sources on the Navajo and Hope Reservations	UA	\$10,000
2016		
Sunlight-Driven Reactive Oxygen Species Production for Natural Attenuation of Wastewater Trace Organic Compounds.	UA	\$9,999
Recycled Water Use of Agriculture: On-farm Demonstration and Evaluation	UA	\$10,000

## Section 3 - WRRC Media Appearances

Date	Title	Media Outlet
January 28, 2016	For Sale in Cochise County: Big Dollars Equal Big Land Buys – Part 3	Arizona Public Media <a href="https://news.azpm.org/s/36782-for-sale-in-cochise-county-how-much-water-is-there/">https://news.azpm.org/s/36782-for-sale-in-cochise-county-how-much-water-is-there/</a>
January 29, 2016	For Sale in Cochise County: Big Dollars Equal Big Land Buys – Part 4	Arizona Public Media <a href="https://news.azpm.org/s/36815-for-sale-in-cochise-county-big-dollarsbig-land/">https://news.azpm.org/s/36815-for-sale-in-cochise-county-big-dollarsbig-land/</a>
February, 2016	How well is your well? Testing Vail (AZ) groundwater quality, Trent Thomas	The Vail Voice
February 3, 2016	Interview of Sharon B. Megdal for the The Property Man show, Jennings Grant	Fox Network, Phoenix, AZ
February 18, 2016	UA takes a look at the city water after the Flint water crisis	The Daily Wildcat <a href="http://www.azcentral.com/story/opinion/editorial/2016/03/15/beyond-the-mirage-arizona-water/81801932/">http://www.azcentral.com/story/opinion/editorial/2016/03/15/beyond-the-mirage-arizona-water/81801932/</a>
February 28, 2016	River recharge efforts under a disadvantage in state law, Tony Davis	Arizona Daily Star <a href="http://tucson.com/news/science/environment/river-recharge-efforts-under-a-disadvantage-in-state-law/article_766c40b1-0529-52e4-b526-55dc24208330.html">http://tucson.com/news/science/environment/river-recharge-efforts-under-a-disadvantage-in-state-law/article_766c40b1-0529-52e4-b526-55dc24208330.html</a>
March 1, 2016	Our Desert Farms, Short film by Anna Augustowska	Vimeo on-line video site <a href="https://vimeo.com/156017952">https://vimeo.com/156017952</a>
March 1, 2016	Anniversary video for mdpi suite of journals	MDPI Web site <a href="http://www.mdpi.com/about/anniversary20">http://www.mdpi.com/about/anniversary20</a>
March 1, 2016	Overcoming the Yuck Factor, Lee Allen	The Desert Leaf <a href="http://trendmag2.trendoffset.com/publication/?m=12024&amp;l=1">http://trendmag2.trendoffset.com/publication/?m=12024&amp;l=1</a>
March 15, 2016	Editorial: A team from Tucson debuts its Beyond the Mirage project tonight to raise awareness about our water challenges	Arizona Republic <a href="http://www.azcentral.com/story/opinion/editorial/2016/03/15/beyond-the-mirage-arizona-water/81801932/">http://www.azcentral.com/story/opinion/editorial/2016/03/15/beyond-the-mirage-arizona-water/81801932/</a>
March 20, 2016	Gilbert hosts 5th annual Water Festival, Daniel Ochoa	East Valley Tribune <a href="http://www.eastvalleytribune.com/local/gilbert/article_1e88b28e-eeba-11e5-b91e-63e1493dab08.html">http://www.eastvalleytribune.com/local/gilbert/article_1e88b28e-eeba-11e5-b91e-63e1493dab08.html</a>
March 22, 2016	Water experts: Drought, climate change require new ways of living in Colorado River basin, Brandon Loomis	Arizona Republic <a href="http://www.azcentral.com/story/news/local/arizona-water/2016/03/21/drought-climate-change-colorado-river-basin/82090054/">http://www.azcentral.com/story/news/local/arizona-water/2016/03/21/drought-climate-change-colorado-river-basin/82090054/</a>
April 15, 2016	Beyond the Mirage: The Future of Water in the West	Arizona Public Media Channel 6 TV broadcast
August 29, 2016	Groundwater Shared by Countries Is Knowledge Void	Circle of Blue <a href="http://www.circleofblue.org/2016/groundwater/groundwater-shared-countries-knowledge-void/">http://www.circleofblue.org/2016/groundwater/groundwater-shared-countries-knowledge-void/</a>
August 31, 2016	U.S., Mexican Scientists Collaborate on Border Aquifer Research, Brett Walton	Circle of Blue <a href="http://www.circleofblue.org/2016/world/u-s-mexican-scientists-collaborate-border-aquifer-research/">http://www.circleofblue.org/2016/world/u-s-mexican-scientists-collaborate-border-aquifer-research/</a>
September 1, 2016	In the Spotlight: Sharon Megdal: Bridging the Gap	Universities Council on Water Resources (UCOWR) <a href="http://ucowr.org/spotlights/september-2016">http://ucowr.org/spotlights/september-2016</a>

September 13, 2016	For the first time, U.S. and Mexico take stock of the underground water they share, Lyndsey Gilpin.	High Country News-Web <a href="http://www.hcn.org/articles/for-the-first-time-u-s-and-mexico-take-stock-of-the-underground-water-they-share">http://www.hcn.org/articles/for-the-first-time-u-s-and-mexico-take-stock-of-the-underground-water-they-share</a>
September 14, 2016	Transboundary Aquifers: Complexity Requires Cooperative Efforts, Laura Sanchez.	FORESTERDAILYNEWS <a href="http://foresternetwork.com/daily/water/water-conservation/transboundary-aquifers-complexity-requires-cooperative-efforts/?mqsc=E3849751&amp;utm_source=WhatCountsEmail&amp;utm_medium=Forester%20FullWater%20Efficiency%20Weekly&amp;utm_campaign=Wkly-WE-09152016">http://foresternetwork.com/daily/water/water-conservation/transboundary-aquifers-complexity-requires-cooperative-efforts/?mqsc=E3849751&amp;utm_source=WhatCountsEmail&amp;utm_medium=Forester%20FullWater%20Efficiency%20Weekly&amp;utm_campaign=Wkly-WE-09152016</a>
September 17, 2016	Flagstaff Water Festival teaches conservation, Mackenzie Chase.	Arizona Daily Sun <a href="http://azdailysun.com/news/local/flagstaff-water-festival-teaches-conservation/article_38af09a6-3fcc-5179-9a55-c6b1c6560758.html">http://azdailysun.com/news/local/flagstaff-water-festival-teaches-conservation/article_38af09a6-3fcc-5179-9a55-c6b1c6560758.html</a>
October, 2016	UA Insert, The Future of Water from Study to Startup	Arizona Daily Star
October 4, 2016	Payson Kids Dive Into Water Conservation Session, Michele Nelson.	Payson Roundup <a href="http://www.paysonroundup.com/news/2016/oct/04/payson-kids-dive-water-conservation-session/">http://www.paysonroundup.com/news/2016/oct/04/payson-kids-dive-water-conservation-session/</a>
November 6, 2016	Santa Cruz River could flow again through downtown Tucson, Tony Davis	Arizona Daily Star <a href="http://tucson.com/news/science/environment/river-recharge-efforts-under-a-disadvantage-in-state-law/article_766c40b1-0529-52e4-b526-55dc24208330.html">http://tucson.com/news/science/environment/river-recharge-efforts-under-a-disadvantage-in-state-law/article_766c40b1-0529-52e4-b526-55dc24208330.html</a>
December 20, 2016	Project Addresses Food Safety for Southern Arizona Families	UANow <a href="https://uanews.arizona.edu/story/project-addresses-food-safety-southern-arizona-families?utm_source=uanow&amp;utm_medium=email&amp;utm_campaign=">https://uanews.arizona.edu/story/project-addresses-food-safety-southern-arizona-families?utm_source=uanow&amp;utm_medium=email&amp;utm_campaign=</a>
December 15, 2016	Agua Dulce project proposed by Tucson Water	The Voice, KVOI 1030AM, Tucson, Arizona

## Setion 4 - WRRC Brown Bag Seminars

Date	Speaker	Title
January 22, 2016	Abigail York	Agricultural Persistence in the Face of Urbanization
February 2, 2016	Jeff Tannler and John Mawhinney	Fourth Management Plan
February 25, 2016	Randy Hanson	Contributions to the ISARM and TWAP Assessment with Examples of ISARM Americas from the Mexico-United States Border
March 8, 2016	George Frisvold	Economic Aspects of the Yuma Case Study
March 10, 2016	Sharon Megdal and Ken Seasholes	Water Banking and Arizona's Framework for Groundwater Recharge and Recovery
March 29 and April 18, 2016	Charles Bayless	Perspectives of an Electric Utility Executive on the Water-Energy-Climate Nexus
April 5, 2016	Eve Halper, Kathy Chavez, and Brian O'Neill	Lower Santa Cruz River Basin Study, Bureau of Reclamation 2015 Basin Study
April 12, 2016	Jeremy Weiss	DroughtView – Combining On-the-Ground Know-How with Remotely Sensed Data to Assess Drought Impacts
April 20, 2016	Shane Snyder	Ensuring the Safety of Recycled Water

September 2, 2016	Grant Weinkam	Safe and Sustainable Wastewater Treatment and Reuse: In Theory and Reality
September 21, 2016	Laurel Lacher	Groundwater Modeling to Support Water Resources Planning in Clarkdale, Arizona
September 23, 2016	Sam Fernald	Development of a Dynamic Statewide Water Budget for Improved Water Planning in New Mexico
October 6, 2016	Chris Magirl	Dam Removal and River Restoration of the Elwha River, Washington: Lessons learned five years into the Project
October 14, 2016	Adriana Palma Nava	Water Management in Mexico: Principles in Sustainable Groundwater Management Policy
October 21, 2016	Beth Kleiman and Surabhi Karambelkar	The Water-Energy Nexus Dimension of the Central Arizona Project System Use Agreement and When the Turbines Stop Turning: Examining the Impacts of Drought on Power Production at Hoover Dam and Its Consequences for Entities in Arizona
October 26, 2016	Jeff Biggs and Michael Hwang	Potable Reuse for Inland Applications: Pilot Testing Results, Tucson AZ
October 31, 2016	Dr Kevin Lansey and Hwee Hwang	Arizona Value Integrated Food-Energy-Water (ARVIN-FEW)
November 10, 2016	Jacob Petersen-Perlman	Assessing Water Security at Global and Local Scales
November 29, 2016	Jeff McCormick	Low Impact Design in Context of Water Resources
December 5, 2016	Vic Baker	Scientific Thinking to Remedy “Black Swans,” “Wicked Problems,” and Assorted Science/ Policy Failures

## Section 5 - WRRC Co-Sponsored Events

Event	Title	Date	Feature	Co-sponsors
Distinguished Lecture	Spreading the Water: Connecting Agriculture and Conservation in the Western U.S.	January 29, 2016	Patrick O’Toole, President of the Family Farm Alliance	Water Sustainability Program
Outreach and Engagement Event	Saturday morning with Seth Siegel, Let There Be Water	March 12, 2016	Seth Siegel, Author	N/A
Visitors from Mendoza, Argentina Irrigation Agency	Water Resources and Climate Change	June 4, 2016	Discussion	Dr. Christopher Scott, School of Geography and Development
Lecture	Water Management in Mexico: Status and Challenge	October 13, 2016	Dr. Fernando González Villarreal	Udall Center for Studies in Public Policy, Department of Chemical and Environmental Engineering, Consortium for Arizona - Mexico Arid Environments, School of Geography and Development, UNAM Center for Mexican Studies (at UA)
Book talk	Thirst for Power: Energy, Water and Human Survival	November 15, 2016	Dr. Michael E. Webber	James E. Rogers College of Law

## Section 6 - Publications (By First Author)

Alley, W.M., Beutler, L., Campana, M.E., Megdal, S.B., and Tracy, J.C., 2016. Groundwater Visibility: The Missing Link, *Groundwater* 54 (6), pp. 758-761.

Alley, W.M., Beutler, L., Campana, M.E., Megdal, S.B., and Tracy, J.C., 2016. Making Groundwater Visible. *Water Resources IMPACT*, 18 (5), pp.14-15. Available at <http://www.nxtbook.com/naylor/AWRAS/AWRAS0516/index.php#/14>

Callegary, J.B., Minjárez Sosa, I., Tapia Villaseñor, E.M., dos Santos, P., Monreal Saavedra, R., Grijalva Noriega, F.J., Huth, A.K., Gray, F., Scott, C.A., Megdal, S.B., Oroz Ramos, L.A., Rangel Medina, M., Leenhouts, J.M., 2016. San Pedro River Aquifer Binational Report. International Boundary and Water Commission, 170 p.

Campana, M.E., Alley, W.M., Beutler, L., Megdal, S.B., and Tracy, J.C., 2016. The Groundwater Visibility Initiative. International Association of Hydrogeologists U.S. National Chapter, Fall 2016 Newsletter. Available at <http://iah-usa.org/download/547>

Carr, D.L., K.J. Renick, E. Malott, P. Rivadeneira, J. McLain, K.D. Nolte, and C.M. Rock, 2016. The Southwest Arizona track and scat glovebox guide: a field guide to identify signs of wild and domestic animal intrusion. Arizona Cooperative Extension Publication, in review.

de Chaisemartin; M.; R. G. Varady; S. B. Megdal; K. Conti; J. van der Gun; A. Merla; G.-J. Nijsten; and F. Scheibler, 2016. Addressing the groundwater governance challenge—A call from the “Groundwater Governance: A Global Framework for Action” Project (Chapter 11). *Freshwater Governance for the 21st Century*; ed. by A. Karar. *Global Issues in Water Policy*. Available at [http://link.springer.com/chapter/10.1007/978-3-319-43350-9\\_11](http://link.springer.com/chapter/10.1007/978-3-319-43350-9_11)

Diaz, K., V. Rich, and J.E. McLain, 2016. Using homology-based methods and functional similarity to identify antibiotic resistance in a natural environment. *Journal of Contemporary Water Research and Education*, in preparation for release.

Eden, S. and R.A. Sanchez, 2016. Do You Know What’s Beyond the Mirage?. *Water Use It Wisely* blog post. Available at <http://wateruseitwisely.com/know-whats-beyond-mirage/>

Eden, S., M. Ryder and M.A. Capehart, 2016. Arizona Water Supply: Closing the water demand-supply gap in Arizona (edited reprint of 2015 Arroyo). *The Water Report* 144, pp.12-24. Available at <http://wrrc.arizona.edu/time-for-action>

Eden, S., Megdal, S.B., Shamir, E., Chief, K., and Mott Lacroix, K., 2016. Opening the Black Box: Using a Hydrological Model to Link Stakeholder Engagement with Groundwater Management. *Water*, 8(5), 216; doi: 10.3390/w8050216.

Eden, S., S.B. Megdal, and J. McLain, 2016. Potable reuse of water: a view from Arizona. *Water Resources IMPACT*, 18(4): 10-11. Available at <https://wrrc.arizona.edu/sites/wrrc.arizona.edu/files/July-2016-IMPACT-Potable-AZ.pdf>

Franklin, A.M., D.S. Aga, E. Cytryn, L.M. Durso, J.E. McLain, A.A. Pruden, M.C. Roberts, M.J. Rothrock, Jr., D.D. Snow, J.E. Watson, and R.S. Dungan, 2016. Antibiotics in Agroecosystems: Introduction. *Journal of Environmental Quality* 45: 377-393; DOI: 10.2134/jeq2016.01.0023.

Ghrai, A., Al-Mashaqbeh, O., Sarireh, M.K., Alkose, N, Farfoura, M., and Megdal, S, 2016. Influence of Grey water on Physical and Mechanical Properties of Mortar and Concrete Mixes. *Ain Shams Engineering Journal*, in preparation for release.

González Villareal, F., Parker, T.K., Chávez Guillen, R., González Cáñez, F., Palma Nava, A. with contributing authors, Alley, W., Bower, R., Dillon, P., Martin, R., Megdal, S., Petrides, A., Ross, A., and Zheng, C, 2016. ISMAR9 Call to Action: Sustainable Groundwater Management Policy Directives, International Symposium on Managed Aquifer Recharge, Mexico City. Available at <http://www.ismar9.org/doc/sustainablegroundwatermanagement.pdf>

Hawes, M., J. McLain, M. Ramirez Andreotta, G. Curlango Rivera, Y. Flores Lara, and L. Brigham, 2015. Extracellular trapping of soil contaminants by root border cells: new insights into plant defense. *Agronomy*, 6(1) 5, 9 pp.; DOI: 10.3390/agronomy6010005.

Hullinger, A., Mott Lacroix, K.E., and Megdal, S.B, 2016. Conserve2Enhance: Helping Communities Take Action for Water and the Environment. *Solutions*, in preparation for release.

Kabiri, L. A. Alum, C. Rock, J.E. McLain, and M. Abbaszadegan, 2016. A tool box strategy using Bacteroides genetic markers to identify microbial sources in natural waters. *Science of the Total Environment. Journal of Water and Health*, in preparation for release.

McLain, J.E., 2016. Arizona Agriculture using Recycled Water. *Arizona Water Resource*, 24(4): 4-5.

McLain, J.E., C. Gerba, and C.M. Rock, in press. Environmental Antibiotic Resistance Associated with Land Application of Biosolids. *Antimicrobial Resistance in Wastewater Treatment Processes*, Keen, P., R. Fugère (Eds.) Wiley-Blackwell, Hoboken, N.J., USA.

McLain, J.E., E. Cytryn, L. Durso, and S. Young, 2016. Culture-based methods for detection of antibiotic resistance in agroecosystems: advantages, challenges, and gaps in knowledge. *Journal of Environmental Quality*, 45: 432-440; DOI: 10.2134/jeq2015.06.0317.

Megdal, S.B., 2016. It's Time for Action. *Arizona Water Resource*, 24 (1), p. 7.

Megdal, S.B., 2016. It's Spring! Time to get out in the field!. *Arizona Water Resource*, 24 (2), p. 11.

Megdal, S.B., 2016. A New Approach to Raising Water Awareness: Beyond the Mirage. *Arizona Water Resource*, 24 (3), p. 7.

Megdal, S.B., 2016. The Invisible Water. *Arizona Water Resource*, 24 (4), p. 7.

Megdal, S.B., 2016. Sustainable Water Use in the Southwest. Published Presentation summarized by RNR in *Renewable Resources Journal (RNR)*, Congress on Sustaining Western Water, 30 (1), pp. 16-17.

Megdal, S.B., and Hamer, G, 2016. Connecting Israeli Water Management and Technological Innovations to Arizona. *The Kachina News*. Available at <https://wrrc.arizona.edu/connecting-israeli-water-management-technological-innovations-az>

Megdal, S.B., Zuniga Teran, A., Varady, R.G., Delano N., Gerlak, A.K., and Vimont, E.T. (Submitted, November 2016). Groundwater Governance in the United States: A Mosaic of Priorities and Approaches. In Elena López Gunn, E., et al. (Eds.), *Advances in Groundwater Governance*. CRC/Balkema, Taylor & Francis Group, The Netherlands. (Under review)

Mott Lacroix, K., Megdal, S.B, 2016. Explore, Synthesize, and Repeat: Unraveling Complex Water Management Issues Through the Stakeholder Engagement Wheel. *Water* 8(4), 118; doi:10.3390/w8040118.

Mott Lacroix, K.E. Xiu, B. and Megdal, S.B, 2016. Building Common Ground for Environmental Flows using Traditional Techniques and Novel Engagement Approaches. *Environmental Management*, pp 1-17. doi:10.1007/s00267-014-0656-8.

Mott Lacroix, K.E., Xiu, B., Nadeau, J. and Megdal, S.B, 2016. Synthesizing environmental flow needs data for water management in a water-scarce state: The Arizona environmental water demands database. *River Research and Applications*,32: 234 –244. DOI: 10.1002/rra.2858.

Varady, R.G., A. Zuniga-Teran, A.K. Gerlak, and S.B. Megdal, 2016. Modes, approaches, and lessons learned: A survey of selected cases of groundwater governance across the globe. *Water* 8(10), 417 (24 pp); doi:10.3390/w8100417.

Wilder, M., Aguilar Barajas, I., Pineda Pablos, N., Varady, R.G., Megdal, S.B., McEvoy, J., Merideth, R., Zuniga-Teran, A.A., and Scott, C.A, 2016. Desalination and water security in the U.S.-Mexico border region: A framework to assess the social, environmental, and political impacts. *Water International* 51(4), 756-775. Available at <http://dx.doi.org/10.1080/02508060.2016.1166416>

Williams Nguyen, J., J.B. Sallach, S. Bartelt Hunt, A.B. Boxall, L.M. Durso, J.E. McLain, R.S. Singer, D.D.Snow, and J.L. Zilles, 2016. Antibiotics and antibiotic resistance in agroecosystems: state of the science. *Journal of Environmental Quality* 45: 394-406; DOI: 10.2134/jeq2015.07.0336.

## Section 7 - Presentations (By Chronological Order)

January 14, 2016, Claire L. Zucker. Academics and the Public Sector - mutual benefits are worth the effort. Presentation, AZ Water, Annual Research Workshop, Tempe, AZ.

January 18, 2016, Kelly Mott Lacroix. Desert Flows Database, Webinar.

January 20, 2016, Jean E. McLain. How to construct an effective presentation. Invited Lecture ENV5696: Topics in Soil, Water and Environmental Science Class. University of Arizona, Tucson, Arizona.

January 21, 2016, Ashley Hullinger. Driving Water Conservation with Conserve2Enhance. Presentation, Tucson Lion's Club Luncheon, Tucson, AZ.

January 28, 2016, Ashley Hullinger. From Forest to Faucet. Invited presentation with Andy Romance, Dibble Engineering, Little Colorado River RC&D Conference, Eagar, AZ.



January 28, 2016, Sharon B. Megdal. Prospering with Limited Water Supplies: The Case of Israel. Speaker, Operations and Management Workshop, Sponsored by Irrigation Leader Magazine, Phoenix, AZ.
February 3, 2016, Kelly Mott Lacroix. Desert Flow Needs Assessment. Presentation, DLCC CMQ Annual Workshop, Alpine, TX.
February 5, 2016, Kelly Mott Lacroix. Stakeholder Engagement in Water Management. Guest Lecture, Arizona Water Policy Class, University of Arizona, Tucson, AZ.
February 5, 2016, Kelly Mott Lacroix, Ashley Hullinger, Christopher Fullerton, Bailey Kennett. Cobre Valley Shared History Exercise. Workshop, Buillon Cultural Center and Museum, Miami, AZ.
February 8, 2016, Sharon B. Megdal. UCOWR-NIWR partnership update. Speaker, Annual Meeting, National Institutes for Water Resources (NIWR), Washington, DC.
February 8, 2016, Sharon B. Megdal. Reflections on NIWR Presidency 2014-15. Speaker, Annual Meeting, National Institutes for Water Resources (NIWR), Washington, DC.
February 12, 2016, Jean E. McLain. Arizona Department of Environmental Quality Reclaimed Water Rules Revision Listening Session. Participant, Marana, AZ.
February 18, 2016, Jean E. McLain. Separating science from emotion in perceptions of recycled wastewater: an antibiotic resistance case study. Conservation InfoShare, Tucson, AZ.
February 18, 2016, Claire L. Zucker. Watershed Adaptation in the Tucson Region. Guest Lecture, UA Climate Change Adaptation: Perspectives at the Nexus of Science, Society, and Resource Management Class, University of Arizona, Tucson, AZ.
February 19, 2016, Jean. E. McLain. The realities of recycled wastewater. Guest Lecture ENV596B: Arizona Water Policy Class. University of Arizona, Tucson, AZ.
March 2, 2016, Ashley Hullinger, Bailey Kennett. Watershed Planning in the Upper Gila. Briefing, Farm, Home, and Ranch Day with Arizona Cooperative Extension - EAC campus, Thatcher, AZ.
March 4, 2016, Ashley Hullinger. Water 101 Class. Osher Lifelong Learning Institute (OLLI), Green Valley, Tucson, AZ.
March 10, 2016, Sharon B. Megdal. Water Banking and Arizona's Framework for Groundwater Recharge and Recovery, with Ken Seasholes. Speaker, Water Resources Research Center Brown Bag Seminar, Tucson, AZ.
March 15, 2016, Sharon B. Megdal. No One is Immune: Social Justice, Climate, & Health Symposium. Panelist, Final panel on research and policy, College of Public Health, University of Arizona, Tucson, AZ.
March 18, 2016, Jean E. McLain. Public health and environmental safety of recycled municipal wastewater: current research. Osher Lifelong Learning Institute (OLLI), Green Valley, AZ.
March 21, 2016, Nate Delano, Kelly Mott Lacroix. WRRRC Arizona Water Map. Presentation, WRRRC Annual Conference, Tucson, AZ.
March 21, 2016, Sharon B. Megdal. #AZwaterfuture: Tech, Talk, and Tradeoffs. Conference Moderator, Panel Moderator, Water Resources Research Center Annual Conference, Tucson, AZ.
March 22, 2016, Kelly Mott Lacroix. Riparian and Aquatic Ecosystems - Why change can be good. Class, Globe, AZ
March 22, 2016, Ashley Hullinger. Beyond the Mirage. Booth, Miami, AZ.
March 23, 2016, Sharon B. Megdal. Keeping Arizona's Water Glass Full. Panelist, Arizona Town Hall Tucson Community Outreach Program, Tucson, AZ.
March 23, 2016, Ashley Hullinger. Beyond the Mirage. Booth, Miami, AZ.
March 24, 2016, Susanna Eden, Cody Sheehy. Beyond the Mirage: Introduction and Discussion. Class, Osher Lifelong Learning Institute (OLLI), University of Arizona, Tucson, AZ.
March 25, 2016, Jean E. McLain. Antibiotics in agroecosystems: state of the science. National Antibiotic Resistance in Animal Agriculture. Webinar, Livestock and Poultry Environmental Learning Center.
March 28, 2016, Jean E. McLain. Water Recycling 101: What Every Arizonan Should Know. Keynote Speaker, College of Agriculture and Life Sciences Spring Luncheon, University of Arizona, Tucson, AZ.
April 2, 2016, Sharon B. Megdal. The Future of Hydrologic Education. Panelist, Hydrology: The Next 50 Years symposium, Tucson, AZ.
April 4, 2016, Sharon B. Megdal. Beyond the Mirage: The Future of Water in the West; panel discussion aired as part of 90-minute Beyond the Mirage documentary. Panel, filmed at KUAT, PBS 6, Tucson, AZ.

April 6, 2016, Kelly Mott Lacroix. Moderator, Healthy Rivers Panel, Arizona Forward luncheon, Arizona Inn, Tucson, AZ.

April 12, 2016, Kelly Mott Lacroix. The Good, The Bad and The Complicated - Water Mgt in Arizona. Guest Lecture, Globe, AZ.

April 15, 2016, Sharon B. Megdal. Beyond the Mirage: The Future of Water in the West. Featured in-film expert, premiered KUAT, PBS 6, Tucson, AZ.

April 15, 2016, Sharon B. Megdal. Beyond the Mirage: The Future of Water in the West. Post-film panelist, premiered KUAT, PBS 6, Tucson, AZ.

April 20, 2016, Sharon B. Megdal. Southern Arizona Leadership Council Membership Meeting. Panelist, CAP Board Member panel.

April 23, 2016, Ashley Hullinger. Beyond the Mirage. Booth, Miami, AZ.

April 25, 2016, Kelly Mott Lacroix. The Language of Water and Water-User Perspectives. Presentation, Tucson, AZ.

April 27, 2016, Sharon B. Megdal. Groundwater Withdrawals and Resiliency. Speaker, NGWA Panel, Denver, CO.

April 28, 2016, Jean E. McLain. University of Arizona Women in Science and Engineering, 2016 Science and Engineering Excellence Banquet. Emcee, University of Arizona, Tucson, AZ.

April 28, 2016, Sharon B. Megdal. Policy, Governance, and Engagement, Groundwater Visibility Initiative Workshop. Speaker/ Workshop Steering Committee, Cosponsored by the National Groundwater Association and the American Water Resources Association, Denver, CO.

May 6, 2016, Kelly Mott Lacroix. Desert Flows Database. Presentation, Flagstaff, AZ.

May 10, 2016, Sharon B. Megdal. The Central Arizona Groundwater Replenishment District and Related Issues. Speaker, Tucson Regional Water Coalition, Tucson, AZ.

May 11, 2016, Sharon B. Megdal. Connecting Israeli Water Management and Technological Innovations to Arizona. Panel member and moderator, AzWater Association Annual Conference.

May 12, 2016, Jean E. McLain. AZ Water Association 89th Annual Conference. Moderator, Track 5: Research Session. Glendale, AZ.

May 16, 2016, Ashley Hullinger. Flagstaff Conserve2Enhance. Panel/Presentation, Flagstaff Water Commission Meeting, Flagstaff, AZ.

June 12, 2016, Sharon B. Megdal. Renewing Our Commitment to Water Stewardship. Keynote Speaker, Leadership America. Scottsdale, AZ.

June 15, 2016, Sharon B. Megdal. Working together to address Arizona water resource challenges. Speaker, Yuma Center of Excellence for Desert Agriculture, Yuma, AZ.

June 15, 2016, Jean E. McLain. Recycled municipal wastewater and antibiotic resistance: is there a connection? National webinar, Water Reuse Community of Practice, Arcadis, Inc.

June 21, 2016, Sharon B. Megdal. Meeting Water Management Objectives through Water Storage and Recovery in Arizona, USA. Speaker/Moderator, International Symposium on Managed Aquifer Recharge (ISMAR9), Mexico City, Mexico.

June 22, 2016, Jean E. McLain. Antibiotic resistance in surface water and groundwater. Presentation/Panel, Presidential Advisory Council on Combating Antibiotic Resistance, Public Meeting #3, Washington, DC.

June 30, 2016, Sharon B. Megdal. Groundwater Governance in the USA, with a focus on Arizona Agriculture. Speaker, Toward Sustainable Groundwater in Agriculture - An International Conference Linking Science and Policy. San Francisco, CA.

July 25, 2016 Jean E. McLain. Recycled municipal wastewater and antibiotic resistance: is there a connection? Presentation. Arizona WaterReuse 2016 Symposium, Flagstaff, AZ.

August 10, 2016, Ashley Hullinger. Beyond the Mirage screening. Presentation, GWP Monthly Meeting, Safford, AZ.

August 11, 2016, Jean E. McLain and C. Rock. Source Tracking of Water Contaminants. Presentation. University of Arizona Water In-Service Training Conference. Phoenix, AZ.

August 22, 2016, Jean E. McLain. Metagenomic survey of antibiotic resistance genes in four paired reclaimed and potable water distribution systems. Presentation. 252nd American Chemical Society National Meeting, Philadelphia, PA.



August 31, 2016, Jean E. McLain. How to construct an effective presentation. Invited Lecture ENV5696: Topics in Soil, Water and Environmental. University of Arizona, Tucson, AZ.
September 2, 2016, Grant Weinkam. Safe and Sustainable Wastewater Treatment and Reuse: In Theory and Reality. Presentation, WRRRC Brown Bag Seminar Series, Tucson, AZ.
September 6, 2016, Sharon B. Megdal. "Arizona Water". Guest Lecture. MNE 422m, Engineering Sustainable Development, University of Arizona, Tucson, AZ.
September 8, 2016, Sharon B. Megdal. "Arizona Water". Guest Lecture. ARC561a, Water Efficiency in the Built Environment, University of Arizona, Tucson, AZ.
September 12, 2016, Sharon B. Megdal. A Survey of Groundwater Governance and Management Strategies, Challenges, and Opportunities Connected to Water Quality: Preliminary Results, with Andrea Gerlak and Ethan Vimont. Presentation, Groundwater Protection Council Annual Forum, State Water Sustainability Planning: The Groundwater Connection, Orlando, FL.
September 12, 2016, Jean E. McLain. The critical importance of study design for projects assessing wastewater impacts on resistance. Panelist, 31st Annual WateReuse Symposium, Tampa, FL.
September 13, 2016, Sharon B. Megdal. Using Recharge and Recovery to Meet Water Management Objectives in Arizona. Presentation, Groundwater Protection Council Annual Forum, State Water Sustainability Planning: The Groundwater Connection, Orlando, FL.
September 13, 2016, Jean E. McLain. Moderator, Co-Managing Water Quality Session, 32nd Annual WateReuse Symposium, Tampa, FL.
September 15, 2016, Susanna Eden. Moderator, Energy and Water Session. Arizona Hydrological Society Symposium, Tucson, AZ.
September 16, 2016, Susanna Eden. Are We Ready for Potable Reuse - Issues and Answers. Presentation, Arizona Hydrological Society Symposium, Tucson, AZ.
September 28, 2016, Ashley Hullinger, Bailey Kennett, Grant Weinkam. Santa Cruz River Water Budget. Workshop, Santa Cruz Water Budget and Planning Workshop, Tubac, AZ.
September 28, 2016, Ashley Hullinger, Bailey Kennett, Grant Weinkam. Santa Cruz River Water Budget. Presentation, Tubac, AZ.
October 7, 2016, Sharon B. Megdal. Working together to address Arizona water resource challenges. Presentation, La Posada at Park Centre, Green Valley, AZ.
October 7, 2016, Jean E. McLain and K. Fitzsimmons. Sustainable Seafood Development in Burma. Presentation, 2016 International Burma Studies Conference, Dekalb, IL.
October 7, 2016, Claire L. Zucker, University of Arizona – Where's the Water? Presentation, Environmental Planning Advisory Committee, held at Pima Association of Governments, Tucson, AZ.
October 8, 2016, Ashley Hullinger. Beyond the Mirage. Presentation, Beyond the Mirage Screening, Albuquerque, NM.
October 11, 2016, Jean E. McLain. Recycled municipal wastewater and antibiotic resistance: is there a connection? Featured Speaker, Statewide Water Quality Management Working Group Meeting, Arizona Department of Environmental Quality, Phoenix, AZ.
October 12, 2016, Ashley Hullinger, Bailey Kennett, Grant Weinkam. Beyond the Mirage: Community Discssion. Presentation, Gila Watershed Partnership Monthly Meeting, Safford, AZ.
October 18, 2016, Sharon B. Megdal. U.S. Climate change Policies. Keynote Presentation. Conference on El mundo después de París: construyendo el futuro, University of Sonora, Hermosillo, Sonora, Mexico.
October 18, 2016, Sharon B. Megdal. Panelist. Water Management and Changing Climate. Conference on El mundo después de París: construyendo el futuro, University of Sonora, Hermosillo, Sonora, Mexico.
October 19, 2016, Ashley Hullinger, Bailey Kennett, Grant Weinkam. Celebrating our Legacy: The Shared History of Cobre Valley in Digital Form. Presentation, Miami, AZ.
October 19, 2016, Ashley Hullinger, Bailey Kennett, Grant Weinkam. Historical Timeline of Water Resources in the Cobre Valley. Presentation, History of Water Resources in the Cobre Valley, Globe, AZ.
October 19, 2016, Susanna Eden. Water Harvesting Assessment Toolbox for the Desert Southwest. Webinar, Desert Landscape Conservation Cooperative Webinar Series.
October 20, 2016, Sharon B. Megdal. Speaker. Water and the West, Living Building Challenge: the Sonoran Collaborative. Tempe, AZ.
October 24, 2016, Sharon B. Megdal. Water Challenges and Solutions in the West. Webinar on Water is for Fighting Over, and other myths about water in the west, hosted by Security and Sustainability Forum and Island Press.

October 25, 2016, Claire Zucker. Sustainability - How are we doing? Guest lecture. Planning/Geography Course # 501, University of Arizona, Tucson, AZ.
October 27, 2016, Ashley Hullinger, Elia Tapia. The Desert Flows Database. Poster Presentation, Joint LCC - SW Climate Science Center Steering Committee Meeting, Asilomar, CA.
October 27, 2016, Sharon B. Megdal. Addressing Changes in Regional Groundwater Resources: Lessons from the High Plains Aquifer. Keynote Speaker, Groundwater Governance and Management, American Geophysical Institute's 2016 Critical Issues Forum, hosted by the Colorado School of Mines Payne Institute for Earth Resources, Golden, CO.
November 3, 2016, Sharon B. Megdal. Bringing Clarity to a Murky Regulatory Environment on Water. Presentation, Arizona Farm Bureau Annual Meeting, Litchfield Park, AZ.
November 5, 2016, Ashley Hullinger, Grant Weinkam. UA WRRC and the Water RAPIDS program. Tabling Event, Big Green Event, Marana, AZ.
November 5, 2016, Ashley Hullinger, Grant Weinkam. Beyond the Mirage showing and discussion. Presentation, Big Green Event, Marana, AZ.
November 6, 2016, Jean E. McLain. Tour of Biosphere2, 2016 ASA-CSSA-SSSA International Annual Meetings. Organizer and Lead, Phoenix, AZ.
November 9, 2016, Sharon B. Megdal. Desalination in Israel. Presentation, Desalination Committee, Governor's Water Augmentation Council, Phoenix, AZ.
November 9, 2016, Jean E. McLain, A. Pruden, and M. D. Edwards. Antibiotic Resistance of Indicator Bacteria Isolated from Recycled vs. Potable Water Systems. Presentation, 2016 ASA-CSSA-SSSA Annual International Meetings, Phoenix, AZ.
November 14, 2016, Sharon B. Megdal. Regional Approaches to Improving Integrated Surface Water and Groundwater Management. Presentation, AWRA Annual Conference, Orlando, FL.
November 14, 2016, Ashley Hullinger. Key Ingredients for Building Better Watershed Partnerships. Presentation, AWRA 2016 Annual Conference, Orlando, FL.
November 16, 2016, Ashley Hullinger. Water Banking in Arizona. Presentation, AWRA 2016 Annual Conference, Orlando, FL.
November 23, 2016, Sharon B. Megdal. High Level Panel: Basin Commissioners and Basin Representatives; Water Security and Sustainable Development for our Common Future. High Level Panel Moderator and Panelist, Stakeholder Insights Panel on the Lower Jordan River, EcoPeace Middle East Annual Conference, Dead Sea, Jordan.
November 29, 2016, Sharon B. Megdal. Groundwater Invisibility and Decentralized Governance: The role of science in informing groundwater policy. Keynote Speaker, Session on "Groundwater – How can we manage the commons under uncertainty?" of the Science-Technology Forum of the Budapest Water Summit, Budapest, Hungary.
November 29, 2016, Jacob Petersen-Perlman. Linking Water, Security, and Peace in the Middle East. Brown Bag Lecture, Royal D. Alworth, Jr. Institute for International Studies, University of Minnesota Duluth, Duluth, MN.
December 2, 2016, Sharon B. Megdal. Connecting Israeli Water Management and Technological Innovations to U.S. Water Management. Speaker, JNF Program, Israel H2O, A tour of Israel's Water Solutions, Ramot, Israel.
December 7, 2016, Susanna Eden, Groundwater, Climate, and Stakeholder Engagement (GCASE), Webinar, Desert Landscape Conservation Cooperative Webinar Series
December 13, 2016, Sharon B. Megdal. Current State and Regional Water Issues. Speaker, Tucson Regional Water Coalition, Tucson, AZ.

## Section 8 - ARIZONA PROJECT WET PRESENTATIONS AND PROGRAM EVENTS

January 7, 2016. Betsy Wilkening. 3rd Groundwater Presentation. Ochoa Community Magnet School, Tucson, AZ.

January 8, 2016. Tara Oakes. WIP - Rainwater Harvesting. Mountain View School, Phoenix, AZ.

January 9, 2016. Pam Justice, Sean Sederstrom. Connect2STEM. University of Arizona Medicine School - Phoenix, AZ.

January 12, 2016. Betsy Wilkening. 6th Groundwater Presentation. Green Fields School, Tucson, AZ.

January 12, 2016. Betsy Wilkening. 6th Groundwater Presentation. Mansfeld Middle School, Tucson, AZ.

January 12, 2016. Julie Hasty. 6th Groundwater Presentation. Country Gardens Charter School, Laveen, AZ.

January 13, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Laguna Elementary School, Tucson, AZ.

January 14, 2016. Betsy Wilkening. 6th Groundwater Presentation. Mansfeld Middle School, Tucson, AZ.

January 14, 2016. Betsy Wilkening. 6th Groundwater Presentation. Maxwell Elementary School, Tucson, AZ.

January 14, 2016. Julie Hasty. WIP - Rainwater Harvesting. Poston Butte High School, San Tan Valley, AZ.

January 15, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Homer Davis Elementary, Tucson, AZ.

January 19, 2016. Betsy Wilkening. 6th Groundwater Presentation. Doolen Middle School, Tucson, AZ.

January 20, 2016. Tara Oakes. 6th Groundwater Presentation. Copper King Elementary School, Phoenix, AZ.

January 21, 2016. Betsy Wilkening. 3rd Groundwater Presentation. Warren Elementary School, Tucson, AZ.

January 21, 2016. Julie Hasty. WIP - Rainwater Harvesting. Champion School, Chandler, AZ.

January 22, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Vesey Elementary School, Tucson, AZ.

January 22, 2016. Tara Oakes. Mystery Box Presentation. Copper King Elementary School, Phoenix, AZ.

January 22, 2016. Sara Krznarich. Riparian Presentations. Mary Mcleod Bethune School, Phoenix, AZ.

January 25, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Ochoa Community Magnet School, Tucson, AZ.

January 25, 2016. Dee Fife. Water Scene Investigation. Canyon del Oro High School, Tucson, AZ.

January 25, 2016. Betsy Wilkening. Water Scene Investigation. Canyon Del Oro High School, Tucson, AZ.

January 26, 2016. Betsy Wilkening. 3rd Groundwater Presentation. Adventure School, Tucson, AZ.

January 26, 2016. Betsy Wilkening. 3rd Groundwater Presentation. Academy Adventures, Tucson, AZ.

January 26, 2016. Julie Hasty. 6th Groundwater Presentation. Canyon Valley School, Mesa, AZ.

January 26, 2016. Sara Krznarich. Riparian Presentations. Champion School, Chandler, AZ.
January 27, 2016. Betsy Wilkening. 3rd Groundwater Presentation. Blenman Elementary School, Tucson, AZ.
January 27, 2016. Sara Krznarich. Riparian Presentations. Verrado School, Buckeye, AZ.
January 28, 2016. Sara Krznarich. Riparian Presentations. Verrado School, Buckeye, AZ.
January 28, 2016. Betsy Wilkening. Senita Valley School Science Night. Senita Valley Elementary School, Vail, AZ.
January 28, 2016. Betsy Wilkening. Ted Walker Youth Day - Old Tucson. Old Tucson, Tucson, AZ.
January 29, 2016. Betsy Wilkening. 3rd Groundwater Presentation. Manzo Elementary School, Tucson, AZ.
January 29, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Vesey Elementary School, Tucson, AZ.
January 29, 2016. Tara Oakes. Mystery Box Presentation. Sonoran Foothills School, Phoenix, AZ.
February 1, 2016. Betsy Wilkening. 6th Grade Groundwater Presentation. Doolen K-8, Tucson, AZ.
February 1, 2016. Tara Oakes. WIP - Rainwater Harvesting. Sonoran Foothills School, Phoenix, AZ.
February 2, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Grijalva Elementary School, Tucson, AZ.
February 3, 2016. Julie Hasty. Mystery Box Presentation. Canyon Valley School, Mesa, AZ.
February 3, 2016. Sara Krznarich. Riparian Presentations. Desert Valley Elementary School, Glendale, AZ.
February 3, 2016. Betsy Wilkening. School Water Audit - Irrigation. Magee Middle School, Tucson, AZ.
February 4, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Tolson Elementary School, Tucson, AZ.
February 4, 2016. Betsy Wilkening. 6th Grade Groundwater Presentation. Laguna Elementary School, Tucson, AZ.
February 4, 2016. Betsy Wilkening. 4th Grade Groundwater Presentation. Sunrise Drive Elementary School, Tucson, AZ.
February 4, 2016. Tara Oakes. WIP - Rainwater Harvesting. Sonoran Foothills School, Phoenix, AZ.
February 4, 2016. Sean Sederstrom. Litchfield Water Festival. Litchfield, AZ.
February 5, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Roskruge K-8, Tucson, AZ.
February 5, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Blenman Elementary School, Tucson, AZ.
February 5, 2016. Julie Hasty. WIP - Rainwater Harvesting. Copper Trails School, Goodyear, AZ.
February 8, 2016. Sara Krznarich. Riparian Presentations. Canyon Valley School, Mesa, AZ.
February 8, 2016. Betsy Wilkening. High School Groundwater Presentation. Canyon del Oro High School, Tucson, AZ.
February 8, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Adventure School and Academy Adventures, Tucson, AZ.

February 8, 2016. Tara Oakes. WIP - Rainwater Harvesting. Copper King Elementary School, Phoenix, AZ.
February 9, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Banks Elementary School, Tucson, AZ.
February 9, 2016. Pam Justice. Water Scene Investigation. Finley Farms Elementary School, Gilbert, AZ.
February 9, 2016. Betsy Wilkening. Legacy Traditional School Science Night. Legacy Traditional School , Tucson, AZ.
February 10, 2016. Betsy Wilkening. Rattlesnake Ridge STEM Night. Rattlesnake Ridge Elementary, Marana, AZ.
February 10, 2016. Betsy Wilkening. Discovery Program. Amphi High School, Tucson, AZ.
February 11, 2016. Chuck Dugan. Casa Grande Water Festival Class Visits. Odydey Prep. 4th Grades, Casa Grande, AZ.
February 11, 2016. Kerry Schwartz. OLLI Presentation. University of Arizona, Tucson, AZ.
February 11, 2016. Julie Hasty. WIP - Rainwater Harvesting. Canyon Valley School, Mesa, AZ.
February 12, 2016. Betsy Wilkening. Discovery Program. Amphi High School, Tucson, AZ.
February 12, 2016. Betsy Wilkening. Discovery Program. Amphi High School, Tucson, AZ.
February 13, 2016. Tara Oakes. Groundwater presentation at "I Love Science" Festival. Arizona Museum of Natural History, Phoenix, AZ.
February 13, 2016. Chuck Dugan. "The Problem with Water" Presentation. The Museum of Casa Grande, Casa Grande, AZ.
February 16, 2016. Sara Krznarich. Riparian Presentations. Mountainview School, Phoenix, AZ.
February 16, 2016. Betsy Wilkening. School Water Audit - Irrigation. Amphi High School, Tucson, AZ.
February 16, 2016. Pam Justice. Water Scene Investigation. Challenger School, Gilbert, AZ.
February 17, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Tully Elementary School, Tucson, AZ.
February 18, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Erickson Elementary School, Tucson, AZ.
February 18, 2016. Betsy Wilkening. Booth-Fickett Science Night. Booth-Fickett K-8, Tucson, AZ.
February 18, 2016. Sean Sederstrom, Chuck Dugan. Casa Grande Water Festival. Casa Grande, AZ.
February 19, 2016. Julie Hasty. Riparian Presentations. Poston Butte High School, San Tan Valley, AZ.
February 19, 2016. Betsy Wilkening. 6th Grade Groundwater Presentation. Cross Middle School, Tucson, AZ.
February 19, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Tully Elementary School, Tucson, AZ.
February 19, 2016. Tara Oakes. WIP - Rainwater Harvesting. Copper Creek Elementary School, Glendale, AZ.
February 20, 2016. Tara Oakes. Chandler Science Saturday. Chandler City Hall, AZ.
February 20, 2016. Betsy Wilkening. Children's Museum SciFest. Children's Museum, Tucson, AZ.

February 22, 2016. Sara Krznarich. Riparian Presentations. Alrington Elementary School, Arlington, AZ.
February 23, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Sewell Elementary School, Tucson, AZ.
February 23, 2016. Julie Hasty. Mystery Box Presentation. Country Gardens Charter School, Laveen, AZ.
February 23, 2016. Betsy Wilkening. Discovery Program. Amphi High School, Tucson, AZ.
February 23, 2016. Betsy Wilkening. School Water Audit - Irrigation. Canyon Del Oro High School, Tucson, AZ.
February 24, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Manzo Elementary School, Tucson, AZ.
February 24, 2016. Betsy Wilkening. School Water Audit - Irrigation. Canyon Del Oro High School, Tucson, AZ.
February 24, 2016. Sean Sederstrom. Lake Havasu Water Festival. Lake Havasu, AZ.
February 24, 2016. Pam Justice. Water Scene Investigation. Finley Farms, Gilbert, AZ.
February 25, 2016. Julie Hasty. Poston Butte Field Day. Gilbert Riparian Area.
February 29, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Sewell Elementary School, Tucson, AZ.
February 29, 2016. Pam Justice. Water Scene Investigation. Sonoma Ranch, Gilbert, AZ.
March 1, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Oyama Elementary School, Tucson, AZ.
March 1, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Wheeler Elementary School, Tucson, AZ.
March 2, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Tolson Elementary School, Tucson, AZ.
March 2, 2016. Julie Hasty. Champion Chandler Field Day. Gilbert Riparian Area.
March 2, 2016. Julie Hasty. Canyon Valley HS Field Day. Gilbert Riparian Area.
March 2, 2016. Sean Sederstrom. Peoria Water Festival. Peoria, AZ.
March 2, 2016. Betsy Wilkening. Donaldson STEM night. Donaldson Elementary, Tucson, AZ.
March 3, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Craycroft Elementary School, Tucson, AZ.
March 4, 2016. Julie Hasty. Bethune School Field Day. Rio Salado Riparian Area.
March 4, 2016. Sean Sederstrom. Sahuarita/Green Valley Water Festival. Sahuarita/Green Valley, AZ.
March 4, 2016. Betsy Wilkening. SARSEF. TCC, Tucson, AZ.
March 5, 2016. Tara Oakes. Roosevelt STEAM Event. MLK School- Roosevelt District.
March 5, 2016. Betsy Wilkening. WISE Environmental Science & Social Justice Academy. University of AZ, Tucson, AZ.
March 7, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Oyama Elementary School, Tucson, AZ.



March 8, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Borton Elementary School, Tucson, AZ.
March 8, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Safford K-8, Tucson, AZ.
March 9, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Borton Elementary School, Tucson, AZ.
March 10, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Peter Howell Elementary School, Tucson, AZ.
March 10, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Craycroft Elementary School, Tucson, AZ.
March 10, 2016. Sean Sederstrom. Gilbert Water Festival. Gilbert, AZ.
March 11, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Van Buskirk Elementary School, Tucson, AZ.
March 12, 2016. Betsy Wilkening. Science City Tucson Festival of Books. University of Arizona, Tucson, AZ.
March 14, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Warren Elementary School, Tucson, AZ.
March 17, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Gale Elementary School, Tucson, AZ.
March 17, 2016. Tara Oakes. Arlington Field Day. Hassayampa Riparian Area.
March 18, 2016. Betsy Wilkening. 6th Grade Groundwater Presentation. Walter Douglas Elementary School, Tucson, AZ.
March 18, 2016. Tara Oakes. SMEEC- City of PHX camp. Phoenix, AZ.
March 22, 2016. Pam Justice. Water Scene Investigation. Galveston Elementary School, Chandler Elementary School, Chandler, AZ.
March 23, 2016. Tara Oakes. Sunset Hills Field Day. Hassayampa Riparian Area.
March 24, 2016. Sean Sederstrom. Southern Gila County Water Festival. Southern Gila County, AZ.
March 25, 2016. Julie Hasty. Copper Trails Field Day. Hassayampa Riparian Area.
March 26, 2016. Betsy Wilkening. WISE Expanding Your Horizons. Walden Grove High School, Sahuarita, AZ.
March 28, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Erickson Elementary School, Tucson, AZ.
March 30, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Howell Elementary School, Tucson, AZ.
March 31, 2016. Tara Oakes. Copper Creek Field Day. Hassayampa Riparian Area.
March 31, 2016. Sean Sederstrom. Tucson Amphi Water Festival. Amphitheater High School, Tucson, AZ.
April 1, 2016. Tara Oakes. Sonoran Foothills Field Day. Hassayampa Riparian Area.
April 1, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Robison Magnet Middle School, Tucson, AZ.
April 1, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Craycroft Elementary School, Tucson, AZ.
April 2, 2016. Pam Justice. Balancing Supply and Demand. Unitarian Universalist Church, Phoenix, AZ.

April 3, 2016. Betsy Wilkening. Stem Festival Hebrew Academy. Tucson, AZ.
April 4, 2016. Betsy Wilkening. 6th Grade Groundwater Presentation. Centennial Elementary School, Tucson, AZ.
April 4, 2016. Betsy Wilkening. 6th Grade Groundwater Presentation. Dietz K-8, Tucson, AZ.
April 5, 2016. Betsy Wilkening. 6th Grade Groundwater Presentation. Cross Middle School, Tucson, AZ.
April 5, 2016. Betsy Wilkening. JCC Science Sunday. Jewish Community Center, Tucson, AZ.
April 6, 2016. Julie Hasty. Country Garden Field Day. Hassayampa Riparian Area.
April 6, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Van Buskirk Elementary School, Tucson, AZ.
April 7, 2016. Tara Oakes. Copper King Field Day. Hassayampa Riparian Area.
April 7, 2016. Sean Sederstrom, Chuck Dugan. Florence Water Festival. Florence, AZ.
April 8, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Wheeler Elementary School, Tucson, AZ.
April 10, 2016. Betsy Wilkening. Sam Hughes Garden Tour. Tucson, AZ.
April 11, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Banks Elementary School, Tucson, AZ.
April 12, 2016. Pam Justice. Water Scene Investigation. Riggs Elementary, Chandler, AZ.
April 13, 2016. Tara Oakes. Desert Valley Field Day. Hassayampa Riparian Area.
April 13, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Robison Elementary School, Tucson, AZ.
April 14, 2016. Tara Oakes. Orangewood Field Day. Hassayampa Riparian Area.
April 14, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Lineweaver Elementary School, Tucson, AZ.
April 15, 2016. Tara Oakes. Mountain View Field Day. Mountain View Middle School, Phoenix, AZ.
April 15, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. St. Michael's Elementary School, Tucson, AZ.
April 15, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Gale Elementary School, Tucson, AZ.
April 15, 2016. Sean Sederstrom. Chandler Water Festival. Chandler, AZ.
April 18, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Los Amigos Elementary School, Tucson, AZ.
April 18, 2016. Pam Justice. Water Scene Investigation. Augusta Ranch, Gilbert, AZ.
April 19, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Kellond Elementary School, Tucson, AZ.
April 20, 2016. Tara Oakes. Verrado Field Day. Hassayampa Riparian Area.
April 20, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. St. Michaels Elementary School, Tucson, AZ.

April 21, 2016. Tara Oakes. Verrado Field Day. Hassayampa Riparian Area.
April 21, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Booth-Fickett K-8, Tucson, AZ.
April 21, 2016. Sean Sederstrom, Chuck Dugan. Apache Junction Water Festival. Apache Junction, AZ.
April 21, 2016. Betsy Wilkening. Estes Elementary Earth Day. Estes Elementary School, Marana, AZ.
April 22, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Linweaver Elementary School, Tucson, AZ.
April 22, 2016. Julie Hasty. WIP - Rainwater Harvesting. Country Gardens Charter School, Laveen, AZ.
April 22, 2016. Betsy Wilkening. Earth Day Sam Hughes. Sam Hughes Elementary School, Tucson, AZ.
April 23, 2016. Chuck Dugan. "Where's the Water?". The Museum of Casa Grande, Casa Grande, AZ.
April 25, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Kellond Elementary School, Tucson, AZ.
April 27, 2016. Tara Oakes. Science Fair. Arlington Elementary School, Phoenix, AZ.
April 27, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Roskruge Elementary School, Tucson, AZ.
April 28, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Booth-Fickett Elementary School, Tucson, AZ.
April 28, 2016. Betsy Wilkening. Pima county library science festival. Wilmot Library, Tucson, AZ.
April 29, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Los Amigos Elementary School, Tucson, AZ.
May 2, 2016. Pam Justice. Water Scene Investigation. Burke Elementary School, Gilbert, AZ.
May 3, 2016. Betsy Wilkening. Pump it up lesson Engineering design day. University of Arizona, Tucson, AZ.
May 3, 2016. Pam Justice. Water Scene Investigation. Tarwater Elementary School, Chandler, AZ.
May 4, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Castlehill Country Day School, Tucson, AZ.
May 6, 2016. Pam Justice. Water Scene Investigation. Auxier Elementary School, Chandler, AZ.
May 9, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Castlehill Country Day School, Tucson, AZ.
May 11, 2016. Sean Sederstrom. Nogales Water Festival. Nogales, AZ.
May 15, 2016. Betsy Wilkening. Water Family Fun Day: Tucson Botanical Gardens. Tucson Botanical Gardens, Tucson, AZ.
May 16, 2016. Chuck Dugan. School Bathroom Water Audit. Mesquite Elementary School, Casa Grande, AZ.
May 23, 2016. Betsy Wilkening. Santa Rita Eagle Jam. Santa Rita High School, Tucson, AZ.
June 1, 2016. Chuck Dugan. Summer Reading Program - Water Cycle. Community Youth Center, Coolidge, AZ
June 20, 2016. Betsy Wilkening. Basis Summer Program - Aqua Bodies. Basis School, Tucson, AZ.

June 24, 2016. Betsy Wilkening. Mini Water Festival. Mesquite Elementary School, Vail, AZ.
July 5, 2016. Betsy Wilkening. Mulcahy/City YMCA- Preschool AquaBodies Lesson. Mulcahy/City YMCA- Preschool, Tucson, AZ.
July 8, 2016. Betsy Wilkening. Holland Elementary YMCA K-2 Incredible Journey Lesson. Holland Elementary School YMCA K-2, Tucson, AZ.
July 14, 2016. Betsy Wilkening. Mulcahy YMCA Various Lessons. Mulcahy YMCA, Tucson, AZ.
July 16, 2016. Betsy Wilkening. Back to School Bash. Clements Recreation Center, Tucson, AZ.
July 21, 2016. Betsy Wilkening. Open House. Air and Space Academy, Tucson, AZ.
July 28, 2016. Betsy Wilkening. NW YMCA - Day Camp. NW YMCA - Day Camp, Tucson, AZ.
July 30, 2016. Betsy Wilkening. Ready Set School. Santa Rosa Recreation Center, Tucson, AZ.
August 8, 2016. Tara Oakes. Rainwater Harvesting Activity. Copper King Elementary School, Phoenix, AZ.
August 24, 2016. Betsy Wilkening. HS Groundwater Presentation. Salpointe Catholic, Tucson, AZ.
August 27, 2016. Betsy Wilkening. ASDM Teacher Appreciation Night. 2021 N Kinney Rd, Tucson, AZ.
August 30, 2016. Pam Justice. Gilbert Water Scene Investigation. Boulder Creek Elementary School, Mesa, AZ.
August 31, 2016. Betsy Wilkening. Irrigation Audit. Salpointe, Tucson, AZ.
September 9, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Marshall Elementary School, Tucson, AZ.
September 13, 2016. Sara Krznarich. 6th Grade Groundwater Presentation. Arlington Elementary School, Arlington, AZ.
September 13, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Gale Elementary School, Tucson, AZ.
September 13, 2016. Betsy Wilkening. Irrigation Audit. Salpointe, Tucson, AZ.
September 15, 2016. Sara Krznarich. Flagstaff Water Festival. Flagstaff, AZ.
September 19, 2016. Julie Hasty. High School Groundwater Presentation. Canyon Valley School, Mesa, AZ.
September 20, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Mary Belle McCorkle Academy, Tucson, AZ.
September 22, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Borton Elementary School, Tucson, AZ.
September 22, 2016. Chuck Dugan. Maricopa Water Festival. Maricopa, AZ.
September 22, 2016. Betsy Wilkening. STEM LESSON: Thornydale Elementary. 7651 N Oldfather Rd, Tucson, AZ.
September 23, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. McCorkle Elementary School, Tucson, AZ.
September 23, 2016. Tara Oakes. Rio Salado Field Day (Orangewood Middle School). Rio Salado habitat Restoration Area, Phoenix, AZ.
September 23, 2016. Betsy Wilkening. Faucet Audit. Edge High School, Tucson, AZ.

September 23, 2016. Pam Justice. Gilbert Water Scene Investigation. Towne Meadows Elementary School, Gilbert, AZ.
September 26, 2016. Betsy Wilkening. 5th Watershed: Presidio School. 1695 E Fort Lowell Rd, Tucson, AZ.
September 27, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. White Elementary School, Tucson, AZ.
September 27, 2016. Kerry Schwartz. Payson Water Festival. Payson, AZ.
September 27, 2016. Betsy Wilkening. Faucet Audit. Presidio, Tucson, AZ.
September 28, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Borton Elementary School, Tucson, AZ.
September 29, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Gale Elementary School, Tucson, AZ.
September 29, 2016. Tara Oakes. Verde Valley Water Festival. Verde Valley, AZ.
September 29, 2016. Betsy Wilkening. City HS Algebra 500 Armory Park. 222 S 5th Ave, Tucson, AZ.
September 29, 2016. Betsy Wilkening. Living River Field Trip. 7548 N Silverbell Rd, Tucson, AZ.
September 30, 2016. Julie Hasty. 6th Grade Groundwater Presentation. Bethune School, Phoenix, AZ.
September 30, 2016. Tara Oakes. 6th Grade Groundwater Presentation. Verrado School, Buckeye, AZ.
September 30, 2016. Betsy Wilkening. Faucet Audit. Edge High School, Tucson, AZ.
October 3, 2016. Sara Krznarich. 6th Grade Groundwater Presentation. Verrado School, Buckeye, AZ.
October 4, 2016. Betsy Wilkening. Faucet Audit. Presidio, Tucson, AZ.
October 5, 2016. Betsy Wilkening. Sweet Water Wet Lands Tour. 2511 W Sweetwater Dr, Tucson, AZ.
October 5, 2016. Betsy Wilkening. Faucet Audit. Presidio School, Tucson, AZ.
October 6, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Collier Elementary School, Tucson, AZ.
October 6, 2016. Sara Krznarich. Rainwater Harvesting Activity. Royal Palm Middle School, Phoenix, AZ.
October 6, 2016. Betsy Wilkening. Faucet Audit. Tucson High School, Tucson, AZ.
October 7, 2016. Betsy Wilkening. Pump it Up! Hermosa Montessori School . 12051 E fort Lowell Rd. Tucson, AZ.
October 11, 2016. Betsy Wilkening. Living River Field Trip Crossroads at Silverbell District Park. 7548 N Silverbell Rd, Tucson, AZ.
October 17, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. J.E. White Elementary School, Tucson, AZ.
October 18, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Erickson Elementary School, Tucson, AZ.
October 18, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Hollinger Elementary School, Tucson, AZ.
October 18, 2016. Sara Krznarich. 6th Grade Groundwater Presentation. Copper Trails Elementary School, Goodyear, AZ.

October 19, 2016. Betsy Wilkening. Rattlesnake Ridge STEM Night. Rattlesnake Ridge Elementary School. 8500 N Continental Reserve Loop, Tucson, AZ.
October 20, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Carillo K-5 Magnet School, Tucson, AZ.
October 20, 2016. Sara Krznarich. Hassayampa Field Day (Copper King Middle School). Hassayampa Riparian Area, Phoenix, AZ.
October 20, 2016. Betsy Wilkening. Flowing Wells Jr. High STEM night. 4545 N La Cholla Blvd, Tucson, AZ.
October 21, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Centennial Elementary School, Tucson, AZ.
October 21, 2016. Betsy Wilkening. Pump it Up! Hermosa Montessori School. 12051 E Fort Lowell Rd, Tucson, AZ.
October 22, 2016. Betsy Wilkening. Sweetwater Wetlands Tucson Meet Your Birds. 2511 W Sweetwater Dr, Tucson, AZ.
October 23, 2016. Betsy Wilkening. Sweetwater Wetlands: Girl Scout Troop #133. 2511 W Sweetwater Dr, Tucson, AZ.
October 24, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. J.E. White Elementary School, Tucson, AZ.
October 24, 2016. Pam Justice. Litchfield Water Festival. Goodyear Park, Litchfield, AZ.
October 25, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Adah Lineweaver Elementary School, Tucson, AZ.
October 26, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Hollinger K-8, Vail, AZ.
October 26, 2016. Betsy Wilkening. Paolo Freire Downtown School Student Presentations. 47 E Pennington St, Tucson, AZ.
October 26, 2016. Betsy Wilkening. Living River Field Trip Crossroads at Silverbell District Park. 7548 N Silverbell Rd, Tucson, AZ.
October 27, 2016 Betsy Wilkening. 6th Grade Groundwater Presentation. Wilson K-8, Tucson, AZ.
October 27, 2016. Betsy Wilkening. Living River Field Trip Crossroads at Silverbell District Park. 7548 N Silverbell Rd, Tucson, AZ.
October 28, 2016. Betsy Wilkening. Arizona STEM Adventure Pima College NW. 7600 North Shannon Road, Tucson, AZ.
October 30, 2016. Betsy Wilkening. Cyclovia - WMG. 1137 N Dodge Blvd, Tucson, AZ.
October 31, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Fruchthender Elementary School, Tucson, AZ.
November 1, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Robins K-8, Tucson, AZ.
November 1, 2016. Betsy Wilkening. Presidio School Student SWAP Presentations. 1695 E Fort Lowell Rd, Tucson, AZ.
November 1, 2016. Pam Justice. Gilbert Water Scene Investigation. Highland Park Elementary School, Gilbert, AZ.
November 2, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Lineweaver Elementary School, Tucson, AZ.
November 3, 2016. Betsy Wilkening. 6th Grade Groundwater Presentation. Wilson K-8, Sells, AZ.
November 3, 2016. Sara Krznarich. Yuma Water Festival. City of Yuma Public Works Building, Yuma, AZ.
November 3, 2016. Pam Justice. Chandler Water Scene Investigation. CTE Independence School, Chandler, AZ.



November 4, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Centennial Elementary School, Tucson, AZ.
November 4, 2016. Julie Hasty. Chandler Water Festival. Tumbleweed Park, Chandler, AZ.
November 5, 2016. Betsy Wilkening. The Big Green Event Marana. 7548 North Silverbell Road, Marana, AZ.
November 7, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Khalsa Montessori School, Tucson, AZ.
November 7, 2016. Sara Krznarich. Mystery Box Presentation. Copper Trails Elementary, Phoenix, AZ.
November 7, 2016. Pam Justice. Gilbert Water Scene Investigation. Patterson Elementary School, Gilbert, AZ.
November 8, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Tully Elementary School, Tucson, AZ.
November 8, 2016. Betsy Wilkening. Irrigation Audit. Anza Trail School, Sahuarita, AZ.
November 9, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Tucson High School, Tucson, AZ.
November 10, 2016. Betsy Wilkening. 6th Grade Groundwater Presentation. Wilson K-8, Tucson, AZ.
November 10, 2016. Betsy Wilkening. Living River Field Trip Crossroads at Silverbell District Park. 7548 N Silverbell Rd, Tucson, AZ.
November 10, 2016. Pam Justice. Chandler Water Scene Investigation. AZ College Prep, Chandler, AZ.
November 12, 2016. Betsy Wilkening. The Pecan Festival - Green Valley. 1625 E Sahuarita Rd, Sahuarita, AZ.
November 14, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Collier Elementary School, Tucson, AZ.
November 15, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Kellond Elementary School, Tucson, AZ.
November 15, 2016. Betsy Wilkening. Living River Field Trip Crossroads at Silverbell District Park. 7548 N Silverbell Rd, Tucson, AZ.
November 15, 2016. Pam Justice. Gilbert Water Scene Investigation. Houston Elementary School, Gilbert, AZ.
November 16, 2016. Kerry Schwartz. Roosevelt Water Festival. El Reposo Park, Phoenix, AZ.
November 18, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Kellond Elementary School, Tucson, AZ.
November 18, 2016. Betsy Wilkening. Craycroft Elem STEAM Night. 5455 E Littletown Rd, Tucson, AZ.
November 19, 2016. Betsy Wilkening. Family Festival in the Park- Reid Park. 900 S Randolph Way, Tucson, AZ.
November 21, 2016. Sara Krznarich. Marana Water Festival. Crossroads at Silverbell District Park, Marana, AZ.
November 22, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Manzo Elementary School, Tucson, AZ.
November 22, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Warren Elementary School, Tucson, AZ.
November 23, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Carrillo K-5 Magnet Elementary School, Tucson, AZ.
November 28, 2016. Betsy Wilkening. Irrigation Audit. Palo Verde High School, Tucson, AZ.

November 29, 2016. Betsy Wilkening. 6th Grade Groundwater Presentation. Basis Tucson North School, Tucson, AZ.
November 29, 2016. Betsy Wilkening. 6th Grade Groundwater Presentation. Basis Tucson North School, Tucson, AZ.
November 30, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Grace Point Christian Academy, Tucson, AZ.
December 1, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Sewell Elementary School, Tucson, AZ.
December 1, 2016. Betsy Wilkening. 6th Grade Groundwater Presentation. Basis Tucson North, Tucson, AZ.
December 1, 2016. Betsy Wilkening. Living River Field Trip Crossroads at Silverbell District Park. 7548 N Silverbell Rd, Tucson, AZ.
December 2, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Grace Point Christian Academy, Tucson, AZ.
December 5, 2016. Julie Hasty, Barbara Owens. High School Groundwater Presentation. Canyon Valley School, Mesa, AZ.
December 5, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Tully Elementary School, Tucson, AZ.
December 5, 2016. Betsy Wilkening. Irrigation Audit. Palo Verde High School, Tucson, AZ.
December 6, 2016. Betsy Wilkening. Irrigation Audit. Palo Verde High School, Tucson, AZ.
December 7, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Manzo Elementary School, Tucson, AZ.
December 8, 2016. Sara Krznarich. Riparian Presentations. Royal Palm Middle School, Phoenix, AZ.
December 8, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Oyama Elementary School, Tucson, AZ.
December 9, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Robins K-8 , Tucson, AZ.
December 12, 2016. Julie Hasty. Mystery Box Presentation. Copper Creek Elementary School, Oro Valley, AZ.
December 12, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Fruchthendler Elementary School, Tucson, AZ.
December 13, 2016. Barbara Owens. Mystery Box Presentation. Copper Creek Elementary School, Oro Valley, AZ.
December 13, 2016. Sara Krznarich. Mystery Box Presentation. Verrado School, Buckeye, AZ.
December 13, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. Robison Elementary School, Tucson, AZ.
December 15, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. John B. Wright Elementary School, Tucson, AZ.
December 16, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Sewell Elementary School, Tucson, AZ.
December 19, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. John B. Wright Elementary School, Tucson, AZ.
December 20, 2016. Betsy Wilkening. 3rd Grade Groundwater Presentation. CE Rose PreK-8, Tucson, AZ.
December 20, 2016. Betsy Wilkening. 6th Grade Groundwater Presentation. Utterback Magnet Middle School, Tucson, AZ.
December 21, 2016. Betsy Wilkening. Sweetwater Wetlands Water Festival. Erickson Elementary School, Tucson, AZ.

## Section 9 - ARIZONA PROJECT WET WORKSHOPS

January 9, 2016. Holly Thomas-Hilburn. 2015-16 Cohort WIP Unit 4. Maricopa Cooperative Extension Office, Phoenix, AZ.
January 12, 2016. Sean Sederstom. Peoria Water Festival Teacher Workshop. Peoria Unified Schools District Office, Peoria, AZ.
January 21, 2016. Sean Sederstom. Gilbert Water Festival Teacher Workshop. Gilbert Unified Schools District Office, Gilbert, AZ.
February 11, 2016. Sean Sederstom. Tucson/Sahuarita Water Festival Teacher Workshop. Amphitheater Public School District Office, Tucson, AZ.
February 17, 2016. Kerry Schwartz. Tohono Chul Docent Training. Tohono Chul Park, Tucson, AZ.
March 11, 2016. Sean Sederstom. Southern Gila County WF Teacher Workshop. JFK Elementary School, Superior, AZ.
March 18 - 19, 2016. Betsy Wilkening. Living River Workshop. Pima County Natural Resources Parks & Recreation
April 9, 2016. Sean Sederstom. Nogales Water Festival Teacher Workshop. Santa Cruz County Cooperative Extension Office, Nogales, AZ.
April 16, 2016. Holly Thomas-Hilburn, Kerry Schwartz. Water We Singing About? WRRRC, Tucson, AZ.
April 21, 2016. Sean Sederstom, Chuck Dugan. Apache Junction Water Festival Teacher Workshop. Peralta Trail Elementary School, Apache Junction, AZ.
April 29, 2016. Betsy Wilkening, Kerry Schwartz. 2015 STEM Academy Follow Up. WRRRC, Tucson, AZ.
May 7, 2016. Holly Thomas-Hilburn. WIP Aquatic Communities Workshop.
May 24, 2016. Kerry Schwartz, Sean Sederstrom, Dee Fife. Marana Water Festival Teacher Workshop. Tortolita Middle School, Marana, AZ.
June 1 - 2, 2016. Pam Justice, Kerry Schwartz. Exploring the Colorado STEM. Maricopa Cooperative Extension Office, Phoenix, AZ.
June 6 - 10, 2016. Betsy Wilkening, Kerry Schwartz. Tucson STEM Academy. University of Arizona, Tucson, AZ.
June 14 - 16, 2016. Betsy Wilkening, Kerry Schwartz. STEMAZing Workshop. University of Arizona Tech Park, Tucson, AZ.
June 20 - 24, 2016. Pam Justice, Kerry Schwartz. SRP Stem, Water Solutions. SRP Service area, Phoenix, AZ.
July 11 - 14, 2016. Holly Thomas-Hilburn. Systems Thinking Workshop. Maricopa Cooperative Extension Office, Phoenix, AZ.
July 19 - 20, 2016. Kerry Schwartz. Advanced Water Workshop. Decision Center for a Desert City, Tempe, AZ.
July 22 - 23, 2016. Kerry Schwartz. Cochise Water Wise Workshop. University of Arizona South Campus, Sierra Vista, AZ.
July 26, 2016. Pam Justice, Sara Krznarich. Litchfield Teacher Workshop. Litchfield, AZ.
August 27, 2016. Kerry Schwartz. Roosevelt Teacher Workshop. Sierra Vista Elementary School, Sierra Vista, AZ.
August 30, 2016. Tara Oakes. Verde Valley/Flagstaff Teacher Workshop. Yavapai County District 3 Offices, Cottonwood, AZ.
September 10, 2016. Tara Oakes. Roosevelt Teacher Workshop. Sierra Vista Elementary School, Sierra Vista, AZ.
September 12, 2016. Chuck Dugan. Maricopa Teacher Workshop. Maricopa Unified School District, Maricopa District, AZ.

September 13 - 15, 2016. Chuck Dugan. Pinal County WF Teacher Workshop. Mesquite Elementary School, Casa Grande, AZ.

September 15, 2016. Kerry Schwartz. Arizona Hydrological Society Workshop. Casino del Sol, Tucson, AZ.

September 17, 2016. Sara Krznarich. Yuma Teacher Workshop. City of Yuma Public Works, Yuma, AZ.

September 27 - 28, 2016. Julie Hasty, Tara Oakes. Chandler WF Teacher Workshop. Chandler City Hall, Chandler, AZ.

October 12-13, 2016. Betsy Wilkening, Kerry Schwartz. Living River Workshop. Wheeler Taft Library & USGS.

October 22, 2016. Julie Hasty, Tara Oakes. Chandler WF Teacher Workshop II. Chandler Senior Center, Chandler, AZ.

October 27, 2016. Kerry Schwartz. Tucson Water Festival workshop. Amphitheater Public School District Office, Tucson, AZ.

October 27, 2016. Kerry Schwartz. Tucson, Marana, and Sahuarita WF Teacher Workshop. Amphi PD Office, Tucson, AZ.

October 29, 2016. Holly Thomas Hilburn. Aqua STEM SWAP Unit. Maricopa Cooperative Extension Office, Phoenix, AZ.

November 19, 2016. Kerry Schwartz. ASTA - Spark Students' Connection to Content. Grand Canyon University, Phoenix, AZ.

November 19, 2016. Holly Thomas-Hilburn. ASTA - Engineering a Science Tool. Grand Canyon University, Phoenix, AZ.

December 6, 2016. Sara Krznarich, Barbara Owens. Peoria Unified District Office, Peoria, AZ.

## Section 10 - ARIZONA PROJECT WET VOLUNTEER TRAINING

January 13, 2016. Pam Justice. Board Leadership Training. Freeport McMoRan Training Center, Globe, AZ.

January 27, 2016. Sean Sederstrom. Litchfield Water Festival Volunteer Training. Litchfield Elementary School District, Litchfield, AZ.

February 8, 2016. Chuck Dugan. Casa Grande Water Festival Training. University of Arizona Extension, Casa Grande, AZ.

February 9, 2016. Chuck Dugan. Casa Grande Water Festival Training. University of Arizona Extension, Casa Grande, AZ.

February 15, 2016. Kerry Schwartz. Field Investigation Volunteer Training. Rio Salado Riparian Area, Phoenix, AZ.

February 15, 2016. Holly Thomas-Hilburn. Field Investigation Volunteer Training. Rio Salado, Phoenix, AZ.

February 16, 2016. Chuck Dugan. Casa Grande Water Festival Training. Abbott Facility, Casa Grande, AZ.

April 12, 2016. Chuck Dugan. Apache Junction Water Festival Volunteer Training. Multi-Generational Center, Apache Junction, AZ.

September 6, 2016. Kerry Schwartz. Flagstaff Volunteer Training. Flagstaff, AZ.

September 14, 2016. Sara Krznarich. Flagstaff Volunteer Training. Foxglenn Park, Flagstaff, AZ.

September 20, 2016. Chuck Dugan. Maricopa WF Volunteer Training. University of Arizona Extension Office, Casa Grande, AZ.

September 22, 2016. Tara Oakes. Verde Valley Volunteer Training. Yavapai County ROADS Office, Verde Valley, AZ.

September 26, 2016. Kerry Schwartz. Payson WF Volunteer Training. Payson, AZ.
October 20, 2016. Pam Justice. Litchfield WF Volunteer Training. Litchfield, AZ.
November 1, 2016. Julie Hasty. Chandler WF Volunteer Training. Chandler, AZ.
November 2, 2016. Sara Krznarich. Yuma WF Volunteer Training. Quartermaster Depot, Yuma, AZ.
November 4, 2016. Betsy Wilkening. STEM on the Range Teacher Workshop. Santa Rita Experimental Range, Green Valley, AZ.
November 14, 2016. Sara Krznarich, Julie Hasty. Roosevelt South Mountain HS WF volunteer training. South Mountain High School, Phoenix, AZ.
November 15, 2016. Kerry Schwartz. Roosevelt South Mountain HS WF volunteer training. South Mountain High School, Phoenix, AZ.
November 17, 2016. Kerry Schwartz. Marana WF Volunteer Training. Tucson, AZ.

## Section 11 - WRRC Students

Name	Major/Department	Degree Sought	Graduation Date
Bernat, Rebecca	Soil, Water & Environ Sci	PhD	
Aleman, Miriam	Environmental Sciences	BS	
Batts, Iesha	Chemical Engineering/Mathematics	BS	May 16
Bui, Nicole	Biosystems Engineering	BS	May 16
Callaway, Kristen	Language, Reading, Culture	MS	May 17
Campos-Alvarez, Max	Hydrology & Water Resources	BS	May 17
DeMoulin, Jade	French Language, Literature & Culture	BA	May 16
Fullerton, Christopher	Geography	PhD	
Golden, Jake	Water Society & Policy	MS	May 2018
Gray, Erin	Computer Science, Environ Hydrology & Water Resources	BS	
Hancock, Scott	Pre-Neurosci & Cognitive Sci	BS	
Kennett, Bailey	Water, Society & Policy	MS	
Kleiman, Beth	Non Degree Seeking		Dec 16
Lynch, Robert	Soil, Water & Environ Sci	MS	
Miller, Hennessy	Water, Society & Policy	MS	

Murphy, Brendan	Computer Science / Japanese	BS	Dec 16
Nelson, Craig	Water, Society & Policy	MS	
O'Neill, Brian	Water, Society, & Policy	MS	May 16
Riccio, Joshua	Computer Science	BS	
Richard, Danielle	Biology/ Public Health/ Spanish	BS	
Roudaut, Marie-Blanche	Arid Lands Resource Sciences	MS	
Sanchez, R. Andres	Hydrology	PhD	May 18
Schwenning, Faith	Early & Middle Childhood Education Studies	BS	Dec 16
Silber Coats, Noah	Geography	PhD	
Tapia, Elia	Arid Lands Resource Sciences	MS	
Vimont, Ethan	Soil, Water & Environ Sci	MS	
White, Alissa	Hydrology	MS	
Wilkening, Patrick	Computer Science	BS	