

Moab Area Watershed Partnership

Meeting Minutes November 20, 2019
Grand Center, Moab

Stakeholders Present	Affiliation	Others
Jorge Gonzalez	BLM	Arne Hultquist, Watershed Coordinator
John Weisheit	Living Rivers	
Rosemarie Russo	Moab City	
Dave Erley	TCU & Moab Solutions	
Jonathan Dutrow	SEUHD	
Kara Dohrenwend	Grand Conservation District	
Gerrish Willis	Grand County Planning Commission	
Dale Weiss	GWSSA	
Dana Van Horn	GWSSA	
Tina Marion	USFS	
Oscar Antillon	City of Moab	
Levi Jones	City of Moab	
Jason Roper	NRCS	
Rebecca Weissinger	Herself	
Ann Marie Aubry	BLM	
Scott Hacking	UDEQ	
Orion Rogers	SEUHD	
Jeff Adams	CWC	
Mila Dunbar Irwin	Grand County	
Denver Perkins	City of Moab Water Board	
Janae Wallace	UDNR/UGS	
Ryan Jones	UDAF	
Jonathan Dutrow	SEUHD	
Marc Stilson	UDWri	
Mary McGann	Grand County	
Zacharia Levine	Grand County	

ACTIVITY	DISCUSSION	ACTION
Introductions, Review Agenda and accept September Minutes	Introductions were made. The Agenda and September minutes were accepted. The items on the Agenda were not changed, but the order of them was.	September's minutes and today's agenda were approved.
Watershed Coordinators Report	There weren't any questions on the Watershed Coordinators report.	Arne will continue submitting WC reports
New Project and Grant Reports	<p>Dog waste stations: Arne informed the group that he had received a dog waste station/signs/bag request from the Recreation Section of the BLM in Moab. He will put together a grant for several dog waste stations/signs/bags for submittal to UDWQ NPS funding in March.</p> <p>100 South Reconstruction: Arne informed the group that the City of Moab has a shovel ready project for 100 South that includes "bioswales" and several other improvements to storm water systems. Arne has asked the City if they wanted to perform part of the project with 319 funding from UDWQ.</p> <p>Pack Creek Phase I Stream Restoration: Several people in attendance this afternoon and others met behind the Cinema</p>	Attendees were informed that all grant applications that have projects within the MAWP watersheds need to have them submitted to the MAWP by the March meeting to be ranked. Projects outside the MAWP watersheds need to be submitted to Arne at the same time to

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	<p>Court Apartments earlier today to discuss this project. At this time the project consists of two properties, Stan Hollands and SEU Housing Authority. Jason Roper of the NRCS has suggested Stan consider applying for EQUIP funds from the NRCS as a first step on his property. The project would also involve some fencing and completion of the pedestrian pathway that will connect the Holyoak subdivision with Mill Creek Drive.</p> <p>Matheson Wetlands Phase IV Mill Creek Stream Restoration: Arne mentioned this project still has an open grant from UDWQ. The TNC and UDWR will consider applying for an RCPP grant next year. This year's deadline is December 3rd.</p> <p>Red Cliffs Corral Project: Arne, Scott and Orion have been requested by UDWQ to work with Red Cliffs Ranch on possibilities for moving or amending the cattle corral to protect Castle Creek. They have a meeting set up in December with the property managers.</p> <p>Onion Creek Road Stabilization: Historically the BLM has helped Grand County Road Department with funds to stabilize the Onion Creek Road. That funding is no longer available and Grand County has been informed that they could apply for UDWQ funding if they have a project ready for that road</p>	<p>facilitate their submission to UDWQ.</p> <p>Arne will work with Stan and the NRCS to facilitate funding from NRCS and develop plans for the Holland property. There will be a scoping meeting early in December to work with other stakeholders on the project plan for both properties.</p> <p>Arne and others will meet with Red Cliffs personnel to determine the applicability of the project.</p> <p>Arne will reach out to Bill Jackson of the Road Department to request a proposal from his agency.</p>
<p>Vulnerability Consequences and Adaptive Planning Scenarios Final Report</p>	<p>Arne and Rosemarie announced the report has been finalized and everyone that participated has received a copy. There is also a copy available to anyone on the City of Moab's Sustainability page. Arne and Rosemarie presented a summary of the workshops climate findings and management actions process. The climate study indicated our average temperatures have already increased by almost 2 degrees Fahrenheit compared to the last century and will probably increase a total of 5 degrees by 2050. Average precipitation will remain the same but with greater annual and storm intensity fluctuations. This will lead to an overall drying effect that has been termed aridification. With average annual precipitation we will have about an 18% decrease in available water supply due to increased evaporative-transpiration with the higher temperatures. Furthermore, storm intensities will increase and by 2050 our 100 year rainfall event will happen about every 50 years and our 100 year rainfall amount will increase from 1.36 inches to 1.61 inches or 21%. Rosemarie and Arne briefly mentioned that the workshop participants developed numerous management actions that could be taken to mitigate the negative effects of climate change. The management actions were put into the three categories of Groundwater Depletion, Storm Water Management and Wildfire Risk. Those management actions are available to Institutional and Agency officials for consideration.</p>	
<p>Greywater Rule:</p>	<p>Arne introduced this subject by noting it was one of the management actions suggested by the drought workshop to curb groundwater depletion. The Water Quality Board for the Utah Division of Water Quality toured the Moab/Castle Valley area visiting several non-point source project sites and the new Water</p>	<p>Arne will write a letter to UDWQ from the MAWP recommending adoption of the greywater rule. He will send it to Orion (the</p>

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	<p>Reclamation Facility. They appeared impressed with the efforts and projects in our area. They also had their regular Board Meeting at the MARC where they approved a new greywater rule to move forward into the rule making process. Orion has been helping develop the new rule and told attendees that the new rule allows smaller greywater systems to be installed in residential home safely and at a reasonable cost. The cost for the indoor plumbing in new construction that would enable homeowners to use greywater is less than \$500 and if you wanted to use the greywater a permit from the Southeastern Utah Health Department would be required at a cost of \$375. The attendees then discussed the approach officials appear to be taking. There have been several discussions amongst planners and building inspectors on how to move forward with new rule. In general, although it is relatively “easy” to plumb new residential construction for greywater reuse, using it requires some knowledge and active management by homeowners. Orion indicated that an “owner’s manual” has been prepared to provide that information. There are also the same issues in this greywater rule as with the previous one for commercial and/or larger buildings. For large buildings using greywater would need a “larger” system that requires holding tanks and other hardware. Furthermore, using greywater from buildings larger than one story also presents some difficulties. Zacharia stated his planning department is working on developing some code for greywater requirements but his agency is currently working on requirements for commercial hotels because they would like to have those new rules in place before the moratorium on new hotel construction ends. Orion pledged to continue working with planners on those new rules. The attendees were asked if they wanted to suggest anything to institutions that will be affected by the new greywater rule. It was suggested that during the rule making process, the MAWP write a letter of support to UDWQ requesting adoption of the new rule. The attendees agreed to that suggestion. Prior to the end of the greywater discussion it was noted that another management action suggested in the drought workshop was consistency between City and County building codes. It was noted the greywater codes would be appropriate application of this management action suggestion.</p>	<p>MAWPS Chair) for review prior to sending the letter.</p>
<p>Review of water year 2019 Monitoring Data</p>	<p>This is the 6th year Arne has presented an annual monitoring report to the MAWP. He started the presentation differently by noting that the monitoring being performed has not been done alone. There has enormous help from several agencies and individuals and he included a slide acknowledging them. He then reminded everyone that one of the goals of this partnership was to curb non-point source pollution and help waterbodies meet the beneficial use criteria by not exceeding water quality standards. He noted that the 2016 integrated report from UDWQ currently lists the following waterbodies and what standards they are exceeding:</p>	<p>Arne will make a pdf of the report and send it to all attendees and put it on our website.</p>

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Mill Creek (excluding Pack Ck) from confluence with Colorado to USFS Boundary:
Temperature
Dissolved Oxygen
E Coli
Pack Creek from confluence with Mill Ck to USFS Boundary
Total Dissolved Solids
Temperature
E Coli
Selenium
Castle Creek from confluence with Colorado to Seventh Day Adventist Diversion
O/E Bioassessment
Castle Creek from Seventh Day Adventist Diversion to Headwaters
Insufficient data?

Arne then presented 6 years of E Coli data. The data indicates improvement in a couple of stream sites, particularly the site on Mill Creek at Mill Creek Drive which is above Rotary Park and the Youth Garden Project. The data also indicates that two sites on Pack Creek, one at Spanish Trail Road and the other at Pack Creek Campground are trending towards higher concentrations of E Coli. Arne also noted that there has never been an exceedance of any E Coli standard on Mill Creek above the BLM boundary or at Ken's Lake.

Arne then presented the Specific Conductance/Total Dissolved Solids (TDS) data. The UDWQ monitoring section collected this year's data as part of their 6 year rotating intensive monitoring efforts where they monitor the SE portion of Utah monthly for a year. Most of the data wasn't significantly different from previous years. UDWQ did collect two samples which exceeded the TDS standard at two sites on Pack Creek. Arne explained that two exceedances is enough to continue "listing" Pack Creek for not meeting its criteria. Arne is disappointed as previous year's data indicated Pack Creek might not exceed TDS standards.

Arne said the selenium levels have dropped in Pack Creek and that there won't be any exceedances for that parameter. Arne mentioned that there weren't any exceedances for dissolved oxygen last year and therefore, the "listing" for that parameter should be dropped also.

The next portion of the presentation on temperature data from the continuous monitoring performed at 6 locations did not go well because the PowerPoint presentation "froze" and he was forced to abandon it. He noted that all of the streams exceed the cold water fishery temperature standard of 20 degrees centigrade (C) more than 10% of the time. Some streams also exceed the warm water fishery temperature standards of 27 degrees C. Arne suggested again this year that a study be funded to ascertain Mill and Pack Creeks ability to meet the cold water fishery standard and perhaps request a change of use designation to a warm water fishery for Pack below the USFS Boundary and Mill Creek below the BLM Boundary.

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	<p>Arne was unable to present continuous flow data due to the PowerPoint failure and lack of time.</p> <p>Attendees requested the report be published again this year on the MAWP website. It was indicated that finding documents like this or project reports is not easy on our website and we could consider re-organizing it.</p>	
<p>Other Business Vision Committee update.</p> <p>Manti-La Sal National Forest Management Plan Revision Schedule</p> <p>Future meetings for the development of a Spanish Valley Groundwater Management Plan and other groundwater matters.</p>	<p>Kara informed the attendees that at the last meeting the Vision Committee reviewed and suggested “zones” of expected experiences in Mill Creek Canyon above the BLM Boundary. The zones and management prescriptions for them will be discussed at the next is meeting in early December.</p> <p>Tina informed the attendees that our long time District Ranger in Moab, Mike Diem, has retired. Attendees discussed their appreciation of his efforts over the years. There was some discussion on the new Management Plan’s special designation for the Mill/Pack Creek and Castle Creek watersheds. The attendees are supportive of the designation. Tina informed the group that a draft Environmental Impact Statement for the management plan will probably be released in January.</p> <p>The next meeting on groundwater is scheduled for today, directly after this meeting.</p>	
Adjourn	The next meeting will be at 1:00 January 15, 2020 at the Grand Center. It will focus on project planning and groundwater monitoring.	Adjournment