

LOW IMPACT DEVELOPMENT

KESSLER MOUNTAIN REGIONAL PARK

FAYETTEVILLE, AR



www.beaverwatershedalliance.org

Low Impact Development, or “LID” for short, uses vegetation, soils, and natural processes to manage rain water where it falls and can help reduce nonpoint source pollution to improve water quality. Non-point sources of pollutants can include sediment (the biggest threat to water quality in Beaver Lake), excess nutrients such as phosphorus and nitrogen, oil, grease, and heavy metals. Slowing down rain runoff before it reaches a waterway not only captures non-point source pollution, but also prevents flooding, cools the water down, helps recharge groundwater supplies and naturally filtrates the water. Using LID in our landscape can also help keep our local drinking water supplies clean and resilient.



Permeable pavers in parking lot area



Details of permeable materials

Thanks to a generous grant through the Arkansas Department of Agriculture- Natural Resources Division, the Alliance worked with the City of Fayetteville to install Low Impact Development features in the new parking lot located in at Kessler Mountain Regional Park, Fayetteville, AR. Crafton Tull provided designs for the features and the project was installed in Spring 2021 by Crossland Construction. Educational signage is also installed to provide public education on the benefits of treating rain water with low impact development features.

Thank you to all the partners for helping to improve the Beaver Lake watershed.

IMPROVEMENTS AT KESSLER MOUNTAIN REGIONAL PARK:

Providing **1330** cubic feet of stormwater storage under the permeable pavers

Captures the first **3/4** inch of rainfall runoff from the new parking lot. This is 3x the volume of a traditional sediment forebay required by the Fayetteville Drainage Manual.

Providing a **1,091** cubic foot bio-retention cell that will collect stormwater runoff from the existing parking lot and treat the first 1.25 inches of rainfall runoff off the existing parking lot.



Beaver Watershed Alliance is formed of a diverse stakeholder group representing agricultural, recreation, conservation, water utility, business, and private landowner perspectives who all work together for the benefit of Beaver Lake and its watershed.

To learn more about the Alliance, best management practices for water quality, or how you can become involved in voluntary watershed protection go to www.beaverwatershedalliance.org or contact us by calling 479-750-8007 or emailing info@beaverwatershedalliance.org.

