

/09
2021/

IMPLEMENTATION

FORT TUTHILL COUNTY PARK SUSTAINABLE WATER MANAGEMENT PLAN

COCONINO COUNTY
PARKS & RECREATION

PROJECT UPDATE

September 2021

PRESENTED TO

Fort Tuthill County Park Water Advisory
Committee

IMPLEMENTATION

Fort Tuthill County Park Sustainable Water Management Plan

COCONINO COUNTY

Coconino County is committed to excellence in serving the community, including being responsive, efficient, and innovative water stewards. With the approval of snowmaking at Fort Tuthill County Park, Coconino County created a Green Fund that would be used for projects that have a sustainable value and benefit other partners and the public.

WATER ADVISORY COMMITTEE

The Fort Tuthill County Park Water Advisory Committee provides County staff with direction and feedback on the development of a comprehensive Sustainable Water Management Plan for Fort Tuthill County Park that consists of strategies, resources, and costs for the reduction of potable water consumption at the park. The committee is comprised of stakeholders and local expertise in the matter of water resources.

PROJECT TIMELINE

10/2018



BOARD OF SUPERVISORS APPROVES SNOWMAKING AT FLAGSTAFF SNOW PARK

10/2018



GREEN FUND BEGINS

8/2019



WATER ADVISORY COMMITTEE FORMS

12/2020



BOARD OF SUPERVISORS APPROVES SUSTAINABLE WATER MANAGEMENT PLAN

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THE PLAN

The Fort Tuthill County Park Sustainable Water Management Plan was developed through a collaborative effort by internal leadership and the community. The Plan provides a model and foundational tool for strategic water planning and coordination throughout Coconino County. Read the plan at [Coconino.AZ.Gov/Parks/Sustainability](https://www.coconino.gov/Parks/Sustainability).



IMPLEMENTATION

Fort Tuthill County Park Sustainable Water Management Plan

PROJECTS COMPLETED

LEAK DETECTION

Coconino County Parks & Recreation (CCPR) conducted a water leak detection in Summer 2020. The company identified a potential leak at the line from the West Latrine Building to the Quad. We recommend an additional leak test after the water line from the West Latrine Building is fixed.

AMP IRRIGATION

The Amphitheater lawn was initially installed with a zoned irrigation system; only one zone needs additional irrigation heads due to the area drying out. In 2017, CCPR staff placed turf around the tree since that area dries out more. In 2019, CCPR staff installed rain sensors to turn off irrigation if it is raining. In Fall 2019, CCPR staff began topdressing the Amphitheater lawn to build up the soil base and decrease irrigation needs; this will be an on-going maintenance task. Due to the difficulty of efficiently watering the sloped area of the Amphitheater lawn, the slope should be changed or eliminated which could also increase seating capacity.

CAPITAL IMPROVEMENT PLAN BUDGET

CCPR developed a 10-Year Capital Improvement Plan (CIP) to forecast budgeting needs in support of ongoing infrastructure and water systems maintenance at Fort Tuthill County Park. If funded, the Quad infrastructure Project could address any additional water leaks.

STORMWATER

Fort Tuthill County Park currently has a stormwater collection system from the paved surfaces in the Quad and the parking lot north of the Quad that is aligned with County code. This allows water to be detained on-site to reduce downstream impacts, provides opportunity for infiltration and improves water quality to receiving waterways.

WATERLINE SUBMETERS

One goal of the Water Management Plan is to transition CCPR's partners towards paying for their own utilities and to be more water conscientious; partners include Flagstaff Extreme Adventure Course, Campground contractor Recreation Resource Management, North Pole Experience, and event producers at the Grandstands and Stables. CCPR has started this project and installed three water submeters and two electric submeters at Flagstaff Snow Park in the 2018/19 season.



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Fort Tuthill County Park Sustainable Water Management Plan

PROJECTS COMPLETED (CONT.)

RAMADA WATER USE

CCPR staff is assessing how to limit excessive water use at public ramadas. During summer 2020, the department temporarily closed the yard hydrants for water conservation measures. Fort Tuthill County Park continues to have one seasonal drinking fountain and two water bottle refill stations available for park users.

HOSE BIBS & IRRIGATION LINES

Every year, CCPR staff tests hose bibs and irrigation lines for any leaks when the water is turned on and shut off. There are approximately 100 hose bibs on the park. If leaks are detected or the device fails, staff replaces it.

PRIORITY PROJECTS

QUAD WATER & SEWER UTILITIES

Updating the aged water and sewer utilities around the Fort Tuthill Quad is a priority. CCPR is proposing the Quad Infrastructure Project as one of the American Rescue Plan Act projects to receive County funding. With an engineering plan nearly complete, this project is almost shovel ready.

YARD HYDRANT INVENTORY

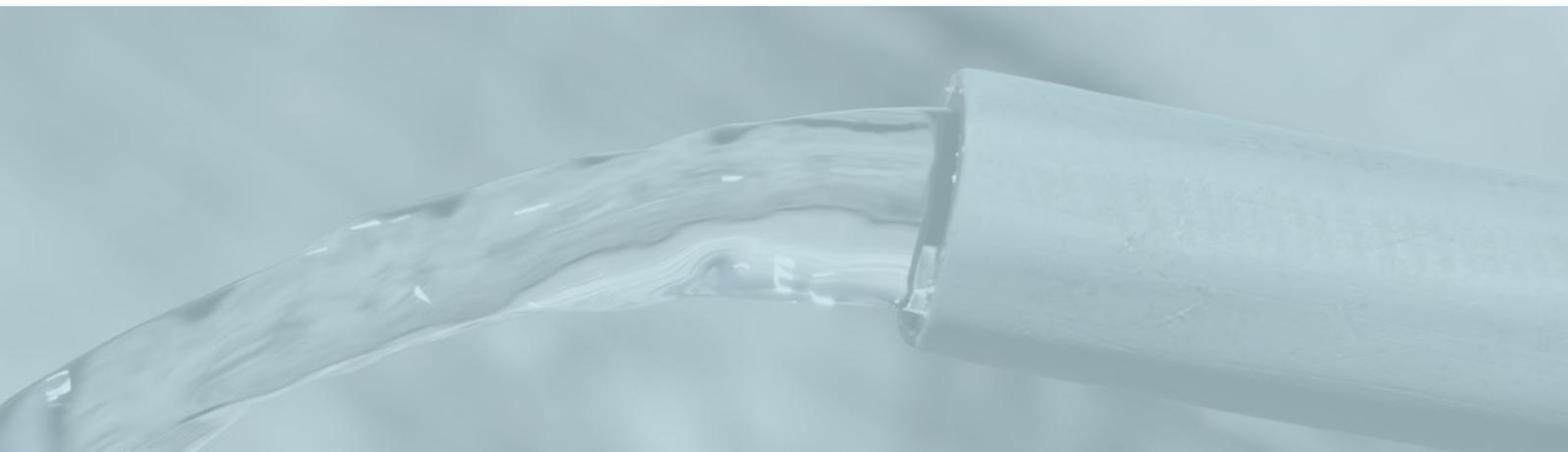
Undertake an inventory of yard hydrants at Fort Tuthill County Park and incorporate best management practices in annual maintenance.

WATER CHECKUP

With the City of Flagstaff, conduct an assessment or water checkup at Fort Tuthill County Park that entails assessing flow rates of faucets and fixtures, making recommendations for repair or replacement, and offering rebates as appropriate.

WEST LATRINE LEAK REPAIR

Repair water line from the West Latrine Building to the Quad. This potential leak was identified during the Summer 2020 water leak detection.



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PENDING



2ND LEAK TEST

We recommend an additional leak test after the water line from the West Latrine building is fixed. Should CCPR receive funding to replace the water and sewer utilities around the Quad, this project would not be needed since this line would be replaced.



WATERLINE SUBMETERS

Install submeters at remaining and new public-private partners at Fort Tuthill County Park. As partner contracts are renewed or created, this is an opportunity for the County to recover costs and encourage water conservation.

IDEAS



WILDLIFE DRINKER

Re-purpose the donated water tank from Lowell Observatory and adapt it as a wildlife drinker for year-round water access. Staff would utilize leftover project materials to create a system and locate it near the Archery Range that borders USFS land; the drinker would be visible from the trail but far enough away for animals to access.



RAINWATER HARVESTING

Build a small rainwater harvest demonstration garden that collects rainwater off the roof on the Administration Building. Additional proposals by the Committee include rainwater collection off of the Quad buildings, water tower, and Amphitheater.



COUNTY PLAN

As a leader in the community, the County could adopt a dedicated water conservation plan with action items that vary by departments. For the general public, the *Coconino County Comprehensive Plan* provides County values concerning water conservation, and the Stormwater Quality And Runoff Control Ordinance applies to the whole County regarding stormwater quality.

