AGENDA
CARBONDALE BOARD OF TRUSTEES
VIRTUAL SPECIAL MEETING
VIA ZOOM
MAY 18, 2021
6:00 P.M.

Hi there,

You are invited to a Zoom webinar.
When: May 18, 2021 05:30 PM Mountain Time (US and Canada)
Topic: Carbondale Board of Trustees 5-18-2021 Work Session

Please click the link below to join the webinar:
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TIME*		ITEM	DESIRED OUTCOME
6:00	1.	Incident Command Training	Discussion
7:00	2.	Continuation of Community Policing Discussion	Discussion
8:00	3.	Public Works Capital Projects Associated with Climate Resiliency	ATTACHMENT A Discussion
8:30	4.	Discussion on Rescinding Mask Ordinance – Consideration of Emergency Ordinance	BOT Action Desired
9:00	5.	Adjourn	

*** Please Note Times Are Approximate**

TOWN OF CARBONDALE

PUBLIC WORKS
511 Colorado Avenue
Carbondale, CO 81623

Board of Trustee Memorandum

Meeting Date: May 18, 2021

TITLE: Public Works Capital Projects Associated with Climate Resiliency

SUBMITTING DEPARTMENT: Public Works

BACKGROUND

As the climate changes, adaptations are necessary to ensure that the Town can continue to provide high levels of service to its residents and businesses in the water, sewer and storm water management areas. This memo will outline projects that are being contemplated to address the impacts of a changing climate in these areas.

DISCUSSION

Water Projects

Many experts predict that the general trend for the climate in our area will be for later starts and earlier ends to snow season. One of the challenges that this may create over time is less reliable flows in Nettle Creek. While the Town places a high value on the water produced from this source, it is necessary to look at alternatives to this source in the future. To that end, we are currently working on development of a 4th well in the Roaring Fork wellfield. Because this wellfield is located along the Roaring Fork River, the access to a larger overall watershed as well as direct access to water releases from Ruedi Reservoir make this a good alternative to compensate for potential decreases in production at Nettle Creek.

In addition to the 4th well in the Roaring Fork wellfield, recent improvements at the Roaring Fork Treatment plant increased the capacity of that plant by approximately 500,000 gallons per day with the potential to increase the capacity by an additional 500,000 gallons per day should additional filters be installed. Adding this additional capacity in the near future would further increase our resiliency in our potable water supply.

Installation of the Nettle Creek pump back system will also increase our resiliency in the future. Increased capacity in the Roaring Fork wellfield and treatment plant, combined with the Nettle Creek pump back system, will allow us to provide water for existing customers on the Nettle Creek line as well as fire protection in the event that Nettle Creek cannot supply the needed water (i.e., river calls, lack of supply, etc.)

Ditch Projects
Precipitation trends have been changing for several years. While the amount of overall precipitation tends to stay relatively constant, precipitation events (particularly rain events) are tending to be less frequent, but more intense. In an effort to maximize the efficiency of the Town's ditch system in light of pressures from climate change (i.e., higher temperatures, lower snowpacks, less frequent rainfall events). It is important to continue efforts to line culverts and to line open ditch sections in areas where it is feasible and where it will not have a negative impact on adjacent vegetation.

Wastewater Projects
As our largest energy consuming enterprise, it is important to continually look at ways to reduce our energy demand at the wastewater treatment plant. One way to do this is to replace older system components with more energy efficient ones. For example, the blowers, which are used to aerate the sewage are fairly old. Replacing these blowers with more efficient blowers, or even a compressed air system with automated valves would reduce the overall energy demands at the plant. Although the wastewater treatment plant is currently in the Holy Cross Energy PURE program, we should continue to pursue other renewable energy sources as opportunities are identified.

Storm Water Projects
As mentioned, while precipitation amounts have been relatively stable, the type (snow or rain) and the intensity and frequency are changing. Less frequent, but more intense events, are challenging our stormwater infrastructure in several areas in town. While town staff can and have been installing drywells in problem areas as time allowed over the last few years, it would be worthwhile considering a project that identifies multiple areas that would benefit from improved storm water infrastructure and put together a project to have this work done in a single contract.

FISCAL ANALYSIS
N/A

RECOMMENDATION
This information is provided for the Board's information.

Prepared by: Kevin Schorzman