

Project Name	Drone Flight of Brown's Creek	Date	1/31/2024
To / Contact info	BCWD Board of Managers		
Cc / Contact info	Karen Kill, District Administrator		
From / Contact info	Chris Long; Mike Majeski		
Regarding	Routine Drone Flight of Brown's Creek Corridor		

Background

In 2016, the BCWD Board of Managers contemplated conducting a drone flight of the Brown's Creek corridor to evaluate flooding between the Gateway Trail and Manning Avenue. The goal was to use a UAS (unmanned aircraft system, also known as a drone) unit to fly the corridor to search for blockages along the creek. The drone flight allows the District to efficiently locate obstructions and other stream related issues along the stream channel in remote reaches and wetland areas that are difficult to traverse on foot, particularly the stream reach upstream of Highway 96 and the Brown's Creek gorge.

The BCWD Watershed Management Plan has included an implementation activity to conduct routine drone flights (every other year) of the Brown's Creek corridor to monitor beaver dams and other changes to the system. This knowledge will be used to better understand the hydraulic and hydrologic conditions of Brown's Creek and determine potential flooding or other resource concerns along the stream corridor.

Scope of Services

EOR will collect video along the Brown's Creek stream corridor utilizing a drone and will provide a summary report to the Board. The report will include results from the flight and a map of existing obstructions, beaver dams, and other blockages that the District may want to monitor or manage during 2024. The drone flight will be conducted by Chris Long, a certified drone pilot out of our St. Paul office, and a trained drone spotter. It is anticipated the drone flight would be conducted in April 2024 before leaf-out.

Task	Estimated Hours	Estimated Cost
Flight Prep and Complete Brown's Creek Drone Flight (2 staff)	17	\$2,675*
Video Processing and Data Analysis	8	\$1,300
Prepare Memo and Flight Data Package and Present to the Board	5	\$ 725
Totals	30	\$4,700
*includes expenses & drone rental		

Requested Action

1. Approve this scope of services in the amount of \$4,700 from account number 959-0001.