SOLDIER CANYON WATER TREATMENTAUTHORITY

To: Soldier Canyon Water Treatment Authority Board
From: Mark Kempton, P.E., CWP
Date: July 11, 2024
Re: Summary of Per- and Polyfluoroalkyl Substances (PFAS) testing results for Soldier Canyon Water Treatment Authority's (SCWTA) raw and treated water supplies.

PFAS are a group of manufactured chemicals that have been used in industry and consumer products since the 1940s because of their useful properties. There are thousands of different PFAS, some of which have been more widely used and studied than others. One common characteristic of concern of PFAS is that many break down very slowly and can build up in people, animals, and the environment over time. Current scientific research suggests that exposure to certain PFAS may lead to adverse health outcomes in humans such as: Cancer effects, Weight effects, Immune System effects, Developmental effects, and Reproductive System effects. More information about PFAS can be found on the Environmental Protection Agency's (EPA) website.

To understand what levels of PFAS that may or may not exist within Soldier Canyon Water Treatment Authority's raw water and finished treated water, the Authority performed PFAS testing in Summer 2023 and again in Summer 2024. The results of these tests are shown below as well as their relation to adopted Environmental Protection Agency (EPA) regulatory limits.

POLYFLUOROALKYL	Results*	Results*	Results*	Results*	Maximum
SUBSTANCES (PFAS)	July 2023-	June 2024-	June 2024-	June 2024- Entry	Contaminant Level*
	Entry Point	Poudre	Horsetooth	Point Distribution	(MCL) or Hazard
	Distribution	Raw	Raw		Index (HI)**
PFOA-Perfluorooctanoic	ND	ND	ND	ND	4.0 ppt
PFOS-	ND	ND	ND	ND	4.0 ppt
Perfluorooctanesulfonic					
acid					
PFHxS-	ND	ND	ND	ND	10 ppt/HI
Perfluorohexanesulfonic					
acid					
PFNA-Perfluorononanoic	ND	ND	0.16	ND	10 ppt/HI
acid					
HFPO-DA-(GenX	ND	ND	ND	ND	10 ppt/HI
Chemicals)					
PFBS-	0.23	ND	0.36	0.00086	HI = 1.0
Perfluorobutanesulfonic					
acid					
HAZARD INDEX TOTAL	0.000115	0.0	0.01618	0.0000004	HI = 1.0

Table 1 – PFAS Sampling Results for SCWTA

* Units = Parts per Trillion (ppt)

** No Units

ND = Non-detect

The test results show that Soldier Canyons' raw water supplies and corresponding treated water PFAS levels are well below the EPA's regulatory maximum contaminant levels. To ensure that the Authority stays informed on PFAS levels in our source water, the regional <u>Upper Cache la Poudre</u> <u>Water Quality Monitoring Program</u> will start regularly monitoring for PFAS. The Authority will also coordinate closely with Northern Water to monitor Horsetooth Reservoir regularly for PFAS.

Other local entities such as the Cities of Greely, Thornton, and Fort Collins have also tested both Horsetooth Reservoir and Poudre River water supplies and found similar results for PFAS. Soldier Canyon's finished water PFAS results have also been replicated in independent testing by Fort Collins/Loveland Water District and ELCO Water district.