

HGL Response Form – NO HAR Needed

Date Request Received:	9/27/2022	Date Request Provided:	10/3/2022
Project Name:	Bradley Heights Filing 5		
Project Location:	On Bliss Road, South of Filing 1 and 2		
Project No:	AR PUD 22-00401	Required FF (GPM):	NA
Project Contact:	Ken Huhn	Company:	HR Green Development
Phone:	720-602-4965	Email:	khuhn@hrgreen.com
Developer:	Challenger Homes		

Is Hydraulic Analysis Report (HAR) Required? YES NO

A HAR was completed for the entirety of Bradley Heights in August 2022. This HGL Request is comprised of and consistent with the original HAR.

Is a Water Quality Plan Required?

A water quality plan is required only if the development will result in a permanent or temporary dead-end water main. Larger (16" and greater) or longer dead-end mains are specifically required to have flushing devices (Water LESS 2.6.E.3) to meet the water quality requirements. If no temporary or permanent dead-end main is proposed, then a water quality plan is NOT required.

If the utility or development plan proposes either a temporary or permanent dead-end water main, a water quality requirement(s) will be evaluated when the utility or development plan is submitted. Varying factors will be evaluated in determining if a water quality requirement is necessary, including service line placement, water main looping, construction phasing and the length of the dead-end water main in determining if a water quality plan is needed with lot development.

Response Comments:

The fire hydrant and associated water mains that will serve this development have not yet been constructed. Actual available fire flow may change if there are changes to the approved water main construction. The results herein are based on pre-construction pipes and hydrants that will be finalized following approval of as-built construction drawings.

For new developments, a minimum of two connections are needed for looping, for redundancy and water quality purposes.

Please note that for pressures greater than 177 psi, DIP is required.

Colorado Springs Utilities will calculate available fire flow upon Construction Drawing submittal. Verify fire flow requirements w/ CSFD (Colorado Springs Fire Department) prior to construction drawing submittal, if construction drawings are required to be submitted. At the time the construction drawings are submitted to Utilities Development Services (UDS), please also submit a Utility Design CAD File (UDCF) through csu.org/Building & Development/Records & Mapping and include the UDCF Receipt number and required fire flow on any future Fire Flow Requests. If flange elevations are not included on the UDCF, provide those in a separate document (typically a pdf set of the construction drawings) along with the Fire Flow Request.

Developer/Engineer can model available fire flow prior to Construction Drawing submittal using the following HGL information. See HAR Modeling Requirements on requirements for fire flow modeling.

HGL Information	
Pressure Zone:	Southline
HGL at Max Day Demand (lowest system pressure) [ft]:	6009
HGL at Min Day Demand (maximum system pressure) [ft]:	6025
Max Day to Average Day (MD/AD) Peaking Factor:	2.00
Available Fire Flow at Existing Hydrant*	
Hydrant Number:	FH-M (Proposed Hydrant)
Flange Elevation [ft]:	5840
Theoretical Available Fire Flow (at 20 psi residual) [gpm]:	2500
Static Pressure at Max Day Demand [psi]:	73
Maximum Static Pressure at Bury Depth [psi]:	1788

**The Fire Flow information above is provided solely as a reference. An official Fire Flow report must be requested by the engineer and provided by Colorado Springs Utilities Water Planning prior to sign off on construction plans by Colorado Springs Utilities and Colorado Springs Fire Department.*

Colorado Springs Utilities
 Water Planning
waterplanning@csu.org

