REPORT



## City of Alachua Water System Hydraulic Modeling – Fire Flow

PREPARED FOR:City of AlachuaPREPARED BY:CH2MDATE:August 3, 2018

## Background

CH2M recently completed water distribution system modeling for the City of Alachua and is continuing water modeling services by evaluating identified fire flow scenarios as requested by the City, utilizing the City's distribution model.

## Purpose

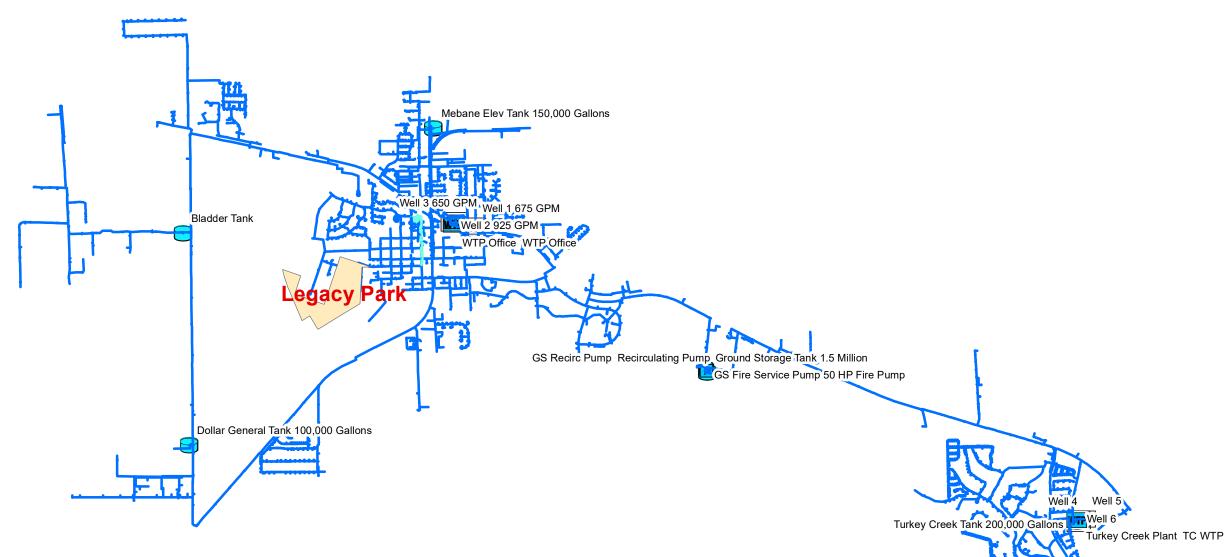
The purpose of this report is to indicate a PASS or FAIL result for the water distribution model scenario simulation requested for **Legacy Park, 15400 Peggy Rd, City of Alachua**. A copy of the submitted request form is included in Attachment 1.

## Fire Flow Assessment and Results

The result of the requested distribution model simulation is a <u>PASS</u> for the specified required fire flow of 1500 gpm. The details of the simulation are shown in the table below.

Scenario ID	Evaluated Location	Scenario Description	Model Junctio n ID	Detailed Raw Data (gpm)	Results (Pass/Fail)
4	Legacy Park 15400 Peggy Rd City of Alachua, FL	Model: Modified Base Model (added 12 & 8-inch pipes) Demand: Maximum Day Demand Pressure: 20 psig Testing time: 4:00 PM Required Fire Flow: 1500 gpm	J-6114	2116.7	PASS

Attachment 1 – Fire Flow Request Form



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