

# Fire Hydrant Flow Test Form

Required fields highlighted in blue.

Auto-populated Fields:

% Pressure Drop, Total Water Loss, Residual Flow, Fire Flow at 20PSI, and NFPA 291 Standard Color Code.

I. Project Information						
<b>Name:</b> V.K. Knowlton Construction & Utilities, Inc.				<b>Phone:</b> (210) 651-6860		
<b>Company Address:</b> 18225 FM 2282 San Antonio, TX 78266						
<b>Project Name:</b> THE LANDING - UNIT 1						
<b>NBU Work Order Numbers:</b>						

Point #	Grid Easting	Grid Northing	Elevation	Code	FH#	Test #: 8
11	13811665.5200	2273155.8790	664.173	F/H	8	

II. Flow Test Data						
Click <b>Reset Fields</b> to recalculate auto-populated fields.						
Test Hydrant	<b>NBU FH ID #:</b>		<b>Plan Sheet/Hydrant #:</b> Sheet C6.1 7		<b>Private:</b> No	
	<b>Location Description:</b> Kroesche Lane at Cargo Trails					
	<b>Size and Material of Main:</b> 8 inch main C-900 (200)					
	<b>Manufacturer:</b> CLOW			<b>OEM Year:</b> 2023		
	<b>Static PSI:</b> 94	<b>Residual PSI:</b> 53	<b>% Pressure Drop:</b> 43.62	<b>Date and Time:</b> 2/13/2025 10:00 am		
Flow Hydrant 1	<b>NBU FH ID #:</b>		<b>Plan Sheet/Hydrant #:</b> Sheet C6.1 8		<b>Diameter:</b> 2.5	
	<b>Size and Material of Main:</b> 8 inch main C-900 (200)					
	<b>Pitot PSI:</b> 32	<b>Observed Flow:</b> 949	<b>Minutes Flowed:</b> 2			
	<b>Total Water Loss:</b> 1898					
Flow Hydrant 2 (OPTIONAL)	<b>NBU FH ID #:</b>		<b>Plan Sheet/Hydrant #:</b> Sheet C6.1 8		<b>Diameter:</b> 2.5	
	<b>Size and Material of Main:</b> ~~FLOWING BOTH OUTLETS OF HYDRANT 1~~					
	<b>Pitot PSI:</b> 32	<b>Observed Flow:</b> 949	<b>Minutes Flowed:</b> 2			
	<b>Total Water Loss:</b> 1898					

III. Calculations (Auto-populated)	
<b>Residual Flow</b> $Q_r = 29.83 \times c_d \times D^2 \sqrt{P_p \times H_f}$	<b>Fire Flow at 20 PSI</b> $Q_f = Q_r \times ((P_s - 20) / (P_s - P_r))^{0.54}$
<b>Cd</b> = 0.9	<b>Qr</b> = 1898
<b>D</b> = 2.5	<b>Ps</b> = 94
<b>Pp</b> = 32	<b>Pr</b> = 53
<b>Hf</b> = 2	<b>Qf</b> = 2611
<b>Qr</b> = 1898	<b>NFPA 291 Standard Color Code :</b> 1500 GPM & Above = Light Blue

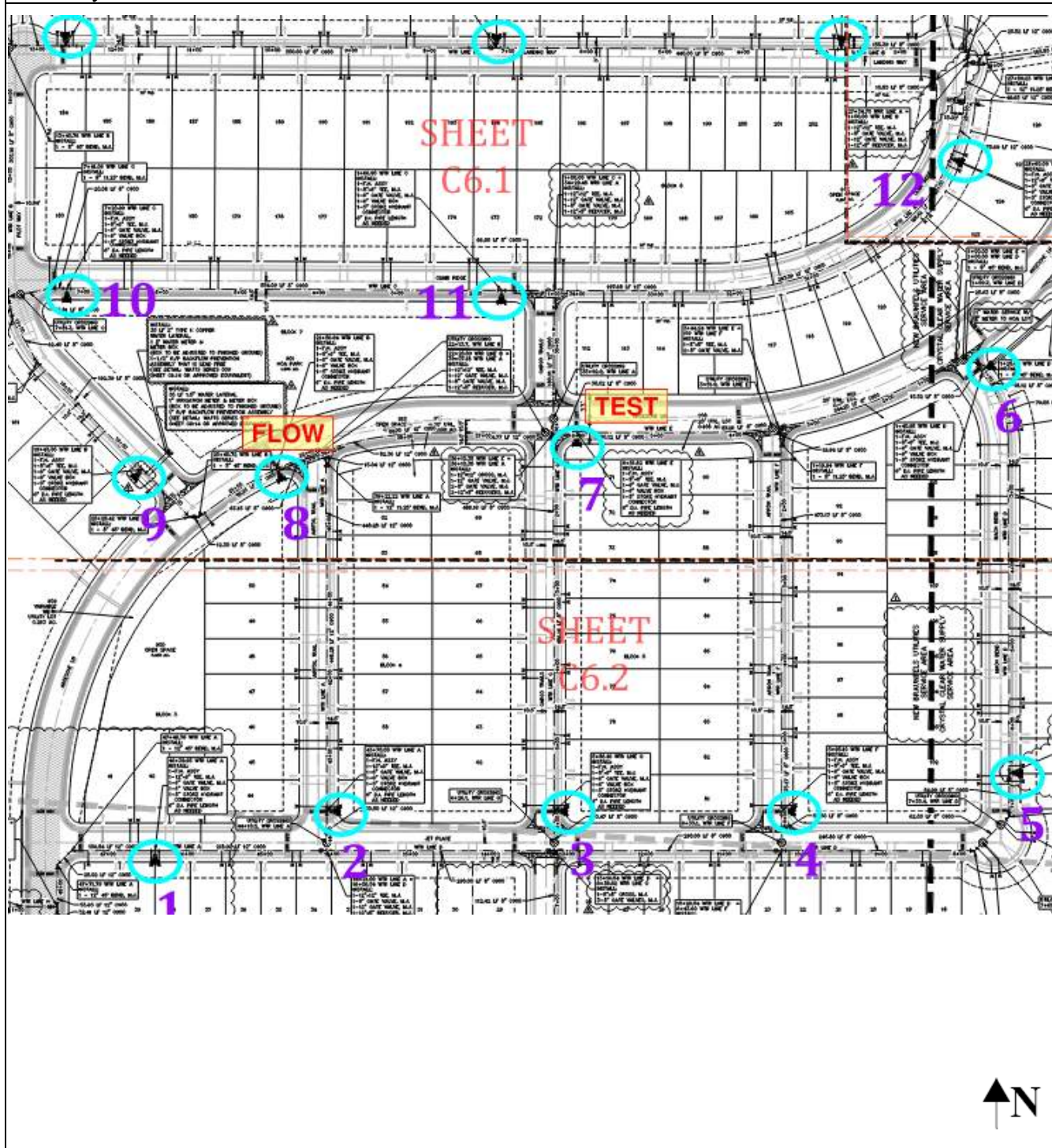
IV. Tester/Company Information	
<b>Flow Test Conducted by:</b> PROTECTION DEVELOPMENT, INCORPORATED	<b>Phone:</b> (210) 828-7533
<b>Business License #:</b> Texas Registered Engineering Firm (F-2816)	
<b>Company Address:</b> 8620 North New Braunfels Avenue, Suite 100, San Antonio, Texas 78217	
<b>Print Name:</b> Alex Akeroyd and Nicholas Balanciere	<b>Date:</b> 02/13/2025

V. NBFD Fire Hydrant Flow Requirements (To be completed by Fire Department)		
Print Name:	Title:	Accepted: <input type="checkbox"/>
Signature:	Date and Time:	

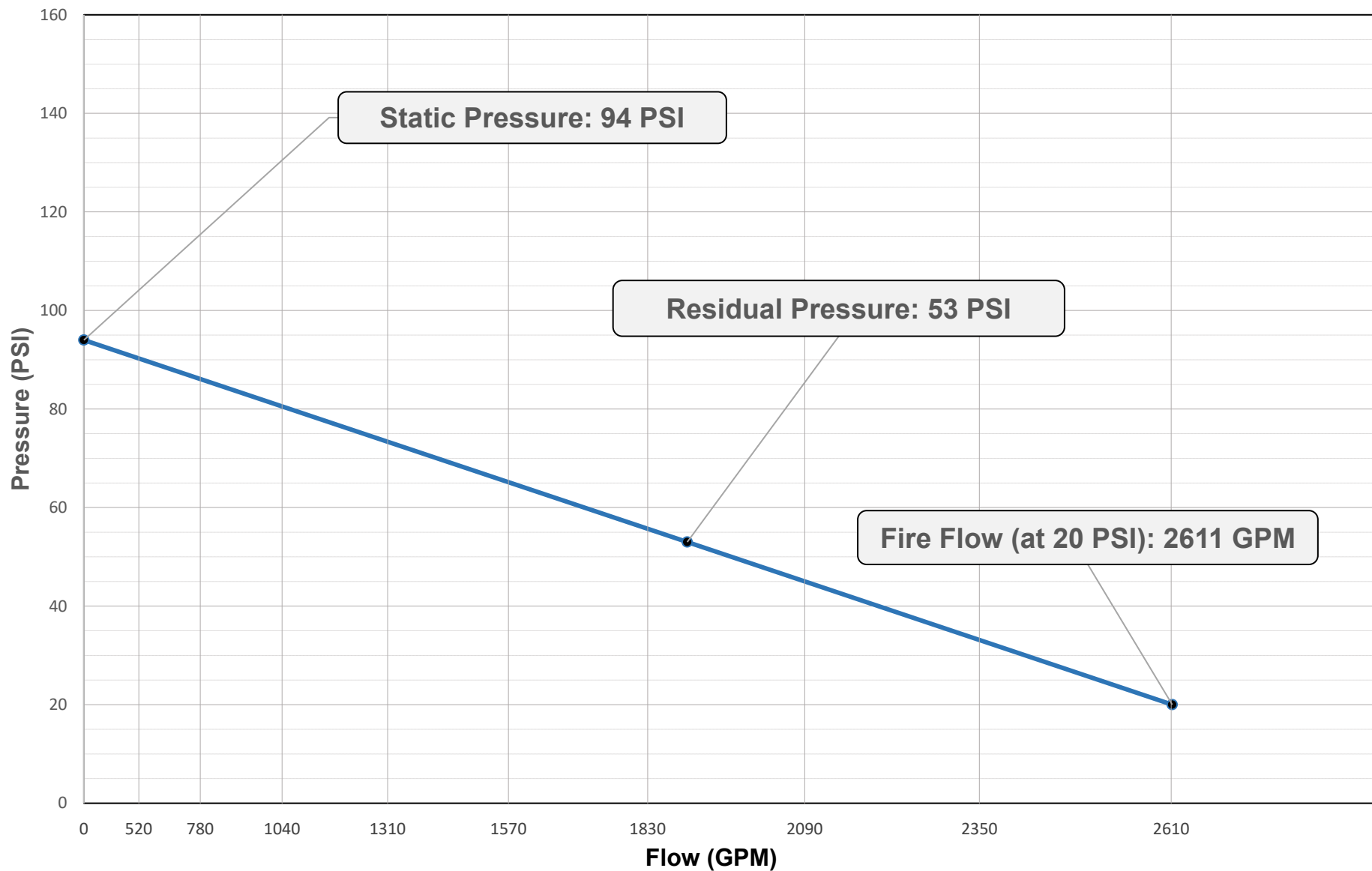
# Fire Hydrant Flow Test Form

## VI. Sketch (Attach any additional calculations and graphs made by testing company)

Label Hydrant Numbers and Street Names



Project Name:	The Landing Unit 1 - Test #8
Project Number:	25-0033
Test Date:	February 13, 2025
City:	New Braunfels



Static Pressure: 94 PSI	Residual Pressure: 53 PSI	Flow Test @ Residual Pressure: 1,898 GPM	Fire Flow (at 20 PSI): 2,611 GPM
-------------------------	---------------------------	--	----------------------------------