



### **CCWD Overview**





13,200+ Water Connections



Connections





Wastewater **Treatment Facilities** 



Hydropower Projects



Training for Fire Department Staff is key

Annual Budget for Hydrant Inspection: \$56,625
Lack of fire hydrant operation training can wreak havoc on the system

- Can stir up settled iron and manganese
- Can create an un-manageable amount of water quality complaints
- Can drop homeowners' pressure critically low
  - Water system violations
  - Opportunity for back siphonage
  - Bacteriologic violations



## Fire Hydrant Inspections



CCWD Pays the Fire Depts \$25 to inspect District Hydrants

This is a great way for fire fighters to become familiar with the water system.

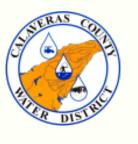
Calaveras Consolidated



Fire Department
Fire Hydrants

Hydrants are i • Operation—				14	Calaveras Co		re													
• Operation				14	15	,		inspected for — Calaveras Consolidated Fire												
•	nacion	11151				16	17	18	19	20	21									
•			10741 M ton	10341 Milton	10241 Milton	9971 Milton	9898 Milton		11087 Main St.	11763 Main St.	9103 Main St.									
	Body Type	ADV	ADV	ADV	ADV	ADV	ADV	Kennedy	Aniston	Aniston	Aniston									
	of acce	100	3	3	3	3	3	3	2	2	2									
Lase	Ul <sub>utl</sub> alut	ZXZ 1/2 4"	2x2 1/2" 4"	2x2 1/2" 4"	2x2 1/2" 4"	2x2 1/2" 4"	2x2 1/2" 4"	2x2 1/2" 4"	2x2 1/2"	2x2 1/2"	2x2 1/2'									
	Сар	Χ	Χ	X	Х	X	Х	X	Х	Х	Х									
Doody	Thread	X	Х	X	Х	X	X	X	Х	X	X									
<ul> <li>Roadwa</li> </ul>	<b>Welle</b>		S X	X	X	X	X	X	X	X	X									
11000111	VVasilei	X	Х	X	Х	X	X	X	X	X	X									
	Threads	X	X	X	X	X	X	X		X	X									
<ul><li>Burns on</li></ul>	Greased	rásc	C X	X	X	X	X	X	X	X	X									
	LOU LI	II Çal	<b>J</b> 5	X	X	X	X	X	X	X	X									
	Blue Dot	X	X	X	X	X		X	X	X	X									
		X	X	X	X	X	X	X	X	X	X									
• Stems	S area Clear LU	pea	100	105	105	105	105	100	100		100									
	Paint	Х	Х	Х	x	x	x	х	x	x	x									
Static pres	ssure is	5.0L±00	ged	38.05.41N 120.53.41W	38.05.5 <b>1N</b> 120.53. <b>57W</b>	38.05.49N 120.54.13W	38.05.47N 120.59.29W	38.05.48N 120.52.26W	38.05.45N 120.52.18W	38.05.41N 120.52.12W	35.05.38N 120.52.09W									
Discolored wa				<b>jht)</b>			1- 2 1/2 Stuck													

## Annual Fire Hydrant Inspections are provided to the District



Difficult to operate and broken hydrants are identified



**CCWD** staff then work to correct the issue



# Annual Fire Hydrant Inspections are provided to the District



The lack of guard valves on Fire hydrants is a huge District issue



**CCWD** staff then work to correct the issue



## District staff continually work to improve the hydrants

in our systems

Distribution Crews are always working to optimize our Systems



That work includes guard valve installation and hydrant repair



## District staff continually work to improve the hydrants

in our systems

**Distribution Crews are always working to optimize our Systems** 

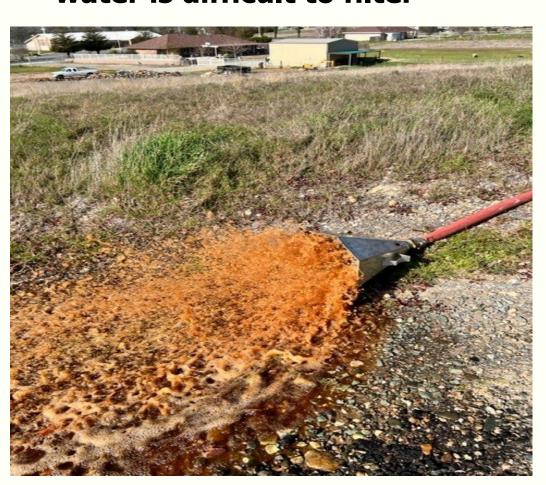


The integrity of our systems is important to all of us at CCWD



# Effective operation helps to reduce water quality issues

Naturally occurring iron and manganese in the source water is difficult to filter



High-velocity flushing during fire hydrant inspections diminishes our customers confidence in our water systems



# Effective operation helps to reduce water quality issues

District staff routinely flush our systems to minimize water quality issues for all conditions



That way, the system is best prepared to provide clean, wholesome water at all times. Even during high velocity periods like fires



#### Insurance Services Office

THE DISTRICT

- An ISO Score
   is also called
   a Public
   Protection
   Classification
   (PPC)
- An ISO
   assessment
   occurs every
   4 to 5 years

A fire department's ISO rating is a determination by the Insurance Services
Office by how well your department is able to serve the community. You're
assigned a score between 1 and 10, with lower numbers indicating a better
score. High ISO scores can increase home insurance rates in the community.

In this informative guide, we'll tell you everything you need to know about your fire department's ISO score, including the criteria you're scored on, how to make sense of your score, what the ramifications of a



high score are, and if you can do anything to better your ISO rating.



#### Insurance Services Office (ISO) and Fire Protection

#### Public Protection Classification (PPC<sub>©</sub>) Summary Report

**Ebbetts Pass FD** 

California (N)

Prepared by

Insurance Services Office, Inc. 1000 Bishops Gate Blvd., Ste. 300 P.O. Box 5404 Mt. Laurel, New Jersey 08054-5404 1-800-444-4554

Report Created December 2022 Effective April 1, 2023

PPC is a registered trademark of Insurance Services Office, Inc

#### ISO rankings have a direct impact on Insurance Rates

#### The Water System Accounts for 40% of the ISO Score

- System supply accounts for 30 credits
- Fire hydrants account for 3 credits
- Inspection and flow testing account for 7 credits

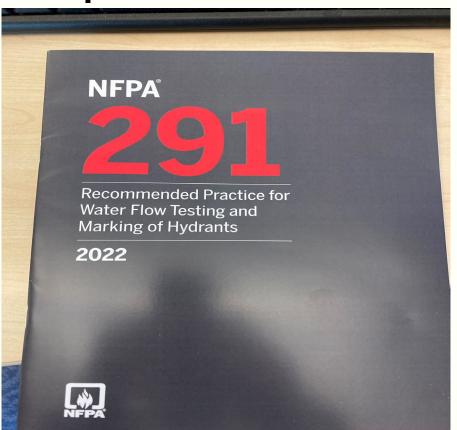
### CCVD works closely with the Departments to ensure optimal scores

#### Other factors that contribute to the ISO Score

- 50% of the score is the quality of the Fire Department.
- 10% is the quality of the Emergency Communications Systems
- A bonus for 5.5% comes from community outreach including fire prevention and safety courses

# District Assistance Helps improve ISO Ratings

 Both Capital Projects and Operational efforts help to improve ISO Scores



Field Crews often assist in fire flow testing for Departments to improve ISO scores

#### INSURANCE SERVICES OFFICE, INC. HYDRANT FLOW DATA SUMMARY

Community	Ebbetts Pass	Fd			_									
County	California (?	N)(Calaveras),	State	California (N) (04)	w	itnessed by:	Insurance Se	rvices Offic	e		Survey Date:	July 12, 2022		
				FLOW - GPM				PRESSURE FL		FLOW	-AT 20 PSI			
	l 1			$Q=(29.83(C(d^{\delta})p^{0.3}))$				PSI						
TEST	TYPE	TEST LOCATION SERVICE		INDIVIDUAL			TOTAL	STATIC RE	RESID.	NEEDED	AVAIL.	REMARKS***	MODEL TYPE	FLOW TEST DATE
NO.	DIST.*			HYDRANTS						**				
			Blue Lake Springs Mutual											
1		Cypress Point	WC, Main	2020	0	0	2020	132	120	3500	6700	(C)-(3182 gpm)	FTPC	07/15/2022
			Calaveras County Water											
2		Blagen and Hwy 4	District, Sawmill	1500	0	0	1500	100	65	2500	2300	(B)-(1375 gpm)	FTPC	07/15/2022
			Calaveras County Water											
3		Manuel and Sequoia	District, Sawmill	1430	0	0	1430	90	60	1250	2300		FTPC	07/15/2022
			Calaveras County Water											
4		2050 Hwy 4	District, Sawmill	1430	0	0	1430	125	60	2250	1900	(B)-(1375 gpm)	FTPC	07/15/2022
			Calaveras County Water											
5		2445 Silver	District, Meadowmont	1500	0	0	1500	90	30	1500	1600		FTPC	07/15/2022
	l 1		Calaveras County Water						l					
6		1290 Pine	District, Meadowmont 13	1560	0	0	1560	75	40	1500	2000	(B)-(548 gpm)	FTPC	07/15/2022
			Calaveras County Water											
7		1743 Pine Cone	District, Pinebrook	2070	0	0	2070	120	95	1500	4400	(B)-(1393 gpm)	FTPC	07/15/2022
			Calaveras County Water											
8		Moran and Hwy 4	District, Avery	1500	0	0	1500	120	100	2250	3600		FTPC	07/15/2022
			Calaveras County Water											
9		Meadowview and Hwy 4	District, Sawmill	1150	0	0	1150	85	40	2000	1400	(B)-(1375 gpm)	FTPC	07/15/2022
	l 1		Calaveras County Water					222200						
10		4960 Commercial	District, Avery	2340	0	0	2340	170	90	3000	3300		FTPC	07/15/2022
	l 1		Calaveras County Water											
11		5121 Darby Russell	District, Forest Meadows	1750	0	0	1750	110	45	1000	2100		FTPC	07/15/2022
	l 1		Calaveras County Water		200			2000		0.0000000000	NAME OF THE OWNER.			100000000000000000000000000000000000000
12		1097 Dogwood	District, Forest Meadows	1750	0	0	1750	60	40	1250	2500		FTPC	07/15/2022
			Calaveras County Water											
13		3790 Apache	District, Big trees 60k	1500	0	0	1500	40	25	1500	1800	(B)-(912 gpm)	FTPC	07/15/2022
2222			Calaveras County Water		100			0.01	9790		1000000			10100110101010
14		Sioux and Chinook	District, Big Trees 1/3	2020	0	0	2020	55	18	1500	2000		FTPC	07/15/2022
									l					
			Calaveras County Water		- 20			1000						
15		Hwy 4 and Sugarpine	District, Forest Meadows	1690	0	0	1690	65	30	1500	1900		FTPC	07/15/2022
1						l			l					
			Calaveras County Water						0.00					
16		5441 Meko	District, Forest Meadows	1810	0	0	1810	60	30	1750	2100		FTPC	07/15/2022

THE ABOVE LISTED NEEDED FIRE FLOWS ARE FOR PROPERTY INSURANCE PREMIUM CALCULATIONS ONLY AND ARE NOT INTENDED TO PREDICT THE MAXIMUM AMOUNT OF WATER REQUIRED FOR A LARGE SCALE FIRE

\*Comm = Commercial; Res = Residential.

THE AVAILABLE FLOWS ONLY INDICATE THE CONDITIONS THAT EXISTED AT THE TIME AND AT THE LOCATION WHERE TESTS WERE WITNESSED.

<sup>&</sup>quot;Needed is the rate of flow for a specific duration for a full credit condition. Needed Fire Flows greater than 3,500 gpm are not considered in determining the classification of the city when using the Fire Flows greater than 3,500 gpm are not considered in determining the classification of the city when using the Fire Flows greater than 3,500 gpm are not considered in determining the classification of the city when using the Fire Flows greater than 3,500 gpm are not considered in determining the classification of the city when using the Fire Flows greater than 3,500 gpm are not considered in determining the classification of the city when using the Fire Flows greater than 3,500 gpm are not considered in determining the classification of the city when using the Fire Flows greater than 3,500 gpm are not considered in determining the classification of the city when using the Fire Flows greater than 3,500 gpm are not considered in determining the classification of the city when using the Fire Flows greater than 3,500 gpm are not considered in determining the classification of the city when using the Fire Flows greater than 3,500 gpm are not considered in determining the classification of the city when using the classification of the city when th



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