

CITY OF KAMLOOPS

Fire Hydrant Inspecting & Testing Standard

The following outlines the requirements for the inspection and flow testing of all fire hydrants, both public and private, within the City of Kamloops:

1. All fire hydrants are to be maintained and inspected in accordance with the requirements of the British Columbia Fire Code and City of Kamloops Fire Prevention By-Law 10-37.
2. Fire hydrants are to be inspected and flow tested annually between March 15th and May 15th with any necessary correction taken.
3. **Only results using Hose Monster Products will be accepted.** Hydrants with permanently mounted Monitors, and other KFR pre-approved methods are the only exceptions.
4. **Notify Public Works Central Maintenance, 250.828.3461 (day) or 250.372.1710 (nights and weekends), prior to any flow testing.**
5. Fire hydrants also require inspection after each Emergency use, followed by any necessary corrective action.
6. Each fire hydrant shall be opened fully and water flowed until all foreign material has cleared. The flow shall be maintained for not less than 1 minute.
7. All fire hydrant monitor nozzles shall be oscillated and moved throughout their full range annually to ensure proper operability.
8. After operation each hydrant shall be observed for proper drainage from the barrel. Full drainage shall take no longer than 60 minutes. Where soil conditions or other factors are such that the hydrant barrel does not drain within 60 minutes, or where the groundwater level is above that of the hydrant drain, the hydrant drain shall be plugged and the water in the barrel shall be pumped out.
9. Fire hydrants that have plugged drains shall be identified clearly as needing pumping after operation.

10. Fire hydrants shall be kept free of snow, ice, or other materials and protected against mechanical damage in a manner that ensures free access.
11. Each fire hydrant shall be painted in accordance with the attached paint schedule. Hydrants require painting if the condition of the paint is dirty, chipping, flaking, rusting, bare metal is showing or is not the same colour as detailed in the paint schedule.
12. The attached **Problem Codes** must be used to report any fire hydrant problems.
13. **Flow test results must include:**
 - Date of the flow test
 - City of Kamloops fire hydrant number
 - Static Pressure(kPa)
 - Residual Pressure(kPa)
 - Test Flow
 - Any problems found during the flow test(i.e. obstructed, paint, too low, etc)
 - Capacity at a residual pressure of 140 kpa (20 psi)
 - Name of the person or company conducting the flow test and their contact information.
 - Method of flow test
14. Any flow test results that indicate deterioration of available water flow and pressure shall be investigated to the complete satisfaction of Kamloops Fire Rescue Services to ensure that the required flow and pressure are available for fire protection.
15. **Results of each inspection and flow test are to be recorded on spreadsheets supplied by KFR annually** and forwarded to Kamloops Fire Rescue Services no later than May 30th of each year.

KAMLOOPS FIRE & RESCUE

PROBLEM HYDRANT CODES:

PROBLEM	CODE	PROBLEM	CODE
Obstructions, fences, shrubs, posts, 1 metre in all directions	1	Leaking or loose ports. Note some hydrants use "O" rings and do leak a little	8
Low hydrant, less than 457 mm (18") clearance between centre of port and the ground	2	Not draining properly, report immediately if there is a threat of freezing weather	9
Very dirty water which will not clean up following an attempt to flush	3	Port threads in poor condition	10
Large port facing wrong direction	4	Hidden by weeds, grass or fences	11
Needs painting or is wrong colour	5	Water damage or potential for water damage	12
Hard to open or close, more than usual stiffness	6	Port cap(s) hard to remove	13
Badly leaking spindle/bonnet	7	Other – attach written details	14

HYDRANT PAINT SCHEDULE:

Type of Hydrant	Barrel	Caps	Bonnet
Hydrants having a 100 mm (4") threaded pumper port	Yellow	Yellow	Reflective White
Hydrants having a 100 mm (4") "Storz" pumper port	Yellow	Yellow (with Black for the "Storz" cap)	Reflective White
Hydrants which do not have a 100 mm (4") pumper port	Red	Red	Reflective White

Paint Colour Requirements:

Yellow – Rust-Oleum Safety Yellow 3144 speedy dry

Red –Rust-Oleum Safety Red 964402 **Or** General Paint Weather It gloss 10-223

Reflective White –Rust-Oleum High Gloss White 245406 Top-coatedwith Rust-Oleum Specialty Reflective Finish 223280 or Industrial Choice Reflective Aerosol RLM223884

Black – Krylon Spray **OR** Dem-Kote Flat Black Fast Dry

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