VILLAGE OF MIDWAY

POLICY AND PROCEDURE MANUAL

RISK MANAGEMENT "WATER SYSTEM PREVENTATIVE MAINTENANCE PROCEDURES"

POLICY NO. 320

Minimum requirement - Class 1 Certification in Water Distribution and willing to obtain Level 11 as required.

- Policy Statement It is the policy of Council to recognize the necessity of an orderly preventive maintenance program and a written record of these procedures be maintained.
- Policy Background This new \$2,060,000.00 system installed and operational in 1995, complete with a reservoir, 2 pump stations Jesalin (lead duty in summer), Dawson (lead duty in winter) and 56 fire hydrants. (A third pump station 12th. Ave. was built in 1993 at a cost of \$24,360.00, presently has only a 3 HP Pump and is not in use, however, power is still connected to prevent freezing) Note: System

The following is a list of preventive maintenance procedures recommended for the new water system. Checks and tests should be done in accordance with Manufacturer's Operations & Maintenance Manual.

1. Storage Reservoir: Note: RESERVOIR UNDER STRENGTH CONCRETE

"The first 5 year interior inspection is to be completed by our Engineers prior to December 8, 2000." The \$129,817.75 maintenance bond expires on December 8, 2000. Full details pertaining to this "Under Strength Concrete" problems and maintenance bond, see: "Reservoir Problem File" in Fire Proof Cabinet"

fully completed in November 96.

Monthly: Visual Inspection of site, ensure access hatch is secure.

Annually: Operate isolation valves.

5 Yearly: Drain reservoir - visual interior inspection for any defects.

Pressure clean reservoir and disinfect.

Pump Stations: (Jesalin and Dawson) - Sample log book 2. attached pages 4 & 5.

Visit pump stations and record all meter Daily

readings.

Detailed Inspection of Buildings and Annually

Appurtenances. Maintenance where necessary. Test Automatic Dialler, automatic control valves and flow meters. (page 6 inspection report)

Check and Test operation of automatic 5 Yearly

> control valves, flow meters and service as required. Test pump performance. (These operations can be done by same Contractor who does reservoir cleaning

and inspections)

* Set Jesalin pump on lead duty in summer. Note:

* Set Dawson pump on lead duty in winter.

* Anyone entering the pump station must sign the log book and detail any work or adjustments made on the system.

Reticulation System 3.

Hydrants: Page 7 Inspection Report

Annually: Inspect each fire hydrant.

Note condition of operating nuts, caps, flanges, chains and general appearance of hydrant and surroundings - remedy any faults that are evident.

Operate hydrant, open fully with cap on and note following:

* insufficient number of turns to open

* hard binding operation in closing or operating

* leakage at nozzles or ground-line flange. Remove caps and flush hydrant for a short duration.

Close hydrant and record pressure reading.

Repaint hydrants where necessary.

Ensure hydrants free of weeds and other

obstructions.

Update Hydrant Maintenance Record Manual.

5 Yearly: In addition to annual maintenance, each hydrant should be dismantled and serviced in accordance with Manufacture's Specifications.

b) Valves: Pages 8 & 9 Inspection Reports

Annually: Inspect each valve location.

Operate each valve and note ease of operation.

Clear riser pipe of rocks and debris if necessary.

Clear surroundings of weeds, etc..

ENSURE ALL VALVES IN FULLY OPEN POSITION.

Note: On a regular basis and particularly after work is executed on the pipe network, air should be bled off from the hydrants at the high points of the system.

c) Flushing Main Lines:

Full system to be flushed Semi-Annually (Spring and Fall)

*Important - Dead end lines must be opened and flushed out at least every three months.

d) Bridge Crossing:

Inspect bridge crossing pipe on a regular basis for signs of damage and/or vandalism.

Annually in Fall - inspect bridge pipe cladding and test heat trace for operation.

Operate drain valves.

During periods of extremely cold weather, daily visual inspection to ensure heat trace is operating is recommended. (page 6 attached)

e) Also refer to Public Works Policy No. 200, Section 4, "Water System Pumphouses, Reservoir"

Adopted by Council November 4, 1996

Reviewed and adopted as amended to reflect Policy No. 320 and Section (e) this <u>1st</u> day of <u>March</u>, 1999.

(old Policy No. 500)

DAWSON PUMP STATION

DATE	TIME	FLOW METER READING	PRESSURE	HOURS	RESERVOIR LEVEL	REMARKS	SIGNATURE
			No.				-
			1				
		-3					



JESALIN PUMP STATION

DATE	TIME	FLOW METER READING	PRESSURE	HOURS	RESERVOIR LEVEL	REMARKS	SIGNATURE
	•						
				7			
							•
		Mile programme					
			Ž.				
		, 1	,				

VILLAGE OF MIDWAY WATER SYSTEM ANNUAL REPORT

RESERVOIR	Date:
Operate Isolation Valves (Ann	nually)
Note: Refer to page 1 - Regar	
maintenance every 5 years	ars.
JESALIN & DAWSON PUMP STATION	S (Daily/Annually - see note below)
Date:	
	S
COMMENTS:	
<u> </u>	
	1 Property of the second secon
Note: Refer to page 1 - Regardante maintenance every 5 years	rding additional - Pump stations ars.
	ars.
BRIDGE CROSSING	Date:
Inspect Pipe for Damage/Vand	alism (Monthly)
	ober
	n in October (Daily Inspection of in
	ober)
COMMENTS:	

Signed

VILLAGE OF MIDWAY WATER SYSTEM ANNUAL HYDRANT MAINTENANCE REPORT

				HYDRANT NO: _	
LOCATION:					
CAPS: Mi			ced		
PAINT:					
HYDRANT TYPE:					
NOZZLES:	O.K	, Repla	ced		
VALVE & SEAT:	O.K	, Repla	ced	AND THE PROPERTY OF THE PROPER	
PACKING:	O.K	, Repla	ced	, Tightene	ed
DRAINAGE:	O.K	, Corre	cted		
FLUSHED:	, Min	utes	1	nozzle open	
				, Flow	_ g.p.m.
BRANCH VALVE:	Conditio	n:			
				ions, etc.)	
Date Inspected	1:				
				POSTED:	

Note: Refer to Page 2 regarding additional - Hydrant maintenance every 5 years.

VILLAGE OF MIDWAY WATER SYSTEM ANNUAL REPORT ANNUAL VALVE INSPECTION

- 1. Operate each valve
- 2. Clean riser pipe (rocks, debris etc.).
- 3. Clean surrounding weeds, etc.
- 4. Ensure all valves are in open position.

LOCATION	CORNER	# OF VALVES	/
Fourteenth Ave. & Division St.	N.E.	1	
Thirteenth Ave. & Division St.	N.E.	2	
Thirteenth Ave. & Trailer Park	N	1	
Thirteenth Ave. & Twelfth Ave.	N.W.	2	
Thirteenth Ave. Blowoff	N	1	
Division St. & Twelfth Ave.	S.C.	1	
Adams St. & Twelfth Ave.	S.W.	1	
Twelfth Ave. & Beamish St.	S.W.	3	
Hwy #3 & Beamish St.	S.W.	2	
Gleghorn St. & Palmerston St.	S.W.	2	
Palmerston St. & Florence St.	S.E.	2	
Palmerston St. & Gertrude St.	S.E.	3	
Cleghorn St. & Ninth Ave.	N.W.	2	
Florence St. & Ninth Ave.	N.E.	3	
Gertrude St. & Ninth Ave.	N.E.	3	
Jesalin St. & Ninth Ave.	N.E.	2	
Florence St. & Eighth Ave.	N.E.	3	
Gertrude St. & Eighth Ave.	N.E.	4	
Jesalin St. & Eighth Ave.	N.E.	2	
Cleghorn St. & Seventh Ave.	N.W.	2	
Dawson St. & Seventh Ave.	Ν̈́.Ε.	2	
Florence St. & Seventh Ave.	N.E.	3	
Gertrude St. & Seventh Ave.	N.E.	3	
Jesalin St. & Seventh Ave.	N.E.	1	
Dawson St. & Sixth Ave.	N.W.	3	
Eholt St. & Sixth Ave.	N.E.	1	

VILLAGE OF MIDWAY WATER SYSTEM ANNUAL REPORT ANNUAL VALVE INSPECTION

- 1. Operate each valve
- 2. Clean riser pipe (rocks, debris etc.).
- 3. Clean surrounding weeds, etc.
- 4. Ensure all valves are in open position.

LOCATION	CORNER	# OF VALVES	/
Florence St. & Sixth Ave.	N.E.	3	
Gertrude St. & Sixth Ave.	N.E.	2	
Jesalin St. & Pumphouse	W.S.E.	3	
Florence St. & Fifth Ave.	N.E.	2	
Chamblet St. & Fifth Ave.	N.E.	1	
Gertrude St. & Fifth Ave.	N.E.	2	
Jesalin St. & Fifth Ave.	S.W.	2	
Gertrude St. & Hartland Ave.	N.E.	1	
Jesalin St. & Hartland Ave.	none	0	
Hartland Ave. & Lyall St.	N.E.	3	
Lyall St. & Dominion St.	N.E.	1	
Fourth Ave. & Haynes St.	N.E.	2	
Boundary Ave. & Dominion St.	S.E.	1	
Boundary Creek Crossing North	N	1	
Boundary Creek Crossing South	none	0	
Florence St. & Central Ave.	S.E.	3	
Border Place	W	1	