ORGANIZED HAMLET OF LIVELONG

Drinking Water Quality and Compliance Annual Notice to Consumers

Saskatchewan Environment requires that at least once each year waterworks owners provide notification to consumers of the quality of water produced and supplied as well as information on the performance of the waterworks in submitting samples as required by a Minister's Order or Permit to Operate a waterworks. The following is a summary of the Organized Hamlet of Livelong water quality and sample submission compliance record of the **January 1 - December 31, 2014** time period. This report was completed on April 6, 2015. Readers should refer to Saskatchewan Environment's "Municipal Drinking Water Quality Monitoring Guidelines, Edition 3, October 2012, EPB 202" for more information on minimum sample submission requirements. Permit requirements for a specific waterworks may require more sampling than outlined in the department's monitoring guidelines. If consumers need more information on the nature and significance of specific water tests, for example, "what is the significance of selenium in a water supply", more detailed information is available from: http://www.hc-sc.gc.ca/hecs-sesc/water/dwgsup.htm.

Water Quality Standards Bacteriological Quality

		Regular Samples	Regular Samples	# of Positive Regular	
Parameter/Location	Limit	Required	Submitted	Submitted (%)	
Total Coliform and	0 Organisms/100 mg/L	24	26	0	
Background Bacteria	Less than 200 Organisms/10	00 mL			

Water Disinfection - Chlorine Residual in Distribution System for Test Results Submitted with Bacteriological Samples						
	Minimum	Free Chlorine	Total Chlorine	#Tests	#Tests	#Adequate
Parameter	Limit (mg/L)	Residual Range	Residual Range	Required S	Submitted	Chlorine (%)
Chlorine	0.1 mg/L free OR	-	=	-		
Residual	0.5 mg/L total	0.11-2.4	0.19-3.10	24	26	100%

Water Disinfection - Free Chlorine Residual for Water Entering Distribution System from Waterworks Records - From Water Treatment Plant Records

		Test Level	# Tests	# Tests Not Meeting
Parameter	Limit (mg/L)	Range	Performed	Requirements
Free Chlorine Residual	at least 0.1	0.11-4.28	365	0

A minimum of 0.1 milligrams per litre (mg/L) free chlorine residual is required for water entering the distribution system. Tests are normally performed on a daily basis by the waterworks operator and are to be recorded in operation records. This data includes the number of free chlorine residual tests performed, the overall range of free chlorine residual (highest and lowest recorded values) and the number of tests and percentage of results not meeting the minimum requirement of 0.1 mg/L free chlorine residual.

Turbidity - From Water Treatment Plant Records #Tests Not Meeting # Tests **Parameter** Limit Test Level Maximum # Tests Turbidity (NTU) (NTI) Range Requirements Required Performed Turbidity 1.0 16-0.98 365 365 0 0.98

Chemical - Health Category

	Limit	Limit	Sample	# Samples
Parameter	MAC (mg/L)	IMAC (mg/L)	Results	Exceeding Limit
Arsenic	0.025 (25 ug/l)		0.00407 mg/	1 0
Barium	1.0		0.0239	0
Boron	5.0		0.115	0
Cadmium	0.005	<	0.000010	0
Chromium	0.05	<	0.0002	0
Fluoride	1.5		0.13	0
Lead	0.01	<	< 0.00010	0
Nitrate	45.0		< 0.50	0
Selenium	0.01		0.0001	0
Uranium	0.02 (20 ug/l)		0.00244 mg/	1 0

Substances within the chemical health category may be naturally occurring in drinking water sources or may be the result of human activities. These substances may represent a long-term health risk if the Maximum Acceptable Concentration (MAC) or Interim Maximum Acceptable Concentration (IMAC) is exceeded. All drinking water supplies are required to monitor for substances in the "Chemical-Health" category, the frequency of monitoring depends on the population served by the waterworks. Some waterworks will add fluoride to drinking water as a means to aid in the prevention of dental decay.

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General	Chemical
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_	Aesthetic	Sample Results	# Samples	# Samples
Parameter	Objectives * (mg/L)		Required	Submitted
Alkalinity	No Objective	413	1	1
Bicarbonate	No Objective	503	1	1
Calcium	No Objective	119	1	1
Carbonate	No Objective	<10	1	1
Chloride	250	12.2	1	1
Conductivity	No Objective	927	1	1
Hardness	800	468	1	1
Magnesium	No Objective	41.6	1	1
PH	6.5 - 9.0	7.76	1	1
Sodium	300	38.8	1	1
Sulphate	500	83.8	1	1
Total dissolved				
Solids	1500	549	1	1

All waterworks serving less than 5000 persons are required to submit water samples for SE's General Chemical category once every two years if a ground water source and once per three months every second year if a surface water or blended surface/groundwater source. The General Chemical category includes analysis for alkalinity, bicarbonate, calcium, carbonate, chloride, conductivity, hardness (as CaCO3), magnesium, sodium, sulphate and total dissolved solids.

Chemical-Health and General Chemical sampling was conducted on March 12, 2014.

More information on water quality and sample submission performance may be obtained from:

The Rural Municipality of Mervin No. 499

Box 130

Turtleford, Sask.

S0M 2Y0

Telephone: 306-845-2045 Facsimile: 306-845-2950

E-mail: rm499@rmofmervin.com