ANNUAL REPORT

Drinking Water System Number: 210000951
Drinking Water System Name: Verner WTP
Drinking Water System Owner: The Corporation of the Municipality of West Nipissing
Drinking Water System Category: Large Municipal Residential
Period being reported: Jan 1, 2003 to Dec 31, 2003

Is this a Large Municipal Drinking-Water System serving more than 10,000 people? No

If yes, is your annual report available to the public at no charge on a web site on the Internet? NA

Location of Summary Report required under O.Reg.170/03 section 22.
For Large Municipal Residential or Small Municipal Residential only

West Nipissing Public Utilities Office, 30 Front Street, Unit D, Sturgeon Falls, Ontario

Number of Designated Facilities served: NA
Any of the following category may be serving a designated facility : large municipal non residential, small municipal non residential, large non municipal non residential, small non municipal non residential, non municipal year round residential, non municipal seasonal residential

Did you provide a copy of your annual report to all Designated Facilities you serve? NA

Number of Interested Authorities reporting to: NA

Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? NA

Number of Drinking-Water Systems your system is connected to and provides all of its drinking water to: NA

Did you provide a copy of your annual report to all system owners that are connected to you and to whom you provide all of its drinking water? NA

Indicate how you notified your system users that your annual report is available free of charge
[X] Public access/notice via the web
[ ] Public access/notice via Government Office
[X] Public access/notice via a newspaper
[ ] Public access/notice via Public Request
[ ] Public access/notice via a Public Library
[X] Public access/notice via other method Listed on Local Cable TV
Describe your Drinking Water System

The Verner WTP, commissioned in 1975, consists of a full surface water treatment facility, designed capacity of 1059 m3/d , drawing water from the Veuve River. The treatment plant consist of one (1) Ecodyne Graver Monoplant package plant, consisting of a Mixing Zone; Flocculation Zone; Settling Compartment and flock barriers; Blowdown valve and rapid flow by gravity sand and anthracite filters. Chemical treatment includes the addition of polymer, aluminum sulfate, pre and post soda ash, chlorine for disinfection and chlorine dioxide for iron and manganese removal to control taste and odour. There are four (4) below grade clearwells connected in series having a total area, total capacity and useable capacity of 134 m2, 269 m3 and 234 m3 respectively. The high lift pumping station has a firm capacity of 1,090 m3/d with three (3) identical vertical turbine high lift pumps each having a capacity of 545 m3/d at a TDH of 53.3 m. An elevated storage tank of composite steel/concrete construction, having a total storage capacity of 568 m3 and about 40 m above ground equipped with low level alarm and an overflow is located approximately 23 meters. There is no standby power supplied at this plant.

The plant is pending system upgrades to meet the current regulatory requirements

List all water treatment chemicals used over the reporting period.

Sodium Hypochlorite
Sodium Chlorite
Sodium Carbonate
Aluminum Sulphate
Poly Acrylamide Polymer

Where any significant expenses incurred during this reporting period to?

Install required equipment : **No**
Repair required equipment **No**
Replace required equipment **No**

Describe (if yes to any of above)

The Verner WTP is pending upgrades to be completed by Dec 31, 2004 to

1. **ensure primary disinfection downstream of the filters in accordance with O. Reg. 170/03 and the Procedure for Disinfection of Drinking Water in Ontario.**
2. **provide standby chemical metering pump for all process chemical additions.**
3. **upgrade instrumentation to link the high lift pumps to raw and treated water monitors.**
4. **provide a vent for the alum tank and spill containment.**
5. **provide Standby power**
6. **provide a separate storage area for sodium chlorite**
7. **provide spill containment for all process chemicals**

List any notice(s) in accordance with subsection 18(1) of the Act or section 16-4 of Schedule 16 of O.Reg.170/03 were reported to Spills Action Centre?

Incident Date	Parameter	Result	Corrective Action	Corrective Action Date
07-Apr-2003	Low chlorine	0.0 mg/l	Resampling & Flushing Main	07-Apr-2003
14-Apr-2003	Low chlorine	0.0 mg/l	Resampling & Flushing Main	14-Apr-2003
16-May-2003	THM	110.0 ug/l	Other	16-May-2003
18-Jun-2003	Sodium	29.07 mg/l	Resample	26-Jun-2003
24-Jun-2003	Sodium	29.8 mg/l	Resample	30-Jun-2003
12-Aug-2003	THM Quarter	184 ug/l	Study underway	20-Aug-2003
Oct –14-2003	Low Chlorine	0.0 mg/L	Flushed and Bactis	Oct-14-2002

Microbiological testing done during the period covered in the report

(Note: Large Municipal Residential may express the general bacteria population as background colony counts on the total coliform membrane filter or as colony counts on a heterotrophic plate count)

	Number of Samples	Range of E.Coli or Fecal Results	Range of Total Coliform Results	Number of GBP Samples	Range of GBP Results
Raw	52	50->2000	2-850	52	200->2000
Treated	52	0-0	0-0	52	0-0
Distribution	153	0-0	0-0	153	0-0

Operational testing done under schedule 7, 8 or 9 during the period covered by this report. (Please indicate range of results if using continuous monitoring devices)

POE Grab	Number of Samples	Range of Results
Turbidity ntu	252	0.11-0.98
Chlorine Free mg/L	253	0.53-2.6

Distribution Grab	Number of Samples	Range of Results
Chlorine Free mg/L	337	0-2.05

POE Online Continuous Analyzers

Parameter	Sample point	# samples	Min	Max	Average
Online POE Free Cl_2 mg/l	Treated POE	20428	0	1.49	1.3

Summary of additional testing and sampling carried out in accordance with the requirement of an approval or order. NA

Date of order or C of A	Sample Type	Parameter	Number of Samples	Sample Date	Result
NA	NA	NA	NA	NA	NA

Summary of inorganic parameters tested during the period covered in the report or most recent results. (Expressed in mg/L)

Parameter	Sample Date	Result Value	Exceedence
Antimony	Apr. 29, 2003	ND	
Arsenic	Jan. 28, 2003	ND	
Barium	Jan. 28, 2003	0.016	
Boron	Jan. 28, 2003	ND	
Cadmium	Jan. 28, 2003	ND	
Chromium	Jan. 28, 2003	ND	
Lead (Distribution)	Jan. 28, 2003 Apr. 29, 2003 Aug. 12, 2003 Nov. 10, 2003	ND ND ND ND	
Mercury	Jan. 28, 2003	ND	
Selenium	Jan. 28, 2003	ND	
Uranium	Jan. 28, 2003	ND	
Fluoride	Jan. 28, 2003	ND	
Sodium	June 18,2003 June 23, 2003	29.07 29.8	reported
Nitrate	Jan. 28, 2003 Apr. 29, 2003 Aug. 12, 2003 Nov. 10, 2003	0.3 0.2 0.1 0.2	
Nitrite	Jan. 28, 2003 Apr. 29, 2003 Aug. 12, 2003 Nov. 10, 2003	ND ND ND ND	

Summary of organic parameters sampled during this reporting period or most recent results. (Expressed in milligrams/L)

Parameter	Sample Date	Result Value	Exceed.
Alachlor	Jan. 28, 2003	ND	
	Apr. 29, 2003	ND	
Aldicarb	Jan. 28, 2003	ND	
	Apr. 29, 2003	ND	
Aldrin + Dieldrin	Jan. 28, 2003	ND	
	Apr. 29, 2003	ND	
Atrazine + N-dealkylated metobolites	Jan. 28, 2003	ND	
	Apr. 29, 2003	ND	
	Aug. 12, 2003	ND	
Azinphos-methyl	Jan. 28, 2003	ND	
	Apr. 29, 2003	ND	
Bendiocarb	Jan. 28, 2003	ND	
	Apr. 29, 2003	ND	
Benzene	Jan. 28, 2003	ND	
	Apr. 29, 2003	ND	
Benzo(a)pyrene	Aug. 12, 2003	ND	
Bromoxynil	Jan. 28, 2003	ND	
	Apr. 29, 2003	ND	
Carbaryl	Jan. 28, 2003	ND	
	Apr. 29, 2003	ND	
Carbofuran	Jan. 28, 2003	ND	
	Apr. 29, 2003	ND	
Carbon Tetrachloride	Jan. 28, 2003	ND	
	Apr. 29, 2003	ND	
Chlordane (Total)	Jan. 28, 2003	ND	
	Apr. 29, 2003	ND	

Parameter	Sample Date	Result Value	Exceed.
Glyphosate	Jan. 28, 2003	ND	
	Apr. 29, 2003	ND	
Heptachlor + Heptachlor Epoxide	Jan. 28, 2003	ND	
	Apr. 29, 2003	ND	
Linadane (Total)	Jan. 28, 2003	ND	
	Apr. 29, 2003	ND	
Malathion	Jan. 28, 2003	ND	
	Apr. 29, 2003	ND	
Methoxychlor	Jan. 28, 2003	ND	
	Apr. 29, 2003	ND	
Metolachlor	Jan. 28, 2003	ND	
	Apr. 29, 2003	ND	
Metribuzin	Jan. 28, 2003	ND	
	Apr. 29, 2003	ND	
Monochlorobenzene	Jan. 28, 2003	ND	
	Apr. 29, 2003	ND	
Paraquat	Jan. 28, 2003	ND	
	Apr. 29, 2003	ND	
Parathion	Jan. 28, 2003	ND	
	Apr. 29, 2003	ND	
Pentachlorophenol	Jan. 28, 2003	ND	
	Apr. 29, 2003	ND	
Phorate	Jan. 28, 2003	ND	
	Apr. 29, 2003	ND	
Picloram	Jan. 28, 2003	ND	
	Apr. 29, 2003	ND	

Chlorpyrifos	**Jan. 28, 2003** **Apr. 29, 2003**	**ND** **ND**			**Polychlorinated Biphenyls(PCB)**	**Jan. 28, 2003** **Apr. 29, 2003**	**ND** **ND**	
Cyanazine	**Jan. 28, 2003** **Apr. 29, 2003**	**ND** **ND**			**Prometryn**	**Jan. 28, 2003** **Apr. 29, 2003**	**ND** **ND**	
Diazinon	**Jan. 28, 2003** **Apr. 29, 2003**	**ND** **ND**			**Simazine**	**Jan. 28, 2003** **Apr. 29, 2003**	**ND** **ND**	
Dicamba	**Jan. 28, 2003** **Apr. 29, 2003**	**ND** **ND**			**Temephos**	**Jan. 28, 2003** **Apr. 29, 2003**	**ND** **ND**	
1,2-Dichlorobenzene	**Jan. 28, 2003** **Apr. 29, 2003**	**ND** **ND**			**Terbufos**	**Jan. 28, 2003** **Apr. 29, 2003**	**ND** **ND**	
1,4-Dichlorobenzene	**Jan. 28, 2003** **Apr. 29, 2003**	**ND** **ND**			**Tetrachloroethylene (perchloroethylene)**	**Jan. 28, 2003** **Apr. 29, 2003**	**ND** **ND**	
Dichlorodiphenyltrichloroethane (DDT) + metabolites	**Jan. 28, 2003** **Apr. 29, 2003**	**ND** **ND**			**2,3,4,6-Tetrachlorophenol**	**Jan. 28, 2003** **Apr. 29, 2003**	**ND** **ND**	
1,2-Dichloroethane	**Jan. 28, 2003** **Apr. 29, 2003**	**ND** **ND**			**Triallate**	**Jan. 28, 2003** **Apr. 29, 2003**	**ND** **ND**	
1,1-Dichloroethylene (vinylidene chloride)	**Jan. 28, 2003** **Apr. 29, 2003**	**ND** **ND**			**Trichloroethylene**	**Jan. 28, 2003** **Apr. 29, 2003**	**ND** **ND**	
Dichloromethane	**Jan. 28, 2003** **Apr. 29, 2003**	**ND** **ND**			**2,4,6-Trichlorophenol**	**Jan. 28, 2003** **Apr. 29, 2003**	**ND** **ND**	
2-4 Dichlorophenol	**Jan. 28, 2003** **Apr. 29, 2003**	**ND** **ND**			**2,4,5-Trichlorophenoxy acetic acid(2,4,5-T)**	**Jan. 28, 2003** **Apr. 29, 2003**	**ND** **ND**	
2,4-Dichlorophenoxy acetic acid (2,4-D)	**Jan. 28, 2003** **Apr. 29, 2003**	**ND** **ND**			**Trifluralin**	**Jan. 28, 2003** **Apr. 29, 2003**	**ND** **ND**	
Diclofop-methyl	**Jan. 28, 2003** **Apr. 29, 2003**	**ND** **ND**			**Vinyl Chloride**	**Jan. 28, 2003** **Apr. 29, 2003**	**ND** **ND**	
Dimethoate	**Jan. 28, 2003** **Apr. 29, 2003**	**ND** **ND**			**THM (Distribution)**	**Jan. 28, 2003** **Apr. 29, 2003** **Aug. 12, 2003** **Nov. 10, 2003**	**0.062** **0.078** **0.184** **0.050**	

Dinoseb	**Jan. 28, 2003** **Apr. 29, 2003**	**ND** **ND**						
Diquat	**Jan. 28, 2003** **Apr. 29, 2003**	**ND** **ND**						
Diuron	**Jan. 28, 2003** **Apr. 29, 2003**	**ND** **ND**						

List any inorganic or organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards. NA

Parameter	Result Value	Sample Date	MAC or IMAC
NA	**NA**	**NA**	**NA**

Applies to the following category : large municipal residential, small municipal residential, large municipal non residential, small municipal non residential, large non municipal non residential

Note: if the sampling and testing frequency has been increased for any parameter in this reporting period, please insert additional rows to the tables to accommodate all the test results.

Verner Treated Water Production

#

	Q1			Q2			Q3			Q4			Year
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	To Date
Cubic Meters													
Month Tot.	13021	12034	13403	12530	13227	17656	18836	19226	16611	16997	14448	13749	181738
Avg. Day	420	430	432	418	427	589	608	620	554	548	482	444	498
Min Day	347	374	355	344	369	474	516	392	440	431	442	381	344
Max Day	531	486	470	458	479	897	730	786	627	718	557	499	897
Rated Capacity	1059	1059	1059	1059	1059	1059	1059	1059	1059	1059	1059	1059	1059
% Rated Capacity	50	46	44	43	45	85	69	74	59	68	53	47	85