

Water Works Name: Whitechurch Well Supply  
 Well No. (if applicable): \_\_\_\_\_  
 Year: 2008  
 Serviced Population: 93  
 Laboratories Which Performed Analyses: SGS Lakefield Research  
 Water Works: 220008863

Month	Barium		Treated Water Nitrite		Treated Water Nitrate		THM's				
	No. of Samples Collected	Average Residual mg/L	Maximum Residual mg/L	No. of Samples Collected	Average Nitrite (mg/L)	Maximum Nitrite (mg/L)	No. of Samples Collected	Average Nitrate (mg/L)	Maximum Nitrate (mg/L)	No. of Samples Collected	Result ug/l
Jan.	1	969	969	1	<0.005	<0.005	1	<0.013	<0.013	1	10
Feb.											
Mar.											
Apr.											
May	1	935	935	1	<0.005	<0.005	1	<0.013	<0.013	1	11
June											
July											
August	1	994	994	1	<0.005	<0.005	1	<0.013	<0.013	1	15
Sept											
Oct. New Well											
Nov	1	943	943	1	<0.005	<0.005	1	<0.013	<0.013	1	16
Dec											
Total	4			4			4				
Average					#DIV/0!						
Maximum			994								
ODWQS										0	

Where nitrate and nitrite are present, the total of the two should not exceed 10 mg/L  
 THM levels should not exceed 100 ug/L  
 Fluoride levels above 1.5 mg/L must be reported to the Medical Officer of Health  
 Barium levels should not exceed 1000 ug/L

Annual Data Summary - Treated Water Volatile Organic and Inorganic Data  
 (Complete a separate sheet for each input into the Distribution System)

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Parameter	Analysis		Maximum Allowable Level (ug/L)	Analysis Result	Maximum Allowable Level mg/L
	Date (MM/DD/YY)	Result (ug/L)			
<b>Schedule 23 &amp; 24</b>					
Antimony	11/10/2007	<0.2	6		
Arsenic	23/12/2008	0.6	25		
Boron	11/10/2007	15	5000		
Cadmium	"	<0.003	5		
Chromium	"	0.5	50		
Mercury	"	<0.02	1		
Sodium	26/11/2007			17.1	20
Fluoride	23/12/2008			1.05	1.5
Selenium	23/12/2008	<1	10		
Uranium	11/10/2007	0.161	20		
Benzene	"	<0.37	5		
Carbon Tetrachloride	"	<0.41	5		
1,2-Dichlorobenzene	"	<0.50	200		
1,4-Dichlorobenzene	"	<0.21	5		
1,1-Dichloroethylene	"	<0.41	14		
1,2-Dichloroethane	"	<0.43	5		
Dichloromethane	"	<0.34	50		
Monochlorobenzene	"	<0.58	80		
Tetrachloroethylene	"	<0.45	30		
Trichloroethylene	"	<0.38	50		
Vinyl Chloride	"	<0.17	2		
Diquat	"	<1	70		
Paraquat	"	<1	10		
Glyphosate	"	<6	280		
Polychlorinated Biphenyls	"	<0.04	3		
Benzo(a)pyrene	"	<0.004	0.01		
2,4-dichlorophenol	"	<0.15	900		
2,4,6-trichlorophenol	"	<0.25	5		
2,3,4,5-tetrachlorophenol	"	<0.14	100		
Pentachlorophenol	"	<0.15	60		
Alachlor	"	<0.11	5		
Aldicarb	"	<0.30	9		
Aldrin+Dieldrin	"	<0.067	0.7		
Aldrin	"	<0.060			
Dieldrin	"	<0.067			
Atrazine+N-dealkylated metabolites	"	<0.12	5		
Atrazine	"	<0.11			
De-ethylated atrazine	"	<0.12			
Azinphos-methyl	"	<0.21	20		
Bendiocarb	"	<0.13	40		
Carbaryl	"	<0.16	90		
Carbofuran	"	<0.37	90		
Chlordane	"	<0.11	7		

Annual Data Summary - Treated Water Volatile Organic and Inorganic Data  
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a-chlordane	"	<0.069	
g-chlordane	"	<0.063	
Oxychlordane	"	<0.11	
Chlorpyrifos	"	<0.18	90
Cyanazine	"	<0.18	10
Diazinon	"	<0.081	20
(DDT)+Metabolites	"	<0.14	30
op-DDT	"	<0.095	
pp-DDD	"	<0.098	
pp-DDE	"	<0.075	
pp-DDT	"	<0.14	
Dimethoate	"	<0.12	20
Diuron	"	<0.087	150
Heptachlor-Heptachlor Epoxide	"	<0.11	3
Heptachlor	"	<0.061	
Heptachlor epoxide	"	<0.11	
Lindane	"	<0.056	4
Malathion	"	<0.091	190
Methoxychlor	"	<0.14	900
Metolachlor	"	<0.092	50
Metribuzin	"	<0.12	80
Parathion	"	<0.18	50
Phorate	"	<0.11	2
Prometryne	"	<0.23	1
Simazine	"	<0.15	10
Temephos	"	<0.31	280
Terbufos	"	<0.12	1
Triallate	"	<0.10	230
Trifluralin	"	<0.12	45
2,4-dichlorophenoxyacetic acid	"	<0.19	100
2,4,5-trichlorophenoxyacetic acid	"	<0.22	280
Bromoxynil	"	<0.33	5
Dicamba	"	<0.20	120
Diclofop-methyl	"	<0.40	9
Dinoseb	"	<0.36	10
Picloram	"	<0.25	190

**Whitechurch Well Supply**

Chemical Usage

2008

Month	Sodium Hypochlorite			Sodium Silicate	
	Usage kg.	Dosage mg/L		Usage Kg.	Dosage mg/L
Jan '08	3.08	3.12		4.55	4.62
Feb '08	2.93	3.25		4.36	4.84
Mar '08	2.88	2.95		4.60	4.71
Apr '08	3.93	4.03		6.98	7.14
May '08	3.62	3.74		4.76	4.91
Jun '08	4.57	4.15		6.01	5.46
Jul '08	4.43	4.40		7.77	7.72
Aug '08	4.04	4.82		6.09	7.27
Sep '08	5.19	5.19		7.28	7.28
Oct '08	4.97	4.69		8.04	7.59
Nov '08	3.71	4.38		7.05	8.35
Dec '08	3.75	4.52		6.46	7.78
Total	47.09	4.10		73.96	6.44

Notes:

1) The sodium hypochlorite is used as a source of chlorine

2) The sodium silicate is used as a treatment for iron.

All quantities of chemicals are listed as the available chemical in the solutions and not the total physical quantities.

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 Year: 2008  
 Serviced Population: 93  
 Laboratories which Performed Analyses: SGS Lakefield Research

Month	Total Coliform			Fecal Coliform / Escherichia Coli			HPC or MF			BKG		
	No. of Samples Collected	No. of Samples "Unsafe"	No. of Samples "Unsafe" deteriorating	No. of Samples Collected	No. of Samples "Unsafe"	No. of Samples "Unsafe" deteriorating	No. of Samples Collected	No. of Samples "Safe"	No. of Samples "Unsafe" deteriorating	No. of Samples Collected	No. of Samples "Safe"	No. of Samples "Unsafe" deteriorating
Jan '08	5	5	0	5	5	0	5	5	0			
Feb '08	4	4	0	4	4	0	4	4	0			
Mar '08	4	4	0	4	4	0	4	4	0			
Apr '08	9	9	0	9	9	0	9	9	0			
May '08	6	6	0	6	6	0	6	6	0			
Jun '08	4	4	0	4	4	0	4	4	0			
Jul '08	5	5	0	5	5	0	5	5	0			
Aug '08	4	4	0	4	4	0	4	4	0			
Sep '08	5	5	0	5	5	0	5	5	0			
Oct '08	7	7	0	7	7	0	7	7	0			
Nov '08	4	4	0	4	4	0	4	4	0			
Dec '08	5	5	0	5	5	0	5	5	0			
Total	62	62	0	62	62	0	62	62	0			

INDICATORS OF UNSAFE DRINKING WATER QUALITY: INDICATORS OF DETERIORATING DRINKING WATER QUALITY

If any of the following conditions exist, the drinking water is judged unsafe:

- Escherichia coli and/or fecal coliforms are detected in any distribution sample by any analytical method;
  - Total coliforms are detected in consecutive samples from the same site or in multiple samples taken as a single submission from a distribution system.
- Any of the following conditions indicate a deterioration in drinking water quality:
- total coliforms detected as a single occurrence (but not Escherichia coli or other fecal coliforms);
  - samples contain more than 500 colonies per ml on a heterotrophic plate count analysis;
  - samples contain more than 200 background colonies on a total coliform membrane filter analysis;
  - Aeromonas spp., Pseudomonas aeruginosa, Staphylococcus aureus, Clostridium spp. Or members of the Fecal Streptococcus (Enterococcus) group are detected.

Water Works Name:  
Well No. (if applicable):  
Year:  
Serviced Population  
Laboratories Which Performed Analyses:  
Water Works Number

Whitechurch Well Supply  
N/A  
2008  
93  
Veolia Water Canada  
220008863

Month	Treated Water Flow			Process		Treated Water Turbidity			Treated Disinfectant		Scada Disinfectant Trending			Dist. System Disinfectant	
	Average Daily (1000 m3)	Maximum Daily (1000 m3)	Monthly Total (1000 m3)	Wastewater Monthly Total (1000 m3)	No. of Samples Collected	No. of Samples > 1NTU	Average Turbidity NTU	No. of Collected Samples	Average Residual (mg/L)	Average Online Residual (mg/L)	Minimum Online Residual (mg/L)	Maximum Online Residual (mg/L)	No. of Dist. Samp. Collected	No. of Samples < 0.05	
Jan '08	0.033	0.128	0.987		28	0	0.168	30	1.28	N/A	N/A	N/A	26	0	
Feb '08	0.031	0.045	0.900		28	0	0.120	28	1.48	N/A	0.50	2.20	26	0	
Mar '08	0.032	0.041	0.978		31	0	0.105	31	1.56	N/A	0	2.2	31	0	
Apr '08	0.033	0.046	0.977		30	0	0.083	30	1.25	N/A	0.05	2.20	30	0	
May '08	0.031	0.049	0.969		31	3	0.444	31	0.99	N/A	0.05	2.00	30	0	
Jun '08	0.037	0.088	1.102		30	0	0.348	30	1.11	1.09	0.36	1.65	30	0	
Jul '08	0.032	0.076	1.007		31	0	0.208	31	1.05	1.02	0.45	1.28	31	0	
Aug '08	0.027	0.059	0.838		31	0	0.183	31	1.08	1.01	0.80	1.65	31	0	
Sep '08	0.033	0.045	1.000		29	0	0.173	30	1.13	1.10	0.92	1.31	30	0	
Oct '08	0.034	0.047	1.060		31	0	0.177	31	1.02	1.01	0.01	1.44	31	0	
Nov '08	0.028	0.044	0.845		18	0	0.189	30	1.10	1.04	0.2	5.76	29	0	
Dec '08	0.028	0.043	0.830		31	0	0.153	31	1.30	1.26	1.00	1.49	31	0	
Total			11.492		349	3							356	0	
Average	0.032								1.19						
Maximum		0.128													

Disinfectant Compound Used  
(EG. Chlorine Gas, NaOCl, etc.)

Sodium Hypochlorite

Form of Residual Displayed on above table:  
(EG. Free, Combined, or Total)

Free

Quantity of Disinfectant used during the year (kg):

47.09

Distribution system target residual (mg/L)

> 0.20

Maximum daily flow 260 cubic meters (m3).

Water Works Name: **Whitechurch Well Supply**  
 Well No. (if applicable): **Well # 1**  
 Year: **2008**  
 Serviced Population: **93**  
 Laboratories Which Performed Analyses: **SGS Lakefield Research**  
 Water Works Number: **220008863**

Month	Total Coliform			Fecal Coliform / Escherichia Coli		
	No. of Samples Collected	No. of Samples	No. of Samples >1	No. of Samples Collected	No. of Samples	No. of Samples >1
Jan '08	5	5	0	5	5	0
Feb '08	3	3	0	3	3	0
Mar '08	4	4	0	4	4	0
Apr '08	5	5	0	5	5	0
May '08	5	5	0	5	5	0
Jun '08	4	4	0	4	4	0
Jul '08	5	5	0	5	5	0
Aug '08	4	4	0	4	4	0
Sep '08	5	5	0	5	5	0
Oct '08	4	4	0	4	4	0
Nov '08	4	4	0	4	4	0
Dec '08	5	5	0	5	5	0
Total	53	53	0	53	53	0

Water Works Name: Whitechurch Well Supply  
 Well No. (if applicable): Well # 2  
 Year: 2008  
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Raw Water

Month	Total Coliform		No. of Samples 101-9000	No. of Samples >9000	Fecal Coliform / Escherichia Coli		No. of Samples >900
	No. of Samples Collected	No. of Samples 0-100			No. of Samples Collected	No. of Samples 0-10	
Jan 08	0	0	0	0	0	0	0
Feb 08	0	0	0	0	0	0	0
Mar 08	2	2	0	0	2	2	0
Apr 08	2	2	0	0	2	2	0
May 08	0	0	0	0	0	0	0
June 08	4	4	0	0	4	4	0
July 08	5	5	0	0	5	5	0
Aug 08	4	4	0	0	4	4	0
Sept 08	5	5	0	0	5	5	0
Oct 08	4	4	0	0	4	4	0
Nov 08	4	4	0	0	4	4	0
Dec 08	5	5	0	0	5	5	0
Total	35	35	0	0	35	35	0

"In systems treating surface water or ground water, samples should be taken from the raw water source and from the point at which treated water enters the distribution system. In these systems sampling should be done at least weekly. In systems serving populations up to 100,000 and more often in larger systems. In addition, the operator must check that the disinfection process is functioning properly at all times. In ground water systems that only disinfect, water samples shall be taken and examined not less than once per week from the source and all points at which water enters the distribution system."

From Section 4.1.1 of the Ontario Drinking Water Objectives, as revised in 1994.

Water Works Name: Whitechurch Well Supply  
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 Year: 2008  
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	No. of Samples Collected	No. of Samples "Unsafe"	No. of Samples "Safe"	No. of Samples Collected	No. of Samples "Unsafe"	No. of Samples "Safe"	No. of Samples Collected	No. of Samples "Safe"	No. of Samples Collected	No. of Samples "Safe"
Jan '08	5	0	5	0	5	0	5	0	0	0
Feb '08	4	0	4	0	4	0	4	0	0	0
Mar '08	4	0	4	0	4	0	4	0	0	0
Apr '08	6	0	6	0	6	0	6	0	0	0
May '08	6	0	6	0	6	0	6	0	0	0
Jun '08	4	0	4	0	4	0	4	0	0	0
Jul '08	5	0	5	0	5	0	5	0	0	0
Aug '08	4	0	4	0	4	0	4	0	0	0
Sep '08	5	0	5	0	5	0	5	0	0	0
Oct '08	5	0	5	0	5	0	5	0	0	0
Nov '08	4	0	4	0	4	0	4	0	0	0
Dec '08	5	0	5	0	5	0	5	0	0	0
Total	57	0	57	0	57	0	57	0	0	0

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