

Water System Report 2008

Prepared By: Ron Doucette,
Director of Operational Services

January 29, 2009

Penticton Health Centre
Attention: Gundi Volk, CPHI
740 Carmi Avenue, 2nd Fl
Penticton, B.C. V2A 8P9

Dear Gundi,

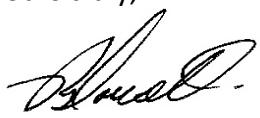
The following is the Town of Osoyoos' 2008 Annual Water Report. Included for your perusal is the total consumption for both the Town of Osoyoos' Water System and the Town of Osoyoos' Irrigation System. This includes chlorine use and other information as per the Ministry of Health's Annual Report outline that pertains to our system.

In 2008, Capital projects included:

- 66th Ave Water Upgrades
- SCADA upgrades
- Well #3 New Pump Motor
- Irrigation System 8 received five new pumps

I trust this information is to you satisfaction. If you require further information please contact me at (250) 495-6213 or pubworks@osoyoos.ca.

Yours truly,



Ron Doucette
Director of Operational Services

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System Description

The Town of Osoyoos has a Class II Water Distribution System. The source of water comes from five different wells with three reservoirs. The water is untreated with one well equipped with a standby chlorinator if necessary. A cross connection program is in effect.

The Town of Osoyoos has **two certified** operators:

Mike Thomas	Certificate #3219
Frank Zandvliet	Certificate #5657

The Town of Osoyoos has three **operator-in-training** that will be certified as Water Operators by early spring.

The Town of Osoyoos also has an Irrigation System with two lake inlets and one well that provide domestic water in the non-irrigation season; all irrigation water sources are treated. Chlorinator residual testing is done daily during the irrigation season and well testing during the non-irrigation season is done a minimum of twice a week.

Bacteriological Results

The Town of Osoyoos collected 98 Coliform Samples for the Irrigation system. None of the samples tested positive for fecal coliforms.

The Town of Osoyoos collected 50 Coliform Samples for the Town System. None of the samples tested positive for fecal coliforms.

The irrigation system also had Trihalomethane analysis done. Results are enclosed in the following reports from Caro. Also included are the results of Nitrate/Nitrite samples of Well #5 and the chemical analysis of Well #3.

Proposed Projects

The 2009 **proposed** Capital Projects for the Town of Osoyoos Water System include the following:

- Well #6 & #7 Construction
- East to west bottle neck removal
- 74th to Curlew Expand High Pressure Zone

Water Consumption Summary

Water Consumption - Town System

Well #	2008	2007	2006
1	74,724 m^3	163,534 m^3	1,031,965 m^3
3	154,960 m^3	123,402 m^3	113,486 m^3
4	224,424 m^3	506,922 m^3	201,138 m^3
5	1,128,593 m^3	1,013,443 m^3	1,055,195 m^3
6	144,496 m^3	200,852 m^3	178,349 m^3
8	516,769 m^3	508,962 m^3	558,59 m^3
Total	2,243,966 m^3	2,517,115 m^3	3,138,732 m^3

Water Consumption - Irrigation System

	2008	2007	2006
System 8	3,914,030 m^3	4,279,655 m^3	4,878,420 m^3
System 9	3,469,958 m^3	7,571,521 m^3	5,020,973 m^3
Well #6	199,263 m^3	152,846 m^3	179,765 m^3
Total	7,583,251 m^3	12,004,022 m^3	10,079,158 m^3

Total Chlorine Used = 12,924.2kg

Well #6 Water Consumption 2008

Month	Hrs Ran	In Min	x gpm	m^3
Jan	297	17,820	415	28,020
Feb	310	18,600	415	29,225
Mar	225	13,500	415	21,229
Apr	398	23,880	400	36182
May	-	-	-	-
June	-	-	-	-
Jul	689	41,340	491	76,813
Aug	605	36,300	492	67,683
Sept	-	-	-	-
Oct	232	13,920	502	26,469
Nov	249	14,940	535	30,295
Dec	269	16,140	455	27,843
Total	3,274	196,440	4,120	343,759

To Town Water System July and August and September = 144,496 m^3
To Irrigation System All Other Months = 199,263m^3

System 8 Water Consumption 2008

Month	m^3
Jan	64
Feb	633
Mar	-
Apr	203,875
May	654,015
June	619,394
Jul	869,034
Aug	705,432
Sept	684,439
Oct	167,322
Nov	4,902
Dec	4,920
Total	3,914,030 m^3

System 9 Water Consumption 2008

Month	m^3
Jan	-
Feb	-
Mar	-
Apr	158,197
May	391,851
June	554,572
Jul	819,362
Aug	770,962
Sept	629,133
Oct	145,881
Nov	-
Dec	-
Total	3,469,958 m^3

Well Monthly Summaries

Well #1 Water Consumption 2008

Month	m^3	Hrs Ran
Jan	-	-
Feb	50	1
Mar	-	-
Apr	-	-
May	4,435	67
June	10,598	155
Jul	16,020	227
Aug	14,596	209
Sept	8,431	136
Oct	17,745	250
Nov	1,664	38
Dec	1,185	19

Total	74,724 m^3	1,102

Well #3 Water Consumption 2008

Month	m^3	Hrs Ran
Jan	158	2
Feb	1,502	21
Mar	390	7
Apr	2,274	37
May	17,765	236
June	28,547	398
Jul	38,166	456
Aug	37,407	361
Sept	27,857	380
Oct	894	24
Nov		
Dec		
Total	154,960 m^3	1,922

Well #5 Water Consumption 2008

Month	m^3	Hrs Ran
Jan	36,163	265
Feb	54,814	218
Mar	68,932	329
Apr	118,133	516
May	151,417	701
June	130,648	648
Jul	151,614	700
Aug	114,042	620
Sept	112,659	590
Oct	64,470	294
Nov	47,129	251
Dec	78,572	372
Total	1,128,593 m^3	4,881

Well #4 Water Consumption 2008

Month	m^3	Hrs Ran
Jan	-	-
Feb	311	2
Mar	-	-
Apr	749	5
May	22,088	132
June	42,078	231
Jul	57,840	343
Aug	51,833	308
Sept	37,837	251
Oct	11,688	71
Nov	-	-
Dec	-	-
Total	224,424 m^3	1,343

Well Monthly Summaries Cont …

Well #8 Water Consumption 2008

Month	m^3	Hrs Ran
Jan	4,220	45
Feb	3,409	22
Mar	1,504	10
Apr	24,606	173
May	74,371	535
June	78,602	528
Jul	93,265	624
Aug	89,511	609
Sept	96,962	714
Oct	48,667	364
Nov	769	9
Dec	883	5
Total	516,769 m^3	3,638

Monthly Chlorine Consumption

Station 8 Chlorine Consumption

Month	kg
Jan	-
Feb	-
Mar	-
Apr	350
May	1031.8
June	1031.8
Jul	1556.8
Aug	1150
Sept	1027.3
Oct	300
Nov	4.5
Dec	13.6
Total	6465.8 kg

Station 9 Chlorine Consumption

Month	kg
Jan	213.6
Feb	-
Mar	-
Apr	-
May	618.2
June	1013.6
Jul	1386.4
Aug	1313.6
Sept	1031.8
Oct	350
Nov	-
Dec	-
Total	5927.2 kg

Well #6 Chlorine Consumption

Month	kg
Jan	213.6
Feb	-
Mar	-
Apr	-
May	618.2
June	1013.6
Jul	1386.4
Aug	1313.6
Sept	1031.8
Oct	350
Nov	-
Dec	-
Total	5927.2 kg