

TABLE 1. 2007 UNTREATED (RAW) WATER QUALITY AT JAPAN GULCH PLANT

(Guideline values provide reference only for untreated water)

PARAMETER		2007 ANALYTICAL RESULTS				2007 CANADIAN GUIDELINES	TEN YEAR RESULTS (1998-2007)			
Parameter	Units of	Median	Samples	Range		≤ = Less than or equal to	Ten Year	Samples	Range	Sampling
Name	Measure	Value	Analyzed	Minimum	Maximum		Median	Analyzed	Minimum-Maximum	Frequency
Physical Parameters (< = Less than instrument can detect)										
Alkalinity, Total	mg/L	14.0	15	12.5	15.1		14.7	300	7.0 - 17.6	12/yr
Carbon, Dissolved Organic	mg/L as C	2.4	11	2.0	2.6		2.5	91	1.8 - 7.0	12/yr
Carbon, Total Organic	mg/L as C	2.5	11	2.2	2.6	Guideline no Longer Required	2.5	162	1.8 - 9.6	12/yr
Colour, True	TCU	7.9	52	4.4	10	≤ 15 AO	7.9	581	2.8 - 18	52/yr
Conductivity @ 25 C	uS/cm	39.8	52	31.1	42.5		41.3	525	26.2 - 47.0	52/yr
Hardness as CaCO ₃	mg/L	15.8	20	14.8	17.1	No Guideline Required	16.8	148	9.3 - 34.7	24/yr
pH	pH units	7.21	51	6.86	7.6	6.5 - 8.5 AO	7.29	527	6.46 - 7.71	52/yr
Tannins and Lignins	mg/L	0.25	3	0.23	0.26	Guideline no Longer Required	0.26	28	<0.07 - 0.37	2/yr
Total Dissolved Solids	mg/L	25.0	46	13.0	27.7	≤ 500 AO	25.2	237	8.0 - 49.0	52/yr
Total Suspended Solids	mg/L	0.8	46	<0.17	4.7		0.7	236	<0.1 - 7.7	52/yr
Total Solids	mg/L	26.0	46	14.0	31.0		26	237	8.0 - 53.0	52/yr
Turbidity, Grab Samples	NTU	0.44	247	0.22	1.28		0.37	2,337	0.12 - 2.8	250/yr
Ultraviolet Absorption, 5cm	Abs.@254 nm	0.326	52	0.206	0.389		0.325	430	0.206 - 0.575	52/yr
Ultraviolet Transmittance	%	86	238	81.3	94.4		86	1,479	75 - 94.4	250/yr
Water Temp., Grab Samples	degrees C	10.4	260	4.4	19.0	≤ 15 AO	10	2,760	3.0 - 23.0	250/yr
Non-Metallic Inorganic Chemicals (< = Less than instrument can detect)										
Ammonia, Total	ug/L as N	2.82	12	<0.6	6.99	No Guideline Required	4.3	120	<0.18 - 63.6	12/yr
Bromide	mg/L as Br	0.004	12	0.001	0.021		0.003	64	<0.0008 - 0.021	12/yr
Chloride	mg/L as Cl	2.6	2	2.1	3.19	≤ 250 AO	2.51	20	1.82 - 6.37	2/yr
Cyanide	mg/L as Cn	<0.008	2	<0.002	<0.015	0.2 MAC	0.009	21	0.0005 - <0.015	2/yr
Fluoride	ug/L as F	9.5	2	9.0	10.0	1500 MAC	8.9	20	<2.0 - 43	2/yr
Nitrate, Dissolved	ug/L as N	22.8	12	4.1	42.4		15.7	102	<0.3 - 97.8	12/yr
Nitrite, Dissolved	ug/L as N	<0.3	12				<0.3	99	<0.16 - 6.85	12/yr
Nitrogen, Total	ug/L as N	96	12	84	127		94.4	80	17 - 304	12/yr
Phosphate, Ortho, Dissolved	ug/L as P	0.80	12	<0.4	2.7		0.90	100	<0.09 - 4.41	12/yr
Phosphate, Total, Dissolved	ug/L as P	3.72	12	1.80	6.64		2.7	100	<0.2 - 7.8	12/yr
Phosphate, Total	ug/L as P	6.20	12	3.96	13.1		4.87	101	<0.7 - 13.1	12/yr
Silica	mg/L as SiO ₂	4.14	12	3.19	6.3		4	35	1.53 - 6.31	12/yr
Silicon	mg/L as Si	1.74	12	1.34	2.03		1.86	51	1.18 - 22.8	12/yr
Sulphate	mg/L as SO ₄	1.54	12	1.41	1.61	≤ 500 AO	1.56	87	<0.08 - 7.4	12/yr
Sulphide	mg/L as H ₂ S	<0.01	2	<0.006	<0.015	≤ 0.05 AO	<0.05	22	0.002 - 0.026	2/yr
Sulphur	mg/L as S	0.5	12	<0.5	3.0		0.6	60	<0.5 - 3.0	12/yr

mg/L = milligrams per litre
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CFU = Colony Forming Units
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Parameter	Units of	Median	Samples	Range		≤ = Less than or equal to	Ten Year	Samples	Range	Sampling
Name	Measure	Value	Analyzed	Minimum	Maximum		Median	Analyzed	Minimum-Maximum	Frequency
Metallic Inorganic Chemicals (< = Less than instrument can detect)										
Aluminum	mg/L as Al	0.022	12	0.01	0.037		0.02	72	<0.008 - 0.17	12/yr
Antimony	mg/L as Sb	<0.001	12	<0.0005	<0.001	0.006 MAC	<0.01	73	<0.000005 - 0.126	12/yr
Arsenic	mg/L as As	<0.001	12	0.0001	<0.001	0.01 MAC	<0.05	59	0.0001 - <0.06	12/yr
Barium	mg/L as Ba	0.004	12	0.004	0.005	1.0 MAC	0.004	74	<0.002 - 0.04	12/yr
Beryllium	mg/L as Be	<0.0002	12	<0.0001	<0.0002		<0.0002	72	<0.0002 - <0.003	12/yr
Bismuth	mg/L as Bi	<0.05	12	<0.001	<0.05		<0.05	59	<0.001 - <0.05	12/yr
Boron	mg/L as B	<0.008	12	<0.005	0.034	5 MAC	<0.008	74	<0.002 - 0.37	12/yr
Cadmium	mg/L as Cd	<0.00001	12			0.005 MAC	<0.001	73	<0.00001 - <0.006	12/yr
Calcium	mg/L as Ca	4.68	12	4.28	4.92	No Guideline Required	5.0	74	2.75 - 13.9	12/yr
Cerium	ug/L as Ce	Not analyzed in 2007					0.007	2	0.004 - 0.01	Irregular
Cesium	ug/L as Cs	Not analyzed in 2007					<0.029	2		Irregular
Chromium	mg/L as Cr	<0.001	12	0.001	<0.001	0.05 MAC	<0.005	72	0.0002 - 0.044	12/yr
Cobalt	mg/L as Co	<0.0005	12				<0.005	73	0.00003 - 0.02	12/yr
Copper	mg/L as Cu	0.001	12	0.0005	0.0015	≤ 1.0 AO	<0.005	71	0.0004 - 0.90	12/yr
Dysprosium	ug/L as Dy	Not analyzed in 2007					0.008	2	0.005 - 0.01	Irregular
Erbium	ug/L as Er	Not analyzed in 2007					0.005	2	0.0006 - <0.01	Irregular
Europium	ug/L as Eu	Not analyzed in 2007					0.001	2	0.00001 - <0.002	Irregular
Gallium	ug/L as Ga	Not analyzed in 2007					<0.05	2		Irregular
Gadolinium	ug/L as Gd	Not analyzed in 2007					<0.002	2		Irregular
Germanium	ug/L as Ge	Not analyzed in 2007					<0.001	2		Irregular
Gold	mg/L as Au	Not analyzed in 2007					<0.04	14	<0.0000001 - <0.04	Irregular
Hafnium	ug/L as Hf	Not analyzed in 2007					<0.005	2		Irregular
Holmium	ug/L as Ho	Not analyzed in 2007					0.002	2	0.0009 - <0.003	Irregular
Iron	mg/L as Fe	0.04	12	0.018	0.165	≤ 0.3 AO	0.042	72	<0.01 - 0.169	12/yr
Lanthanum	mg/L as La	Not analyzed in 2007					<0.02	14	0.000003 - <0.02	Irregular
Lead	ug/L as Pb	<0.50	12	<0.20	<0.50	10 MAC	<0.50	14	0.02 - 1.82	12/yr
Lithium	ug/L as Li	<2	12	<2	<5		<2	23	<0.06 - <5	12/yr
Lutetium	ug/L as Lu	Not analyzed in 2007					<0.0006	2		Irregular
Magnesium	mg/L as Mg	1.10	12	1.00	1.18	No Guideline Required	1.17	74	0.58 - 3.11	12/yr
Manganese	mg/L as Mn	0.006	12	0.003	0.017	≤ 0.05 AO	0.008	72	<0.003 - 0.031	12/yr
Mercury, Methyl	ng/L as Hg	<0.007	4	<0.001	<0.03		<0.02	49	<0.01 - 0.087	6/yr
Mercury, Total	ng/L as Hg	1.02	4	0.60	1.26	1000 MAC	0.9	56	0.05 - 3.31	4/yr
Molybdenum	mg/L as Mo	<0.005	12	<0.001	<0.005		<0.005	74	<0.00006 - 0.028	12/yr
Neodymium	ug/L as Nd	Not analyzed in 2007					0.012	2	0.004 - <0.02	Irregular
Nickel	mg/L as Ni	<0.008	12	<0.001	<0.008		<0.008	74	0.0002 - 0.066	12/yr
Phosphorus	mg/L as P	<0.1	9				<0.1	71	<0.02 - 0.219	12/yr
Potassium	mg/L as K	<1	12	0.18	<1	Guideline in Preparation	<1	77	0.006 - 1.09	12/yr
Praseodymium	ug/L as Pr	Not analyzed in 2007					<0.006	2	<0.002 - <0.01	Irregular
Rubidium	ug/L as Rb	Not analyzed in 2007					0.22	2		Irregular
Samarium	ug/L as Sm	Not analyzed in 2007					0.006	2	0.003 - <0.01	Irregular
Scandium	mg/L as Sc	Not analyzed in 2007					<0.05	14	0.009 - <0.05	Irregular

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Parameter	Units of	Median	Samples	Range		≤ = Less than or equal to	Ten Year	Samples	Range	Sampling
Name	Measure	Value	Analyzed	Minimum	Maximum		Median	Analyzed	Minimum-Maximum	Frequency
Selenium	mg/L as Se	<0.001	12	<0.0001	<0.001	0.01 MAC	<0.001	75	<0.00005 - <0.5	12/yr
Silver	mg/L as Ag	<0.0001	12	<0.00002	<0.0001	No Guideline Required	<0.01	73	<0.00001 - <0.01	12/yr
Sodium	mg/L as Na	1.62	12	1.45	1.80	≤ 200 AO	1.71	77	<0.05 - 2.6	12/yr
Strontium	mg/L as Sr	0.014	12	0.013	0.016		0.015	74	0.011 - 0.032	12/yr
Tantalum	ug/L as Ta	Not analyzed in 2007					<0.71	2		Irregular
Tellurium (52)	mg/L as Te	Not analyzed in 2007					<0.05	23		Irregular
Thallium	ug/L as Tl	<0.1	12	<0.05	<0.1		<0.1	60	0.01 - <30	12/yr
Thorium	ug/L as Th	Not analyzed in 2007					<0.001	2		Irregular
Thulium	ug/L as Tm	Not analyzed in 2007					0.0006	2	0.0001 - <0.001	Irregular
Tin	mg/L as Sn	<0.02	12	<0.005	<0.02		<0.02	62	<0.00002 - <0.06	12/yr
Titanium	mg/L as Ti	<0.003	12	<0.003	<0.005		<0.003	74	0.0006 - 0.012	12/yr
Tungsten	mg/L as W	Not analyzed in 2007					<0.05	14	0.000005 - <0.07	Irregular
Uranium	mg/L as U	<0.0001	12			0.02 MAC	<0.0001	31	<0.000005 - <0.0001	12/yr
Vanadium	mg/L as V	<0.005	12				<0.005	74	0.00018 - 0.01	12/yr
Ytterbium	ug/L as Yb	Not analyzed in 2007					0.005	2	0.0004 - <0.01	Irregular
Zinc	mg/L as Zn	<0.005	12	<0.005	0.02	≤ 5.0 AO	<0.005	74	<0.0005 - 0.057	12/yr
Zirconium	ug/L as Zr	<5	12	<0.5	<5		<5	61	0.0004 - <5.0	12/yr

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Parameter Name	Units of Measure	Median Value	Samples Analyzed	Range Minimum Maximum		≤ = Less than or equal to	Ten Year Median	Samples Analyzed	Range Minimum-Maximum	Sampling Frequency
Microbial Parameters (< = Less than method or instrument can detect)										
Coliform Bacteria										
Coliform, Total	CFU/100 mL	31	248	4	1,450		24	2,476	<1 - 15,000	250/yr
Coliform, Fecal	CFU/100 mL	Changed to E.coli analysis in 2004					<1	1,300	<1 - 18	Discontinued
<i>E. coli</i>	CFU/100 mL	0	248	0	165		<1	1,215	<1 - 165	250/yr
Coliform, Background	CFU/100 mL	25	247	0	592		460	2,472	<1 - 109,278	250/yr
Heterotrophic /Other Bacteria										
Hetero. Plate Count, 28C (7 day)	CFU/1 mL	440	246	50	1,800	No Guideline Required	390	2,442	<10 - 12,000	250/yr
Hetero. Plate Count, 35C (2 day)	CFU/1 mL	Discontinued in 2005				No Guideline Required	32	1,702	<1 - 1500	Discontinued
<i>Aeromonas</i> species	CFU/100 mL	70	248	<0.2	1,260		168	995	<0.2 - 51,000	Special
<i>Enterococci</i>	CFU/100 mL	Discontinued in 2003					0	39	0 - 9	Discontinued
Cyanobacterial Toxins										
Anatoxin a	ug/L	Not analyzed in 2007					<0.2	6	<0.16 - <1.0	Special
Microcystin-LR	ug/L	<0.22	1			1.5 MAC	<0.22	8	<0.083 - <1.0	Special
Other Microcystins	ug/L	Not analyzed in 2007					<0.16	2		Special
Parasites										
						No MAC Established				
<i>Cryptosporidium</i> , Total oocysts	oocysts/100 L	0	13			Zero detection desirable	0	280	0 - 6.2	12/yr
<i>Cryptosporidium</i> ,Viable oocysts	oocysts/100 L	0	13			Zero detection desirable	0	251	0 - 1	12/yr
<i>Giardia</i> , Total cysts	cysts/100 L	0	13	0	1	Zero detection desirable	0	280	0 - 5	12/yr
<i>Giardia</i> , Viable cysts	cysts/100 L	0	13			Zero detection desirable	0	251	0 - 2	12/yr
Radiological Parameters (< = Less than instrument can detect)										
Gross alpha radiation	Bq/L	0.02	2	0.01	0.02	0.1 (Screening)	<0.02	18	<0.01 - 0.07	2/yr
Gross beta radiation	Bq/L	0.03	2	0.02	0.03	1.0 (Screening)	<0.02	18	<0.02 - 0.05	2/yr

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Parameter	Units of	Median	Samples	Range		≤ = Less than or equal to	Ten Year	Samples	Range	Sampling
Name	Measure	Value	Analyzed	Minimum	Maximum		Median	Analyzed	Minimum-Maximum	Frequency
Organic Parameters (< = Less than instrument can detect)										
Pesticides/Herbicides										
1,4-DDD	mg/L	<0.00001	2				<0.00001	5		2/yr
1,4'-DDE	mg/L	<0.00001	2				<0.00001	20	<0.00001 - <0.00004	2/yr
1,4'-DDT	mg/L	<0.00001	2			Guideline no Longer Required	<0.00001	20	<0.00001 - <0.00001	2/yr
2,4,5-T	mg/L	<0.0001	2			Guideline no Longer Required	<0.0001	20	<0.0001 - <0.0005	2/yr
2,4,5-TP (Silvex)	mg/L	<0.0001	2			Guideline no Longer Required	<0.0001	20	<0.0001 - <0.0005	2/yr
2,4-D	mg/L	<0.0004	2			0.1 MAC	<0.0004	20	<0.0004 - <0.0005	2/yr
2,4-DB	mg/L	<0.001	2				<0.001	20	<0.0005 - <0.001	2/yr
3-Hydroxy Carbofuran	mg/L	<0.0002	2				<0.0002	20		2/yr
4,4'-DDD	mg/L	<0.00003	2				<0.00003	20	<0.00003 - <0.0001	2/yr
4,4'-DDE	mg/L	<0.00001	2				<0.00001	20	<0.00001 - <0.00004	2/yr
4,4'-DDT	mg/L	<0.00001	2			No Guideline Required	<0.00001	20	<0.00001 - <0.00001	2/yr
Alachlor	mg/L	<0.0002	2				<0.0002	20	<0.0002 - <0.0003	2/yr
Aldicarb	mg/L	<0.0005	2			0.009 MAC	<0.0005	20		2/yr
Aldicarb Sulfone	mg/L	<0.0003	2				<0.0003	20		2/yr
Aldicarb Sulfoxide	mg/L	<0.0008	2				<0.0008	20		2/yr
Aldrin	mg/L	<0.00001	2			0.0007 MAC	<0.00001	20	<0.00001 - <0.00004	2/yr
Atrazine	mg/L	<0.0001	2			0.005 MAC	<0.0001	20	<0.0001 - <0.0002	2/yr
Azinphos-methyl	mg/L	<0.001	2			0.02 MAC	<0.001	20	<0.001 - <0.005	2/yr
BHC (alpha)	mg/L	<0.00002	2				<0.00002	20	<0.00002 - <0.00003	2/yr
BHC (beta)	mg/L	<0.00003	2				<0.00003	20	<0.00003 - <0.00006	2/yr
BHC (delta)	mg/L	<0.00001	2				<0.00001	20	<0.00001 - <0.00001	2/yr
Bendiocarb	mg/L	<0.0002	2			0.04 MAC	<0.0002	11	<0.0002 - <0.001	2/yr
Bromacil	mg/L	<0.0002	2				<0.0002	20	<0.0002 - <0.0014	2/yr
Bromoxynil	mg/L	<0.00002	2			0.005 MAC	<0.00002	10		2/yr
Butylate	mg/l	<0.0002	2				<0.0002	20		2/yr
Carbaryl	mg/L	<0.0002	2			0.09 MAC	<0.0002	20		2/yr
Carbofuran	mg/L	<0.0002	2			0.09 MAC	<0.0002	20	<0.0002 - <0.0003	2/yr
Chlordane (alpha)	mg/L	<0.00001	2			Guideline no Longer Required	<0.00001	20	<0.00001 - <0.00001	2/yr
Chlordane (gamma)	mg/L	<0.00001	2			Guideline no Longer Required	<0.00001	20	<0.00001 - <0.00001	2/yr
Chlorfenvinphos	mg/L	<0.0004	2				<0.0004	20		2/yr
Chlorpropham	mg/L	<0.001	2				<0.001	20		2/yr
Chlorpyrifos	mg/L	<0.00002	2			0.09 MAC	<0.00002	20	<0.00002 - <0.0003	2/yr
Dematon	mg/L	<0.0008	2				<0.0008	20		2/yr
Diazinon	mg/L	<0.00003	2			0.02 MAC	<0.00003	20	<0.00003 - <0.0002	2/yr
Dicamba	mg/L	<0.0001	2			0.12 MAC	<0.0001	20	<0.0001 - <0.0005	2/yr
Dieldrin	mg/L	<0.00002	2				<0.00002	20		2/yr
Dimethoate	mg/L	<0.0002	2			0.02 MAC	<0.0002	20	<0.0002 - <0.0004	2/yr
Dioxacarb	mg/L	<0.0008	2				<0.0008	20		2/yr
Disulfoton	mg/L	<0.0002	2				<0.0002	20		2/yr
Endosulfan I	mg/L	<0.00001	2				<0.00001	20	<0.00001 - <0.00001	2/yr

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Endosulfan II	mg/L	<0.00002	2				<0.00002	20	<0.00002 - <0.00004	2/yr
Endosulfan Sulphate	mg/L	<0.00002	2				<0.00002	20	<0.00002 - <0.00007	2/yr
Endrin	mg/L	<0.00002	2			Guideline no Longer Required	<0.00002	20	<0.00002 - <0.00006	2/yr
Endrin Aldehyde	mg/L	<0.00005	2				<0.00005	20	<0.00005 - <0.00002	2/yr
Ethion	mg/L	<0.0003	2				<0.0003	20		2/yr
Fenitrothion	mg/L	<0.0005	2				<0.0005	20		2/yr
Fenthion	mg/L	<0.0006	2				<0.0006	20		2/yr
Fonofos	mg/L	<0.0002	2				<0.0002	20		2/yr
Glyphosate	mg/L	<0.001	2			0.28 MAC	<0.035	20	<0.00002 - <0.035	2/yr
Heptachlor	mg/L	<0.00002	2			Guideline no Longer Required	<0.00002	20	<0.00002 - <0.0003	2/yr
Heptachlor Epoxide	mg/L	<0.00001	2			Guideline no Longer Required	<0.00001	20	<0.00001 - <0.0008	2/yr
Hexazinone	mg/L	<0.0008	2				<0.0008	20		2/yr
Isofenphos	mg/L	<0.0004	2				<0.0004	20		2/yr
Lindane (BHC-gamma)	mg/L	<0.00001	2			Guideline no Longer Required	<0.00001	20	<0.00001 - <0.00004	2/yr
Malathion	mg/L	<0.0002	2			0.19 MAC	<0.0002	20	<0.0002 - <0.0006	2/yr
MCPA	mg/L	<0.0001	2			Guideline in Preparation	<0.050	20	<0.0001 - <0.050	2/yr
MCPP	mg/L	<0.0001	2				<0.100	20	<0.0001 - <0.100	2/yr
Methidathion	mg/L	<0.0003	2				<0.0003	20		2/yr
Methiocarb	mg/L	<0.0003	2				<0.0003	20		2/yr
Methomyl	mg/L	<0.0003	2				<0.0003	20		2/yr
Methoxychlor	mg/L	<0.001	2	<0.00004	<0.002	0.9 MAC	<0.00004	20	<0.00004 - <0.002	2/yr
Methyl-Parathion	mg/L	<0.0002	2			Guideline no Longer Required	<0.0002	20		2/yr
Metolachlor	mg/L	<0.0008	2			0.05 MAC	<0.0008	20		2/yr
Mevinphos	mg/L	<0.0004	2				<0.0004	20		2/yr
Monocrotophos	mg/L	<0.001	2				<0.001	20		2/yr
Oxamyl	mg/L	<0.0003	2				<0.0003	20		2/yr
Parathion	mg/L	<0.0002	2			0.05 MAC	<0.0002	20		2/yr
Phorate	mg/L	<0.0002	2			0.002 MAC	<0.0002	20		2/yr
Phosalone	mg/L	<0.001	2				<0.001	20		2/yr
Phosmet	mg/L	<0.005	2				<0.005	20		2/yr
Picloram	mg/L	<0.0001	2			0.19 MAC	<0.0001	20	<<0.0001 - <0.0002	2/yr
Promecarb	mg/L	<0.0002	2				<0.0002	20		2/yr
Propazine	mg/L	<0.0001	2				<0.0001	20		2/yr
Propoxur	mg/L	<0.0002	2				<0.0002	20		2/yr
Simazine	mg/L	<0.0001	2			0.01 MAC	<0.0001	20		2/yr
Terbufos	mg/L	<0.0005	2			0.001 MAC	<0.0005	20	<0.0005 - <0.0009	2/yr
Tetrachlovinphos	mg/L	<0.0002	2				<0.0002	20		2/yr
Toxaphene	mg/L	<0.00008	2			No Guideline Required	<0.00008	20	<0.00008 - <0.003	2/yr

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(Guideline values provide reference only for untreated water)

PARAMETER		2007 ANALYTICAL RESULTS				2007 CANADIAN GUIDELINES	TEN YEAR RESULTS (1998-2007)			
Parameter	Units of	Median	Samples	Range		≤ = Less than or equal to	Ten Year	Samples	Range	Sampling
Name	Measure	Value	Analyzed	Minimum	Maximum		Median	Analyzed	Minimum-Maximum	Frequency
Polycyclic Aromatic Hydrocarbons (PAH's)		(< = Less than instrument can detect)								
Acenaphthene	mg/L	<0.0004	2			Guideline no Longer Required	<0.0004	19		2/yr
Acenaphthylene	mg/L	<0.0007	2			Guideline no Longer Required	<0.0007	19		2/yr
Acridine	mg/L	<0.0003	2			Guideline no Longer Required	<0.0003	19		2/yr
Anthracene	mg/L	<0.0002	2			Guideline no Longer Required	<0.0002	19		2/yr
Benzo(a)anthracene	mg/L	<0.0003	2			Guideline no Longer Required	<0.0003	19		2/yr
Benzo(a)pyrene	mg/L	<0.00001	2			0.00001 MAC	<0.00001	19	<0.00001 - <0.0005	2/yr
Benzo(b)fluoranthene	mg/L	<0.0006	2			Guideline no Longer Required	<0.0006	19		2/yr
Benzo(g,h,i)perylene	mg/L	<0.0005	2			Guideline no Longer Required	<0.0005	19		2/yr
Benzo(k)fluoranthene	mg/L	<0.0005	2			Guideline no Longer Required	<0.0005	19		2/yr
Chrysene	mg/L	<0.0004	2			Guideline no Longer Required	<0.0004	19		2/yr
Dibenz(a,h)anthracene	mg/L	<0.0003	2			Guideline no Longer Required	<0.0003	19		2/yr
Fluoranthene	mg/L	<0.0003	2			Guideline no Longer Required	<0.0003	19		2/yr
Fluorene	mg/L	<0.0004	2			Guideline no Longer Required	<0.0004	19		2/yr
Indeno(1,2,3-c,d)pyrene	mg/L	<0.0005	2			Guideline no Longer Required	<0.0005	19		2/yr
Naphthalene	mg/L	<0.0006	2			Guideline no Longer Required	<0.0006	19		2/yr
Phenanthrene	mg/L	<0.0003	2			Guideline no Longer Required	<0.0003	19		2/yr
Pyrene	mg/L	<0.0002	2			Guideline no Longer Required	<0.0002	19		2/yr

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PARAMETER		2007 ANALYTICAL RESULTS				2007 CANADIAN GUIDELINES	TEN YEAR RESULTS (1998-2007)			
Parameter	Units of	Median	Samples	Range		≤ = Less than or equal to	Ten Year	Samples	Range	Sampling
Name	Measure	Value	Analyzed	Minimum	Maximum		Median	Analyzed	Minimum-Maximum	Frequency
Phenols		(< = Less than instrument can detect)								
2,3,4,5-Tetrachlorophenol	mg/L	<0.00005	2				<0.00005	20		2/yr
2,3,4,6-Tetrachlorophenol	mg/L	<0.00005	2			0.1 MAC and ≤0.001 AO	<0.00005	20		2/yr
2,3,4-Trichlorophenol	mg/L	<0.0001	2				<0.0001	20		2/yr
2,3,5-Trichlorophenol	mg/L	<0.001	2				<0.0001	20		2/yr
2,3,6-Trichlorophenol	mg/L	<0.0001	2				<0.0001	20		2/yr
2,3-Dichlorophenol	mg/L	<0.0001	2				<0.001	19	<0.0001 - <0.001	2/yr
2,4,5-Trichlorophenol	mg/L	<0.0001	2				<0.0001	20	<0.0001 - <0.001	2/yr
2,4,6-Trichlorophenol	mg/L	<0.0001	2			0.005 MAC and ≤ 0.002 AO	<0.0001	20	<0.0001 - <0.001	2/yr
2,4-Dichlorophenol	mg/L	<0.0001	2			0.9 MAC and ≤ 0.003 AO	<0.001	19	<0.0001 - <0.001	2/yr
2,4-Dimethylphenol	mg/L	<0.0005	2				<0.002	15	<0.0005 - <0.002	2/yr
2,4-Dinitrophenol	mg/L	<0.0005	2				<0.010	15	<0.0005 - <0.010	2/yr
2,5-Dichlorophenol	mg/L	<0.0001	2				<0.001	19	<0.0001 - <0.001	2/yr
2,6-Dichlorophenol	mg/L	<0.0001	2				<0.001	19	<0.0001 - <0.001	2/yr
2-Chlorophenol	mg/L	<0.0001	2				<0.001	19	<0.0001 - <0.001	2/yr
2-Methylphenol	mg/L	<0.0005	2				<0.002	15	<0.0005 - <0.002	2/yr
2-Nitrophenol	mg/L	<0.0005	2				<0.002	15	<0.0005 - <0.002	2/yr
3,4,5-Trichlorophenol	mg/L	<0.0001	2				<0.0001	20		2/yr
3,4-Dichlorophenol	mg/L	<0.0001	2				<0.001	19	<0.0001 - <0.001	2/yr
3,5-Dichlorophenol	mg/L	<0.0001	2				<0.001	19	<0.0001 - <0.001	2/yr
3-Chlorophenol	mg/L	<0.0001	2				<0.001	19	<0.0001 - <0.001	2/yr
4,6-Dinitro-2-methylphenol	mg/L	<0.0005	2				<0.010	15	<0.0005 - <0.010	2/yr
4-Chloro-3-Methylphenol	mg/L	Not analyzed in 2007					<0.001	2		Special
4-Chlorophenol	mg/L	<0.0001	2				<0.001	18	<0.0001 - <0.001	2/yr
4-Methylphenol	mg/L	<0.0005	2				<0.003	15	<0.0005 - <0.003	2/yr
4-Nitrophenol	mg/L	<0.0005	2				<0.002	15	<0.0005 - <0.002	2/yr
Pentachlorophenol	mg/L	<0.00005	2			0.06 MAC and ≤0.030 AO	<0.00005	20		2/yr
Phenol	mg/L	<0.0005	2				<0.001	15	<0.0005 - <0.001	2/yr
Total Phenolics	mg/L	0.002	2	<0.001	0.003	Guideline no Longer Required	0.002	16	<0.001 - 0.004	2/yr
Total Trichlorophenols	mg/L	<0.0001	2				<0.0001	17	<0.00005 - <0.0001	2/yr
Total Tetrachlorophenols	mg/L	<0.00005	2				<0.00005	17		2/yr
Total Chlorinated Phenols	mg/L	<0.00005	2				<0.00005	17	<0.00005 - <0.0001	2/yr

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(Guideline values provide reference only for untreated water)

PARAMETER		2007 ANALYTICAL RESULTS				2007 CANADIAN GUIDELINES	TEN YEAR RESULTS (1998-2007)			
Parameter Name	Units of Measure	Median Value	Samples Analyzed	Range Minimum Maximum		≤ = Less than or equal to	Ten Year Median	Samples Analyzed	Range Minimum-Maximum	Sampling Frequency
Other Synthetic Chemicals		(< = Less than instrument can detect)								
1,1,1-Trichloroethane	mg/L	<0.0001	2				<0.0001	20		2/yr
1,1,2,2-Tetrachloroethane	mg/L	<0.0002	2				<0.0002	20		2/yr
1,1,2-Trichloroethane	mg/L	<0.0001	2				<0.0001	20		2/yr
1,1-Dichloroethane	mg/L	<0.0001	2				<0.0001	20		2/yr
1,1-Dichloroethylene	mg/L	<0.0001	2			0.014 MAC	<0.0001	20		2/yr
1,2,4-Trichlorobenzene	mg/L	<0.0005	2				<0.0005	19		2/yr
1,2-Dibromoethane	mg/L	<0.000005	2				<0.0001	20	<0.000005 - <0.0001	2/yr
1,2-Dichlorobenzene	mg/L	<0.0001	2			0.20 MAC and ≤ 0.003 AO	<0.0001	20		2/yr
1,2-Dichloroethane	mg/L	<0.0004	2			0.005 MAC	<0.0004	2		2/yr
1,2-Dichloroethylene (cis)	mg/L	<0.0001	2				<0.0001	20		2/yr
1,2-Dichloroethylene (trans)	mg/L	<0.0001	2				<0.0001	20		2/yr
1,2-Dichloropropane	mg/L	<0.0001	2				<0.0001	20		2/yr
1,3-Dichlorobenzene	mg/L	<0.0001	2				<0.0001	20		2/yr
1,3-Dichloropropene (cis)	mg/L	<0.0001	2				<0.0001	20		2/yr
1,3-Dichloropropene (trans)	mg/L	<0.0001	2				<0.0001	20		2/yr
1,4-Dichlorobenzene	mg/L	<0.0001	2			0.005 MAC and ≤ 0.001 AO	<0.0001	20		2/yr
2,4-Dinitrotoluene	mg/L	<0.0007	2				<0.0007	19		2/yr
2,6-Dinitrotoluene	mg/L	<0.002	2				<0.002	19		2/yr
2-Butanone	mg/L	<0.005	2				<0.005	20		2/yr
2-Chloronaphthalene	mg/L	<0.0007	2				<0.0007	19		2/yr
2-Hexanone	mg/L	<0.020	2				<0.005	20	<0.005 - <0.020	2/yr
2-Methylnaphthalene	mg/L	<0.003	2				<0.003	19		2/yr
2-Nitroaniline	mg/L	<0.0045	2	<0.004	<0.005		<0.004	19	<0.004 - <0.005	2/yr
3,3'-Dichlorobenzidene	mg/L	<0.003	2				<0.003	19		2/yr
3-Nitroaniline	mg/L	<0.003	2				<0.003	19		2/yr
4-Bromophenyl-phenylether	mg/L	<0.0003	2				<0.0003	19		2/yr
4-Chloroaniline	mg/L	<0.005	2				<0.005	19		2/yr
4-Chlorophenyl-phenylether	mg/L	<0.0004	2				<0.0004	19		2/yr
4-Methyl-2-pentanone	mg/L	<0.002	2				<0.002	20		2/yr
4-Nitroaniline	mg/L	<0.004	2				<0.004	19		2/yr
Aminomethylphosphonic Acid (AMPA)	mg/L	<0.001	1				<0.035	18	<0.010 - <0.035	2/yr
Aniline	mg/L	<0.005	2				<0.005	19		2/yr
Azobenzene	mg/L	<0.0006	2				<0.0006	19		2/yr
Benzene	mg/L	<0.0001	2			0.005 MAC	<0.0001	21	<0.00001 - <0.0001	2/yr
Benzyl Alcohol	mg/L	<0.003	2				<0.003	19		2/yr
Bis (-2-chloroethoxy)methane	mg/L	<0.0006	2				<0.0006	19	<0.0005 - <0.0006	2/yr
Bis (-2-chloroethyl)ether	mg/L	<0.0006	2				<0.0006	19		2/yr
Bis (2-chloroisopropyl)ether	mg/L	<0.0005	2				<0.0005	19		2/yr
Bis (2-ethylhexyl) phthalate	mg/L	<0.008	2				<0.008	20	<0.008 - 0.031	2/yr
Bromomethane	mg/L	<0.0008	2				<0.0008	20		2/yr
Butylbenzyl phthalate	mg/L	<0.009	2				<0.009	19		2/yr

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Parameter	Units of	Median	Samples	Range		≤ = Less than or equal to	Ten Year	Samples	Range	Sampling
Name	Measure	Value	Analyzed	Minimum	Maximum		Median	Analyzed	Minimum-Maximum	Frequency
Carbon Tetrachloride	mg/L	<0.0001	2			0.005 MAC	<0.0001	20		2/yr
Chloroethane	mg/L	<0.0004	2				<0.0004	20		2/yr
Chloromethane	mg/L	<0.0004	2				<0.0004	19		2/yr
Dibenzofuran	mg/L	<0.002	2				<0.002	19		2/yr
Dibromomethane	mg/L	<0.0002	2				<0.0002	20		2/yr
Dichlorodifluoromethane	mg/L	<0.0002	2				<0.0002	20		2/yr
Diethyl phthalate	mg/L	<0.0003	2				<0.0003	19		2/yr
Dimethyl phthalate	mg/L	<0.0006	2				<0.0006	19		2/yr
Di-n-butyl phthalate	mg/L	<0.030	2				<0.030	19		2/yr
Di-n-ocyl phthalate	mg/L	<0.0008	2				<0.0008	19		2/yr
Diuron	mg/L	<0.0005	2			0.15 MAC	<0.0005	12		2/yr
Ethylbenzene	mg/L	<0.0001	2			≤0.0024 AO	<0.0001	21	<0.00001 - <0.0001	2/yr
Formaldehyde	mg/L	<0.0001	2			No Guideline Required	<0.0001	14		2/yr
Hexachlorobenzene	mg/L	<0.0004	2				<0.0004	19		2/yr
Hexachlorobutadiene	mg/L	<0.002	2				<0.002	19		2/yr
Hexachlorocyclopentadiene	mg/L	<0.005	2				<0.005	19		2/yr
Hexachloroethane	mg/L	<0.002	2				<0.002	19		2/yr
Isophorone	mg/L	<0.001	2				<0.001	19		2/yr
Methylene Chloride	mg/L	<0.006	2				<0.006	20		2/yr
Methyl-tert-butyl-ether (MTBE)	mg/L	Not analyzed in 2007				0.015 AO	<0.0005	12		Special
Monochlorobenzene	mg/L	<0.0001	2			0.08 MAC and ≤ 0.03 AO	<0.0001	20		2/yr
N-nitrosodimethylamine (NDMA)	µg/L	Not analyzed in 2007					<0.002	1		Special
Nitrobenzene	mg/L	<0.0009	2				<0.0009	19	<0.0009 - <0.001	2/yr
N-nitroso-di-n-propylamine	mg/L	<0.008	2				<0.008	19		2/yr
N-nitrosodiphenylamine	mg/L	<0.0003	2				<0.0003	19		2/yr
Styrene	mg/L	<0.0001	2				<0.0001	2		2/yr
Tetrachloroethylene	mg/L	<0.0001	2			0.03 MAC	<0.0001	20		2/yr
Toluene	mg/L	<0.0001	2			≤0.024 AO	<0.0001	21	<0.00001 - <0.0001	2/yr
Trichloroethylene	mg/L	<0.0001	2			0.005 MAC	<0.0001	20		2/yr
Trichlorofluoromethane	mg/L	<0.0002	2				<0.0002	20		2/yr
Vinyl Chloride	mg/L	<0.0002	2			0.002 MAC	<0.0002	20		2/yr
o-Xylene	mg/L	Not analyzed in 2007					<0.00001	1		Special
m&p-Xylene	mg/L	Not analyzed in 2007					<0.00001	1		Special
Xylenes (Total)	mg/L	<0.0001	2			≤0.3 AO	<0.0001	20		2/yr

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