

TABLE 1. 2010 UNTREATED (RAW) WATER QUALITY ENTERING JAPAN GULCH PLANT

(Guideline values provide reference only for untreated water)

PARAMETER		2010 ANALYTICAL RESULTS				CANADIAN GUIDELINES	TEN YEAR RESULTS (2001-2010)			Target
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
mg/L = parts per million ug/L = parts per billion ng/L = parts per trillion										
Physical Parameters (< means less than instrument can detect)										
Alkalinity, Total	mg/L	15.6	12	13.7	17.8		14.9	218	7.8 - 17.8	12/yr
Carbon, Dissolved Organic	mg/L as C	2.2	11	1.7	2.3		2.4	112	1.7 - 7.0	12/yr
Carbon, Total Organic	mg/L as C	2.2	11	1.8	2.6	Guideline Archived	2.4	118	1.8 - 9.6	12/yr
Colour, True	TCU	7.0	54	3.9	13	≤15 AO	7.5	577	2.8 - 18	52/yr
Conductivity @ 25 C	uS/cm	41.8	51	39.2	45.0		41.7	511	27.9 - 47.0	52/yr
Hardness as CaCO ₃	mg/L	16.6	21	14.9	18.8	No Guideline Required	16.9	184	9.3 - 34.7	24/yr
pH	pH units	7.19	51	6.73	7.5	6.5 - 8.5 AO	7.23	513	6.64 - 7.67	52/yr
Tannins and Lignins	mg/L	0.32	2	0.30	0.35	Guideline Archived	0.25	30	<0.07 - 0.37	2/yr
Total Dissolved Solids	mg/L	27.5	12	25.0	30.5	≤500 AO	25.4	235	13.0 - 49.0	12/yr
Total Suspended Solids	mg/L	0.7	12	<0.1	3.0		0.8	235	<0.1 - 7.7	12/yr
Total Solids	mg/L	29.3	12	25.1	33.0		26.4	234	14 - 50	12/yr
Turbidity, Grab Samples	NTU	0.31	245	0.19	0.98	1.0 Operational Guideline	0.38	2,462	0.19 - 2.8	250/yr
Ultraviolet Absorption, 5cm	Abs.@254 nm	0.281	50	0.226	0.332		0.307	514	0.189 - 0.575	52/yr
Ultraviolet Transmittance	%	87.8	239	80.5	90.9		86.4	2,201	75 - 94.4	250/yr
Water Temp., Grab Samples	degrees C	9.6	256	5.6	18.3	≤15 AO	10	2,664	3.0 - 22.0	250/yr
Non-Metallic Inorganic Chemicals (< means less than instrument can detect)										
Ammonia, Total	ug/L as N	5.8	11	0.8	25.5	No Guideline Required	5.94	115	<0.18 - 63.6	12/yr
Bromide	mg/L as Br	0.004	11	0.00006	0.02		0.004	97	<0.0001 - 0.023	12/yr
Bromate	ug/L as BrO ₃	<0.1	2			10 MAC	<0.1	9	<0.03 - <1.5	2/yr
Chloride	mg/L as Cl	2.47	2	1.81	3.13	≤ 250 AO	2.59	20	1.81 - 6.37	2/yr
Cyanide	mg/L as Cn	<0.002	2			0.2 MAC	<0.015	21	<0.002 - <0.015	2/yr
Fluoride	mg/L as F	0.008	2	<0.007	0.01	1.5 MAC	0.008	20	<0.007 - 0.13	2/yr
Nitrate, Dissolved	ug/L as N	19.0	11	3.18	46.0		18.1	116	<2.2 - 97.8	12/yr
Nitrite, Dissolved	ug/L as N	<0.3	11				<0.3	114	<0.16 - 6.85	12/yr
Nitrogen, Total	ug/L as N	90.0	11	67.8	131		89.7	113	17.4 - 304	12/yr
Phosphate, Ortho, Dissolved	ug/L as P	0.72	11	0.2	3.17		0.82	114	<0.10 - 4.41	12/yr
Phosphate, Total, Dissolved	ug/L as P	2.99	10	1.63	4.40		2.8	113	<0.4 - 7.8	12/yr
Phosphate, Total	ug/L as P	4.70	11	3.27	12.6		5.08	115	<0.7 - 13.1	12/yr
Silica	mg/L as SiO ₂	3.76	8	0.09	4.6		3.89	64	0.09 - 6.31	12/yr
Silicon	mg/L as Si	1.92	10	1.53	2.14		1.82	77	1.18 - 22.8	12/yr
Sulphate	mg/L as SO ₄	2.10	11	1.77	3.62	≤ 500 AO	1.61	114	<0.8 - 3.96	12/yr
Sulphide	mg/L as H ₂ S	<0.007	2			≤ 0.05 AO	<0.015	22	0.002 - <0.062	2/yr
Sulphur	mg/L as S	<3.0	10				0.6	92	<0.5 - 3.0	12/yr

mg/L = milligrams per litre
 ug/L = micrograms per litre
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CFU = Colony Forming Units
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Name	Measure	Value	Analyzed	Minimum	Maximum		Median	Analyzed	Minimum-Maximum	Frequency
mg/L = parts per million ug/L = parts per billion ng/L = parts per trillion										
Metallic Inorganic Chemicals (< means less than instrument can detect)										
Aluminum	mg/L as Al	0.017	10	0.009	0.029	0.2 Operational Guideline	0.02	98	<0.008 - 0.17	12/yr
Antimony	mg/L as Sb	<0.0005	10			0.006 MAC	<0.001	99	<0.000005 - <0.06	12/yr
Arsenic	mg/L as As	<0.0001	10	<0.0001	0.0002	0.01 MAC	<0.001	100	0.00003 - <0.06	12/yr
Barium	mg/L as Ba	0.004	10	0.003	0.005	1.0 MAC	0.004	100	<0.002 - 0.04	12/yr
Beryllium	mg/L as Be	<0.0001	10				<0.0002	98	<0.0001 - <0.003	12/yr
Bismuth	mg/L as Bi	<0.001	10				<0.05	90	<0.001 - <0.05	12/yr
Boron	mg/L as B	<0.05	10			5 MAC	0.008	100	<0.004 - 0.33	12/yr
Cadmium	mg/L as Cd	<0.00001	10	<0.00001	0.0002	0.005 MAC	<0.00001	99	<0.00001 - <0.006	12/yr
Calcium	mg/L as Ca	5.02	10	4.30	5.41	No Guideline Required	4.93	100	2.75 - 10.2	12/yr
Cerium	ug/L as Ce	Not analyzed in 2010					0.007	2	0.004 - 0.01	Irregular
Cesium	ug/L as Cs	Not analyzed in 2010					<0.029	2	<0.028 - <0.03	Irregular
Chromium	mg/L as Cr	<0.001	10			0.05 MAC	<0.001	98	<0.0002 - 0.044	12/yr
Cobalt	mg/L as Co	<0.0005	10				<0.0005	99	0.00003 - <0.02	12/yr
Copper	mg/L as Cu	0.002	10	0.0012	0.025	≤ 1.0 AO	0.001	98	<0.0004 - 0.90	12/yr
Dysprosium	ug/L as Dy	Not analyzed in 2010					0.008	2	0.005 - 0.01	Irregular
Erbium	ug/L as Er	Not analyzed in 2010					0.005	2	0.0006 - <0.01	Irregular
Europium	ug/L as Eu	Not analyzed in 2010					<0.001	2	0.00001 - <0.002	Irregular
Gallium	ug/L as Ga	Not analyzed in 2010					<0.05	2		Irregular
Gadolinium	ug/L as Gd	Not analyzed in 2010					<0.002	2		Irregular
Germanium	ug/L as Ge	Not analyzed in 2010					<0.001	2		Irregular
Gold	mg/L as Au	Not analyzed in 2010					<0.04	8	<0.0000001 - <0.04	Irregular
Hafnium	ug/L as Hf	Not analyzed in 2010					<0.005	2		Irregular
Holmium	ug/L as Ho	Not analyzed in 2010					0.002	2	0.0009 - <0.003	Irregular
Iron	mg/L as Fe	0.03	10	0.015	0.056	≤ 0.3 AO	0.04	98	0.015 - 0.17	12/yr
Lanthanum	mg/L as La	Not analyzed in 2010					<0.02	8	0.000003 - <0.02	Irregular
Lead	ug/L as Pb	<0.2	10	<0.2	0.3	10 MAC	<0.5	99	0.02 - <60	12/yr
Lithium	ug/L as Li	<5	10				<5	55	<0.06 - <5	12/yr
Lutetium	ug/L as Lu	Not analyzed in 2010					<0.0006	2		Irregular
Magnesium	mg/L as Mg	1.18	10	1.01	1.27	No Guideline Required	1.17	100	0.58 - 2.22	12/yr
Manganese	mg/L as Mn	0.005	10	0.003	0.013	≤ 0.05 AO	0.007	100	<0.003 - 0.041	12/yr
Mercury, Methyl	ng/L as Hg	Not analyzed in 2010					0.01	57	0.0001 - 0.087	Irregular
Mercury, Total	ng/L as Hg	<20	11	1.03	30	1000 MAC	5	121	<0.05 - 60	12/yr
Molybdenum	mg/L as Mo	<0.001	10				0.005	100	<0.00006 - 0.02	12/yr
Neodymium	ug/L as Nd	Not analyzed in 2010					0.012	2	0.004 - <0.02	Irregular
Nickel	mg/L as Ni	<0.001	10	<0.001	0.003		0.008	100	0.0002 - 0.05	12/yr
Potassium	mg/L as K	0.17	10	0.15	0.23		<1.0	101	0.006 - 1.09	12/yr

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Name	Measure	Value	Analyzed	Minimum	Maximum		Median	Analyzed	Minimum-Maximum	Frequency
mg/L = parts per million ug/L = parts per billion ng/L = parts per trillion										
Praseodymium	ug/L as Pr	Not analyzed in 2010					<0.006	2	<0.002 - <0.01	Irregular
Rubidium	ug/L as Rb	Not analyzed in 2010					0.22	2		Irregular
Samarium	ug/L as Sm	Not analyzed in 2010					0.006	2	0.003 - <0.01	Irregular
Scandium	mg/L as Sc	Not analyzed in 2010					<0.05	8	<0.0009 - <0.05	Irregular
Selenium	mg/L as Se	<0.0001	10			0.01 MAC	<0.001	103	<0.00005 - <0.5	12/yr
Silver	mg/L as Ag	<0.00002	10			No Guideline Required	<0.0001	99	<0.00001 - <0.01	12/yr
Sodium	mg/L as Na	1.66	10	1.46	1.81	≤ 200 AO	1.63	103	<0.05 - 2.6	12/yr
Strontium	mg/L as Sr	0.016	10	0.013	0.018		0.014	100	0.011 - 0.032	12/yr
Tantalum	ug/L as Ta	Not analyzed in 2010					<0.71	2		Irregular
Tellurium (52)	mg/L as Te	Not analyzed in 2010					<0.05	23		Irregular
Thallium	ug/L as Tl	<0.05	10				0.1	92	<0.01 - <30	12/yr
Thorium	ug/L as Th	Not analyzed in 2010					<0.001	2		Irregular
Thulium	ug/L as Tm	Not analyzed in 2010					0.0006	2	0.0001 - <0.001	Irregular
Tin	mg/L as Sn	<0.005	10				<0.02	94	<0.00002 - <0.06	12/yr
Titanium	mg/L as Ti	<0.005	10				<0.003	98	0.0006 - 0.012	12/yr
Tungsten	mg/L as W	Not analyzed in 2010					<0.05	8	0.000005 - <0.07	Irregular
Uranium	ug/L as U	<0.1	10			20 MAC	<0.1	63	<0.005 - <0.1	12/yr
Vanadium	mg/L as V	<0.005	10				<0.005	100	0.00018 - 0.01	12/yr
Ytterbium	ug/L as Yb	Not analyzed in 2010					0.005	2	<0.0004 - <0.01	Irregular
Yttrium	ug/L as Y	Not analyzed in 2010					0.023	2	0.006 - 0.04	Irregular
Zinc	mg/L as Zn	<0.005	10	<0.005	0.01	≤ 5.0 AO	<0.005	100	<0.0005 - 0.046	12/yr
Zirconium	ug/L as Zr	<0.5	10				<5.0	93	0.0004 - <5.0	12/yr
Microbial Parameters (< means less than method or instrument can detect)										
Coliform Bacteria										
Coliforms, Total	Coliforms / 100 mL	20	248	<1	4,838		30	2,483	<1 - 13,900	250/yr
<i>E. coli</i>	<i>E. coli</i> / 100 mL	<1	248	<1	8		<1	1,925	<1 - 165	250/yr
Coliforms, Background	CFU / 100 mL	Discontinued in May, 2008					406	1,826	<1 - 109,278	Discontinued
Heterotrophic /Other Bacteria										
Hetero. Plate Count, 28C (7 day)	CFU / 1 mL	430	246	20	6,060	No Guideline Required	440	2,457	<10 - 6,300	250/yr
Hetero. Plate Count, 35C (2 day)	CFU / 1 mL	Discontinued in 2005				No Guideline Required	43	978	<1 - 1,500	Discontinued
<i>Aeromonas</i> species	CFU / 100 mL	20	245	<0.2	656		91	1,734	<0.2 - 51,000	Special

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PARAMETER		2010 ANALYTICAL RESULTS				CANADIAN GUIDELINES	TEN YEAR RESULTS (2001-2010)			Target
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
mg/L = parts per million ug/L = parts per billion ng/L = parts per trillion										
Cyanobacterial Toxins										
Anatoxin a	ug/L	Not analyzed in 2010					<0.2	6	<0.16 - <1.0	Special
Microcystin-LR	ug/L	<0.22	2			1.5 MAC (Total Microcystins)	<0.22	14	<0.083 - <1.0	Special
Other Microcystins	ug/L	Not analyzed in 2010					<0.16	2		Special
Parasites										
						No MAC Established				
<i>Cryptosporidium</i> , Total oocysts	oocysts/100 L	0	8			Zero detection desirable	0	187	0 - 1.6	8/yr
<i>Cryptosporidium</i> , Viable oocysts	oocysts/100 L	0	8			Zero detection desirable	0	187	0 - 1	8/yr
<i>Giardia</i> , Total cysts	cysts/100 L	0	8			Zero detection desirable	0	187	0 - 1.3	8/yr
<i>Giardia</i> , Viable cysts	cysts/100 L	0	8			Zero detection desirable	0	187		8/yr
Radiological Parameters (< means less than instrument can detect)										
Gross alpha radiation	Bq/L	0.03	2	<0.02	0.03	0.5 (Screening)	<0.02	20	<0.01 - 0.07	2/yr
Gross beta radiation	Bq/L	<0.02	2			1.0 (Screening)	0.02	20	<0.02 - 0.05	2/yr
Organic Parameters (< means less than instrument can detect)										
Pesticides/Herbicides										
1,4-DDD	ug/L	<0.005	2				<0.01	11	<0.005 - <0.01	2/yr
1,4'-DDE	ug/L	<0.005	2				<0.01	20	<0.005 - <0.01	2/yr
1,4'-DDT	ug/L	<0.005	2			Guideline Archived	<0.01	20	<0.005 - <0.01	2/yr
2,4,5-T	ug/L	<1.0	2			Guideline Archived	<0.1	20	<0.1 - <1.0	2/yr
2,4,5-TP (Silvex)	ug/L	<0.8	2	<0.5	<1.0	Guideline Archived	<0.1	20	<0.1 - <1.0	2/yr
2,4-D	ug/L	<1.0	2			100 MAC	<0.4	20	<0.4 - <1.0	2/yr
2,4-D (BEE)	ug/L	<2.0	2				<2.0	2		2/yr
2,4-DB	ug/L	<1.0	2				<1.0	20	<0.5 - <1.0	2/yr
2,4-DP (Dichlorprop)	ug/L	<1.0	2				<1.0	2		2/yr
3-Hydroxy Carbofuran	ug/L	Not analyzed in 2010					<0.2	18		Irregular
4,4'-DDD	ug/L	<0.005	2				<0.03	20	<0.005 - <0.03	2/yr
4,4'-DDE	ug/L	<0.005	2				<0.01	20	<0.005 - <0.01	2/yr
4,4'-DDT	ug/L	<0.005	2			Guideline Archived	<0.01	20	<0.005 - <0.01	2/yr
Alachlor	ug/L	<0.5	1				<0.2	19	<0.2 - <0.5	2/yr
Aldicarb	ug/L	<5.0	2			9.0 MAC	<0.5	20	<0.5 - <5.0	2/yr
Aldicarb Sulfone	ug/L	Not analyzed in 2010					<0.3	18		Irregular
Aldicarb Sulfoxide	ug/L	Not analyzed in 2010					<0.8	18		Irregular
Aldrin	ug/L	<0.005	2			0.7 MAC	<0.01	20	<0.005 - <0.01	2/yr

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Atrazine	ug/L	<0.8	2	<0.5	<1.0	5.0 MAC	<0.1	20	<0.1 - <1.0	2/yr
Azinphos-methyl	ug/L	<2.0	1			20 MAC	<1.0	19	<1.0 - <2.0	2/yr
BHC (alpha)	ug/L	<0.005	2				<0.02	20	<0.005 - <0.02	2/yr
BHC (beta)	ug/L	<0.005	2				<0.03	19	<0.005 - <0.03	2/yr
BHC (delta)	ug/L	<0.005	2				<0.01	20	<0.005 - <0.01	2/yr
Bendiocarb	ug/L	<2.0	2			40 MAC	<0.2	17	<0.2 - <2.0	2/yr
Bromacil	ug/L	Not analyzed in 2010					<0.2	18		Irregular
Bromoxynil	ug/L	<0.5	1			5.0 MAC	<0.02	15	<0.02 - <0.5	2/yr
Butylate	ug/L	Not analyzed in 2010					<0.2	18		Irregular
Carbaryl	ug/L	<5.0	2			90 MAC	<0.2	20	0.2 - <5.0	2/yr
Carbofuran	ug/L	<5.0	2			90 MAC	<0.2	20	<0.2 - <5.0	2/yr
Chlordane (alpha)	ug/L	<0.005	2			Guideline Archived	<0.01	18	<0.005 - <0.01	2/yr
Chlordane (gamma)	ug/L	<0.005	2			Guideline Archived	<0.01	20	<0.005 - <0.01	2/yr
Chlordane (Total)	ug/L	<0.005	2				<0.005	2		2/yr
Chlorfenvinphos	ug/L	Not analyzed in 2010					<0.4	18		Irregular
Chlorpropham	ug/L	Not analyzed in 2010					<1.0	18		Irregular
Chlorpyrifos	ug/L	<1.0	1			90 MAC	<0.02	18	<0.02 - <1.0	2/yr
Cyanazine	ug/L	<1.0	1			10 MAC	<0.4	5	<0.4 - <1.0	2/yr
DDT + Metabolites	ug/L	<0.005	2				<0.005	2		2/yr
Demeton	ug/L	<2.0	2				<0.8	20	<0.8 - <2.0	2/yr
Diazinon	ug/L	<1.5	2	<1.0	<2.0	20 MAC	<0.03	20	<0.03 - <2.0	2/yr
Dicamba	ug/L	<1.0	2			120 MAC	<0.1	20	<0.1 - <1.0	2/yr
Diclofop-methyl	ug/L	<0.9	1			9.0 MAC	<0.5	5	<0.5 - <0.9	2/yr
Dichlorvos	ug/L	<2.0	2				<2.0	2		2/yr
Dieldrin	ug/L	<0.005	2			0.7 MAC	<0.02	20	<0.005 - <0.02	2/yr
Dimethoate	ug/L	<2.5	2	<2.0	<3.0	20 MAC	<0.2	20	<0.2 - <3.0	2/yr
Dinoseb	ug/L	<1.0	1			10 MAC	<0.4	4	<0.4 - <1.0	2/yr
Dioxacarb	ug/L	Not analyzed in 2010					<0.8	18		Irregular
Diquat	ug/L	<7.0	2			70 MAC	<1.0	6	1.0 - <7.0	2/Yr
Disulfoton	ug/L	Not analyzed in 2010					<0.2	18		Irregular
Endosulfan I	ug/L	<0.005	2				<0.01	20	<0.005 - <0.01	2/yr
Endosulfan II	ug/L	<0.005	2				<0.02	20	<0.005 - <0.02	2/yr
Endosulfan Sulphate	ug/L	<0.005	2				<0.02	20	<0.005 - <0.02	2/yr
Endosulfan (Total)	ug/L	<0.005	2				<0.005	2		2/yr
Endrin	ug/L	<0.005	2			Guideline Archived	<0.02	20	<0.005 - <0.02	2/yr
Endrin Aldehyde	ug/L	<0.005	2				<0.05	20	<0.005 - <0.05	2/yr
Ethion	ug/L	<1.0	1				<0.3	19	<0.3 - <1.0	2/yr
Ethyl Parathion	ug/L	<1.5	2	<1.0	<2.0		<1.5	2	<1.0 - <2.0	2/yr
Fenchlorophos (Ronnell)	ug/L	<2.0	2				<2.0	2		2/yr
Fenitrothion	ug/L	Not analyzed in 2010					<0.5	18		Irregular

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PARAMETER		2010 ANALYTICAL RESULTS				CANADIAN GUIDELINES	TEN YEAR RESULTS (2001-2010)			Target
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
mg/L = parts per million ug/L = parts per billion ng/L = parts per trillion										
Fenthion	ug/L	<1.0	1				<0.6	19	<0.6 - <1.0	2/yr
Fonofos	ug/L	<2.0	2				<0.2	20	<0.2 - <2.0	2/yr
Glyphosate	ug/L	<10	2			280 MAC	<5.5	20	<0.002 - <35	2/yr
Heptachlor	ug/L	<0.005	2			Guideline Archived	<0.02	20	<0.005 - <0.02	2/yr
Heptachlor Epoxide	ug/L	<0.005	2			Guideline Archived	<0.01	20	<0.005 - <0.01	2/yr
Hexazinone	ug/L	Not analyzed in 2010					<0.8	18		Irregular
Isofenphos	ug/L	Not analyzed in 2010					<0.4	18		Irregular
Lindane (BHC-gamma)	ug/L	<0.003	2			Guideline Archived	<0.01	20	<0.003 - <0.01	2/yr
Malathion	ug/L	<3.5	2	<2.0	<5.0	190 MAC	<0.2	20	<0.2 - <5.0	2/yr
MCPA	ug/L	<2.0	2			100 MAC	<2.0	20	<0.1 - <50	2/yr
MCPD	ug/L	<2.0	2				<2.0	20	<0.1 - <100	2/yr
Methidathion	ug/L	Not analyzed in 2010					<0.3	18		Irregular
Methiocarb	ug/L	Not analyzed in 2010					<0.3	18		Irregular
Methomyl	ug/L	Not analyzed in 2010					<0.3	18		Irregular
Methoxychlor	ug/L	<0.01	2			900 MAC	<0.04	20	<0.01 - <2.0	2/yr
Methyl-Parathion	ug/L	<1.0	1			Guideline Archived	<0.2	19	<0.2 - <1.0	2/yr
Metolachlor	ug/L	<2.8	2	<0.5	<5.0	50 MAC	<0.8	20	<0.5 - <5.0	2/yr
Metribuzin	ug/L	<5.0	1			80 MAC	<0.2	5	<0.2 - <5.0	2/yr
Mevinphos	ug/L	<2.0	2				<0.4	20	<0.4 - <2.0	2/yr
Mirex	ug/L	<0.005	2			Guideline Archived	<0.005	2		2/yr
Monocrotophos	ug/L	Not analyzed in 2010					<1.0	18		Irregular
Nitilotriacetic acid (NTA)	mg/L	<0.05	2			0.4 MAC	<0.4	6	<0.05 - <0.4	2/yr
Oxamyl	ug/L	Not analyzed in 2010					<0.3	18		Irregular
Parathion	ug/L	Not analyzed in 2010					<0.2	18		Irregular
Paraquat	ug/L	<1.0	2			10 MAC	<1.0	6		2/yr
Phorate	ug/L	<1.0	1			2.0 MAC	<0.2	19	<0.2 - <1.0	2/yr
Phosalone	ug/L	Not analyzed in 2010					<1.0	18		Irregular
Phosmet	ug/L	<2.0	2				<5.0	20	<2.0 - <5.0	2/yr
Picloram	ug/L	<5.0	2			190 MAC	<0.1	20	<0.1 - <5.0	2/yr
Promecarb	ug/L	Not analyzed in 2010					<0.2	18		Irregular
Prometryne	ug/L	<1.0	1				<1.0	1		2/yr
Propazine	ug/L	Not analyzed in 2010					<0.1	18		Irregular
Propoxur	ug/L	Not analyzed in 2010					<0.2	18		Irregular
Simazine	ug/L	<2.0	1			10 MAC	<0.1	19	<0.1 - <2.0	2/yr
Temephos	ug/L	<10	1			Guideline Archived	<10	2		2/yr
Terbufos	ug/L	<1.0	1			1.0 MAC	<0.5	19	<0.5 - <1.0	2/yr
Tetrachlovinphos	ug/L	Not analyzed in 2010					<0.2	18		Irregular
Toxaphene	ug/L	<0.2	2			Guideline Archived	<0.08	20	<0.08 - <3.0	2/yr
Trichlopyr	ug/L	Not analyzed in 2010					<0.05	1		Irregular
Trifluralin	ug/L	<3.0	2	<1.0	<5.0	45 MAC	<0.03	5	<0.03 - <5.0	2/Yyr

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CFU = Colony Forming Units
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PARAMETER		2010 ANALYTICAL RESULTS				CANADIAN GUIDELINES	TEN YEAR RESULTS (2001-2010)			Target
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
mg/L = parts per million ug/L = parts per billion ng/L = parts per trillion										
Polycyclic Aromatic Hydrocarbons (PAH's)										
Acenaphthene	ug/L	<0.2	2			Guideline Archived	<0.4	20	<0.2 - <0.4	2/yr
Acenaphthylene	ug/L	<0.2	2			Guideline Archived	<0.7	20	<0.2 - <0.7	2/yr
Acridine	ug/L	Not analyzed in 2010				Guideline Archived	<0.3	18		Irregular
Anthracene	ug/L	<0.1	2			Guideline Archived	<0.2	20	<0.1 - <0.2	2/yr
Benzo(a)anthracene	ug/L	<0.1	2			Guideline Archived	<0.3	20	<0.1 - <0.3	2/yr
Benzo(a)pyrene	ug/L	<0.009	1			0.01 MAC	<0.01	19	<0.009 - <0.5	2/yr
Benzo(b)fluoranthene	ug/L	<0.2	2			Guideline Archived	<0.6	20	<0.2 - <0.6	2/yr
Benzo(g,h,i)perylene	ug/L	<0.2	2			Guideline Archived	<0.5	20	<0.2 - <0.5	2/yr
Benzo(k)fluoranthene	ug/L	<0.2	2			Guideline Archived	<0.5	20	<0.2 - <0.5	2/yr
Chrysene	ug/L	<0.25	2	<0.2	<0.3	Guideline Archived	<0.4	20	<0.2 - <0.4	2/yr
Dibenz(a,h)anthracene	ug/L	<0.2	2			Guideline Archived	<0.3	20	<0.2 - <0.3	2/yr
Fluoranthene	ug/L	<0.1	2			Guideline Archived	<0.3	20	<0.1 - <0.3	2/yr
Fluorene	ug/L	<0.2	2			Guideline Archived	<0.4	20	<0.2 - <0.4	2/yr
Indeno(1,2,3-c,d)pyrene	ug/L	<0.3	2			Guideline Archived	<0.5	20	<0.3 - <0.5	2/yr
Naphthalene	ug/L	<3.0	2			Guideline Archived	<0.6	20	<0.6 - <3.0	2/yr
Phenanthrene	ug/L	<0.2	2			Guideline Archived	<0.3	20	<0.2 - <0.3	2/yr
Pyrene	ug/L	<0.2	2			Guideline Archived	<0.2	20		2/yr
Volatile Hydrocarbons	ug/L	<300	2				<300	2		2/yr
Phenols										
2,3,4,5-Tetrachlorophenol	ug/L	Not analyzed in 2010					<0.05	18		Irregular
2,3,4,6-Tetrachlorophenol	ug/L	<0.5	1			100 MAC and ≤ 1.0 AO	<0.05	19	<0.05 - <0.5	2/yr
2,3,5,6-Tetrachlorophenol	ug/L	<0.05	1				<0.05	3		Irregular
2,3,4-Trichlorophenol	ug/L	Not analyzed in 2010					<0.1	18		Irregular
2,3,5-Trichlorophenol	ug/L	Not analyzed in 2010					<0.1	18		Irregular
2,3,6-Trichlorophenol	ug/L	Not analyzed in 2010					<0.1	18		Irregular
2,3-Dichlorophenol	ug/L	Not analyzed in 2010					<1.0	18	<0.1 - <1.0	Irregular
2,4,5-Trichlorophenol	ug/L	Not analyzed in 2010					<0.1	18		Irregular
2,4,6-Trichlorophenol	ug/L	<0.5	1			5.0 MAC and ≤ 2.0 AO	<0.1	19	<0.1 - <0.5	2/yr
2,4-Dichlorophenol	ug/L	<0.5	2			900 MAC and ≤ 0.3 AO	<1.0	20	<0.1 - <1.0	2/yr
2,4-Dimethylphenol	ug/L	<3.0	2				<2	20	<0.5 - <3.0	2/yr
2,4-Dinitrophenol	ug/L	<7.0	2				<10	20	<0.5 - <10	2/yr
2,5-Dichlorophenol	ug/L	<0.5	2				<0.75	20	<0.1 - <1.0	2/yr
2,6-Dichlorophenol	ug/L	Not analyzed in 2010					<1.0	18	<0.1 - <1.0	Irregular
2-Chlorophenol	ug/L	<0.5	2				<0.75	20	<0.1 - <1.0	2/yr
2-Methylphenol	ug/L	Not analyzed in 2010					<2.0	18	<0.5 - <2.0	Irregular

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PARAMETER		2010 ANALYTICAL RESULTS				CANADIAN GUIDELINES	TEN YEAR RESULTS (2001-2010)			Target
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
mg/L = parts per million ug/L = parts per billion ng/L = parts per trillion										
2-Nitrophenol	ug/L	<3.0	2				<2.0	20	<0.5 - <3.0	2/yr
3,4,5-Trichlorophenol	ug/L	Not analyzed in 2010					<0.1	18		Irregular
3,4-Dichlorophenol	ug/L	Not analyzed in 2010					<1.0	18	<0.1 - <1.0	Irregular
3,5-Dichlorophenol	ug/L	Not analyzed in 2010					<1.0	18	<0.1 - <1.0	Irregular
3-Chlorophenol	ug/L	Not analyzed in 2010					<1.0	18	<0.1 - <1.0	Irregular
3-Methylphenol	ug/L	Not analyzed in 2010					<0.5	4		Irregular
4,6-Dinitro-2-methylphenol	ug/L	<3.0	2				<10	20	<0.5 - <10	2/yr
4-Chloro-3-Methylphenol	ug/L	<1.0	2				<1.0	8		2/yr
4-Chlorophenol	ug/L	Not analyzed in 2010					<1.0	17	<0.1 - <1.0	Irregular
4-Methylphenol	ug/L	Not analyzed in 2010					<3.0	18	<0.5 - <3.0	Irregular
4-Nitrophenol	ug/L	<3.0	2				<2.0	20	<0.5 - <3.0	2/yr
Alpha-Terpineol	ug/L	<5.0	2				<5.0	2		2/yr
Pentachlorophenol	ug/L	Not analyzed in 2010				60 MAC and ≤ 30 AO	<0.05	18		Irregular
Phenol	ug/L	2	2	<1.0	<3		<1.0	20	<0.5 - <3.0	2/yr
Total Phenolics	mg/L	Not analyzed in 2010				Guideline Archived	<0.001	18	<0.001 - 0.004	Irregular
Total Trichlorophenols	ug/L	Not analyzed in 2010					<0.1	17	<0.05 - <0.1	Irregular
Total Tetrachlorophenols	ug/L	Not analyzed in 2010					<0.05	18		Irregular
Total Chlorinated Phenols	ug/L	Not analyzed in 2010					<0.05	18	<0.05 - <0.1	Irregular
Polychlorinated Biphenyls (PCBs)										
PCB-1016	ug/L	<0.05	2			Guideline Archived	<0.05	2		Irregular
PCB-1221	ug/L	<0.05	2			Guideline Archived	<0.05	2		Irregular
PCB-1232	ug/L	<0.05	2			Guideline Archived	<0.05	2		Irregular
PCB-1242	ug/L	<0.05	2			Guideline Archived	<0.05	2		Irregular
PCB-1248	ug/L	<0.05	2			Guideline Archived	<0.05	2		Irregular
PCB-1254	ug/L	<0.05	2			Guideline Archived	<0.05	2		Irregular
PCB-1260	ug/L	<0.05	2			Guideline Archived	<0.05	2		Irregular
PCB-1262	ug/L	<0.05	1			Guideline Archived	<0.05	1		Irregular
PCB-1268	ug/L	<0.05	1			Guideline Archived	<0.05	1		Irregular
Total PCBs	ug/L	<0.05	2			Guideline Archived	<0.05	2		Irregular
Other Synthetic Chemicals										
1,1,1-Trichloroethane	ug/L	<0.5	2				<0.1	20	<0.1 - <0.5	2/yr
1,1,1,2-Tetrachloroethane	ug/L	<0.5	2				<0.5	2		2/yr
1,1,2,2-Tetrachloroethane	ug/L	<0.5	2				<0.2	20	<0.2 - <0.5	2/yr
1,1,2-Trichloroethane	ug/L	<0.5	2				<0.1	20	<0.1 - <0.5	2/yr
1,1-Dichloroethane	ug/L	<0.5	2				<0.1	20	<0.1 - <0.5	2/yr
1,1-Dichloroethylene	ug/L	<0.5	2			14 MAC	<0.1	19	<0.1 - <0.5	2/yr

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PARAMETER		2010 ANALYTICAL RESULTS				CANADIAN GUIDELINES	TEN YEAR RESULTS (2001-2010)			Target
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
mg/L = parts per million ug/L = parts per billion ng/L = parts per trillion										
1,2,4-Trichlorobenzene	ug/L	<0.5	2				<0.5	20	<0.2 - <0.5	2/yr
1,2-Dibromoethane	ug/L	Not analyzed in 2010					<0.1	18	<0.005 - <0.1	Irregular
1,2-Dichlorobenzene	ug/L	<0.5	2			200 MAC and ≤ 3.0 AO	<0.1	20	<0.1 - <0.5	2/yr
1,2-Dichloroethane	ug/L	<0.5	2			5.0 MAC	<0.4	20	<0.005 - <0.5	2/yr
1,2-Dichloroethylene (cis)	ug/L	<1.0	2				<0.1	20	<0.1 - <1.0	2/yr
1,2-Dichloroethylene (trans)	ug/L	<1.0	2				<0.1	20	<0.1 - <1.0	2/yr
1,2-Dichloropropane	ug/L	<0.5	2				<0.1	20	<0.1 - <0.5	2/yr
1,2-Diphenylhydrazine	ug/L	<0.05	2				<0.05	2		2/yr
1,3-Dichlorobenzene	ug/L	<0.5	2				<0.1	20	<0.1 - <0.5	2/yr
1,3-Dichloropropene (cis)	ug/L	<1.0	2				<0.1	20	<0.1 - <1.0	2/yr
1,3-Dichloropropene (trans)	ug/L	<1.0	2				<0.1	20	<0.1 - <1.0	2/yr
1,4-Dichlorobenzene	ug/L	<0.5	2			5.0 MAC and ≤ 1.0 AO	<0.1	20	<0.1 - <0.5	2/yr
2,4-Dinitrotoluene	ug/L	<0.3	2				<0.7	20	<0.3 - <0.7	2/yr
2,6-Dinitrotoluene	ug/L	<0.3	2				<2.0	20	<0.3 - <2.0	2/yr
2-Butanone	ug/L	Not analyzed in 2010					<5.0	18		Irregular
2-Chloronaphthalene	ug/L	<0.3	2				<0.7	20	<0.3 - <0.7	2/yr
2-Hexanone	ug/L	Not analyzed in 2010					<5.0	18	<5.0 - <20	Irregular
2-Methylnaphthalene	ug/L	<0.2	2				<3.0	20	<0.2 - <3.0	2/yr
2-Nitroaniline	ug/L	Not analyzed in 2010					<4.0	18	<4.0 - <5.0	Irregular
3,3'-Dichlorobenzidine	ug/L	<0.5	2				<3.0	20	<0.5 - <3.0	2/yr
3-Nitroaniline	ug/L	Not analyzed in 2010					<3.0	18		Irregular
4-Bromophenyl-phenylether	ug/L	<0.05	2				<0.3	20	<0.05 - <0.3	2/yr
4-Chloroaniline	ug/L	Not analyzed in 2010					<5.0	18		Irregular
4-Chlorophenyl-phenylether	ug/L	<0.3	2				<0.4	20	<0.3 - <0.4	2/yr
4-Methyl-2-pentanone	ug/L	Not analyzed in 2010					<2.0	18		Irregular
4-Nitroaniline	ug/L	Not analyzed in 2010					<4.0	18		Irregular
Aminomethylphosphonic Acid (AMPA)	ug/L	Not analyzed in 2010					<22.5	16	<1.0 - <35	Irregular
Aniline	ug/L	Not analyzed in 2010					<5.0	18		Irregular
Atrazine + Desethyl Atrazine	ug/L	<1.0	1				<1.0	1		2/yr
Azobenzene	ug/L	Not analyzed in 2010					<0.6	18		Irregular
Benzene	ug/L	<0.5	2			5.0 MAC	<0.1	21	<0.01 - <0.5	2/yr
Benzyl Alcohol	ug/L	Not analyzed in 2010					<3.0	18		Irregular
Benzidine	ug/L	<50	2				<50	2		Irregular
Bis (-2-chloroethoxy) methane	ug/L	<0.3	2				<0.6	20	<0.3 - <0.6	2/yr
Bis (-2-chloroethyl) ether	ug/L	<0.3	2				<0.6	20	<0.3 - <0.6	2/yr
Bis (2-chloroisopropyl) ether	ug/L	<0.3	2				<0.5	20	<0.3 - <0.5	2/yr
Bis (2-ethylhexyl) phthalate	ug/L	<5.0	2				<8.0	22	<0.3 - 31	2/yr
Bisphenol A (BPA)	ug/L	Not analyzed in 2010					<0.1	1		Irregular
Bromomethane	ug/L	<1.0	2				<0.8	20	<0.8 - <1.0	2/yr
Butylbenzyl phthalate	ug/L	<3.0	2				<9.0	20	<3.0 - <9.0	2/yr
Carbon Tetrachloride	ug/L	<1.0	2			5.0 MAC	<0.1	20	<0.1 - <1.0	2/yr
Chloroethane	ug/L	<1.0	2				<0.4	20	<0.4 - <1.0	2/yr

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Name	Measure	Value	Analyzed	Minimum	Maximum		Median	Analyzed	Minimum-Maximum	Frequency
mg/L = parts per million ug/L = parts per billion ng/L = parts per trillion										
Chloromethane	ug/L	<1.0	2				<0.4	19	<0.4 - <1.0	2/yr
Des-ethyl Atrazine	ug/L	<0.5	1				<0.5	1		2/yr
Dibenzofuran	ug/L	Not analyzed in 2010					<2.0	18		Irregular
Dibromochloromethane	ug/L	<1.0	2				<0.1	20	<0.1 - <1.0	2/yr
Dibromoethane	ug/L	<0.2	2				<0.2	2		2/yr
Dibromomethane	ug/L	Not analyzed in 2010					<0.2	18		Irregular
Dichlorodifluoromethane	ug/L	<2.0	2				<0.2	20	<0.2 - <2.0	2/yr
Dichloromethane	ug/L	<2.0	2			50 MAC	<2.0	2		2/yr
Diethyl phthalate	ug/L	<0.3	2				<0.3	20		2/yr
Dimethyl phthalate	ug/L	<0.3	2				<0.6	20	<0.3 - <0.6	2/yr
Di-n-butyl phthalate	ug/L	<3.0	2				<30	20	<3.0 - <30	2/yr
Di-n-ocyl phthalate	ug/L	<0.3	2				<0.8	20	<0.3 - <0.8	2/yr
Diuron	ug/L	<10	1			150 MAC	<0.5	17	<0.5 - <10	2/yr
Ethylbenzene	ug/L	<0.5	2			≤ 2.4 AO	<0.1	21	<0.01 - <0.5	2/yr
Formaldehyde	mg/L	0.01	2	<0.01	0.011	No Guideline Required	<0.1	18	<0.01 - <0.1	2/yr
Hexachlorobenzene	ug/L	<0.005	2				<0.4	20	<0.005 - <0.4	2/yr
Hexachlorobutadiene	ug/L	<0.009	2				<2.0	20	<0.009 - <2.0	2/yr
Hexachlorocyclopentadiene	ug/L	<0.02	2				<5.0	20	<0.02 - <5.0	2/yr
Hexachloroethane	ug/L	<0.01	2				<2.0	20	<0.01 - <2.0	2/yr
Isophorone	ug/L	<0.3	2				<1.0	20	<0.3 - <1.0	2/yr
Methylene Chloride	ug/L	Not analyzed in 2010				15 MAC	<6.0	18		Irregular
Methyl-tert-butyl-ether (MTBE)	ug/L	<4.0	2			15 AO	<0.5	12	<0.5 - <4.0	Irregular
Monochlorobenzene	ug/L	<0.5	2			80 MAC and ≤ 30 AO	<0.1	20	<0.1 - <0.5	2/yr
N-nitrosodimethylamine (NDMA)	ug/L	Not analyzed in 2010					<0.002	2	<0.002 - 0.002	Irregular
Nitrobenzene	ug/L	<0.3	2				<0.9	20	<0.3 - <1.0	2/yr
N-nitroso-di-n-propylamine	ug/L	<1.0	2				<8.0	20	<1.0 - <8.0	2/yr
N-nitrosodiphenylamine	ug/L	<1.0	2				<0.3	20	<0.3 - <1.0	2/yr
Octachlorostyrene	ug/L	<0.005	2				<0.005	2		2/yr
Styrene	ug/L	<0.5	2				<0.1	20	<0.1 - <0.5	2/yr
Tetrachloroethylene	ug/L	<0.5	2			30 MAC	<0.1	20	<0.1 - <0.5	2/yr
Toluene	ug/L	<0.5	2			≤ 24 AO	<0.1	21	<0.01 - <0.5	2/yr
Triallate	ug/L	<3.0	2	<1.0	<5.0	Guideline Archived	<3.0	2	<1.0 - <5.0	2/yr
Trichloroethylene	ug/L	<0.5	2			5.0 MAC	<0.1	20	<0.1 - <0.5	2/yr
Trichlorofluoromethane	ug/L	<4.0	2				<0.2	20	<0.2 - <4.0	2/yr
Trichlorotrifluoroethane	ug/L	<2.0	2				<2.0	2		2/yr
Vinyl Chloride	ug/L	<0.5	2			2.0 MAC	<0.2	20	<0.2 - <0.5	2/yr
o-Xylene	ug/L	<0.5	2				<0.5	3	<0.01 - <0.5	Irregular
m&p-Xylene	ug/L	<1.0	2				<1.0	3	<0.01 - <1.0	Irregular
Xylenes (Total)	ug/L	<1.0	2			≤ 300 AO	<0.1	20	<0.1 - <1.0	2/yr

mg/L = milligrams per litre
ug/L = micrograms per litre
ng/L = nanograms per litre

CFU = Colony Forming Units
NTU = Nephelometric Units
TCU = True Colour

AO = Aesthetic Objective
MAC = Max. Acceptable Conc.
Median = middle point of all values