

**City Of Winnipeg  
Water Waste Department**

**South End Water Pollution Control Centre Quarterly Monitoring Report**

1'st Quarter Sampling Parameter	February 27, 2008			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Miscellaneous					
Chromium, Hexavalent	mg/L	0.001	0.001	<0.001	<0.001
Mercury (Hg)-Total	ng/L	0.5	0.5	<0.5	12
Toxaphene	mg/L	0.0001	0.0001	<0.0001	<0.0001
Phenols (4AAP)	mg/L	0.001	0.001	0.081	0.009
Tributyltin	ug/L	0.05	0.05	<0.050	<0.050
Tetraethyl Lead	ug/L	0.05	0.05	<0.050	<0.050
Total Oil and Grease	mg/L	1	1	61	<1
Trout Bioassay	Pass/Fail			NA	Fail
Total Metals*					
Arsenic, Total	mg/L	0.001	0.001	0.001	<0.001
Cadmium, Total	mg/L	0.001	0.001	<0.001	<0.001
Chromium, Total	mg/L	0.001	0.001	0.007	0.002
Copper, Total	mg/L	0.001	0.001	0.166	0.031
Molybdenum, Total	mg/L	NA	NA	NA	NA
Nickel, Total	mg/L	0.001	0.001	0.017	0.010
Lead, Total	mg/L	0.001	0.001	0.005	<0.001
Selenium, Total	mg/L	NA	NA	NA	NA
Zinc, Total	mg/L	0.003	0.003	0.122	0.046
Dioxins and Furans					
2378 TeCDD	pg/L	1	0.9	<1.0	<0.90
12378 PeCDD	pg/L	0.7	0.8	<0.70	<0.80
123478 HxCDD	pg/L	0.4	0.4	<0.40	<0.40
123678 HxCDD	pg/L	0.5	0.5	<0.50	<0.50
123789 HxCDD	pg/L	0.5	0.5	<0.50	<0.50
1234678 HpCDD	pg/L	0.8	0.6	10	<0.60
OCDD	pg/L	2	1	81	16
Total TCDD	pg/L	1	0.9	<1.0	9.0
Total PeCDD	pg/L	0.7	0.8	<0.70	<0.80
Total HxCDD	pg/L	0.5	0.5	<0.50	<0.50
Total HpCDD	pg/L	0.8	0.6	20	2.2
Total PCDDs	pg/L	2	1	100	27
2378 TeCDF	pg/L	0.8	0.5	<0.80	<0.50
12378 PeCDF	pg/L	0.5	0.4	<0.50	<0.40
23478 PeCDF	pg/L	0.4	0.3	<0.40	<0.30
123478 HxCDF	pg/L	0.2	0.2	<0.20	<0.20
123678 HxCDF	pg/L	0.2	0.2	<0.20	<0.20
123789 HxCDF	pg/L	0.3	0.2	<0.30	<0.20
234678 HxCDF	pg/L	0.2	0.2	<0.20	<0.20
1234678 HpCDF	pg/L	0.6	0.7	2.5	<0.70
1234789 HpCDF	pg/L	0.8	1	<0.80	<1.0
OCDF	pg/L	0.8	1	7.5	<1.0
Total TCDF	pg/L	0.8	0.5	<0.80	<0.50
Total PeCDF	pg/L	0.5	0.4	<0.50	<0.40
Total HxCDF	pg/L	0.3	0	<0.30	<0.20
Total HpCDF	pg/L	0.8	1	2.5	<1.0

# City Of Winnipeg Water Waste Department

## South End Water Pollution Control Centre Quarterly Monitoring Report

1'st Quarter Sampling	February 27, 2008			SEWPCC	
Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Total PCDFs	pg/L	0.8	1	10	<1.0
Total TEQ (ND=0) (WHO Calc)	pg/L			0.15	0
Total TEQ (ND=0.5DL) (WHO Calc)	pg/L			1.27	1.08
Total TEQ (ND=DL) (WHO Calc)	pg/L			2.39	2.17
13C12 2378 TeCDD	%			36	43
13C12 12378 PeCDD	%			48	44
13C12 123478 HxCDD	%			64	54
13C12 123678 HxCDD	%			57	47
13C12 1234678 HpCDD	%			66	47
13C12 OCDD	%			53	37
13C12 2378 TeCDF	%			41	58
13C12 12378 PeCDF	%			53	53
13C12 23478 PeCDF	%			54	58
13C12 123478 HxCDF	%			65	54
13C12 123678 HxCDF	%			67	56
13C12 234678 HxCDF	%			69	60
13C12 123789 HxCDF	%			70	60
13C12 1234678 HpCDF	%			70	52
13C12 1234789 HpCDF	%			69	52
37C14 2378 TeCDD	%			42	49
EPA 8270 Extractables					
1,2,3-Trichlorobenzene	ug/L	4	0.4	<4	<0.4
1,2,4-Trichlorobenzene	ug/L	4	0.4	<4	<0.4
1,2-Dichlorobenzene	ug/L	4	0.4	<4	<0.4
4-Chloroaniline	ug/L	4	0.4	<4	<0.4
1,3-Dichlorobenzene	ug/L	4	0.4	<4	<0.4
1,4-Dichlorobenzene	ug/L	4	0.4	<4	0.4
1-Chloronaphthalene	ug/L	4	0.4	<4	<0.4
1-Methylnaphthalene	ug/L	4	0.4	<4	<0.4
2,3,4,5-Tetrachlorophenol	ug/L	5	0.5	<5	<0.5
2,3,4,6-Tetrachlorophenol	ug/L	5	0.5	<5	<0.5
2,3,4-Trichlorophenol	ug/L	5	0.5	<5	<0.5
2,3,5,6-Tetrachlorophenol	ug/L	5	0.5	<5	<0.5
2,3,5-Trichlorophenol	ug/L	5	0.5	<5	<0.5
2,4,5-Trichlorophenol	ug/L	5	0.5	<5	<0.5
2,4,6-Trichlorophenol	ug/L	5	0.5	<5	<0.5
2,4-Dichlorophenol	ug/L	3	0.3	<3	<0.3
2,4-Dimethylphenol	ug/L	5	0.5	<5	0.6
2,4-Dinitrophenol	ug/L	10	1	<10	<1
2,4-Dinitrotoluene	ug/L	4	0.4	<4	<0.4
2,6-Dichlorophenol	ug/L	5	0.5	<5	<0.5
2,6-Dinitrotoluene	ug/L	4	0.4	<4	<0.4
2-Chloronaphthalene	ug/L	4	0.4	<4	<0.4
2-Chlorophenol	ug/L	3	0.3	<3	<0.3
2-Methylnaphthalene	ug/L	4	0.4	27	<0.4
2-Methylphenol	ug/L	5	0.5	<5	<0.5
2-Nitrophenol	ug/L	5	0.5	<5	<0.5

**City Of Winnipeg  
Water Waste Department**

**South End Water Pollution Control Centre Quarterly Monitoring Report**

1'st Quarter Sampling	February 27, 2008			SEWPCC	
	Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab
3,3'-Dichlorobenzidine	ug/L	4	0.4	<4	<0.4
3&4-Methylphenol	ug/L	5	0.5	106	<0.5
4,6-Dinitro-2-methylphenol	ug/L	20	2	<20	<2
4-Bromophenyl phenyl ether	ug/L	4	0.4	<4	<0.4
4-Chloro-3-methylphenol	ug/L	5	0.5	<5	<0.5
4-Chlorophenyl phenyl ether	ug/L	4	0.4	<4	<0.4
4-Nitrophenol	ug/L	5	0.5	<5	<0.5
5-Nitroacenaphthene	ug/L	4	0.4	<4	<0.4
Acenaphthene	ug/L	2	0.2	<2	<0.2
Acenaphthylene	ug/L	2	0.2	<2	<0.2
Anthracene	ug/L	2	0.2	<2	<0.2
Benzo(a)anthracene	ug/L	2	0.2	<2	<0.2
Benzo(a)pyrene	ug/L	0.5	0.05	<0.5	<0.05
Benzo(b)fluoranthene	ug/L	2	0.2	<2	<0.2
Benzo(ghi)perylene	ug/L	2	0.2	<2	<0.2
Benzo(k)fluoranthene	ug/L	2	0.2	<2	<0.2
Biphenyl	ug/L	4	0.4	<4	<0.4
Bis(2-chloroethoxy)methane	ug/L	4	0.4	<4	<0.4
Bis(2-chloroethyl)ether	ug/L	4	0.4	<4	<0.4
Bis(2-chloroisopropyl)ether	ug/L	4	0.4	<4	<0.4
Bis(2-ethylhexyl)phthalate	ug/L	20	2	<20	<2
Butylbenzyl phthalate	ug/L	4	0.4	<4	<0.4
Camphene	ug/L	4	0.4	<4	<0.4
Chrysene	ug/L	2	0.2	<2	<0.2
Dibenzo(a,h)anthracene	ug/L	2	0.2	<2	<0.2
Dibenzofuran	ug/L	2	0.2	<2	<0.2
Diethylphthalate	ug/L	2	0.2	5	<0.2
Dimethylphthalate	ug/L	2	0.2	<2	<0.2
Di-n-butylphthalate	ug/L	20	2	<20	<2
Di-n-octylphthalate	ug/L	4	0.4	<4	<0.4
Diphenyl ether	ug/L	4	0.4	<4	<0.4
Diphenylamine	ug/L	4	0.4	<4	<0.4
Fluoranthene	ug/L	2	0.2	<2	<0.2
Fluorene	ug/L	2	0.2	<2	<0.2
Hexachlorobenzene	ug/L	0.4	0.04	<0.4	<0.04
Hexachlorobutadiene	ug/L	2	0.2	<2	<0.2
Hexachlorocyclopentadiene	ug/L	4	0.4	<4	<0.4
Hexachloroethane	ug/L	4	0.4	<4	<0.4
Indeno(1,2,3-cd)pyrene	ug/L	2	0.2	<2	<0.2
Indole	ug/L	4	0.4	<4	<0.4
Isophorone	ug/L	4	0.4	<4	<0.4
Naphthalene	ug/L	2	0.4	<2	<0.4
Nitrobenzene	ug/L	4	0.2	<4	<0.2
N-Nitroso-di-n-propylamine	ug/L	4	0.4	<4	<0.4
Pentachlorophenol	ug/L	5	0.5	<5	<0.5
Perylene	ug/L	2	0.2	<2	<0.2
Phenanthrene	ug/L	2	0.2	<2	<0.2
Phenol	ug/L	5	0.5	25	<0.5
Pyrene	ug/L	2	0.2	<2	<0.2

**City Of Winnipeg  
Water Waste Department**

**South End Water Pollution Control Centre Quarterly Monitoring Report**

1'st Quarter Sampling Parameter	February 27, 2008			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Nitrobenzene d5	%			118	109
2-Fluorobiphenyl	%			84	84
p-Terphenyl d14	%			55	98
Phenol d5	%			2	27
2,4,6-Tribromophenol	%			85	152
Cresols (total)	ug/L	10	1	110	<1
<b>Low Level Nonylphenols and Ethoxylates</b>					
Nonylphenols	ug/L	0.1	0.1	4.7	1.6
Nonylphenol Monoethoxylates	ug/L	0.5	0.5	17.7	1.5
Nonylphenol Diethoxylates	ug/L	1.2	1.2	<1.2	<1.2
Nonylphenol Triethoxylates	ug/L	2	2	<2	<2
t-Octylphenol	ug/L	0.02	0.02	1.02	0.45
t-Octylphenol Monoethoxylate	ug/L	0.1	0.1	1.7	0.6
t-Octylphenol Diethoxylate	ug/L	0.2	0.2	0.6	9.9
t-Octylphenol Triethoxylate	ug/L	0.5	0.5	<0.5	3.1
TOTAL TEQ (CCME)	ug/L			15.8	9.64
<b>PCB</b>					
Aroclor 1016	mg/L	0.00005	0.00005	<0.00005	<0.00005
Aroclor 1221	mg/L	0.00005	0.00005	<0.00005	<0.00005
Aroclor 1232	mg/L	0.00005	0.00005	<0.00005	<0.00005
Aroclor 1242	mg/L	0.00005	0.00005	<0.00005	<0.00005
Aroclor 1248	mg/L	0.00005	0.00005	<0.00005	<0.00005
Aroclor 1254	mg/L	0.00005	0.00005	<0.00005	<0.00005
Aroclor 1260	mg/L	0.00005	0.00005	<0.00005	<0.00005
Aroclor 1262	mg/L	0.00005	0.00005	<0.00005	<0.00005
Aroclor 1268	mg/L	0.00005	0.00005	<0.00005	<0.00005
Total PCBs	mg/L	0.00005	0.00005	<0.00005	<0.00005
Decachlorobiphenyl	%			86	90
<b>Pesticides, Organochlorine</b>					
op-DDT	ug/L	1	0.1	<1	<0.1
pp-DDD	ug/L	1	0.1	<1	<0.1
pp-DDE	ug/L	1	0.1	<1	<0.1
pp-DDT	ug/L	1	0.1	<1	<0.1
Heptachlor	ug/L	1	0.1	<1	<0.1
Heptachlor Epoxide	ug/L	1	0.1	<1	<0.1
a-chlordane	ug/L	1	0.1	<1	<0.1
g-chlordane	ug/L	1	0.1	<1	<0.1
Aldrin	ug/L	1	0.1	<1	<0.1
Dieldrin	ug/L	1	0.1	<1	<0.1
Lindane	ug/L	1	0.1	<1	<0.1
Methoxychlor	ug/L	1	0.1	<1	<0.1
alpha-BHC	ug/L	1	0.1	<1	<0.1
beta-BHC	ug/L	1	0.1	<1	<0.1
delta-BHC	ug/L	1	0.1	<1	<0.1
Oxychlordane	ug/L	1	0.1	<1	<0.1
Endrin	ug/L	1	0.1	<1	<0.1

**City Of Winnipeg  
Water Waste Department**

**South End Water Pollution Control Centre Quarterly Monitoring Report**

1'st Quarter Sampling Parameter	February 27, 2008			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
beta-Endosulfan	ug/L	1	0.1	<1	<0.1
alpha-Endosulfan	ug/L	3	0.1	<3	<0.1
o,p-DDE	ug/L	1	0.1	<1	<0.1
Endrin Aldehyde	ug/L	1	0.1	<1	<0.1
Endosulfan Sulfate	ug/L	1	0.1	<1	<0.1
Mirex	ug/L	1	0.1	<1	<0.1
op-DDD	ug/L	1	0.1	<1	<0.1
2-Fluorobiphenyl	%			70	69
d14-Terphenyl	%			62	95
Phenoxyacid Herbicides by GC/MS					
2,4,5-TP	ug/L	5	0.5	<5	<0.5
MCPA	ug/L	5	0.5	<5	<0.5
Mecoprop	ug/L	5	0.5	<5	<0.5
2,4,5-T	ug/L	5	0.5	<5	<0.5
2,4-D	ug/L	5	0.5	<5	<0.5
Bromoxynil	ug/L	5	0.5	<5	<0.5
Dicamba	ug/L	5	0.5	<5	<0.5
Dinoseb	ug/L	5	0.5	<5	<0.5
Picloram	ug/L	5	0.5	<5	<0.5
2,4-Dichlorophenylacetic Acid	%			114	96
Target Compounds by GC/MS					
Octachlorostyrene	mg/L	0.0005	0.0005	<0.0005	<0.0005
4,4'-Methylenebis(2-chloroaniline)	mg/L	0.0005	0.0005	<0.0005	<0.0005
Dinitropyrene	mg/L	0.02	0.02	<0.02	<0.02
2-Fluorobiphenyl	%			149	92
p-Terphenyl d14	%			29	62
Volatile Organics					
1,1,1,2-Tetrachloroethane	ug/L	0.5	0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	ug/L	0.5	0.5	<0.5	<0.5
1,1,1-Trichloroethane	ug/L	0.5	0.5	<0.5	<0.5
1,1,2-Trichloroethane	ug/L	0.5	0.5	<0.5	<0.5
1,2-Dibromoethane	ug/L	0.5	0.5	<0.5	<0.5
1,1-Dichloroethane	ug/L	0.5	0.5	<0.5	<0.5
1,1-Dichloroethylene	ug/L	0.5	0.5	<0.5	<0.5
1,2-Dichlorobenzene	ug/L	0.5	0.5	<0.5	<0.5
1,2-Dichloroethane	ug/L	0.5	0.5	<0.5	<0.5
1,2-Dichloropropane	ug/L	0.5	0.5	<0.5	<0.5
1,3-Dichlorobenzene	ug/L	0.5	0.5	<0.5	<0.5
1,4-Dichlorobenzene	ug/L	0.5	0.5	0.8	0.8
2-Hexanone	ug/L	20	20	<20	<20
Acetone	ug/L	100	20	200	<20
Benzene	ug/L	0.5	0.5	<0.5	<0.5
Bromodichloromethane	ug/L	0.5	0.5	<0.5	<0.5
Bromoform	ug/L	0.5	0.5	<0.5	<0.5

**City Of Winnipeg  
Water Waste Department**

**South End Water Pollution Control Centre Quarterly Monitoring Report**

1'st Quarter Sampling Parameter	February 27, 2008			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Bromomethane	ug/L	1	1	<1	<1
Carbon Disulfide	ug/L	0.5	0.5	1.1	<0.5
Carbon tetrachloride	ug/L	0.5	0.5	<0.5	<0.5
Chlorobenzene	ug/L	0.5	0.5	<0.5	<0.5
Chloroethane	ug/L	1	1	<1	<1
Chloroform	ug/L	0.5	0.5	14.1	12.2
Chloromethane	ug/L	1	1	<1	<1
cis-1,2-Dichloroethylene	ug/L	0.5	0.5	<0.5	<0.5
cis-1,3-Dichloropropene	ug/L	0.5	0.5	<0.5	<0.5
Dibromochloromethane	ug/L	0.5	0.5	<0.5	<0.5
Dichlorodifluoromethane	ug/L	1	1	<1	<1
Dichloromethane	ug/L	0.5	0.5	0.6	2.1
Ethyl Benzene	ug/L	0.5	0.5	<0.5	<0.5
m+p-Xylenes	ug/L	1	1	<1	<1
Methyl Ethyl Ketone	ug/L	20	20	<20	<20
Methyl Isobutyl Ketone	ug/L	20	20	<20	<20
MTBE	ug/L	0.5	0.5	<0.5	<0.5
o-Xylene	ug/L	0.5	0.5	<0.5	<0.5
Styrene	ug/L	0.5	0.5	<0.5	<0.5
Tetrachloroethylene	ug/L	0.5	0.5	<0.5	<0.5
Toluene	ug/L	0.5	0.5	8.1	0.6
trans-1,2-Dichloroethylene	ug/L	0.5	0.5	<0.5	<0.5
trans-1,3-Dichloropropene	ug/L	0.5	0.5	<0.5	<0.5
Trichloroethylene	ug/L	0.5	0.5	<0.5	<0.5
Trichlorofluoromethane	ug/L	1	1	<1	<1
Trihalomethanes (total)	ug/L	2	2	14.1	12.2
Vinyl chloride	ug/L	0.5	0.5	<0.5	<0.5
Xylenes (Total)	ug/L	1.5	1.5	<1.5	<1.5
1,2-Dichloroethane d4	%			118	119
Toluene-d8	%			97	98
4-Bromofluorobenzene	%			99	96

NOTES:

MDL- Method Detection Limit

mg/L- milligrams/Litre

ug/L- micrograms/Litre

ng/L- nanograms/Litre

pg/L- picograms/Litre

<- less than

NA- not analyzed

NR- not reported

*\* Total Metals were analyzed in-house on biweekly composite samples, and the reported results are quarterly averages. All other parameters were analyzed by contract laboratory.*

*This report was revised February 17, 2010 to include Total Metals data.*

**City Of Winnipeg  
Water Waste Department**

**South End Water Pollution Control Centre Quarterly Monitoring Report**

2'nd Quarter Sampling Parameter	May 7, 2008			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Miscellaneous					
Chromium, Hexavalent	mg/L	0.001	0.001	<0.001	<0.001
Mercury (Hg)-Total	ng/L	0.5	0.5	49	11
Toxaphene	mg/L	0.0001	0.0001	0.0001	<0.0001
Phenols (4AAP)	mg/L	0.001	0.001	0.357	0.010
Tributyltin	ug/L	0.050	0.050	<0.050	<0.050
Tetraethyl Lead	ug/L	0.050	0.050	<0.050	<0.050
Total Oil and Grease	mg/L	1	1	65	<1
Trout Bioassay	Pass/Fail			NA	Fail
Total Metals*					
Arsenic, Total	mg/L	0.001	0.001	0.002	0.001
Cadmium, Total	mg/L	0.001	0.001	<0.001	<0.001
Chromium, Total	mg/L	0.001	0.001	0.005	0.002
Copper, Total	mg/L	0.001	0.001	0.119	0.030
Molybdenum, Total	mg/L	NA	NA	NA	NA
Nickel, Total	mg/L	0.001	0.001	0.013	0.010
Lead, Total	mg/L	0.001	0.001	0.004	<0.010
Selenium, Total	mg/L	NA	NA	NA	NA
Zinc, Total	mg/L	0.003	0.003	0.098	0.047
Dioxins and Furans					
2378 TeCDD	pg/L	0.30	0.60	<0.30	<0.60
12378 PeCDD	pg/L	0.20	0.40	0.79	<0.40
123478 HxCDD	pg/L	0.30	0.50	<0.30	<0.50
123678 HxCDD	pg/L	0.40	0.60	1.1	<0.60
123789 HxCDD	pg/L	0.40	0.60	0.94	<0.60
1234678 HpCDD	pg/L	0.70	1.0	8.9	3.9
OCDD	pg/L	1.0	1.0	83	25
Total TCDD	pg/L	0.30	0.60	<0.30	18.0
Total PeCDD	pg/L	0.20	0.40	0.81	<0.40
Total HxCDD	pg/L	0.40	0.60	4.3	<0.60
Total HpCDD	pg/L	0.70	1.0	18	6.9
Total PCDDs	pg/L	1.0	1.0	110	50
2378 TeCDF	pg/L	0.10	0.20	<0.10	<0.20
12378 PeCDF	pg/L	0.20	0.30	<0.20	<0.30
23478 PeCDF	pg/L	0.10	0.20	<0.10	<0.20
123478 HxCDF	pg/L	0.20	0.20	<0.20	1.1
123678 HxCDF	pg/L	0.20	0.20	<0.20	<0.20
123789 HxCDF	pg/L	0.20	0.30	<0.20	<0.30
234678 HxCDF	pg/L	0.20	0.30	<0.20	<0.30
1234678 HpCDF	pg/L	0.30	0.50	3.4	2.2
1234789 HpCDF	pg/L	0.40	0.70	<0.40	<0.70
OCDF	pg/L	0.60	1.0	11	9.4
Total TCDF	pg/L	0.10	0.20	<0.10	<0.20
Total PeCDF	pg/L	0.20	0.30	<0.20	<0.30
Total HxCDF	pg/L	0.20	0.30	<0.20	1.0
Total HpCDF	pg/L	0.40	0.70	4.7	3.3

# City Of Winnipeg Water Waste Department

## South End Water Pollution Control Centre Quarterly Monitoring Report

2'nd Quarter Sampling	May 7, 2008			SEWPCC	
Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Total PCDFs	pg/L	0.60	1.0	16	14
Total TEQ (ND=0) (WHO Calc)	pg/L			1.12	0.17
Total TEQ (ND=0.5DL) (WHO Calc)	pg/L			1.36	0.86
Total TEQ (ND=DL) (WHO Calc)	pg/L			1.61	1.56
13C12 2378 TeCDD	%			60	66
13C12 12378 PeCDD	%			60	68
13C12 123478 HxCDD	%			66	65
13C12 123678 HxCDD	%			54	56
13C12 1234678 HpCDD	%			55	50
13C12 OCDD	%			48	42
13C12 2378 TeCDF	%			61	73
13C12 12378 PeCDF	%			55	69
13C12 23478 PeCDF	%			58	71
13C12 123478 HxCDF	%			56	61
13C12 123678 HxCDF	%			56	59
13C12 234678 HxCDF	%			57	61
13C12 123789 HxCDF	%			60	56
13C12 1234678 HpCDF	%			54	51
13C12 1234789 HpCDF	%			56	49
37C14 2378 TeCDD	%			61	67
EPA 8270 Extractables					
1,2,3-Trichlorobenzene	ug/L	4	0.4	<4	<0.4
1,2,4-Trichlorobenzene	ug/L	4	0.4	<4	<0.4
1,2-Dichlorobenzene	ug/L	4	0.4	<4	<0.4
4-Chloroaniline	ug/L	4	0.4	<4	<0.4
1,3-Dichlorobenzene	ug/L	4	0.4	<4	<0.4
1,4-Dichlorobenzene	ug/L	4	0.4	7	0.6
1-Chloronaphthalene	ug/L	4	0.4	<4	<0.4
1-Methylnaphthalene	ug/L	4	0.4	<4	<0.4
2,3,4,5-Tetrachlorophenol	ug/L	5	0.5	<5	<0.5
2,3,4,6-Tetrachlorophenol	ug/L	5	0.5	<5	<0.5
2,3,4-Trichlorophenol	ug/L	5	0.5	<5	<0.5
2,3,5,6-Tetrachlorophenol	ug/L	5	0.5	<5	<0.5
2,3,5-Trichlorophenol	ug/L	5	0.5	<5	<0.5
2,4,5-Trichlorophenol	ug/L	5	0.5	<5	<0.5
2,4,6-Trichlorophenol	ug/L	5	0.5	<5	<0.5
2,4-Dichlorophenol	ug/L	3	0.3	<3	<0.3
2,4-Dimethylphenol	ug/L	5	0.5	<5	1.2
2,4-Dinitrophenol	ug/L	10	1	<10	<1
2,4-Dinitrotoluene	ug/L	4	0.4	<4	<0.4
2,6-Dichlorophenol	ug/L	5	0.5	<5	<0.5
2,6-Dinitrotoluene	ug/L	4	0.4	<4	<0.4
2-Chloronaphthalene	ug/L	4	0.4	<4	<0.4
2-Chlorophenol	ug/L	3	0.3	<3	<0.3
2-Methylnaphthalene	ug/L	4	0.4	<4	<0.4
2-Methylphenol	ug/L	5	0.5	<5	<0.5
2-Nitrophenol	ug/L	5	0.5	<5	<0.5
3,3'-Dichlorobenzidine	ug/L	4	0.4	<4	<0.4



**City Of Winnipeg  
Water Waste Department**

**South End Water Pollution Control Centre Quarterly Monitoring Report**

2'nd Quarter Sampling	May 7, 2008			SEWPCC	
	Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab
3&4-Methylphenol	ug/L	5	0.5	93	<0.5
4,6-Dinitro-2-methylphenol	ug/L	20	2	<20	<2
4-Bromophenyl phenyl ether	ug/L	4	0.4	<4	<0.4
4-Chloro-3-methylphenol	ug/L	5	0.5	<5	<0.5
4-Chlorophenyl phenyl ether	ug/L	4	0.4	<4	<0.4
4-Nitrophenol	ug/L	5	0.5	<5	<0.5
5-Nitroacenaphthene	ug/L	4	0.4	<4	<0.4
Acenaphthene	ug/L	2	0.2	<2	<0.2
Acenaphthylene	ug/L	2	0.2	<2	<0.2
Anthracene	ug/L	2	0.2	<2	<0.2
Benzo(a)anthracene	ug/L	2	0.2	<2	<0.2
Benzo(a)pyrene	ug/L	0.5	0.05	<0.5	<0.05
Benzo(b)fluoranthene	ug/L	2	0.2	<2	<0.2
Benzo(ghi)perylene	ug/L	2	0.2	<2	<0.2
Benzo(k)fluoranthene	ug/L	2	0.2	<2	<0.2
Biphenyl	ug/L	4	0.4	<4	<0.4
Bis(2-chloroethoxy)methane	ug/L	4	0.4	<4	<0.4
Bis(2-chloroethyl)ether	ug/L	4	0.4	<4	<0.4
Bis(2-chloroisopropyl)ether	ug/L	4	0.4	<4	<0.4
Bis(2-ethylhexyl)phthalate	ug/L	20	2	<20	<2
Butylbenzyl phthalate	ug/L	4	0.4	5	<0.4
Camphene	ug/L	4	0.4	<4	<0.4
Chrysene	ug/L	2	0.2	<2	<0.2
Dibenzo(a,h)anthracene	ug/L	2	0.2	<2	<0.2
Dibenzofuran	ug/L	2	0.2	<2	<0.2
Diethylphthalate	ug/L	2	0.2	4	<0.2
Dimethylphthalate	ug/L	2	0.2	<2	<0.2
Di-n-butylphthalate	ug/L	20	2	<20	<2
Di-n-octylphthalate	ug/L	4	0.4	<4	<0.4
Diphenyl ether	ug/L	4	0.4	<4	<0.4
Diphenylamine	ug/L	4	0.4	<4	<0.4
Fluoranthene	ug/L	2	0.2	<2	<0.2
Fluorene	ug/L	2	0.2	<2	<0.2
Hexachlorobenzene	ug/L	0.4	0.04	<0.4	<0.04
Hexachlorobutadiene	ug/L	2	0.2	<2	<0.2
Hexachlorocyclopentadiene	ug/L	4	0.4	<4	<0.4
Hexachloroethane	ug/L	4	0.4	<4	<0.4
Indeno(1,2,3-cd)pyrene	ug/L	2	0.2	85	<0.2
Indole	ug/L	4	0.4	<4	<0.4
Isophorone	ug/L	4	0.4	<4	<0.4
Naphthalene	ug/L	2	0.2	<2	<0.2
Nitrobenzene	ug/L	4	0.2	<4	<0.2
N-Nitroso-di-n-propylamine	ug/L	4	0.4	<4	<0.4
Pentachlorophenol	ug/L	5	0.5	<5	<0.5
Perylene	ug/L	2	0.2	<2	<0.2
Phenanthrene	ug/L	2	0.2	<2	<0.2
Phenol	ug/L	5	0.5	39	<0.5
Pyrene	ug/L	2	0.2	<2	<0.2
Nitrobenzene d5	%			97	94

**City Of Winnipeg  
Water Waste Department**

**South End Water Pollution Control Centre Quarterly Monitoring Report**

2'nd Quarter Sampling Parameter	May 7, 2008			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
2-Fluorobiphenyl	%			59	74
p-Terphenyl d14	%			43	48
Phenol d5	%			21	18
2,4,6-Tribromophenol	%			75	101
Cresols (total)	ug/L	10	1	90	<1
<b>Low Level Nonylphenols and Ethoxylates</b>					
Nonylphenols	ug/L	0.1	0.1	4.6	0.7
Nonylphenol Monoethoxylates	ug/L	0.5	0.5	25.9	0.6
Nonylphenol Diethoxylates	ug/L	1	1	<1	<1
Nonylphenol Triethoxylates	ug/L	2	2	<2	<2
t-Octylphenol	ug/L	0.02	0.02	0.03	<0.02
t-Octylphenol Monoethoxylate	ug/L	0.1	0.1	0.3	<0.1
t-Octylphenol Diethoxylate	ug/L	0.2	0.2	<0.2	0.3
t-Octylphenol Triethoxylate	ug/L	0.5	0.5	<0.5	<0.5
TOTAL TEQ (CCME)	ug/L			17.7	1.09
<b>PCB</b>					
Aroclor 1016	mg/L	0.00005	0.00005	<0.0005	<0.0005
Aroclor 1221	mg/L	0.00005	0.00005	<0.0005	<0.0005
Aroclor 1232	mg/L	0.00005	0.00005	<0.0005	<0.0005
Aroclor 1242	mg/L	0.00005	0.00005	<0.0005	<0.0005
Aroclor 1248	mg/L	0.00005	0.00005	<0.0005	<0.0005
Aroclor 1254	mg/L	0.00005	0.00005	<0.0005	<0.0005
Aroclor 1260	mg/L	0.00005	0.00005	<0.0005	<0.0005
Aroclor 1262	mg/L	0.00005	0.00005	<0.0005	<0.0005
Aroclor 1268	mg/L	0.00005	0.00005	<0.0005	<0.0005
Total PCBs	mg/L	0.00005	0.00005	<0.0005	<0.0005
Decachlorobiphenyl	%			55	86
<b>Pesticides, Organochlorine</b>					
op-DDT	ug/L	1	0.1	<1	<0.1
pp-DDD	ug/L	1	0.1	<1	<0.1
pp-DDE	ug/L	1	0.1	<1	<0.1
pp-DDT	ug/L	1	0.1	<1	<0.1
Heptachlor	ug/L	1	0.1	<1	<0.1
Heptachlor Epoxide	ug/L	1	0.1	<1	<0.1
a-chlordane	ug/L	1	0.1	<1	<0.1
g-chlordane	ug/L	1	0.1	<1	<0.1
Aldrin	ug/L	1	0.1	<1	<0.1
Dieldrin	ug/L	1	0.1	<1	<0.1
Lindane	ug/L	1	0.1	<1	<0.1
Methoxychlor	ug/L	1	0.1	<1	<0.1
alpha-BHC	ug/L	1	0.1	<1	<0.1
beta-BHC	ug/L	1	0.1	<1	<0.1
delta-BHC	ug/L	1	0.1	<1	<0.1
Oxychlordane	ug/L	1	0.1	<1	<0.1
Endrin	ug/L	1	0.1	<1	<0.1
beta-Endosulfan	ug/L	20	0.1	<20	<0.1

**City Of Winnipeg  
Water Waste Department**

**South End Water Pollution Control Centre Quarterly Monitoring Report**

2'nd Quarter Sampling Parameter	May 7, 2008			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
alpha-Endosulfan	ug/L	10	0.1	<10	<0.1
o,p-DDE	ug/L	1	0.1	<1	<0.1
Endrin Aldehyde	ug/L	1	0.1	<1	<0.1
Endosulfan Sulfate	ug/L	1	0.1	<1	<0.1
Mirex	ug/L	1	0.1	<1	<0.1
op-DDD	ug/L	1	0.1	<1	<0.1
2-Fluorobiphenyl	%			68	67
d14-Terphenyl	%			64	95
Phenoxyacid Herbicides by GC/MS					
2,4,5-TP	ug/L	0.5	0.5	<0.5	<0.5
MCPA	ug/L	0.5	0.5	<0.5	<0.5
Mecoprop	ug/L	0.5	0.5	<0.5	<0.5
2,4,5-T	ug/L	0.5	0.5	<0.5	<0.5
2,4-D	ug/L	0.5	0.5	<0.5	<0.5
Bromoxynil	ug/L	0.5	0.5	<0.5	<0.5
Dicamba	ug/L	0.5	0.5	<0.5	<0.5
Dinoseb	ug/L	0.5	0.5	<0.5	<0.5
Picloram	ug/L	0.5	0.5	<0.5	<0.5
2,4-Dichlorophenylacetic Acid	%			44	88
Target Compounds by GC/MS					
Octachlorostyrene	mg/L	0.0005	0.0005	<0.0005	<0.0005
4,4'-Methylenebis(2-chloroaniline)	mg/L	0.0005	0.0005	<0.0005	<0.0005
Dinitropyrene	mg/L	0.02	0.02	<0.02	<0.02
2-Fluorobiphenyl	%			83	94
p-Terphenyl d14	%			111	139
Volatile Organics					
1,1,1,2-Tetrachloroethane	ug/L	5	0.5	<5	<0.5
1,1,2,2-Tetrachloroethane	ug/L	5	0.5	<5	<0.5
1,1,1-Trichloroethane	ug/L	5	0.5	<5	<0.5
1,1,2-Trichloroethane	ug/L	5	0.5	<5	<0.5
1,2-Dibromoethane	ug/L	5	0.5	<5	<0.5
1,1-Dichloroethane	ug/L	5	0.5	<5	<0.5
1,1-Dichloroethylene	ug/L	5	0.5	<5	<0.5
1,2-Dichlorobenzene	ug/L	5	0.5	<5	<0.5
1,2-Dichloroethane	ug/L	5	0.5	<5	<0.5
1,2-Dichloropropane	ug/L	5	0.5	<5	<0.5
1,3-Dichlorobenzene	ug/L	5	0.5	<5	<0.5
1,4-Dichlorobenzene	ug/L	5	0.5	<5	1.0
2-Hexanone	ug/L	200	20	<200	<20
Acetone	ug/L	200	20	200	<20
Benzene	ug/L	5	0.5	<5	<0.5
Bromodichloromethane	ug/L	5	0.5	<5	<0.5
Bromoform	ug/L	5	0.5	<5	<0.5
Bromomethane	ug/L	10	1	<10	<1
Carbon Disulfide	ug/L	5	0.5	10	<0.5

**City Of Winnipeg  
Water Waste Department**

**South End Water Pollution Control Centre Quarterly Monitoring Report**

2'nd Quarter Sampling Parameter	May 7, 2008			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Carbon tetrachloride	ug/L	5	0.5	<5	<0.5
Chlorobenzene	ug/L	5	0.5	<5	<0.5
Chloroethane	ug/L	10	1	<10	<1
Chloroform	ug/L	5	0.5	17	12.4
Chloromethane	ug/L	10	1	<10	<1
cis-1,2-Dichloroethylene	ug/L	5	0.5	<5	<0.5
cis-1,3-Dichloropropene	ug/L	5	0.5	<5	<0.5
Dibromochloromethane	ug/L	5	0.5	<5	<0.5
Dichlorodifluoromethane	ug/L	10	1	<10	<1
Dichloromethane	ug/L	5	0.5	<5	3.4
Ethyl Benzene	ug/L	5	0.5	<5	<0.5
m+p-Xylenes	ug/L	10	1	<10	<1
Methyl Ethyl Ketone	ug/L	200	20	<200	<20
Methyl Isobutyl Ketone	ug/L	200	20	<200	<20
MTBE	ug/L	5	0.5	<5	<0.5
o-Xylene	ug/L	5	0.5	<5	<0.5
Styrene	ug/L	5	0.5	<5	<0.5
Tetrachloroethylene	ug/L	5	0.5	<5	<0.5
Toluene	ug/L	5	0.5	8	<0.5
trans-1,2-Dichloroethylene	ug/L	5	0.5	<5	<0.5
trans-1,3-Dichloropropene	ug/L	5	0.5	<5	<0.5
Trichloroethylene	ug/L	5	0.5	<5	<0.5
Trichlorofluoromethane	ug/L	10	1	<10	<1
Trihalomethanes (total)	ug/L	20	2	<20	12
Vinyl chloride	ug/L	5	0.5	<5	<0.5
Xylenes (Total)	ug/L	20	2	<20	<2
1,2-Dichloroethane d4	%			111	99
Toluene-d8	%			88	89
4-Bromofluorobenzene	%			67	106

NOTES:

MDL- Method Detection Limit

mg/L- milligrams/Litre

ug/L- micrograms/Litre

ng/L- nanograms/Litre

pg/L- picograms/Litre

<- less than

NA- not analyzed

NR- not reported

*\* Total Metals were analyzed in-house on biweekly composite samples, and the reported results are quarterly averages. All other parameters were analyzed by contract laboratory.*

*This report was revised February 17, 2010 to include Total Metals data.*

# City Of Winnipeg Water Waste Department

## South End Water Pollution Control Centre Quarterly Monitoring Report

3'rd Quarter Sampling	August 13, 2008			SEWPCC	
Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Miscellaneous					
Chromium, Hexavalent	mg/L	0.001	0.001	<0.001	<0.001
Mercury (Hg)-Total	ng/L	0.5	0.5	160	36
Toxaphene	mg/L	0.0001	0.0001	<0.0001	<0.0001
Phenols (4AAP)	mg/L	0.001	0.001	0.047	0.007
Tributyltin	ug/L	0.050	0.050	<0.050	<0.050
Tetraethyl Lead	ug/L	0.050	0.050	<0.050	<0.050
Total Oil and Grease	mg/L	1	1	17	<1
Trout Bioassay	Pass/Fail			NA	Fail
Total Metals*					
Arsenic, Total	mg/L	0.001	0.001	0.002	0.001
Cadmium, Total	mg/L	0.001	0.001	<0.001	<0.001
Chromium, Total	mg/L	0.001	0.001	0.006	0.002
Copper, Total	mg/L	0.001	0.001	0.134	0.029
Molybdenum, Total	mg/L	NA	NA	NA	NA
Nickel, Total	mg/L	0.001	0.001	0.013	0.008
Lead, Total	mg/L	0.001	0.001	0.005	0.002
Selenium, Total	mg/L	NA	NA	NA	NA
Zinc, Total	mg/L	0.003	0.003	0.106	0.045
Dioxins and Furans					
2378 TeCDD	pg/L	0.3	0.3	<0.30	<0.30
12378 PeCDD	pg/L	0.2	0.2	<0.20	<0.20
123478 HxCDD	pg/L	0.6	0.4	<0.60	<0.40
123678 HxCDD	pg/L	0.8	0.5	<0.80	<0.50
123789 HxCDD	pg/L	0.7	0.5	<0.70	<0.50
1234678 HpCDD	pg/L	1	0.9	11	5.8
OCDD	pg/L	0.8	1	89	41
Total TCDD	pg/L	0.3	0.3	<0.80	10
Total PeCDD	pg/L	0.2	0.2	<0.20	<0.20
Total HxCDD	pg/L	0.8	0.5	<0.80	<0.50
Total HpCDD	pg/L	1	0.9	21	10
Total PCDDs	pg/L	1	1	110	62
2378 TeCDF	pg/L	0.2	0.1	<0.20	<0.10
12378 PeCDF	pg/L	0.2	0.2	<0.20	<0.20
23478 PeCDF	pg/L	0.1	0.1	<0.10	<0.10
123478 HxCDF	pg/L	0.3	0.2	1.7	1.4
123678 HxCDF	pg/L	0.3	0.2	1.4	1.3
123789 HxCDF	pg/L	0.4	0.2	1.4	1.5
234678 HxCDF	pg/L	0.3	0.2	1.5	1.4
1234678 HpCDF	pg/L	0.4	0.4	14	7.1
1234789 HpCDF	pg/L	0.6	0.5	<0.60	<0.50
OCDF	pg/L	0.9	1	11	8.7
Total TCDF	pg/L	0.2	0.1	<0.20	<0.10
Total PeCDF	pg/L	0.2	0.2	<0.20	<0.20
Total HxCDF	pg/L	0.4	0.2	6.8	5.2
Total HpCDF	pg/L	0.6	0.5	<0.60	<0.50

# City Of Winnipeg Water Waste Department

## South End Water Pollution Control Centre Quarterly Monitoring Report

3'rd Quarter Sampling	August 13, 2008			SEWPCC	
Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Total PCDFs	pg/L	0.9	1	18	14
Total TEQ (ND=0) (WHO Calc)	pg/L			0.88	0.7
Total TEQ (ND=0.5DL) (WHO Calc)	pg/L			1.26	1.05
Total TEQ (ND=DL) (WHO Calc)	pg/L			1.65	1.39
13C12 2378 TeCDD	%			69	72
13C12 12378 PeCDD	%			82	81
13C12 123478 HxCDD	%			84	85
13C12 123678 HxCDD	%			65	68
13C12 1234678 HpCDD	%			62	59
13C12 OCDD	%			56	42
13C12 2378 TeCDF	%			72	74
13C12 12378 PeCDF	%			74	73
13C12 23478 PeCDF	%			79	81
13C12 123478 HxCDF	%			77	79
13C12 123678 HxCDF	%			73	74
13C12 234678 HxCDF	%			74	76
13C12 123789 HxCDF	%			69	73
13C12 1234678 HpCDF	%			68	65
13C12 1234789 HpCDF	%			63	60
37C14 2378 TeCDD	%			61	64
EPA 8270 Extractables					
1,2,3-Trichlorobenzene	ug/L	0.4	0.4	<0.4	<0.4
1,2,4-Trichlorobenzene	ug/L	0.4	0.4	<0.4	<0.4
1,2-Dichlorobenzene	ug/L	0.4	0.4	<0.4	<0.4
4-Chloroaniline	ug/L	0.4	0.4	<0.4	<0.4
1,3-Dichlorobenzene	ug/L	0.4	0.4	<0.4	<0.4
1,4-Dichlorobenzene	ug/L	0.4	0.4	0.5	0.5
1-Chloronaphthalene	ug/L	0.4	0.4	<0.4	<0.4
1-Methylnaphthalene	ug/L	0.4	0.4	<0.4	<0.4
2,3,4,5-Tetrachlorophenol	ug/L	0.5	0.5	<0.5	<0.5
2,3,4,6-Tetrachlorophenol	ug/L	0.5	0.5	<0.5	<0.5
2,3,4-Trichlorophenol	ug/L	0.5	0.5	<0.5	<0.5
2,3,5,6-Tetrachlorophenol	ug/L	0.5	0.5	<0.5	<0.5
2,3,5-Trichlorophenol	ug/L	0.5	0.5	<0.5	<0.5
2,4,5-Trichlorophenol	ug/L	0.5	0.5	<0.5	<0.5
2,4,6-Trichlorophenol	ug/L	0.5	0.5	<0.5	<0.5
2,4-Dichlorophenol	ug/L	0.3	0.3	<0.3	<0.3
2,4-Dimethylphenol	ug/L	0.5	0.5	<0.5	<0.5
2,4-Dinitrophenol	ug/L	1	1	<1	<1
2,4-Dinitrotoluene	ug/L	0.4	0.4	<0.4	<0.4
2,6-Dichlorophenol	ug/L	0.5	0.5	<0.5	<0.5
2,6-Dinitrotoluene	ug/L	0.4	0.4	<0.4	<0.4
2-Chloronaphthalene	ug/L	0.4	0.4	<0.4	<0.4
2-Chlorophenol	ug/L	0.3	0.3	<0.3	<0.3
2-Methylnaphthalene	ug/L	0.4	0.4	<0.4	<0.4
2-Methylphenol	ug/L	0.5	0.5	0.9	<0.5
2-Nitrophenol	ug/L	0.5	0.5	<0.5	<0.5
3,3'-Dichlorobenzidine	ug/L	0.4	0.4	<0.4	<0.4

**City Of Winnipeg  
Water Waste Department**

**South End Water Pollution Control Centre Quarterly Monitoring Report**

3'rd Quarter Sampling	August 13, 2008			SEWPCC	
	Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab
3&4-Methylphenol	ug/L	0.5	0.5	19.0	<0.5
4,6-Dinitro-2-methylphenol	ug/L	2	2	<2	<2
4-Bromophenyl phenyl ether	ug/L	0.4	0.4	<0.4	<0.4
4-Chloro-3-methylphenol	ug/L	0.5	0.5	<0.5	<0.5
4-Chlorophenyl phenyl ether	ug/L	0.4	0.4	<0.4	<0.4
4-Nitrophenol	ug/L	0.5	0.5	<0.5	<0.5
5-Nitroacenaphthene	ug/L	0.4	0.4	<0.4	<0.4
Acenaphthene	ug/L	0.2	0.2	<0.2	<0.2
Acenaphthylene	ug/L	0.2	0.2	<0.2	<0.2
Anthracene	ug/L	0.2	0.2	<0.2	<0.2
Benzo(a)anthracene	ug/L	0.2	0.2	<0.2	<0.2
Benzo(a)pyrene	ug/L	0.05	0.05	<0.05	<0.05
Benzo(b)fluoranthene	ug/L	0.2	0.2	<0.2	<0.2
Benzo(ghi)perylene	ug/L	0.2	0.2	<0.2	<0.2
Benzo(k)fluoranthene	ug/L	0.2	0.2	<0.2	<0.2
Biphenyl	ug/L	0.4	0.4	<0.4	<0.4
Bis(2-chloroethoxy)methane	ug/L	0.4	0.4	<0.4	<0.4
Bis(2-chloroethyl)ether	ug/L	0.4	0.4	<0.4	<0.4
Bis(2-chloroisopropyl)ether	ug/L	0.4	0.4	<0.4	<0.4
Bis(2-ethylhexyl)phthalate	ug/L	2	2	5	<2
Butylbenzyl phthalate	ug/L	0.4	0.4	1.3	0.5
Camphene	ug/L	0.4	0.4	<0.4	<0.4
Chrysene	ug/L	0.2	0.2	<0.2	<0.2
Dibenzo(a,h)anthracene	ug/L	0.2	0.2	<0.2	<0.2
Dibenzofuran	ug/L	0.2	0.2	<0.2	<0.2
Diethylphthalate	ug/L	0.2	0.2	2.5	<0.2
Dimethylphthalate	ug/L	0.2	0.2	<0.2	<0.2
Di-n-butylphthalate	ug/L	2	2	<2	<2
Di-n-octylphthalate	ug/L	0.4	0.4	<0.4	<0.4
Diphenyl ether	ug/L	0.4	0.4	<0.4	<0.4
Diphenylamine	ug/L	0.4	0.4	<0.4	<0.4
Fluoranthene	ug/L	0.2	0.2	<0.2	<0.2
Fluorene	ug/L	0.2	0.2	<0.2	<0.2
Hexachlorobenzene	ug/L	0.04	0.04	<0.04	<0.04
Hexachlorobutadiene	ug/L	0.2	0.2	<0.2	<0.2
Hexachlorocyclopentadiene	ug/L	0.4	0.4	<0.4	<0.4
Hexachloroethane	ug/L	0.4	0.4	<0.4	<0.4
Indeno(1,2,3-cd)pyrene	ug/L	0.2	0.2	<0.2	<0.2
Indole	ug/L	0.4	0.4	43.2	<0.4
Isophorone	ug/L	0.4	0.4	<0.4	<0.4
Naphthalene	ug/L	0.2	0.2	<0.2	<0.2
Nitrobenzene	ug/L	0.4	0.4	<0.4	<0.4
N-Nitroso-di-n-propylamine	ug/L	0.4	0.4	<0.4	<0.4
Pentachlorophenol	ug/L	0.5	0.5	<0.5	<0.5
Perylene	ug/L	0.2	0.2	<0.2	<0.2
Phenanthrene	ug/L	0.2	0.2	<0.2	<0.2
Phenol	ug/L	0.5	0.5	8.6	<0.5
Pyrene	ug/L	0.2	0.2	<0.2	<0.2
Nitrobenzene d5	%			92	89

**City Of Winnipeg  
Water Waste Department**

**South End Water Pollution Control Centre Quarterly Monitoring Report**

3'rd Quarter Sampling Parameter	August 13, 2008			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
2-Fluorobiphenyl	%			71	75
p-Terphenyl d14	%			58	81
Phenol d5	%			29	18
2,4,6-Tribromophenol	%			86	93
Cresols (total)	ug/L	1	1	20	<1
<b>Low Level Nonylphenols and Ethoxylates</b>					
Nonylphenols	ug/L	0.1	0.1	4.2	1.2
Nonylphenol Monoethoxylates	ug/L	0.5	0.5	13.7	2.3
Nonylphenol Diethoxylates	ug/L	1.2	1.2	4	5
Nonylphenol Triethoxylates	ug/L	2	2	23	33
t-Octylphenol	ug/L	0.02	0.02	<0.02	<0.02
t-Octylphenol Monoethoxylate	ug/L	0.1	0.1	0.2	<0.1
t-Octylphenol Diethoxylate	ug/L	0.2	0.2	<0.2	0.5
t-Octylphenol Triethoxylate	ug/L	0.5	0.5	<0.5	<0.5
TOTAL TEQ (CCME)	ug/L			25.0	21.0
<b>PCB</b>					
Aroclor 1016	mg/L	0.0001	0.0001	<0.0001	<0.0001
Aroclor 1221	mg/L	0.0001	0.0001	<0.0001	<0.0001
Aroclor 1232	mg/L	0.0001	0.0001	<0.0001	<0.0001
Aroclor 1242	mg/L	0.0001	0.0001	<0.0001	<0.0001
Aroclor 1248	mg/L	0.0001	0.0001	<0.0001	<0.0001
Aroclor 1254	mg/L	0.0001	0.0001	<0.0001	<0.0001
Aroclor 1260	mg/L	0.0001	0.0001	<0.0001	<0.0001
Aroclor 1262	mg/L	0.0001	0.0001	<0.0001	<0.0001
Aroclor 1268	mg/L	0.0001	0.0001	<0.0001	<0.0001
Total PCBs	mg/L	0.0001	0.0001	<0.0001	<0.0001
<b>Pesticides, Organochlorine</b>					
op-DDT	ug/L	1	0.1	<1	<0.1
pp-DDD	ug/L	1	0.1	<1	<0.1
pp-DDE	ug/L	1	0.1	<1	<0.1
pp-DDT	ug/L	1	0.1	<1	<0.1
Heptachlor	ug/L	1	0.1	<1	<0.1
Heptachlor Epoxide	ug/L	1	0.1	<1	<0.1
a-chlordane	ug/L	1	0.1	<1	<0.1
g-chlordane	ug/L	1	0.1	<1	<0.1
Aldrin	ug/L	1	0.1	<1	<0.1
Dieldrin	ug/L	1	0.1	<1	<0.1
Lindane	ug/L	1	0.1	<1	<0.1
Methoxychlor	ug/L	1	0.1	<1	<0.1
alpha-BHC	ug/L	1	0.1	<1	<0.1
beta-BHC	ug/L	1	0.1	<1	<0.1
delta-BHC	ug/L	1	0.1	<1	<0.1
Oxychlordane	ug/L	1	0.1	<1	<0.1
Endrin	ug/L	1	0.1	<1	<0.1
beta-Endosulfan	ug/L	1	0.1	<1	<0.1
alpha-Endosulfan	ug/L	1	0.1	<1	<0.1



**City Of Winnipeg  
Water Waste Department**

**South End Water Pollution Control Centre Quarterly Monitoring Report**

3'rd Quarter Sampling Parameter	August 13, 2008			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
o,p-DDE	ug/L	1	0.1	<1	<0.1
Endrin Aldehyde	ug/L	1	0.1	<1	<0.1
Endosulfan Sulfate	ug/L	1	0.1	<1	<0.1
Mirex	ug/L	1	0.1	<1	<0.1
op-DDD	ug/L	1	0.1	<1	<0.1
2-Fluorobiphenyl	%			60	62
d14-Terphenyl	%			51	71
Phenoxyacid Herbicides by GC/MS					
2,4,5-TP	ug/L	0.5	0.5	<0.5	<0.5
MCPA	ug/L	0.5	0.5	<0.5	<0.5
Mecoprop	ug/L	0.5	0.5	<0.5	<0.5
2,4,5-T	ug/L	0.5	0.5	<0.5	<0.5
2,4-D	ug/L	0.5	0.5	<0.5	0.6
Bromoxynil	ug/L	0.5	0.5	<0.5	<0.5
Dicamba	ug/L	0.5	0.5	<0.5	<0.5
Dinoseb	ug/L	0.5	0.5	<0.5	<0.5
Picloram	ug/L	0.5	0.5	<0.5	<0.5
2,4-Dichlorophenylacetic Acid	%			86	92
Target Compounds by GC/MS					
Octachlorostyrene	mg/L	0.0005	0.0005	<0.0005	<0.0005
4,4'-Methylenebis(2-chloroaniline)	mg/L	0.0005	0.0005	<0.0005	<0.0005
Dinitropyrene	mg/L	0.02	0.02	<0.02	<0.02
2-Fluorobiphenyl	%			76	81
p-Terphenyl d14	%			96	83
Volatile Organics					
1,1,1,2-Tetrachloroethane	ug/L	0.5	0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	ug/L	0.5	0.5	<0.5	<0.5
1,1,1-Trichloroethane	ug/L	0.5	0.5	<0.5	<0.5
1,1,2-Trichloroethane	ug/L	0.5	0.5	<0.5	<0.5
1,2-Dibromoethane	ug/L	0.5	0.5	<0.5	<0.5
1,1-Dichloroethane	ug/L	0.5	0.5	<0.5	<0.5
1,1-Dichloroethylene	ug/L	0.5	0.5	<0.5	<0.5
1,2-Dichlorobenzene	ug/L	0.5	0.5	<0.5	<0.5
1,2-Dichloroethane	ug/L	0.5	0.5	<0.5	<0.5
1,2-Dichloropropane	ug/L	0.5	0.5	<0.5	<0.5
1,3-Dichlorobenzene	ug/L	0.5	0.5	<0.5	<0.5
1,4-Dichlorobenzene	ug/L	0.5	0.5	0.7	0.6
2-Hexanone	ug/L	20	20	<20	<20
Acetone	ug/L	20	20	60	<20
Benzene	ug/L	0.5	0.5	<0.5	<0.5
Bromodichloromethane	ug/L	0.5	0.5	<0.5	<0.5
Bromoform	ug/L	0.5	0.5	<0.5	<0.5
Bromomethane	ug/L	1	1	<1	<1
Carbon Disulfide	ug/L	0.5	0.5	<0.5	<0.5
Carbon tetrachloride	ug/L	0.5	0.5	<0.5	<0.5
Chlorobenzene	ug/L	0.5	0.5	<0.5	<0.5

**City Of Winnipeg  
Water Waste Department**

**South End Water Pollution Control Centre Quarterly Monitoring Report**

3'rd Quarter Sampling	August 13, 2008			SEWPCC	
	Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab
Chloroethane	ug/L	1	1	<1	<1
Chloroform	ug/L	0.5	0.5	10.6	7.1
Chloromethane	ug/L	1	1	<1	<1
cis-1,2-Dichloroethylene	ug/L	0.5	0.5	<0.5	<0.5
cis-1,3-Dichloropropene	ug/L	0.5	0.5	<0.5	<0.5
Dibromochloromethane	ug/L	0.5	0.5	<0.5	<0.5
Dichlorodifluoromethane	ug/L	1	1	<1	<1
Dichloromethane	ug/L	0.5	0.5	<0.5	<0.5
Ethyl Benzene	ug/L	0.5	0.5	<0.5	<0.5
m+p-Xylenes	ug/L	1	1	<1	<1
Methyl Ethyl Ketone	ug/L	20	20	<20	<20
Methyl Isobutyl Ketone	ug/L	20	20	<20	<20
MTBE	ug/L	0.5	0.5	<0.5	<0.5
o-Xylene	ug/L	0.5	0.5	<0.5	<0.5
Styrene	ug/L	0.5	0.5	<0.5	<0.5
Tetrachloroethylene	ug/L	0.5	0.5	<0.5	<0.5
Toluene	ug/L	0.5	0.5	4.0	4.0
trans-1,2-Dichloroethylene	ug/L	0.5	0.5	<0.5	<0.5
trans-1,3-Dichloropropene	ug/L	0.5	0.5	<0.5	<0.5
Trichloroethylene	ug/L	0.5	0.5	<0.5	<0.5
Trichlorofluoromethane	ug/L	1	1	<1	<1
Trihalomethanes (total)	ug/L	2	2	11	7
Vinyl chloride	ug/L	0.5	0.5	<0.5	<0.5
Xylenes (Total)	ug/L	1.5	1.5	<1.5	<1.5
1,2-Dichloroethane d4	%			105	103
Toluene-d8	%			103	107
4-Bromofluorobenzene	%			101	101

NOTES:

MDL- Method Detection Limit

mg/L- milligrams/Litre

ug/L- micrograms/Litre

ng/L- nanograms/Litre

pg/L- picograms/Litre

<- less than

NA- not analyzed

NR- not reported

*\* Total Metals were analyzed in-house on biweekly composite samples, and the reported results are quarterly averages. All other parameters were analyzed by contract laboratory.*

*This report was revised February 17, 2010 to include Total Metals data.*

**City Of Winnipeg  
Water Waste Department**

**South End Water Pollution Control Centre Quarterly Monitoring Report**

4'th Quarter Sampling	November 6, 2008			SEWPCC	
	Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab
Miscellaneous					
Chromium, Hexavalent	mg/L	0.001	0.001	<0.001	<0.001
Mercury (Hg)-Total	ng/L	0.5	0.5	810	9
Toxaphene	mg/L	0.0001	0.0001	<0.0001	<0.0001
Phenols (4AAP)	mg/L	0.001	0.001	0.091	0.001
Tributyltin	ug/L	0.050	0.050	<0.050	<0.050
Tetraethyl Lead	ug/L	0.050	0.050	<0.050	<0.050
Total Oil and Grease	mg/L	1	1	120	<1
Trout Bioassay	Pass/Fail			NA	Fail
Total Metals*					
Arsenic, Total	mg/L	0.001	0.001	0.002	0.001
Cadmium, Total	mg/L	0.001	0.001	<0.001	<0.001
Chromium, Total	mg/L	0.001	0.001	0.005	0.003
Copper, Total	mg/L	0.001	0.001	0.120	0.027
Molybdenum, Total	mg/L	NA	NA	NA	NA
Nickel, Total	mg/L	0.001	0.001	0.013	0.009
Lead, Total	mg/L	0.001	0.001	0.003	<0.001
Selenium, Total	mg/L	NA	NA	NA	NA
Zinc, Total	mg/L	0.003	0.003	0.092	0.040
Dioxins and Furans					
2378 TeCDD	pg/L	0.4	0.4	<0.40	<0.40
12378 PeCDD	pg/L	0.3	0.3	3.3	<0.30
123478 HxCDD	pg/L	1	0.3	4.5	<0.30
123678 HxCDD	pg/L	2	0.4	16	0.93
123789 HxCDD	pg/L	2	0.4	12	1.1
1234678 HpCDD	pg/L	0.7	0.8	420	7.4
OCDD	pg/L	3	1	3800	55
Total TCDD	pg/L	0.4	0.4	<0.40	<0.40
Total PeCDD	pg/L	0.3	0.3	24	<0.30
Total HxCDD	pg/L	2	0.4	91	1.4
Total HpCDD	pg/L	0.7	0.8	1100	25
Total PCDDs	pg/L	3	1	5000	81
2378 TeCDF	pg/L	0.3	0.2	<0.30	<0.20
12378 PeCDF	pg/L	0.2	0.2	1.1	<0.20
23478 PeCDF	pg/L	0.2	0.1	2	<0.10
123478 HxCDF	pg/L	0.5	0.1	3.4	0.87
123678 HxCDF	pg/L	0.5	0.1	4	0.64
123789 HxCDF	pg/L	0.6	0.2	0.98	0.57
234678 HxCDF	pg/L	0.5	0.1	6.3	0.5
1234678 HpCDF	pg/L	0.5	0.4	120	1.9
1234789 HpCDF	pg/L	0.7	0.6	5.8	<0.60
OCDF	pg/L	3	0.7	350	7.4
Total TCDF	pg/L	0.3	0.2	<0.30	<0.20
Total PeCDF	pg/L	0.2	0.2	13	<0.20
Total HxCDF	pg/L	0.6	0.2	99	3.3
Total HpCDF	pg/L	0.7	0.6	340	7.4

# City Of Winnipeg Water Waste Department

## South End Water Pollution Control Centre Quarterly Monitoring Report

4'th Quarter Sampling	November 6, 2008			SEWPCC	
Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Total PCDFs	pg/L	3	0.7	790	18
Total TEQ (ND=0) (WHO Calc)	pg/L			15.4	0.57
Total TEQ (ND=0.5DL) (WHO Calc)	pg/L			15.6	0.97
Total TEQ (ND=DL) (WHO Calc)	pg/L			15.8	1.36
13C12 2378 TeCDD	%			86	76
13C12 12378 PeCDD	%			88	76
13C12 123478 HxCDD	%			93	68
13C12 123678 HxCDD	%			71	51
13C12 1234678 HpCDD	%			87	56
13C12 OCDD	%			75	44
13C12 2378 TeCDF	%			82	76
13C12 12378 PeCDF	%			87	75
13C12 23478 PeCDF	%			88	78
13C12 123478 HxCDF	%			77	56
13C12 123678 HxCDF	%			71	56
13C12 234678 HxCDF	%			79	60
13C12 123789 HxCDF	%			77	57
13C12 1234678 HpCDF	%			78	51
13C12 1234789 HpCDF	%			78	50
37C14 2378 TeCDD	%			74	70
EPA 8270 Extractables					
1,2,3-Trichlorobenzene	ug/L	4	4	<4	<4
1,2,4-Trichlorobenzene	ug/L	4	4	<4	<4
1,2-Dichlorobenzene	ug/L	4	4	<4	<4
4-Chloroaniline	ug/L	4	4	<4	<4
1,3-Dichlorobenzene	ug/L	4	4	<4	<4
1,4-Dichlorobenzene	ug/L	4	4	21	<4
1-Chloronaphthalene	ug/L	4	4	<4	<4
1-Methylnaphthalene	ug/L	4	4	<4	<4
2,3,4,5-Tetrachlorophenol	ug/L	5	5	<5	<5
2,3,4,6-Tetrachlorophenol	ug/L	5	5	<5	<5
2,3,4-Trichlorophenol	ug/L	5	5	<5	<5
2,3,5,6-Tetrachlorophenol	ug/L	5	5	<5	<5
2,3,5-Trichlorophenol	ug/L	5	5	<5	<5
2,4,5-Trichlorophenol	ug/L	5	5	<5	<5
2,4,6-Trichlorophenol	ug/L	5	5	<5	<5
2,4-Dichlorophenol	ug/L	3	3	<3	<3
2,4-Dimethylphenol	ug/L	5	5	<5	<5
2,4-Dinitrophenol	ug/L	10	10	<10	<10
2,4-Dinitrotoluene	ug/L	4	4	<4	<4
2,6-Dichlorophenol	ug/L	5	5	<5	<5
2,6-Dinitrotoluene	ug/L	4	4	<4	<4
2-Chloronaphthalene	ug/L	4	4	<4	<4
2-Chlorophenol	ug/L	3	3	<3	<3
2-Methylnaphthalene	ug/L	4	4	<4	<4
2-Methylphenol	ug/L	5	5	<5	<5
2-Nitrophenol	ug/L	5	5	<5	<5
3,3'-Dichlorobenzidine	ug/L	4	4	<4	<4

**City Of Winnipeg  
Water Waste Department**

**South End Water Pollution Control Centre Quarterly Monitoring Report**

4'th Quarter Sampling	November 6, 2008			SEWPCC	
	Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab
3&4-Methylphenol	ug/L	5	5	142	<5
4,6-Dinitro-2-methylphenol	ug/L	20	20	<20	<20
4-Bromophenyl phenyl ether	ug/L	4	4	<4	<4
4-Chloro-3-methylphenol	ug/L	5	5	<5	<5
4-Chlorophenyl phenyl ether	ug/L	4	4	<4	<4
4-Nitrophenol	ug/L	5	5	<5	<5
5-Nitroacenaphthene	ug/L	4	4	<4	<4
Acenaphthene	ug/L	2	2	<2	<2
Acenaphthylene	ug/L	2	2	<2	<2
Anthracene	ug/L	2	2	<2	<2
Benzo(a)anthracene	ug/L	2	2	<2	<2
Benzo(a)pyrene	ug/L	0.5	0.5	<0.5	<0.5
Benzo(b)fluoranthene	ug/L	2	2	<2	<2
Benzo(ghi)perylene	ug/L	2	2	<2	<2
Benzo(k)fluoranthene	ug/L	2	2	<2	<2
Biphenyl	ug/L	4	4	<4	<4
Bis(2-chloroethoxy)methane	ug/L	4	4	<4	<4
Bis(2-chloroethyl)ether	ug/L	4	4	<4	<4
Bis(2-chloroisopropyl)ether	ug/L	4	4	<4	<4
Bis(2-ethylhexyl)phthalate	ug/L	20	20	<20	<20
Butylbenzyl phthalate	ug/L	4	4	<4	<4
Camphene	ug/L	4	4	<4	<4
Chrysene	ug/L	2	2	<2	<2
Dibenzo(a,h)anthracene	ug/L	2	2	<2	<2
Dibenzofuran	ug/L	2	2	<2	<2
Diethylphthalate	ug/L	2	2	<2	<2
Dimethylphthalate	ug/L	2	2	<2	<2
Di-n-butylphthalate	ug/L	20	20	<20	<20
Di-n-octylphthalate	ug/L	4	4	<4	<4
Diphenyl ether	ug/L	4	4	<4	<4
Diphenylamine	ug/L	4	4	<4	<4
Fluoranthene	ug/L	2	2	<2	<2
Fluorene	ug/L	2	2	<2	<2
Hexachlorobenzene	ug/L	0.4	0.4	<0.4	<0.4
Hexachlorobutadiene	ug/L	2	2	<2	<2
Hexachlorocyclopentadiene	ug/L	4	4	<4	<4
Hexachloroethane	ug/L	4	4	<4	<4
Indeno(1,2,3-cd)pyrene	ug/L	2	2	<2	<2
Indole	ug/L	4	4	63	<4
Isophorone	ug/L	4	4	<4	<4
Naphthalene	ug/L	2	2	<2	<2
Nitrobenzene	ug/L	4	4	<4	<4
N-Nitroso-di-n-propylamine	ug/L	4	4	<4	<4
Pentachlorophenol	ug/L	5	5	<5	<5
Perylene	ug/L	2	2	<2	<2
Phenanthrene	ug/L	2	2	<2	<2
Phenol	ug/L	5	5	38	<5
Pyrene	ug/L	2	2	<2	<2
Nitrobenzene d5	%			73	59

**City Of Winnipeg  
Water Waste Department**

**South End Water Pollution Control Centre Quarterly Monitoring Report**

4'th Quarter Sampling	November 6, 2008			SEWPCC		
	Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
2-Fluorobiphenyl	%				26	42
p-Terphenyl d14	%				36	50
Phenol d5	%				10	19
2,4,6-Tribromophenol	%				107	78
Cresols (total)	ug/L	10	10		140	<10
<b>Low Level Nonylphenols and Ethoxylates</b>						
Nonylphenols	ug/L	0.1	0.1		4.8	0.6
Nonylphenol Monoethoxylates	ug/L	0.5	0.5		11.8	<0.5
Nonylphenol Diethoxylates	ug/L	1.2	1.2		<1.2	<1.2
Nonylphenol Triethoxylates	ug/L	2	2		<2	<2
t-Octylphenol	ug/L	0.02	0.02		0.72	0.2
t-Octylphenol Monoethoxylate	ug/L	0.1	0.1		0.5	0.3
t-Octylphenol Diethoxylate	ug/L	0.2	0.2		0.3	3
t-Octylphenol Triethoxylate	ug/L	0.5	0.5		<0.5	0.7
TOTAL TEQ (CCME)	ug/L				12	2.8
<b>PCB</b>						
Aroclor 1016	mg/L	0.0002	0.00005		<0.0002	<0.00005
Aroclor 1221	mg/L	0.0002	0.00005		<0.0002	<0.00005
Aroclor 1232	mg/L	0.0002	0.00005		<0.0002	<0.00005
Aroclor 1242	mg/L	0.0002	0.00005		<0.0002	<0.00005
Aroclor 1248	mg/L	0.0002	0.00005		<0.0002	<0.00005
Aroclor 1254	mg/L	0.0002	0.00005		<0.0002	<0.00005
Aroclor 1260	mg/L	0.0002	0.00005		<0.0002	<0.00005
Aroclor 1262	mg/L	0.0002	0.00005		<0.0002	<0.00005
Aroclor 1268	mg/L	0.0002	0.00005		<0.0002	<0.00005
Total PCBs	mg/L	0.0002	0.00005		<0.0002	<0.00005
Decachlorobiphenyl	%				75	80
<b>Pesticides, Organochlorine</b>						
op-DDT	ug/L	1	0.1		<1	<0.1
pp-DDD	ug/L	1	0.1		<1	<0.1
pp-DDE	ug/L	1	0.1		<1	<0.1
pp-DDT	ug/L	1	0.1		<1	<0.1
Heptachlor	ug/L	1	0.1		<1	<0.1
Heptachlor Epoxide	ug/L	1	0.1		<1	<0.1
a-chlordane	ug/L	1	0.1		<1	<0.1
g-chlordane	ug/L	1	0.1		<1	<0.1
Aldrin	ug/L	1	0.1		<1	<0.1
Dieldrin	ug/L	1	0.1		<1	<0.1
Lindane	ug/L	1	0.1		<1	<0.1
Methoxychlor	ug/L	1	0.1		<1	<0.1
alpha-BHC	ug/L	1	0.1		<1	<0.1
beta-BHC	ug/L	1	0.1		<1	<0.1
delta-BHC	ug/L	1	0.1		<1	<0.1
Oxychlordane	ug/L	1	0.1		<1	<0.1
Endrin	ug/L	1	0.1		<1	<0.1
beta-Endosulfan	ug/L	1	0.1		<1	<0.1

**City Of Winnipeg  
Water Waste Department**

**South End Water Pollution Control Centre Quarterly Monitoring Report**

4'th Quarter Sampling	November 6, 2008			SEWPCC	
	Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab
alpha-Endosulfan	ug/L	1	0.1	<1	<0.1
o,p-DDE	ug/L	4	0.1	<4	<0.1
Endrin Aldehyde	ug/L	1	0.1	<1	<0.1
Endosulfan Sulfate	ug/L	1	0.1	<1	<0.1
Mirex	ug/L	1	0.1	<1	<0.1
op-DDD	ug/L	1	0.1	<1	<0.1
2-Fluorobiphenyl	%			34	52
d14-Terphenyl	%			43	85
Phenoxyacid Herbicides by GC/MS					
2,4,5-TP	ug/L	0.5	0.5	<0.5	<0.5
MCPA	ug/L	0.5	0.5	<0.5	<0.5
Mecoprop	ug/L	0.5	0.5	<0.5	<0.5
2,4,5-T	ug/L	0.5	0.5	<0.5	<0.5
2,4-D	ug/L	0.5	0.5	<0.5	<0.5
Bromoxynil	ug/L	0.5	0.5	<0.5	<0.5
Dicamba	ug/L	0.5	0.5	<0.5	<0.5
Dinoseb	ug/L	0.5	0.5	<0.5	<0.5
Picloram	ug/L	0.5	0.5	<0.5	<0.5
2,4-Dichlorophenylacetic Acid	%			110	130
Target Compounds by GC/MS					
Octachlorostyrene	mg/L	0.005	0.0005	<0.005	<0.0005
4,4'-Methylenebis(2-chloroaniline)	mg/L	0.005	0.0005	<0.005	<0.0005
Dinitropyrene	mg/L	0.2	0.02	<0.2	<0.02
2-Fluorobiphenyl	%			88	61
p-Terphenyl d14	%			186	93
Volatile Organics					
1,1,1,2-Tetrachloroethane	ug/L	0.5	0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	ug/L	0.5	0.5	<0.5	<0.5
1,1,1-Trichloroethane	ug/L	0.5	0.5	<0.5	<0.5
1,1,2-Trichloroethane	ug/L	0.5	0.5	<0.5	<0.5
1,2-Dibromoethane	ug/L	0.5	0.5	<0.5	<0.5
1,1-Dichloroethane	ug/L	0.5	0.5	<0.5	<0.5
1,1-Dichloroethylene	ug/L	0.5	0.5	<0.5	<0.5
1,2-Dichlorobenzene	ug/L	0.5	0.5	<0.5	<0.5
1,2-Dichloroethane	ug/L	0.5	0.5	<0.5	<0.5
1,2-Dichloropropane	ug/L	0.5	0.5	<0.5	<0.5
1,3-Dichlorobenzene	ug/L	0.5	0.5	<0.5	<0.5
1,4-Dichlorobenzene	ug/L	0.5	0.5	30.4	1.1
2-Hexanone	ug/L	20	20	<20	<20
Acetone	ug/L	20	20	70	<20
Benzene	ug/L	0.5	0.5	<0.5	<0.5
Bromodichloromethane	ug/L	0.5	0.5	<0.5	<0.5
Bromoform	ug/L	0.5	0.5	<0.5	<0.5
Bromomethane	ug/L	1	1	<1	<1
Carbon Disulfide	ug/L	0.5	0.5	<0.5	<0.5
Carbon tetrachloride	ug/L	0.5	0.5	<0.5	<0.5

# City Of Winnipeg Water Waste Department

## South End Water Pollution Control Centre Quarterly Monitoring Report

4'th Quarter Sampling	November 6, 2008			SEWPCC	
	Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab
Chlorobenzene	ug/L	0.5	0.5	0.8	<0.5
Chloroethane	ug/L	1	1	<1	<1
Chloroform	ug/L	0.5	0.5	19.6	5.4
Chloromethane	ug/L	1	1	<1	<1
cis-1,2-Dichloroethylene	ug/L	0.5	0.5	<0.5	<0.5
cis-1,3-Dichloropropene	ug/L	0.5	0.5	<0.5	<0.5
Dibromochloromethane	ug/L	0.5	0.5	<0.5	<0.5
Dichlorodifluoromethane	ug/L	1	1	<1	<1
Dichloromethane	ug/L	0.5	0.5	<0.5	1.8
Ethyl Benzene	ug/L	0.5	0.5	0.6	<0.5
m+p-Xylenes	ug/L	1	1	1	<1
Methyl Ethyl Ketone	ug/L	20	20	<20	<20
Methyl Isobutyl Ketone	ug/L	20	20	<20	<20
MTBE	ug/L	0.5	0.5	<0.5	<0.5
o-Xylene	ug/L	0.5	0.5	<0.5	<0.5
Styrene	ug/L	0.5	0.5	<0.5	<0.5
Tetrachloroethylene	ug/L	0.5	0.5	<0.5	<0.5
Toluene	ug/L	0.5	0.5	20.6	0.8
trans-1,2-Dichloroethylene	ug/L	0.5	0.5	<0.5	<0.5
trans-1,3-Dichloropropene	ug/L	0.5	0.5	<0.5	<0.5
Trichloroethylene	ug/L	0.5	0.5	<0.5	<0.5
Trichlorofluoromethane	ug/L	1	1	<1	<1
Trihalomethanes (total)	ug/L	2	2	20	5
Vinyl chloride	ug/L	0.5	0.5	<0.5	<0.5
Xylenes (Total)	ug/L	1.5	1.5	<1.5	<1.5
1,2-Dichloroethane d4	%			108	101
Toluene-d8	%			100	98
4-Bromofluorobenzene	%			98	96

**NOTES:**

MDL- Method Detection Limit

mg/L- milligrams/Litre

ug/L- micrograms/Litre

ng/L- nanograms/Litre

pg/L- picograms/Litre

<- less than

NA- not analyzed

NR- not reported

*\* Total Metals were analyzed in-house on biweekly composite samples, and the reported results are quarterly averages. All other parameters were analyzed by contract laboratory.*

*This report was revised February 17, 2010 to include Total Metals data.*