

**City Of Winnipeg
Water Waste Department**

South End Water Pollution Control Centre Quarterly Monitoring Report

1'st Quarter Sampling	February 4, 2009			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	1	1	150	16
Toxaphene	mg/L	0.0001	0.0001	<0.0001	<0.0001
Phenols (4AAP)	mg/L	0.001	0.001	0.082	0.009
Tributyltin	ug/L	0.05	0.05	<0.05	<0.05
Tetraethyl Lead	ug/L	0.05	0.05	<0.05	<0.05
Total Oil and Grease	mg/L	1	1	80	<1
Trout Bioassay	Pass/Fail			NA	Fail
Total Metals*					
Arsenic, Total	mg/L	0.001	0.001	0.002	0.002
Cadmium, Total	mg/L	0.001	0.001	<0.001	<0.001
Chromium, Total	mg/L	0.001	0.001	0.011	0.007
Copper, Total	mg/L	0.001	0.001	0.132	0.029
Molybdenum, Total	mg/L	NA	NA	NA	NA
Nickel, Total	mg/L	0.001	0.001	0.022	0.021
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	0.117	0.116
Dioxins and Furans					
2378 TeCDD	pg/L	4.0	1.0	<4.0	<1.0
12378 PeCDD	pg/L	2.0	0.4	<2.0	<0.4
123478 HxCDD	pg/L	1.0	0.3	<1.0	<0.3
123678 HxCDD	pg/L	1.0	0.3	<1.0	<0.3
123789 HxCDD	pg/L	1.0	0.3	<1.0	<0.3
1234678 HpCDD	pg/L	1.0	0.5	7.7	2.4
OCDD	pg/L	2.0	0.5	43	11
Total TCDD	pg/L	4.0	1.0	<4.0	<1.0
Total PeCDD	pg/L	2.0	0.4	<2.0	<0.4
Total HxCDD	pg/L	1.0	0.3	<1.0	<0.3
Total HpCDD	pg/L	1.0	0.5	14	2.2
Total PCDDs	pg/L	4.0	1.0	56	13
2378 TeCDF	pg/L	3.0	0.6	<3.0	<0.6
12378 PeCDF	pg/L	2.0	0.3	<2.0	<0.3
23478 PeCDF	pg/L	1.0	0.2	<1.0	<0.2
123478 HxCDF	pg/L	0.5	0.1	<0.5	<0.1
123678 HxCDF	pg/L	0.4	0.1	<0.4	<0.1
123789 HxCDF	pg/L	0.5	0.2	<0.5	<0.2
234678 HxCDF	pg/L	0.4	0.1	<0.4	<0.1
1234678 HpCDF	pg/L	0.6	0.5	<0.6	<0.5
1234789 HpCDF	pg/L	0.8	0.5	<0.8	<0.5
OCDF	pg/L	2.0	0.7	6.8	<0.7
Total TCDF	pg/L	3.0	0.6	<3.0	11
Total PeCDF	pg/L	2.0	0.3	<2.0	<0.3
Total HxCDF	pg/L	0.5	0.2	<0.5	<0.2
Total HpCDF	pg/L	0.8	0.5	<0.8	<0.5

City Of Winnipeg Water Waste Department

South End Water Pollution Control Centre Quarterly Monitoring Report

1'st Quarter Sampling	February 4, 2009			SEWPCC	
Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Total PCDFs	pg/L	3.0	0.7	<6.8	11
Total TEQ (ND=0) (WHO Calc)	pg/L			0.09	0.03
Total TEQ (ND=0.5DL) (WHO Calc)	pg/L			3.67	0.87
Total TEQ (ND=DL) (WHO Calc)	pg/L			7.25	1.71
13C12 2378 TeCDD	%			34	32
13C12 12378 PeCDD	%			66	45
13C12 123478 HxCDD	%			78	54
13C12 123678 HxCDD	%			94	57
13C12 1234678 HpCDD	%			114	65
13C12 OCDD	%			107	63
13C12 2378 TeCDF	%			31	31
13C12 12378 PeCDF	%			76	51
13C12 23478 PeCDF	%			67	49
13C12 123478 HxCDF	%			89	57
13C12 123678 HxCDF	%			103	58
13C12 234678 HxCDF	%			107	61
13C12 123789 HxCDF	%			97	56
13C12 1234678 HpCDF	%			114	58
13C12 1234789 HpCDF	%			106	65
37C14 2378 TeCDD	%			30	30
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
1,3-Dichlorobenzene	ug/L	0.4	0.4	<0.4	<0.4
1,4-Dichlorobenzene	ug/L	0.4	0.4	<0.4	<0.4
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	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	0.5	0.5	<0.5	<0.5
2,3,5,6-Tetrachlorophenol	ug/L	5	0.5	<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-Tribromophenol	%			126	118
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	4	0.4	<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-Fluorobiphenyl	%			72	66
2-Methylnaphthalene	ug/L	0.4	0.4	<0.4	<0.4
2-Methylphenol	ug/L	0.5	0.5	<0.5	<0.5
2-Nitrophenol	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	February 4, 2009			SEWPCC	
	Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab
3&4-Methylphenol	ug/L	0.5	0.5	117	<0.5
3,3'-Dichlorobenzidine	ug/L	4	0.4	<4	<0.4
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	0.5	0.5	<0.5	<0.5
4-Chloroaniline	ug/L	0.4	0.4	<0.4	<0.4
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	0.2	0.2	<0.2	<0.2
Acenaphthylene	ug/L	0.2	0.2	<0.2	<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	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	20	2	<20	4
Butylbenzyl phthalate	ug/L	4	0.4	<4	<0.4
Camphene	ug/L	0.4	0.4	<0.4	<0.4
Chrysene	ug/L	2	0.2	<2	<0.2
Cresols (total)	ug/L	1	1	117	<1
Dibenzo(a,h)anthracene	ug/L	2	0.2	<2	<0.2
Dibenzofuran	ug/L	0.2	0.2	<0.2	<0.2
Diethylphthalate	ug/L	2	0.2	4	<0.2
Dimethylphthalate	ug/L	0.2	0.2	<0.2	<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	0.4	0.4	<0.4	<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	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	2	0.2	<2	<0.2
Indole	ug/L	0.4	0.4	53.1	<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
Nitrobenzene d5	%			118	79
N-Nitroso-di-n-propylamine	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

1'st Quarter Sampling	February 4, 2009			SEWPCC	
	Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab
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	0.5	0.5	12.2	<0.5
Phenol d5	%			39	26
p-Terphenyl d14	%			61	76
Pyrene	ug/L	2	0.2	<2	<0.2
Low Level Nonylphenols and Ethoxylates					
Nonylphenols	ug/L	0.1	0.1	10	1.3
Nonylphenol Monoethoxylates	ug/L	0.5	0.5	13.4	<0.5
Nonylphenol Diethoxylates	ug/L	1	1	5	<1
Nonylphenol Triethoxylates	ug/L	2	2	<2	<2
t-Octylphenol	ug/L	0.02	0.02	1.11	0.14
t-Octylphenol Monoethoxylate	ug/L	0.1	0.1	1	<0.1
t-Octylphenol Diethoxylate	ug/L	0.2	0.2	<0.2	1.1
t-Octylphenol Triethoxylate	ug/L	0.5	0.5	<0.5	<0.5
TOTAL TEQ (CCME)	ug/L			21	2
PCB					
Aroclor 1016	mg/L	0.0002	0.0001	<0.0002	<0.0001
Aroclor 1221	mg/L	0.0002	0.0001	<0.0002	<0.0001
Aroclor 1232	mg/L	0.0002	0.0001	<0.0002	<0.0001
Aroclor 1242	mg/L	0.0002	0.0001	<0.0002	<0.0001
Aroclor 1248	mg/L	0.0002	0.0001	<0.0002	<0.0001
Aroclor 1254	mg/L	0.0002	0.0001	<0.0002	<0.0001
Aroclor 1260	mg/L	0.0002	0.0001	<0.0002	<0.0001
Aroclor 1262	mg/L	0.0002	0.0001	<0.0002	<0.0001
Aroclor 1268	mg/L	0.0002	0.0001	<0.0002	<0.0001
Total PCBs	mg/L	0.0002	0.0001	<0.0002	<0.0001
Decachlorobiphenyl	%			71	107
Pesticides, Organochlorine					
2-Fluorobiphenyl	%			79	94
a-chlordane	ug/L	0.1	0.1	<0.1	<0.1
Aldrin	ug/L	0.1	0.1	<0.1	<0.1
alpha-BHC	ug/L	0.1	0.1	<0.1	<0.1
alpha-Endosulfan	ug/L	0.2	0.1	<0.2	<0.1
beta-BHC	ug/L	0.1	0.1	<0.1	<0.1
beta-Endosulfan	ug/L	0.1	0.1	<0.1	<0.1
d14-Terphenyl	%			48	84
delta-BHC	ug/L	0.1	0.1	<0.1	<0.1
Dieldrin	ug/L	1	0.1	<1	<0.1
Endosulfan Sulfate	ug/L	0.1	0.1	<0.1	<0.1
Endrin	ug/L	0.1	0.1	<0.1	<0.1
Endrin Aldehyde	ug/L	0.1	0.1	<0.1	<0.1

**City Of Winnipeg
Water Waste Department**

South End Water Pollution Control Centre Quarterly Monitoring Report

1'st Quarter Sampling	February 4, 2009			SEWPCC	
	Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab
g-chlordane	ug/L	0.1	0.1	<0.1	<0.1
Heptachlor	ug/L	0.1	0.1	<0.1	<0.1
Heptachlor Epoxide	ug/L	0.1	0.1	<0.1	<0.1
Lindane	ug/L	0.1	0.1	<0.1	<0.1
Methoxychlor	ug/L	0.1	0.1	<0.1	<0.1
Mirex	ug/L	0.1	0.1	<0.1	<0.1
o,p-DDE	ug/L	0.1	0.1	<0.1	<0.1
op-DDD	ug/L	0.1	0.1	<0.1	<0.1
op-DDT	ug/L	0.1	0.1	<0.1	<0.1
Oxychlordane	ug/L	0.1	0.1	<0.1	<0.1
pp-DDD	ug/L	0.1	0.1	<0.1	<0.1
pp-DDE	ug/L	0.1	0.1	<0.1	<0.1
pp-DDT	ug/L	0.1	0.1	<0.1	<0.1
Phenoxyacid Herbicides by GC/MS					
2,4,5-T	ug/L	0.5	0.5	<0.5	<0.5
2,4,5-TP	ug/L	0.5	0.5	<0.5	<0.5
2,4-D	ug/L	0.5	0.5	<0.5	<0.5
2,4-Dichlorophenylacetic Acid	%			80	81
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
MCPA	ug/L	0.5	0.5	<0.5	<0.5
Mecoprop	ug/L	0.5	0.5	<0.5	<0.5
Picloram	ug/L	0.5	0.5	<0.5	<0.5
Target Compounds by GC/MS					
2-Fluorobiphenyl	%			108	47
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
Octachlorostyrene	mg/L	0.0005	0.0005	<0.0005	<0.0005
p-Terphenyl d14	%			37	101
Volatile Organics					
1,1,1,2-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
1,1,2,2-Tetrachloroethane	ug/L	0.5	0.5	<0.5	<0.5
1,1,2-Trichloroethane	ug/L	0.5	0.5	<0.5	<0.5
1,1-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-Dibromoethane	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-Dichloroethane d4	%			101	100
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	0.6	0.6

City Of Winnipeg Water Waste Department

South End Water Pollution Control Centre Quarterly Monitoring Report

1'st Quarter Sampling	February 4, 2009			SEWPCC	
	Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab
2-Hexanone	ug/L	20	20	<20	<20
4-Bromofluorobenzene	%			101	101
Acetone	ug/L	20	20	30	<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
Chloroethane	ug/L	1	1	<1	<1
Chloroform	ug/L	0.5	0.5	11.9	8.9
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	1.7	1.6
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	5.6	0.6
Toluene-d8	%			99	100
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	12	9
Vinyl chloride	ug/L	0.5	0.5	<0.5	<0.5
Xylenes (Total)	ug/L	2	2	<2	<2

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.

**City Of Winnipeg
Water Waste Department**

South End Water Pollution Control Centre Quarterly Monitoring Report

2'nd Quarter Sampling Parameter	May 7, 2009			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Miscellaneous					
Chromium, Hexavalent	mg/L	0.0010	0.0010	<0.0010	<0.0010
Mercury (Hg)-Total	ng/L	1	1	93.1	5
Toxaphene	mg/L	0.00010	0.00010	<0.00010	<0.00010
Phenols (4AAP)	mg/L	0.001	0.001	0.0729	0.0084
Total Oil and Grease	mg/L	1	1	135	<1.0
Tributyltin	ug/L	0.001	0.001	<0.001	<0.001
Tetraethyl Lead	ug/L	5.0	5.0	<5.0	<5.0
Trout Bioassay	Pass/Fail			NA	Fail
Total Metals*					
Arsenic, Total	mg/L	0.001	0.001	0.002	0.002
Cadmium, Total	mg/L	0.001	0.001	0.001	<0.001
Chromium, Total	mg/L	0.001	0.001	0.008	0.007
Copper, Total	mg/L	0.001	0.001	0.106	0.021
Molybdenum, Total	mg/L	NA	NA	NA	NA
Nickel, Total	mg/L	0.001	0.001	0.016	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	0.104	0.049
Dioxins and Furans					
2378 TeCDD	pg/L	0.60	0.40	<0.60	<0.40
12378 PeCDD	pg/L	1.0	0.90	<1.0	<0.90
123478 HxCDD	pg/L	3.0	2.0	<3.0	<2.0
123678 HxCDD	pg/L	4.0	2.0	<4.0	<2.0
123789 HxCDD	pg/L	3.0	2.0	<3.0	<2.0
1234678 HpCDD	pg/L	4.0	3.0	82	<3.0
OCDD	pg/L	3.0	2.0	674	15.3
Total TCDD	pg/L	0.60	0.40	<0.60	<0.40
Total PeCDD	pg/L	1.0	0.900	<1.0	<0.90
Total HxCDD	pg/L	4.0	2.0	<4.0	<2.0
Total HpCDD	pg/L	4.0	3.0	177	<3.0
Total PCDDs	pg/L	4.0	3.0	851	15.3
2378 TeCDF	pg/L	1.0	0.900	<1.0	<0.90
12378 PeCDF	pg/L	0.500	0.400	<0.50	<0.40
23478 PeCDF	pg/L	0.500	0.300	<0.50	<0.30
123478 HxCDF	pg/L	2.0	0.80	<2.0	<0.80
123678 HxCDF	pg/L	2.0	0.80	<2.0	<0.80
123789 HxCDF	pg/L	1.0	1.0	<1.0	<1.0
234678 HxCDF	pg/L	1.0	0.90	<1.0	<0.90
1234678 HpCDF	pg/L	1	0.80	29.1	<0.80
1234789 HpCDF	pg/L	1	1.0	<1.0	<1.0
OCDF	pg/L	2.0	2.0	67.6	<2.0
Total TCDF	pg/L	1.0	0.90	<1.0	<0.90
Total PeCDF	pg/L	0.50	0.40	<0.50	<0.40
Total HxCDF	pg/L	2.0	1.0	<2.0	<1.0
Total HpCDF	pg/L	1.0	1.0	61.1	<1.0

**City Of Winnipeg
Water Waste Department**

South End Water Pollution Control Centre Quarterly Monitoring Report

2'nd Quarter Sampling	May 7, 2009			SEWPCC	
	Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab
Total PCDFs	pg/L	2.0	2.0	129	<2.0
Total TEQ (ND=0) (WHO Calc)	pg/L			1.33	0
Total TEQ (ND=0.5DL) (WHO Calc)	pg/L			3.07	1.25
Total TEQ (ND=DL) (WHO Calc)	pg/L			4.81	2.5
13C12 2378 TeCDD	%			70	74
13C12 12378 PeCDD	%			64	67
13C12 123478 HxCDD	%			68	74
13C12 123678 HxCDD	%			63	66
13C12 1234678 HpCDD	%			71	71
13C12 OCDD	%			64	59
13C12 2378 TeCDF	%			73	79
13C12 12378 PeCDF	%			69	72
13C12 23478 PeCDF	%			72	76
13C12 123478 HxCDF	%			43	76
13C12 123678 HxCDF	%			40	75
13C12 234678 HxCDF	%			73	80
13C12 123789 HxCDF	%			74	77
13C12 1234678 HpCDF	%			63	80
13C12 1234789 HpCDF	%			84	82
37C14 2378 TeCDD	%			56	63
EPA 8270 Extractables					
1,2,3-Trichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,2,4-Trichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,2-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,3-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,4-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1-Chloronaphthalene	ug/L	4.0	0.40	<4.0	<0.40
1-Methylnaphthalene	ug/L	4.0	0.40	<4.0	<0.40
2,3,4,5-Tetrachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,4,6-Tetrachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,4-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,5,6-Tetrachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,5-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,4,5-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,4,6-Tribromophenol	%			95	110
2,4,6-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,4-Dichlorophenol	ug/L	3.0	0.30	<3.0	<0.30
2,4-Dimethylphenol	ug/L	5.0	0.50	<5.0	<0.50
2,4-Dinitrophenol	ug/L	10		<10	<1.0
2,4-Dinitrotoluene	ug/L	4	0.40	<4.0	<0.40
2,6-Dichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,6-Dinitrotoluene	ug/L	4.0	0.40	<4.0	<0.40
2-Chloronaphthalene	ug/L	4.0	0.40	<4.0	<0.40
2-Chlorophenol	ug/L	3.0	0.30	<3.0	<0.30
2-Fluorobiphenyl	%			161	69
2-Methylnaphthalene	ug/L	4.0	0.4	<4.0	<0.40
2-Methylphenol	ug/L	5.0	0.5	<5.0	<0.50
2-Nitrophenol	ug/L	5.0	0.5	<5.0	<0.50

**City Of Winnipeg
Water Waste Department**

South End Water Pollution Control Centre Quarterly Monitoring Report

2'nd Quarter Sampling	May 7, 2009			SEWPCC	
	Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab
3&4-Methylphenol	ug/L	5.0	0.5	86.8	<0.50
3,3'-Dichlorobenzidine	ug/L	4.0	0.4	<4.0	<0.40
4,6-Dinitro-2-methylphenol	ug/L	20	2	<20	<2.0
4-Bromophenyl phenyl ether	ug/L	4.0	0.40	<4.0	<0.40
4-Chloro-3-methylphenol	ug/L	5.0	0.50	<5.0	<0.50
4-Chloroaniline	ug/L	4.0	0.40	<4.0	<0.40
4-Chlorophenyl phenyl ether	ug/L	4.0	0.40	<4.0	<0.40
4-Nitrophenol	ug/L	5.0	0.50	<5.0	<0.50
5-Nitroacenaphthene	ug/L	4.0	0.40	<4.0	<0.40
Acenaphthene	ug/L	2.0	0.20	<2.0	<0.20
Acenaphthylene	ug/L	2.0	0.20	<2.0	<0.20
Anthracene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(a)anthracene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(a)pyrene	ug/L	0.50	0.050	<0.50	<0.050
Benzo(b)fluoranthene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(ghi)perylene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(k)fluoranthene	ug/L	2.0	0.20	<2.0	<0.20
Biphenyl	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-chloroethoxy)methane	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-chloroethyl)ether	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-chloroisopropyl)ether	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-ethylhexyl)phthalate	ug/L	20	2.0	32	<2.0
Butylbenzyl phthalate	ug/L	4.0	0.40	<4.0	<0.40
Camphene	ug/L	4.0	0.40	<4.0	<0.40
Chrysene	ug/L	2.0	0.20	<2.0	<0.20
Cresols (total)	ug/L	10	1	87	<1.0
Dibenzo(a,h)anthracene	ug/L	2.0	0.20	<2.0	<0.20
Dibenzofuran	ug/L	2.0	0.20	<2.0	<0.20
Diethylphthalate	ug/L	2.0	0.20	<2.0	<0.20
Dimethylphthalate	ug/L	2.0	0.20	<2.0	<0.20
Di-n-butylphthalate	ug/L	20	2	<20	<2.0
Di-n-octylphthalate	ug/L	4.0	0.40	<4.0	<0.40
Diphenyl ether	ug/L	4.0	0.40	<4.0	<0.40
Diphenylamine	ug/L	4.0	0.40	<4.0	<0.40
Fluoranthene	ug/L	2.0	0.20	<2.0	<0.20
Fluorene	ug/L	2.0	0.20	<2.0	<0.20
Hexachlorobenzene	ug/L	0.40	0.040	<0.40	<0.040
Hexachlorobutadiene	ug/L	2.0	0.20	<2.0	<0.20
Hexachlorocyclopentadiene	ug/L	4.0	0.40	<4.0	<0.40
Hexachloroethane	ug/L	4.0	0.40	<4.0	<0.40
Indeno(1,2,3-cd)pyrene	ug/L	2.0	0.20	<2.0	<0.20
Indole	ug/L	4.0	0.40	53.9	<0.40
Isophorone	ug/L	4.0	0.40	<4.0	<0.40
Naphthalene	ug/L	2.0	0.20	<2.0	<0.20
Nitrobenzene	ug/L	4.0	0.40	<4.0	<0.40
Nitrobenzene d5	%			138	94
N-Nitroso-di-n-propylamine	ug/L	4.0	0.40	<4.0	<0.40
Pentachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
Perylene	ug/L	2.0	0.20	<2.0	<0.20

**City Of Winnipeg
Water Waste Department**

South End Water Pollution Control Centre Quarterly Monitoring Report

2'nd Quarter Sampling Parameter	May 7, 2009			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Phenanthrene	ug/L	2.0	0.20	<2.0	<0.20
Phenol	ug/L	5.0	0.50	16.6	<0.50
Phenol d5	%			23	22
p-Terphenyl d14	%			64	74
Pyrene	ug/L	2.0	0.20	<2.0	<0.20
Low Level Nonylphenols and Ethoxylates					
1 Nonylphenols	ug/L	0.31	0.31	13.4	2.14
Nonylphenol Monoethoxylates	ug/L	0.5	0.5	22	3.17
Nonylphenol Diethoxylates	ug/L	1.2	1.2	16	1.6
Nonylphenol Triethoxylates	ug/L	2	2	3.5	2.3
t-Octylphenol	ug/L	0.02	0.02	0.107	0.532
t-Octylphenol Monoethoxylate	ug/L	0.10	0.10	0.22	0.38
t-Octylphenol Diethoxylate	ug/L	0.20	0.20	<0.20	2.57
t-Octylphenol Triethoxylate	ug/L	0.50	0.50	<0.50	0.88
TOTAL TEQ (CCME)	ug/L			NA	NA
PCB					
Aroclor 1016	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1221	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1232	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1242	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1248	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1254	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1260	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1262	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1268	mg/L	0.00010	0.00010	<0.00010	<0.00010
Total PCBs	mg/L	0.00010	0.00010	<0.00010	<0.00010
Decachlorobiphenyl	%			68	72
Pesticides, Organochlorine					
2-Fluorobiphenyl	%			47	59
a-chlordane	ug/L	0.10	0.10	<0.10	<0.10
Aldrin	ug/L	0.10	0.10	<0.10	<0.10
alpha-BHC	ug/L	0.10	0.10	<0.10	<0.10
alpha-Endosulfan	ug/L	0.30	0.10	<0.30	<0.10
beta-BHC	ug/L	0.10	0.10	<0.10	<0.10
beta-Endosulfan	ug/L	0.10	0.10	<0.10	<0.10
d14-Terphenyl	%			38	69
delta-BHC	ug/L	0.10	0.10	<0.10	<0.10
Dieldrin	ug/L	2.0	0.10	<2.0	<0.10
Endosulfan Sulfate	ug/L	0.10	0.10	<0.10	<0.10
Endrin	ug/L	0.20	0.10	<0.20	<0.10
Endrin Aldehyde	ug/L	0.10	0.10	<0.10	<0.10
g-chlordane	ug/L	0.10	0.10	<0.10	<0.10
Heptachlor	ug/L	0.10	0.10	<0.10	<0.10
Heptachlor Epoxide	ug/L	0.10	0.10	<0.10	<0.10
Lindane	ug/L	0.10	0.10	<0.10	<0.10
Methoxychlor	ug/L	0.10	0.10	<0.10	<0.10

**City Of Winnipeg
Water Waste Department**

South End Water Pollution Control Centre Quarterly Monitoring Report

2'nd Quarter Sampling Parameter	May 7, 2009			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Mirex	ug/L	0.10	0.10	<0.10	<0.10
o,p-DDE	ug/L	0.10	0.10	<0.10	<0.10
op-DDD	ug/L	0.10	0.10	<0.10	<0.10
op-DDT	ug/L	0.10	0.10	<0.10	<0.10
Oxychlorthane	ug/L	0.10	0.10	<0.10	<0.10
pp-DDD	ug/L	0.10	0.10	<0.10	<0.10
pp-DDE	ug/L	0.10	0.10	<0.10	<0.10
pp-DDT	ug/L	0.10	0.10	<0.10	<0.10
Phenoxyacid Herbicides by GC/MS					
2,4,5-T	ug/L	0.50	0.50	<0.50	<0.50
2,4,5-TP	ug/L	0.50	0.50	<0.50	<0.50
2,4-D	ug/L	0.50	0.50	<0.50	<0.50
2,4-Dichlorophenylacetic Acid	%			59	78
Bromoxynil	ug/L	0.50	0.50	<0.50	<0.50
Dicamba	ug/L	0.50	0.50	<0.50	<0.50
Dinoseb	ug/L	0.50	0.50	<0.50	<0.50
MCPA	ug/L	0.50	0.50	<0.50	<0.50
Mecoprop	ug/L	0.50	0.50	<0.50	<0.50
Picloram	ug/L	0.50	0.50	<0.50	<0.50
Target Compounds by GC/MS					
2-Fluorobiphenyl	%			85	66
4,4'-Methylenebis(2-chloroaniline)	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dinitropyrene	mg/L	0.020	0.020	<0.020	<0.020
Octachlorostyrene	mg/L	0.00050	0.00050	<0.00050	<0.00050
p-Terphenyl d14	%			113	74
Volatile Organics					
1,1,1,2-Tetrachloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,1,1-Trichloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,1-Dichloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/L	0.50	0.50	<0.50	<0.50
1,2-Dibromoethane	ug/L	0.50	0.50	<0.50	<0.50
1,2-Dichlorobenzene	ug/L	0.50	0.50	<0.50	<0.50
1,2-Dichloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,2-Dichloroethane d4	%			106	99
1,2-Dichloropropane	ug/L	0.50	0.50	<0.50	<0.50
1,3-Dichlorobenzene	ug/L	0.50	0.50	<0.50	<0.50
1,4-Dichlorobenzene	ug/L	0.50	0.50	<0.50	0.5
2-Hexanone	ug/L	20	20	<20	<20
4-Bromofluorobenzene	%			90	100
Acetone	ug/L	20	20	31	<20
Benzene	ug/L	0.50	0.50	<0.50	<0.50
Bromodichloromethane	ug/L	0.50	0.50	<0.50	<0.50
Bromoform	ug/L	0.50	0.50	<0.50	<0.50
Bromomethane	ug/L	1.0	1.0	<1.0	<1.0

**City Of Winnipeg
Water Waste Department**

South End Water Pollution Control Centre Quarterly Monitoring Report

2'nd Quarter Sampling Parameter	May 7, 2009			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Carbon Disulfide	ug/L	0.50	0.50	<0.50	<0.50
Carbon tetrachloride	ug/L	0.50	0.50	<0.50	<0.50
Chlorobenzene	ug/L	0.50	0.50	<0.50	<0.50
Chloroethane	ug/L	1.0	1.0	<1.0	<1.0
Chloroform	ug/L	0.50	0.50	7.97	8.41
Chloromethane	ug/L	1.0	1.0	<1.0	<1.0
cis-1,2-Dichloroethylene	ug/L	0.50	0.50	<0.50	<0.50
cis-1,3-Dichloropropene	ug/L	0.50	0.50	<0.50	<0.50
Dibromochloromethane	ug/L	0.50	0.50	<0.50	<0.50
Dichlorodifluoromethane	ug/L	1.0	1.0	<1.0	<1.0
Dichloromethane	ug/L	0.50	0.50	<0.50	0.89
Ethyl Benzene	ug/L	0.50	0.50	<0.50	<0.50
m+p-Xylenes	ug/L	1.0	1.0	1.2	<1.0
Methyl Ethyl Ketone	ug/L	20	20	<20	<20
Methyl Isobutyl Ketone	ug/L	20	20	<20	<20
MTBE	ug/L	0.50	0.50	<0.50	<0.50
o-Xylene	ug/L	0.50	0.50	0.52	<0.50
Styrene	ug/L	0.50	0.50	<0.50	<0.50
Tetrachloroethylene	ug/L	0.50	0.50	<0.50	<0.50
Toluene	ug/L	0.5	0.50	3.5	2.13
Toluene-d8	%			100	99
trans-1,2-Dichloroethylene	ug/L	0.50	0.50	<0.50	<0.50
trans-1,3-Dichloropropene	ug/L	0.50	0.50	<0.50	<0.50
Trichloroethylene	ug/L	0.50	0.50	<0.50	<0.50
Trichlorofluoromethane	ug/L	1	1	<1.0	<1.0
Trihalomethanes (total)	ug/L	2	2	8	8.4
Vinyl chloride	ug/L	0.50	0.50	<0.50	<0.50
Xylenes (Total)	ug/L	1.5	1.5	1.7	<1.5

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.*

**City Of Winnipeg
Water Waste Department**

South End Water Pollution Control Centre Quarterly Monitoring Report

3'rd Quarter Sampling	August 11, 2009			SEWPCC	
	Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab
Miscellaneous					
Chromium, Hexavalent	mg/L	0.0010	0.0010	<0.0010	<0.0010
Mercury (Hg)-Total	ng/L	1	1	91.6	7.9
Toxaphene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Phenols (4AAP)	mg/L	0.001	0.001	0.0531	0.0042
Total Oil and Grease	mg/L	2	2	68.3	<2.0
Tributyltin	ug/L	0.001	0.001	0.004	0.001
Tetraethyl Lead*	ug/L	5.0	5.0	<5.0	<5.0
Trout Bioassay	Pass/Fail			NA	Fail
Total Metals**					
Arsenic, Total	mg/L	0.001	0.001	0.002	0.002
Cadmium, Total	mg/L	0.001	0.001	<0.001	<0.001
Chromium, Total	mg/L	0.001	0.001	0.007	0.005
Copper, Total	mg/L	0.001	0.001	0.107	0.021
Molybdenum, Total	mg/L	NA	NA	NA	NA
Nickel, Total	mg/L	0.001	0.001	0.012	0.007
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	0.093	0.045
Dioxins and Furans					
2378 TeCDD	pg/L	1.0	1.0	<1.0	<1.0
12378 PeCDD	pg/L	0.80	0.80	<0.80	<0.80
123478 HxCDD	pg/L	0.70	0.60	<0.70	<0.60
123678 HxCDD	pg/L	0.90	0.80	<0.90	<0.80
123789 HxCDD	pg/L	0.70	0.70	<0.70	<0.70
1234678 HpCDD	pg/L	2.0	1.0	20.4	<1.0
OCDD	pg/L	4	2.0	180	9.4
Total TCDD	pg/L	1.0	1.0	<1.0	<1.0
Total PeCDD	pg/L	0.80	0.80	<0.80	<0.80
Total HxCDD	pg/L	0.90	0.80	<0.90	<0.80
Total HpCDD	pg/L	2.0	1.0	38.5	<1.0
Total PCDDs	pg/L	4	2.0	219	9.4
2378 TeCDF	pg/L	0.70	0.90	<0.70	<0.90
12378 PeCDF	pg/L	0.20	0.30	<0.20	<0.30
23478 PeCDF	pg/L	0.20	0.30	<0.20	<0.30
123478 HxCDF	pg/L	0.40	0.20	<0.40	<0.20
123678 HxCDF	pg/L	0.40	0.20	<0.40	<0.20
123789 HxCDF	pg/L	0.70	0.40	<0.70	<0.40
234678 HxCDF	pg/L	0.40	0.30	<0.40	<0.30
1234678 HpCDF	pg/L	0.7	0.60	4.4	<0.60
1234789 HpCDF	pg/L	1.0	1.0	<1.0	<1.0
OCDF	pg/L	2.0	2.0	<2.0	<2.0
Total TCDF	pg/L	0.70	0.90	<0.70	<0.90
Total PeCDF	pg/L	0.20	0.30	<0.20	<0.30
Total HxCDF	pg/L	0.70	0.40	<0.70	<0.40
Total HpCDF	pg/L	1.0	1.0	4.4	<1.0

City Of Winnipeg Water Waste Department

South End Water Pollution Control Centre Quarterly Monitoring Report

3'rd Quarter Sampling	August 11, 2009			SEWPCC	
Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Total PCDFs	pg/L	2.0	2.0	4.4	<2.0
Total TEQ (ND=0) (WHO Calc)	pg/L			0.3	0
Total TEQ (ND=0.5DL) (WHO Calc)	pg/L			1.49	1.17
Total TEQ (ND=DL) (WHO Calc)	pg/L			2.67	2.34
13C12 2378 TeCDD	%	1	1	71	57
13C12 12378 PeCDD	%	1	1	59	56
13C12 123478 HxCDD	%	1	1	81	81
13C12 123678 HxCDD	%	1	1	79	83
13C12 1234678 HpCDD	%	1	1	61	58
13C12 OCDD	%	1	1	43	42
13C12 2378 TeCDF	%	1	1	83	79
13C12 12378 PeCDF	%	1	1	71	87
13C12 23478 PeCDF	%	1	1	70	91
13C12 123478 HxCDF	%	1	1	85	113
13C12 123678 HxCDF	%	1	1	94	116
13C12 234678 HxCDF	%	1	1	87	99
13C12 123789 HxCDF	%	1	1	68	84
13C12 1234678 HpCDF	%	1	1	79	96
13C12 1234789 HpCDF	%	1	1	60	67
37C14 2378 TeCDD	%	1	1	65	48
EPA 8270 Extractables					
1,2,3-Trichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,2,4-Trichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,2-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,3-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,4-Dichlorobenzene	ug/L	4.0	0.40	<4.0	0.49
1-Chloronaphthalene	ug/L	4.0	0.40	<4.0	<0.40
1-Methylnaphthalene	ug/L	4.0	0.40	<4.0	<0.40
2,3,4,5-Tetrachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,4,6-Tetrachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,4-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,5,6-Tetrachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,5-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,4,5-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,4,6-Tribromophenol	%	10	1	90	82
2,4,6-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,4-Dichlorophenol	ug/L	3.0	0.30	<3.0	<0.30
2,4-Dimethylphenol	ug/L	5.0	0.50	<5.0	<0.50
2,4-Dinitrophenol	ug/L	10	1.0	<10	<1.0
2,4-Dinitrotoluene	ug/L	4.0	0.40	<4.0	<0.40
2,6-Dichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,6-Dinitrotoluene	ug/L	4.0	0.40	<4.0	<0.40
2-Chloronaphthalene	ug/L	4.0	0.40	<4.0	<0.40
2-Chlorophenol	ug/L	3.0	0.30	<3.0	<0.30
2-Fluorobiphenyl	%	10	1	121	52
2-Methylnaphthalene	ug/L	4.0	0.40	<4.0	<0.40
2-Methylphenol	ug/L	5.0	0.50	<5.0	<0.50
2-Nitrophenol	ug/L	5.0	0.50	<5.0	<0.50

**City Of Winnipeg
Water Waste Department**

South End Water Pollution Control Centre Quarterly Monitoring Report

3'rd Quarter Sampling	August 11, 2009			SEWPCC	
	Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab
3&4-Methylphenol	ug/L	5	0.50	50	<0.50
3,3'-Dichlorobenzidine	ug/L	4.0	0.40	<4.0	<0.40
4,6-Dinitro-2-methylphenol	ug/L	20	2.0	<20	<2.0
4-Bromophenyl phenyl ether	ug/L	4.0	0.40	<4.0	<0.40
4-Chloro-3-methylphenol	ug/L	5.0	0.50	<5.0	<0.50
4-Chloroaniline	ug/L	4.0	0.40	<4.0	<0.40
4-Chlorophenyl phenyl ether	ug/L	4.0	0.40	<4.0	<0.40
4-Nitrophenol	ug/L	5.0	0.50	<5.0	<0.50
5-Nitroacenaphthene	ug/L	4.0	0.40	<4.0	<0.40
Acenaphthene	ug/L	2.0	0.20	<2.0	<0.20
Acenaphthylene	ug/L	2.0	0.20	<2.0	<0.20
Anthracene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(a)anthracene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(a)pyrene	ug/L	0.50	0.050	<0.50	<0.050
Benzo(b)fluoranthene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(ghi)perylene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(k)fluoranthene	ug/L	2.0	0.20	<2.0	<0.20
Biphenyl	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-chloroethoxy)methane	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-chloroethyl)ether	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-chloroisopropyl)ether	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-ethylhexyl)phthalate	ug/L	20	2.0	<20	<2.0
Butylbenzyl phthalate	ug/L	4.0	0.40	<4.0	<0.40
Camphene	ug/L	4.0	0.40	<4.0	<0.40
Chrysene	ug/L	2.0	0.20	<2.0	<0.20
Cresols (total)	ug/L	10	1.0	50	<1.0
Dibenzo(a,h)anthracene	ug/L	2.0	0.20	<2.0	<0.20
Dibenzofuran	ug/L	2.0	0.20	<2.0	<0.20
Diethylphthalate	ug/L	2.0	0.20	2.5	<0.20
Dimethylphthalate	ug/L	2.0	0.20	<2.0	<0.20
Di-n-butylphthalate	ug/L	20	2.0	<20	<2.0
Di-n-octylphthalate	ug/L	4.0	0.40	<4.0	<0.40
Diphenyl ether	ug/L	4.0	0.40	<4.0	<0.40
Diphenylamine	ug/L	4.0	0.40	<4.0	<0.40
Fluoranthene	ug/L	2.0	0.20	<2.0	<0.20
Fluorene	ug/L	2.0	0.20	<2.0	<0.20
Hexachlorobenzene	ug/L	0.40	0.040	<0.40	<0.040
Hexachlorobutadiene	ug/L	2.0	0.20	<2.0	<0.20
Hexachlorocyclopentadiene	ug/L	4.0	0.40	<4.0	<0.40
Hexachloroethane	ug/L	4.0	0.40	<4.0	<0.40
Indeno(1,2,3-cd)pyrene	ug/L	2.0	0.20	<2.0	<0.20
Indole	ug/L	4.0	0.40	65.5	<0.40
Isophorone	ug/L	4.0	0.40	<4.0	<0.40
Naphthalene	ug/L	2.0	0.20	<2.0	<0.20
Nitrobenzene	ug/L	4.0	0.40	<4.0	<0.40
Nitrobenzene d5	%	10	1	94	76
N-Nitroso-di-n-propylamine	ug/L	4.0	0.40	<4.0	<0.40
Pentachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
Perylene	ug/L	2.0	0.20	<2.0	<0.20

City Of Winnipeg Water Waste Department

South End Water Pollution Control Centre Quarterly Monitoring Report

3'rd Quarter Sampling	August 11, 2009			SEWPCC	
Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Phenanthrene	ug/L	2.0	0.20	<2.0	<0.20
Phenol	ug/L	5.0	0.50	8.3	<0.50
Phenol d5	%	10	1	0	17
p-Terphenyl d14	%	10	1	52	69
Pyrene	ug/L	2.0	0.20	<2.0	<0.20
Low Level Nonylphenols and Ethoxylates					
Nonylphenols	ug/L	0.10	1.2	3.43	<1.2
Nonylphenol Monoethoxylates	ug/L	0.50	0.50	2.82	<0.50
Nonylphenol Diethoxylates	ug/L	1.2	2.0	<1.2	<2.0
Nonylphenol Triethoxylates	ug/L	2	0.17	2.5	0.72
t-Octylphenol	ug/L	0.020	0.02	0.226	0.12
t-Octylphenol Monoethoxylate	ug/L	0.10	0.20	0.24	<0.20
t-Octylphenol Diethoxylate	ug/L	0.20	0.10	<0.20	<0.10
t-Octylphenol Triethoxylate	ug/L	0.50	0.50	<0.50	<0.50
TOTAL TEQ (CCME)	ug/L			6.5	0.84
PCB					
Aroclor 1016	mg/L	0.000050	0.000050	<0.000050	<0.000050
Aroclor 1221	mg/L	0.000050	0.000050	<0.000050	<0.000050
Aroclor 1232	mg/L	0.000050	0.000050	<0.000050	<0.000050
Aroclor 1242	mg/L	0.000050	0.000050	<0.000050	<0.000050
Aroclor 1248	mg/L	0.000050	0.000050	<0.000050	<0.000050
Aroclor 1254	mg/L	0.000050	0.000050	<0.000050	<0.000050
Aroclor 1260	mg/L	0.000050	0.000050	<0.000050	<0.000050
Aroclor 1262	mg/L	0.000050	0.000050	<0.000050	<0.000050
Aroclor 1268	mg/L	0.000050	0.000050	<0.000050	<0.000050
Total PCBs	mg/L	0.000050	0.000050	<0.000050	<0.000050
Decachlorobiphenyl	%			NA	NA
Pesticides, Organochlorine					
2-Fluorobiphenyl	%	10	1	68	85
a-chlordane	ug/L	1.0	0.10	<1.0	<0.10
Aldrin	ug/L	1.0	0.10	<1.0	<0.10
alpha-BHC	ug/L	1.0	0.10	<1.0	<0.10
alpha-Endosulfan	ug/L	1.5	0.10	<1.5	<0.10
beta-BHC	ug/L	1.0	0.10	<1.0	<0.10
beta-Endosulfan	ug/L	1.0	0.10	<1.0	<0.10
d14-Terphenyl	%	10	1	56	89
delta-BHC	ug/L	1.0	0.10	<1.0	<0.10
Dieldrin	ug/L	1.0	0.10	<1.0	<0.10
Endosulfan Sulfate	ug/L	1.0	0.10	<1.0	<0.10
Endrin	ug/L	1.0	0.10	<1.0	<0.10
Endrin Aldehyde	ug/L	1.0	0.10	<1.0	<0.10
g-chlordane	ug/L	1.0	0.10	<1.0	<0.10
Heptachlor	ug/L	1.0	0.10	<1.0	<0.10
Heptachlor Epoxide	ug/L	1.0	0.10	<1.0	<0.10
Lindane	ug/L	1.0	0.10	<1.0	<0.10
Methoxychlor	ug/L	1.0	0.10	<1.0	<0.10

**City Of Winnipeg
Water Waste Department**

South End Water Pollution Control Centre Quarterly Monitoring Report

3'rd Quarter Sampling Parameter	August 11, 2009			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Mirex	ug/L	1.0	0.10	<1.0	<0.10
o,p-DDE	ug/L	1.0	0.10	<1.0	<0.10
op-DDD	ug/L	1.0	0.10	<1.0	<0.10
op-DDT	ug/L	1.0	0.10	<1.0	<0.10
Oxychlorthane	ug/L	1.0	0.10	<1.0	<0.10
pp-DDD	ug/L	1.0	0.10	<1.0	<0.10
pp-DDE	ug/L	1.0	0.10	<1.0	<0.10
pp-DDT	ug/L	1.0	0.10	<1.0	<0.10
Phenoxyacid Herbicides by GC/MS					
2,4,5-T	ug/L	0.50	0.50	<0.50	<0.50
2,4,5-TP	ug/L	0.50	0.50	<0.50	<0.50
2,4-D	ug/L	0.50	0.50	<0.50	<0.50
2,4-Dichlorophenylacetic Acid	%	1	1	107	111
Bromoxynil	ug/L	0.50	0.50	<0.50	<0.50
Dicamba	ug/L	0.50	0.50	<0.50	<0.50
Dinoseb	ug/L	0.50	0.50	<0.50	<0.50
MCPA	ug/L	0.50	0.50	<0.50	<0.50
Mecoprop	ug/L	0.50	0.50	<0.50	<0.50
Picloram	ug/L	0.65	0.50	<0.65	<0.50
Target Compounds by GC/MS					
2-Fluorobiphenyl	%	1	1	109	75
4,4'-Methylenebis(2-chloroaniline)	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dinitropyrene	mg/L	0.020	0.020	<0.020	<0.020
Octachlorostyrene	mg/L	0.00050	0.00050	<0.00050	<0.00050
p-Terphenyl d14	%	1	1	57	91
Volatile Organics					
1,1,1,2-Tetrachloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,1,1-Trichloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,1-Dichloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/L	0.50	0.50	<0.50	<0.50
1,2-Dibromoethane	ug/L	0.50	0.50	<0.50	<0.50
1,2-Dichlorobenzene	ug/L	0.50	0.50	<0.50	<0.50
1,2-Dichloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,2-Dichloroethane d4	%	1	1	148	148
1,2-Dichloropropane	ug/L	0.50	0.50	<0.50	<0.50
1,3-Dichlorobenzene	ug/L	0.50	0.50	<0.50	<0.50
1,4-Dichlorobenzene	ug/L	0.50	0.50	<0.50	0.75
2-Hexanone	ug/L	20	20	<20	<20
4-Bromofluorobenzene	%	1	1	89	97
Acetone	ug/L	20	20	57	<20
Benzene	ug/L	0.50	0.50	<0.50	<0.50
Bromodichloromethane	ug/L	0.50	0.50	<0.50	<0.50
Bromoform	ug/L	0.50	0.50	<0.50	<0.50
Bromomethane	ug/L	1.0	1.0	<1.0	<1.0

**City Of Winnipeg
Water Waste Department**

South End Water Pollution Control Centre Quarterly Monitoring Report

3'rd Quarter Sampling	August 11, 2009			SEWPCC	
	Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab
Carbon Disulfide	ug/L	0.50	0.50	1.31	<0.50
Carbon tetrachloride	ug/L	0.50	0.50	<0.50	<0.50
Chlorobenzene	ug/L	0.50	0.50	<0.50	<0.50
Chloroethane	ug/L	1.0	1.0	<1.0	<1.0
Chloroform	ug/L	0.50	0.50	14.1	10.5
Chloromethane	ug/L	1.0	1.0	<1.0	<1.0
cis-1,2-Dichloroethylene	ug/L	0.50	0.50	<0.50	<0.50
cis-1,3-Dichloropropene	ug/L	0.50	0.50	<0.50	<0.50
Dibromochloromethane	ug/L	0.50	0.50	<0.50	<0.50
Dichlorodifluoromethane	ug/L	1.0	1.0	<1.0	<1.0
Dichloromethane	ug/L	0.50	0.50	<0.50	1.07
Ethyl Benzene	ug/L	0.50	0.50	<0.50	<0.50
m+p-Xylenes	ug/L	1.0	1.0	<1.0	<1.0
Methyl Ethyl Ketone	ug/L	20	20	<20	<20
Methyl Isobutyl Ketone	ug/L	20	20	<20	<20
MTBE	ug/L	0.50	0.50	<0.50	<0.50
o-Xylene	ug/L	0.50	0.50	<0.50	<0.50
Styrene	ug/L	0.50	0.50	<0.50	<0.50
Tetrachloroethylene	ug/L	0.50	0.50	<0.50	<0.50
Toluene	ug/L	0.50	0.50	2.87	<0.50
Toluene-d8	%	1	1	100	104
trans-1,2-Dichloroethylene	ug/L	0.50	0.50	<0.50	<0.50
trans-1,3-Dichloropropene	ug/L	0.50	0.50	<0.50	<0.50
Trichloroethylene	ug/L	0.50	0.50	<0.50	<0.50
Trichlorofluoromethane	ug/L	1.0	1.0	<1.0	<1.0
Trihalomethanes (total)	ug/L	2.0	2.0	14.1	10.5
Vinyl chloride	ug/L	0.50	0.50	<0.50	<0.50
Xylenes (Total)	ug/L	1.5	1.5	<1.5	<1.5

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

**The sample collected for TetraEthyl Lead was 12°C when it arrived in Texas for analysis.*

*** 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.

**City Of Winnipeg
Water Waste Department**

South End Water Pollution Control Centre Quarterly Monitoring Report

4'th Quarter Sampling Parameter	November 10, 2009			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Miscellaneous					
Chromium, Hexavalent	mg/L	0.0010	0.0010	<0.0010	<0.0010
Mercury (Hg)-Total	ng/L	1	1	20	5.4
Toxaphene	mg/L	0.50	0.50	<0.50	<0.50
Phenols (4AAP)	mg/L	0.001	0.001	0.0553	0.0012
Total Oil and Grease	mg/L	1	1	68.2	<1.0
Tributyltin	ug/L	0.001	0.001	<0.001	<0.001
Tetraethyl Lead	ug/L	5.0	5.0	<5.0	<5.0
Trout Bioassay	Pass/Fail			NA	Fail
Total Metals*					
Arsenic, Total	mg/L	0.001	0.001	0.002	0.002
Cadmium, Total	mg/L	0.001	0.001	<0.001	<0.001
Chromium, Total	mg/L	0.001	0.001	0.005	0.005
Copper, Total	mg/L	0.001	0.001	0.145	0.030
Molybdenum, Total	mg/L	NA	NA	NA	NA
Nickel, Total	mg/L	0.001	0.001	0.017	0.007
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	0.110	0.041
Dioxins and Furans					
2378 TeCDD	pg/L	0.80	0.70	<0.80	<0.70
12378 PeCDD	pg/L	0.30	0.30	<0.30	<0.30
123478 HxCDD	pg/L	0.20	0.20	<0.20	<0.20
123678 HxCDD	pg/L	0.30	0.20	<0.30	<0.20
123789 HxCDD	pg/L	0.30	0.20	<0.30	<0.20
1234678 HpCDD	pg/L	0.2	0.20	15.5	2.45
OCDD	pg/L	0.3	0.30	99.2	7.36
Total TCDD	pg/L	0.80	0.60	<0.80	4.7
Total PeCDD	pg/L	0.30	0.30	<0.30	<0.30
Total HxCDD	pg/L	0.20	0.20	1.75	<0.20
Total HpCDD	pg/L	0.2	0.20	32.1	5.16
Total PCDDs	pg/L	0.60	0.60	133	17.2
2378 TeCDF	pg/L	0.40	0.50	<0.40	<0.50
12378 PeCDF	pg/L	0.20	0.20	<0.20	<0.20
23478 PeCDF	pg/L	0.20	0.20	<0.20	<0.20
123478 HxCDF	pg/L	0.10	0.10	<0.10	<0.10
123678 HxCDF	pg/L	0.10	0.10	<0.10	<0.10
123789 HxCDF	pg/L	0.10	0.10	<0.10	<0.10
234678 HxCDF	pg/L	0.10	0.10	<0.10	<0.10
1234678 HpCDF	pg/L	0.20	0.20	2.77	<0.20
1234789 HpCDF	pg/L	0.20	0.20	<0.30	<0.20
OCDF	pg/L	0.30	0.30	7.04	<0.30
Total TCDF	pg/L	0.40	0.50	<0.40	<0.50
Total PeCDF	pg/L	0.20	0.20	<0.20	<0.20
Total HxCDF	pg/L	0.1	0.10	1.6	<0.10
Total HpCDF	pg/L	0.20	0.50	2.94	<0.20

City Of Winnipeg Water Waste Department

South End Water Pollution Control Centre Quarterly Monitoring Report

4'th Quarter Sampling	November 10, 2009			SEWPCC	
Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Total PCDFs	pg/L	0.50	0.50	11.6	<0.50
Total TEQ (ND=0) (WHO Calc)	pg/L			0.21	0.03
Total TEQ (ND=0.5DL) (WHO Calc)	pg/L			0.88	0.64
Total TEQ (ND=DL) (WHO Calc)	pg/L			1.54	1.25
13C12 2378 TeCDD	%			38	47
13C12 12378 PeCDD	%			69	65
13C12 123478 HxCDD	%			74	70
13C12 123678 HxCDD	%			59	54
13C12 1234678 HpCDD	%			72	64
13C12 OCDD	%			64	60
13C12 2378 TeCDF	%			48	39
13C12 12378 PeCDF	%			80	84
13C12 23478 PeCDF	%			77	74
13C12 123478 HxCDF	%			66	63
13C12 123678 HxCDF	%			71	69
13C12 234678 HxCDF	%			71	61
13C12 123789 HxCDF	%			70	66
13C12 1234678 HpCDF	%			71	62
13C12 1234789 HpCDF	%			73	78
37C14 2378 TeCDD	%			33	40
EPA 8270 Extractables					
1,2,3-Trichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,2,4-Trichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,2-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,3-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,4-Dichlorobenzene	ug/L	4.0	0.40	<4.0	0.45
1-Chloronaphthalene	ug/L	4.0	0.40	<4.0	<0.40
1-Methylnaphthalene	ug/L	4.0	0.40	<4.0	<0.40
2,3,4,5-Tetrachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,4,6-Tetrachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,4-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,5,6-Tetrachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,5-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,4,5-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,4,6-Tribromophenol	%			113	102
2,4,6-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,4-Dichlorophenol	ug/L	3.0	0.30	<3.0	<0.30
2,4-Dimethylphenol	ug/L	5.0	0.50	<5.0	<0.50
2,4-Dinitrophenol	ug/L	10	1.0	<10	<1.0
2,4-Dinitrotoluene	ug/L	4.0	0.40	<4.0	<0.40
2,6-Dichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,6-Dinitrotoluene	ug/L	4.0	0.40	<4.0	<0.40
2-Chloronaphthalene	ug/L	4.0	0.40	<4.0	<0.40
2-Chlorophenol	ug/L	3.0	0.30	<3.0	<0.30
2-Fluorobiphenyl	%			101	61
2-Methylnaphthalene	ug/L	4.0	0.40	<4.0	<0.40
2-Methylphenol	ug/L	5.0	0.50	<5.0	<0.50
2-Nitrophenol	ug/L	5.0	0.50	<5.0	<0.50

**City Of Winnipeg
Water Waste Department**

South End Water Pollution Control Centre Quarterly Monitoring Report

4'th Quarter Sampling	November 10, 2009			SEWPCC	
	Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab
3&4-Methylphenol	ug/L	5.0	0.50	172	<0.50
3,3'-Dichlorobenzidine	ug/L	4.0	4.0	<4.0	<4.0
4,6-Dinitro-2-methylphenol	ug/L	20	2.0	<20	<2.0
4-Bromophenyl phenyl ether	ug/L	4.0	0.40	<4.0	<0.40
4-Chloro-3-methylphenol	ug/L	5.0	0.50	<5.0	<0.50
4-Chloroaniline	ug/L	4.0	0.40	<4.0	<0.40
4-Chlorophenyl phenyl ether	ug/L	4.0	0.40	<4.0	<0.40
4-Nitrophenol	ug/L	5.0	0.50	<5.0	<0.50
5-Nitroacenaphthene	ug/L	4.0	0.40	<4.0	<0.40
Acenaphthene	ug/L	2.0	0.20	<2.0	<0.20
Acenaphthylene	ug/L	2.0	0.20	<2.0	<0.20
Anthracene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(a)anthracene	ug/L	2.0	2.0	<2.0	<2.0
Benzo(a)pyrene	ug/L	0.50	0.50	<0.50	<0.50
Benzo(b)fluoranthene	ug/L	2.0	2.0	<2.0	<2.0
Benzo(ghi)perylene	ug/L	2.0	2.0	<2.0	<2.0
Benzo(k)fluoranthene	ug/L	2.0	2.0	<2.0	<2.0
Biphenyl	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-chloroethoxy)methane	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-chloroethyl)ether	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-chloroisopropyl)ether	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-ethylhexyl)phthalate	ug/L	20	20	<20	<20
Butylbenzyl phthalate	ug/L	4.0	4.0	<4.0	<4.0
Camphene	ug/L	4.0	0.40	<4.0	<0.40
Chrysene	ug/L	2.0	2.0	<2.0	<2.0
Cresols (total)	ug/L	1.0	1.0	172	<1.0
Dibenzo(a,h)anthracene	ug/L	2.0	2.0	<2.0	<2.0
Dibenzofuran	ug/L	2.0	0.20	<2.0	<0.20
Diethylphthalate	ug/L	2.0	0.20	<2.0	<0.20
Dimethylphthalate	ug/L	2.0	0.20	<2.0	<0.20
Di-n-butylphthalate	ug/L	20	2.0	<20	<2.0
Di-n-octylphthalate	ug/L	4.0	4.0	<4.0	<4.0
Diphenyl ether	ug/L	4.0	0.40	<4.0	<0.40
Diphenylamine	ug/L	4.0	0.40	<4.0	<0.40
Fluoranthene	ug/L	2.0	2.0	<2.0	<2.0
Fluorene	ug/L	2.0	0.20	<2.0	<0.20
Hexachlorobenzene	ug/L	0.40	0.0	<0.40	<0.040
Hexachlorobutadiene	ug/L	2.0	0.20	<2.0	<0.20
Hexachlorocyclopentadiene	ug/L	4.0	0.50	<4.0	<0.50
Hexachloroethane	ug/L	4.0	0.40	<4.0	<0.40
Indeno(1,2,3-cd)pyrene	ug/L	2.0	2.0	<2.0	<2.0
Indole	ug/L	4.0	0.40	42.8	<0.40
Isophorone	ug/L	4.0	0.40	<4.0	<0.40
Naphthalene	ug/L	2.0	0.20	<2.0	<0.20
Nitrobenzene	ug/L	4.0	0.40	<4.0	<0.40
Nitrobenzene d5	%			77	89
N-Nitroso-di-n-propylamine	ug/L	4.0	0.4	<4.0	<0.40
Pentachlorophenol	ug/L	5.0	0.5	<5.0	<0.50
Perylene	ug/L	2.0	2.0	<2.0	<2.0

**City Of Winnipeg
Water Waste Department**

South End Water Pollution Control Centre Quarterly Monitoring Report

4'th Quarter Sampling Parameter	November 10, 2009			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Phenanthrene	ug/L	2.0	0.2	<2.0	<0.20
Phenol	ug/L	5.0	0.5	28.4	<0.50
Phenol d5	%			20	20
p-Terphenyl d14	%			55	77
Pyrene	ug/L	2.0	2.0	<2.0	<2.0
Low Level Nonylphenols and Ethoxylates					
Nonylphenols	ug/L	0.1	0.1	4.43	0.96
Nonylphenol Monoethoxylates	ug/L	0.5	0.5	16.6	<0.50
Nonylphenol Diethoxylates	ug/L	1.2	1.2	<1.2	<1.2
Nonylphenol Triethoxylates	ug/L	2.0	2.0	<2.0	<2.0
t-Octylphenol	ug/L	0.020	0.02	0.462	0.16
t-Octylphenol Monoethoxylate	ug/L	0.10	0.10	0.23	<0.10
t-Octylphenol Diethoxylate	ug/L	0.20	0.20	<0.20	0.21
t-Octylphenol Triethoxylate	ug/L	0.50	0.50	<0.50	<0.50
TOTAL TEQ (CCME)	ug/L			13	1.2
PCB					
Aroclor 1016	mg/L	0.00025	0.00010	<0.00025	<0.00010
Aroclor 1221	mg/L	0.00025	0.00010	<0.00025	<0.00010
Aroclor 1232	mg/L	0.00025	0.00010	<0.00025	<0.00010
Aroclor 1242	mg/L	0.00025	0.00010	<0.00025	<0.00010
Aroclor 1248	mg/L	0.00025	0.00010	<0.00025	<0.00010
Aroclor 1254	mg/L	0.00025	0.00010	<0.00025	<0.00010
Aroclor 1260	mg/L	0.00025	0.00010	<0.00025	<0.00010
Aroclor 1262	mg/L	0.00025	0.00010	<0.00025	<0.00010
Aroclor 1268	mg/L	0.00025	0.00010	<0.00025	<0.00010
Total PCBs	mg/L	0.00025	0.00010	<0.00025	<0.00010
Decachlorobiphenyl	%			54	94
Pesticides, Organochlorine					
2-Fluorobiphenyl	%			41	45
a-chlordane	ug/L	1.0	0.10	<1.0	<0.10
Aldrin	ug/L	1.0	0.10	<1.0	<0.10
alpha-BHC	ug/L	1.0	0.10	<1.0	<0.10
alpha-Endosulfan	ug/L	1.0	0.10	<1.0	<0.10
beta-BHC	ug/L	1.0	0.10	<1.0	<0.10
beta-Endosulfan	ug/L	1.0	0.10	<1.0	<0.10
d14-Terphenyl	%			50	85
delta-BHC	ug/L	1.0	0.10	<1.0	<0.10
Dieldrin	ug/L	1.0	0.10	<1.0	<0.10
Endosulfan Sulfate	ug/L	1.0	0.10	<1.0	<0.10
Endrin	ug/L	1.0	0.10	<1.0	<0.10
Endrin Aldehyde	ug/L	1.0	0.10	<1.0	<0.10
g-chlordane	ug/L	1.0	0.10	<1.0	<0.10
Heptachlor	ug/L	1.0	0.10	<1.0	<0.10
Heptachlor Epoxide	ug/L	1.0	0.10	<1.0	<0.10
Lindane	ug/L	1.0	0.10	<1.0	<0.10
Methoxychlor	ug/L	1.0	0.10	<1.0	<0.10

**City Of Winnipeg
Water Waste Department**

South End Water Pollution Control Centre Quarterly Monitoring Report

4'th Quarter Sampling Parameter	November 10, 2009			SEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Mirex	ug/L	1.0	0.10	<1.0	<0.10
o,p-DDE	ug/L	1.0	0.10	<1.0	<0.10
op-DDD	ug/L	1.0	0.10	<1.0	<0.10
op-DDT	ug/L	1.0	0.10	<1.0	<0.10
Oxychlorane	ug/L	1.0	0.10	<1.0	<0.10
pp-DDD	ug/L	1.0	0.10	<1.0	<0.10
pp-DDE	ug/L	1.0	0.10	<1.0	<0.10
pp-DDT	ug/L	1.0	0.10	<1.0	<0.10
Phenoxyacid Herbicides by GC/MS					
2,4,5-T	ug/L	0.50	0.50	<0.50	<0.50
2,4,5-TP	ug/L	0.50	0.50	<0.50	<0.50
2,4-D	ug/L	0.50	0.50	<0.50	<0.50
2,4-Dichlorophenylacetic Acid	%			79	104
Bromoxynil	ug/L	0.50	0.50	<0.50	<0.50
Dicamba	ug/L	0.50	0.50	<0.50	<0.50
Dinoseb	ug/L	0.50	0.50	<0.50	<0.50
MCPA	ug/L	0.50	0.50	<0.50	<0.50
Mecoprop	ug/L	0.50	0.50	<0.50	<0.50
Picloram	ug/L	0.50	0.50	<0.50	<0.50
Target Compounds by GC/MS					
2-Fluorobiphenyl	%			115	87
4,4'-Methylenebis(2-chloroaniline)	mg/L	0.0050	0.0005	<0.0050	<0.00050
Dinitropyrene	mg/L	0.20	0.020	<0.20	<0.020
Octachlorostyrene	mg/L	0.00050	0.00050	<0.00050	<0.00050
p-Terphenyl d14	%			122	113
Volatile Organics					
1,1,1,2-Tetrachloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,1,1-Trichloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,1-Dichloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/L	0.50	0.50	<0.50	<0.50
1,2-Dibromoethane	ug/L	0.50	0.50	<0.50	<0.50
1,2-Dichlorobenzene	ug/L	0.50	0.50	<0.50	<0.50
1,2-Dichloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,2-Dichloroethane d4	%			108	105
1,2-Dichloropropane	ug/L	0.50	0.50	<0.50	<0.50
1,3-Dichlorobenzene	ug/L	0.50	0.50	<0.50	<0.50
1,4-Dichlorobenzene	ug/L	0.50	0.50	<0.50	0.62
2-Hexanone	ug/L	20	20	<20	<20
4-Bromofluorobenzene	%			96	105
Acetone	ug/L	80	20	149	<20
Benzene	ug/L	0.50	0.50	<0.50	<0.50
Bromodichloromethane	ug/L	0.50	0.50	<0.50	<0.50
Bromoform	ug/L	0.50	0.50	<0.50	<0.50
Bromomethane	ug/L	1.0	1.0	<1.0	<1.0

**City Of Winnipeg
Water Waste Department**

South End Water Pollution Control Centre Quarterly Monitoring Report

4'th Quarter Sampling	November 10, 2009			SEWPCC	
	Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab
Carbon Disulfide	ug/L	0.50	0.50	4.49	<0.50
Carbon tetrachloride	ug/L	0.50	0.50	<0.50	<0.50
Chlorobenzene	ug/L	0.50	0.50	<0.50	<0.50
Chloroethane	ug/L	1.0	1.0	<1.0	<1.0
Chloroform	ug/L	0.50	0.50	8.11	7.14
Chloromethane	ug/L	1.0	1.0	<1.0	<1.0
cis-1,2-Dichloroethylene	ug/L	0.50	0.50	<0.50	<0.50
cis-1,3-Dichloropropene	ug/L	0.50	0.50	<0.50	<0.50
Dibromochloromethane	ug/L	0.50	0.50	<0.50	<0.50
Dichlorodifluoromethane	ug/L	1.0	1.0	<1.0	<1.0
Dichloromethane	ug/L	0.50	0.50	0.58	3.15
Ethyl Benzene	ug/L	0.50	0.50	2.82	<0.50
m+p-Xylenes	ug/L	1.0	1.0	14.6	<1.0
Methyl Ethyl Ketone	ug/L	20	20	<20	<20
Methyl Isobutyl Ketone	ug/L	20	20	<20	<20
MTBE	ug/L	0.50	0.50	<0.50	<0.50
o-Xylene	ug/L	0.50	0.50	6.65	<0.50
Styrene	ug/L	0.50	0.50	<0.50	<0.50
Tetrachloroethylene	ug/L	0.50	0.50	2.48	<0.50
Toluene	ug/L	0.50	0.50	8.69	1.33
Toluene-d8	%			99	100
trans-1,2-Dichloroethylene	ug/L	0.50	0.50	<0.50	<0.50
trans-1,3-Dichloropropene	ug/L	0.50	0.50	<0.50	<0.50
Trichloroethylene	ug/L	0.50	0.50	<0.50	<0.50
Trichlorofluoromethane	ug/L	1.0	1.0	<1.0	<1.0
Trihalomethanes (total)	ug/L	2.0	2.0	8.1	7.1
Vinyl chloride	ug/L	0.50	0.50	<0.50	<0.50
Xylenes (Total)	ug/L	1.5	1.5	21.3	<1.5

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.*