

**City Of Winnipeg
Water Waste Department**

North End Water Pollution Control Centre Quarterly Monitoring Report

1'st Quarter Sampling Parameter	February 12, 2013			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Miscellaneous					
Ammonia, Total (as N)	mg/L		1.0	NA	32.1
Ammonia, Un-ionized (as N)	mg/L		0.010	NA	0.054
Chlorine, Total	mg/L		0.10	NA	<0.10
Chromium, Hexavalent	ug/L	1.0	1.0	<1.0	<1.0
Phenols (4AAP)	mg/L	0.0010	0.0010	0.0450	<0.0010
Tetraethyl Lead	ug/L	0.0070	0.00070	<0.0070	<0.00070
Toxaphene	ug/L	1.5	1.5	<1.5	<1.5
Tri-n-butyltin Cation	ug/L	0.050	0.050	<0.050	<0.050
Hydrocarbons, Recoverable (I.R.)	mg/L	1.0	1.0	7.6	<1.0
Trout Bioassay	Pass/Fail			NA	Pass
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	72.0	78.8
Surrogate: Decachlorobiphenyl	%	50-150	50-150	94.9	101.4
Surrogate: Tetrachloro-m-xylene	%	50-150	50-150	89.7	84.7
Surrogate: Tri-n-propyltin	%	31-137	31-137	101	90
Total Metals by ICP-MS					
Arsenic (As)-Total	mg/L	0.00020	0.00020	0.00195	0.00117
Cadmium (Cd)-Total	mg/L	0.000010	0.000010	0.000171	0.000039
Chromium (Cr)-Total	mg/L	0.0010	0.0010	0.0099	0.0031
Copper (Cu)-Total	mg/L	0.00020	0.00020	0.06070	0.00445
Lead (Pb)-Total	mg/L	0.000090	0.000090	0.010000	0.000211
Mercury (Hg)-Total	ng/L	1.0	1.0	179.0	2.7
Molybdenum (Mo)-Total	mg/L	0.00020	0.00020	0.01000	0.01290
Nickel (Ni)-Total	mg/L	0.0020	0.0020	0.0077	0.0059
Selenium (Se)-Total	mg/L	0.0010	0.0010	0.0015	<0.0010
Zinc (Zn)-Total	mg/L	0.0050	0.0050	0.1700	0.1730
Dioxins and Furans					
2378 TCDD	pg/L	0.95	0.54	<0.95	<0.54
12378 PeCDD	pg/L	2.8	2.3	<2.8	<2.3
123478 HxCDD	pg/L	1.8	0.76	<1.8	<0.76
123678 HxCDD	pg/L	2.1	0.94	<2.1	<0.94
123789 HxCDD	pg/L	1.9	0.82	<1.9	<0.82
1234678 HpCDD	pg/L	4.1	1.4	43.1	<1.4
OCDD	pg/L	5.4	3.9	344.0	6.8
Total TCDD	pg/L	0.95	0.54	<0.95	<0.54
Total PeCDD	pg/L	2.8	2.3	14.3	<2.3
Total HxCDD	pg/L	2.1	0.94	<2.1	<0.94
Total HpCDD	pg/L	4.1	1.4	85.7	<1.4
2378 TCDF	pg/L	0.69	0.69	<0.69	<0.69
12378 PeCDF	pg/L	1.4	1.1	<1.4	<1.1
23478 PeCDF	pg/L	1.4	0.94	<1.4	<0.94
123478 HxCDF	pg/L	2.4	0.80	<2.4	<0.80
123678 HxCDF	pg/L	2.7	0.79	<2.7	<0.79
123789 HxCDF	pg/L	2.8	0.87	<2.8	<0.87
234678 HxCDF	pg/L	3.4	0.99	<3.4	<0.99
1234678 HpCDF	pg/L	1.7	0.82	6.2	<0.82
1234789 HpCDF	pg/L	2.6	1.3	<2.6	<1.3
OCDF	pg/L	4.6	2.9	11.0	<2.9
Total TCDF	pg/L	0.69	0.69	<0.69	<0.69
Total PeCDF	pg/L	1.4	1.1	3.2	<1.1
Total HxCDF	pg/L	3.4	0.99	<3.4	<0.99

**City Of Winnipeg
Water Waste Department**

North End Water Pollution Control Centre Quarterly Monitoring Report

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Total HpCDF	pg/L	2.6	1.3	12.1	<1.3
Lower Bound PCDD/F TEQ (WHO 2005)	pg/L			0.596	0.00203
Mid Point PCDD/F TEQ (WHO 2005)	pg/L			3.61	1.93
Upper Bound PCDD/F TEQ (WHO 2005)	pg/L			6.62	3.86
Surrogate: 13C12 2378 TCDD	%	20-175	20-175	81.0	83.0
Surrogate: 13C12 12378 PeCDD	%	21-227	21-227	69.0	116.0
Surrogate: 13C12 123478 HxCDD	%	21-193	21-193	93.0	91.0
Surrogate: 13C12 123678 HxCDD	%	25-163	25-163	71.0	73.0
Surrogate: 13C12 1234678 HpCDD	%	23-166	23-166	72.0	72.0
Surrogate: 13C12 OCDD	%	13-138	13-138	96.0	78.0
Surrogate: 13C12 2378 TCDF	%	22-152	22-152	85.0	79.0
Surrogate: 13C12 12378 PeCDF	%	24-185	24-185	59.0	89.0
Surrogate: 13C12 23478 PeCDF	%	21-178	21-178	66.0	109.0
Surrogate: 13C12 123478 HxCDF	%	26-152	26-152	76.0	69.0
Surrogate: 13C12 123678 HxCDF	%	21-159	21-159	68.0	67.0
Surrogate: 13C12 234678 HxCDF	%	17-205	17-205	74.0	69.0
Surrogate: 13C12 123789 HxCDF	%	28-136	28-136	56.0	57.0
Surrogate: 13C12 1234678 HpCDF	%	21-158	21-158	74.0	67.0
Surrogate: 13C12 1234789 HpCDF	%	20-186	20-186	78.0	66.0
Surrogate: 37C14 2378 TCDD	%	31-191	31-191	90.0	84.0
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	10	0.50	<10	<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	10	0.50	<10	<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-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	100	1.0	<100	<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-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
3&4-Methylphenol	ug/L	50	0.50	237	<0.50
3,3'-Dichlorobenzidine	ug/L	4.0	0.40	<4.0	<0.40
4,6-Dinitro-2-methylphenol	ug/L	200	2.0	<200	<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

**City Of Winnipeg
Water Waste Department**

North End Water Pollution Control Centre Quarterly Monitoring Report

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				Grab	Grab
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	2.9
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
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	2.0	<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	40	0.40	<40	<0.40
Isophorone	ug/L	4.0	0.40	<4.0	<0.40
Naphthalene	ug/L	2.0	0.20	2.1	<0.20
Nitrobenzene	ug/L	4.0	0.40	<4.0	<0.40
N-Nitroso-di-n-propylamine	ug/L	4.0	0.40	<4.0	<0.40
Pentachlorophenol	ug/L	10	0.50	<10	<0.50
Perylene	ug/L	2.0	0.20	<2.0	<0.20
Phenanthrene	ug/L	2.0	0.20	<2.0	<0.20
Phenol	ug/L	5.0	0.50	28.0	<0.50
Pyrene	ug/L	2.0	0.20	<2.0	<0.20
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	NR*	93.2
Surrogate: 2,4,6-Tribromophenol	%	40-150	40-150	125.4	138.5
Surrogate: Nitrobenzene d5	%	50-130	50-130	127.4	106.1
Surrogate: p-Terphenyl d14	%	50-150	50-150	52.0	112.4
Surrogate: Phenol d5	%	30-130	30-130	45.6	53.3

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Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Low Level Nonylphenols and Ethoxylates					
Bisphenol A	ug/L	0.20	0.20	<0.20	<0.20
Nonylphenols	ug/L	1.0	1.0	<1.0	<1.0
Nonylphenol Monoethoxylates	ug/L	2.0	2.0	11.0	<2.0
Nonylphenol Diethoxylates	ug/L	0.10	0.10	2.85	0.12
Total Nonylphenol Ethoxylates	ug/L	2.0	2.0	13.9	<2.0
Octylphenol	ug/L	1.0	1.0	<1.0	<1.0
Octylphenol Monoethoxylate	ug/L	2.0	2.0	<2.0	<2.0
Octylphenol Diethoxylate	ug/L	0.10	0.10	0.25	<0.10
Total Octylphenol Ethoxylate	ug/L	2.0	2.0	<2.0	<2.0
Octachlorostyrene					
Octachlorostyrene	ug/L	0.50	0.050	<0.50	<0.050
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	47.3	89.7
Surrogate: p-Terphenyl d14	%	50-150	50-150	70.5	97.1
PCB					
Aroclor 1016	mg/L	0.00010	0.000050	<0.00010	<0.000050
Aroclor 1221	mg/L	0.00010	0.000050	<0.00010	<0.000050
Aroclor 1232	mg/L	0.00010	0.000050	<0.00010	<0.000050
Aroclor 1242	mg/L	0.00010	0.000050	<0.00010	<0.000050
Aroclor 1248	mg/L	0.00010	0.000050	<0.00010	<0.000050
Aroclor 1254	mg/L	0.00010	0.000050	<0.00010	<0.000050
Aroclor 1260	mg/L	0.00010	0.000050	<0.00010	<0.000050
Aroclor 1262	mg/L	0.00010	0.000050	<0.00010	<0.000050
Aroclor 1268	mg/L	0.00010	0.000050	<0.00010	<0.000050
Total PCBs	mg/L	0.00030	0.00015	<0.00030	<0.00015
Surrogate: Decachlorobiphenyl	%	50-150	50-150	62.0	88.0
Pesticides, Organochlorine					
a-chlordane	ug/L	10	1.0	<10	<1.0
Aldrin	ug/L	10	1.0	<10	<1.0
alpha-BHC	ug/L	10	1.0	<10	<1.0
alpha-Endosulfan	ug/L	10	1.0	<10	<1.0
beta-BHC	ug/L	10	1.0	<10	<1.0
beta-Endosulfan	ug/L	10	1.0	<10	<1.0
delta-BHC	ug/L	10	1.0	<10	<1.0
Dieldrin	ug/L	10	1.0	<10	<1.0
Endosulfan Sulfate	ug/L	10	1.0	<10	<1.0
Endrin	ug/L	10	1.0	<10	<1.0
Endrin Aldehyde	ug/L	10	1.0	<10	<1.0
g-chlordane	ug/L	10	1.0	<10	<1.0
Heptachlor	ug/L	10	1.0	<10	<1.0
Heptachlor Epoxide	ug/L	10	1.0	<10	<1.0
Hexachlorobenzene	ug/L	10	1.0	<10	<1.0
Lindane	ug/L	10	1.0	<10	<1.0
Methoxychlor	ug/L	10	1.0	<10	<1.0
Mirex	ug/L	10	1.0	<10	<1.0
o,p-DDE	ug/L	10	1.0	<10	<1.0
o,p-DDD	ug/L	10	1.0	<10	<1.0
op-DDT	ug/L	10	1.0	<10	<1.0
Oxychlordane	ug/L	10	1.0	<10	<1.0
pp-DDD	ug/L	10	1.0	<10	<1.0

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Water Waste Department**

North End Water Pollution Control Centre Quarterly Monitoring Report

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pp-DDE	ug/L	10	1.0	<10	<1.0
pp-DDT	ug/L	10	1.0	<10	<1.0
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	NR**	69.8
Surrogate: d14-Terphenyl	%	50-150	50-150	NR**	105.0
Phenoxyacid Herbicides by GC/MS					
2,4,5-T	ug/L	5.0	0.50	<5.0	<0.50
2,4,5-TP	ug/L	5.0	0.50	<5.0	<0.50
2,4-D	ug/L	5.0	0.50	<5.0	<0.50
2,4-DP	ug/L	5.0	0.50	<5.0	<0.50
Bromoxynil	ug/L	5.0	0.50	<5.0	<0.50
Dicamba	ug/L	5.0	0.50	<5.0	<0.50
Dinoseb	ug/L	5.0	0.50	<5.0	<0.50
MCPA	ug/L	5.0	0.50	<5.0	<0.50
Mecoprop	ug/L	5.0	0.50	<5.0	<0.50
Picloram	ug/L	5.0	0.50	<5.0	<0.50
Surrogate: 2,4-Dichlorophenylacetic Acid	%	50-130	50-130	122.0	117.7
Volatile Organics plus F1					
1,1,1,2-Tetrachloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,1-Trichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,2,2-Tetrachloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,2-Trichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1-Dichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1-Dichloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dibromo-3-chloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dibromoethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,3-Trichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,3-Trichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,4-Trichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,4-Trimethylbenzene	mg/L	0.0015	0.00050	<0.0015	<0.00050
1,3-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3,5-Trimethylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,4-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
2-Chlorotoluene	mg/L	0.020	0.020	<0.020	<0.020
2-Hexanone	mg/L	0.020	0.020	<0.020	<0.020
2,2-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
4-Chlorotoluene	mg/L	0.00050	0.00050	<0.00050	<0.00050
4-Isopropyltoluene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Acetone	mg/L	0.25	0.020	<0.25	<0.020
Benzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromochloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromodichloromethane	mg/L	0.00050	0.00050	0.00084	<0.00050
Bromoform	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromomethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
Carbon Disulfide	mg/L	0.0010	0.00050	<0.0010	<0.00050
Carbon tetrachloride	mg/L	0.00050	0.00050	<0.00050	<0.00050

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Water Waste Department**

North End Water Pollution Control Centre Quarterly Monitoring Report

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Chlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Chloroethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
Chloroform	mg/L	0.00050	0.00050	0.00594	0.00371
Chloromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
cis-1,2-Dichloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
cis-1,3-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dibromochloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dibromomethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dichlorodifluoromethane	mg/L	0.0015	0.0010	<0.0015	<0.0010
Dichloromethane	mg/L	0.0010	0.0015	<0.0010	<0.0015
Ethyl Benzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
F1	mg/L	0.10	0.10	<0.10	<0.10
Hexachlorobutadiene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Hexane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Isopropylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
m+p-Xylenes	mg/L	0.00050	0.00050	<0.00050	<0.00050
Methyl Ethyl Ketone	mg/L	0.020	0.020	<0.020	<0.020
Methyl Isobutyl Ketone	mg/L	0.020	0.020	<0.020	<0.020
MTBE	mg/L	0.00050	0.00050	<0.00050	<0.00050
n-Butylbenzene	mg/L	0.0015	0.00050	<0.0015	<0.00050
Naphthalene	mg/L	0.00050	0.00050	0.00333	<0.00050
o-Xylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
sec-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Styrene	mg/L	0.00050	0.00050	<0.00050	<0.00050
tert-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Tetrachloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Toluene	mg/L	0.00050	0.00050	0.00407	0.00055
trans-1,2-Dichloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
trans-1,3-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Trichloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Trichlorofluoromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
Trihalomethanes (total)	mg/L	0.0010	0.0010	0.0068	0.0037
Vinyl chloride	mg/L	0.00050	0.00050	<0.00050	<0.00050
Xylenes (Total)	mg/L	0.00070	0.00070	<0.00070	<0.00070
Surrogate: 1,4-Difluorobenzene	%	70-130	70-130	97.9	99.5
Surrogate: 4-Bromofluorobenzene	%	70-130	70-130	86.1	92.8

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*- surrogate recovery could not be measured due to sample matrix interference

NR**- surrogate diluted out: % recovery not available

All parameters were analyzed by contract laboratory.

**City Of Winnipeg
Water Waste Department**

North End Water Pollution Control Centre Quarterly Monitoring Report

2nd Quarter Sampling Parameter	May 14, 2013			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Miscellaneous					
Ammonia, Total (as N)	mg/L		1.0	NA	27.6
Ammonia, Un-ionized (as N)	mg/L		0.010	NA	0.056
Chlorine, Total	mg/L		0.10	NA	<0.10
Chromium, Hexavalent	ug/L	1.0	1.0	<1.0	<1.0
Phenols (4AAP)	mg/L	0.0010	0.0010	0.0370	0.0010
Tetraethyl Lead	ug/L	0.0070	0.00070	<0.0070	<0.00070
Toxaphene	ug/L	1.5	1.5	<1.5	<1.5
Tri-n-butyltin Cation	ug/L	0.050	0.050	<0.050	<0.050
Hydrocarbons, Recoverable (I.R.)	mg/L	1.0	1.0	35.6	<1.0
Trout Bioassay	Pass/Fail			NA	Pass
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	57.7	55.5
Surrogate: Decachlorobiphenyl	%	50-150	50-150	97.1	94.4
Surrogate: Tetrachloro-m-xylene	%	50-150	50-150	82.2	81.2
Surrogate: Tri-n-propyltin	%	31-137	31-137	99.0	102
Total Metals by ICP-MS					
Arsenic (As)-Total	mg/L	0.00020	0.00020	0.00239	0.00182
Cadmium (Cd)-Total	mg/L	0.000010	0.000010	0.000130	0.000070
Chromium (Cr)-Total	mg/L	0.0010	0.0010	0.0062	0.0202
Copper (Cu)-Total	mg/L	0.00020	0.00020	0.04120	0.00474
Lead (Pb)-Total	mg/L	0.900000	0.00009	0.00321	0.000417
Mercury (Hg)-Total	ng/L	0.000020	0.000020	0.000120	0.000050
Molybdenum (Mo)-Total	mg/L	0.00020	0.00020	0.00738	0.01050
Nickel (Ni)-Total	mg/L	0.0020	0.0020	0.0059	0.0050
Selenium (Se)-Total	mg/L	0.0010	0.0010	0.0015	0.0010
Zinc (Zn)-Total	mg/L	0.0050	0.0050	0.0705	0.0346
Dioxins and Furans					
2378 TCDD	pg/L	0.028	0.23	<0.028	<0.23
12378 PeCDD	pg/L	0.039	0.064	<0.039	<0.064
123478 HxCDD	pg/L	0.0095	0.031	0.160	<0.031
123678 HxCDD	pg/L	0.012	0.037	0.600	0.170
123789 HxCDD	pg/L	0.011	0.034	0.515	<0.034
1234678 HpCDD	pg/L	0.098	0.098	5.90	0.850
OCDD	pg/L	0.059	0.13	42.9	3.38
Total TCDD	pg/L	0.028	0.23	0.078	8.07
Total PeCDD	pg/L	0.039	0.064	0.765	<0.064
Total HxCDD	pg/L	0.012	0.037	0.515	0.129
Total HpCDD	pg/L	0.098	0.098	5.90	<0.098
2378 TCDF	pg/L	0.034	0.23	0.042	<0.23
12378 PeCDF	pg/L	0.035	0.028	<0.035	<.028
23478 PeCDF	pg/L	0.035	0.026	0.170	0.350
123478 HxCDF	pg/L	0.0076	0.041	0.5620	0.068
123678 HxCDF	pg/L	0.0074	0.041	0.5000	0.130
123789 HxCDF	pg/L	0.0082	0.041	0.0900	0.095
234678 HxCDF	pg/L	0.0073	0.039	0.4000	0.170
1234678 HpCDF	pg/L	0.011	0.047	2.35	0.440
1234789 HpCDF	pg/L	0.013	0.056	0.230	<.056
OCDF	pg/L	0.035	0.053	5.60	0.556
Total TCDF	pg/L	0.034	0.041	1.92	<0.41
Total PeCDF	pg/L	0.035	0.028	2.790	<0.028
Total HxCDF	pg/L	0.0082	0.041	2.8200	<0.041

**City Of Winnipeg
Water Waste Department**

North End Water Pollution Control Centre Quarterly Monitoring Report

2nd Quarter Sampling Parameter	May 14, 2013			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage	Final Effluent
				Grab	Grab
Total HpCDF	pg/L	0.013	0.056	2.35	<0.056
Lower Bound PCDD/F TEQ (WHO 2005)	pg/L			0.203	0.00118
Mid Point PCDD/F TEQ (WHO 2005)	pg/L			0.471	0.335
Upper Bound PCDD/F TEQ (WHO 2005)	pg/L			0.505	0.488
Surrogate: 13C12 2378 TCDD	%	20-175	20-175	77.0	67.0
Surrogate: 13C12 12378 PeCDD	%	21-227	21-227	89.0	77.0
Surrogate: 13C12 123478 HxCDD	%	21-193	21-193	73.0	70.0
Surrogate: 13C12 123678 HxCDD	%	25-163	25-163	60.0	59.0
Surrogate: 13C12 1234678 HpCDD	%	23-166	23.166	66.0	66.0
Surrogate: 13C12 OCDD	%	13-138	13-138	79.0	73.0
Surrogate: 13C12 2378 TCDF	%	22-152	22-152	75.0	60.0
Surrogate: 13C12 12378 PeCDF	%	24-185	24-185	92.0	76.0
Surrogate: 13C12 23478 PeCDF	%	21-178	21-178	89.0	75.0
Surrogate: 13C12 123478 HxCDF	%	26-152	26-152	54.0	53.0
Surrogate: 13C12 123678 HxCDF	%	21-159	21-159	53.0	50.0
Surrogate: 13C12 234678 HxCDF	%	17-205	17-205	57.0	55.0
Surrogate: 13C12 123789 HxCDF	%	28-136	28-136	60.0	62.0
Surrogate: 13C12 1234678 HpCDF	%	21-158	21-158	60.0	61.0
Surrogate: 13C12 1234789 HpCDF	%	20-186	20-186	64.0	65.0
Surrogate: 37C14 2378 TCDD	%	31-191	31-191	80.0	71.0
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-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	<10.0	<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-Methylnaphthalene	ug/L	4.0	0.40	<4.0	<0.40
2-Methylphenol	ug/L	5.0	0.40	<5.0	<0.40
2-Nitrophenol	ug/L	5.0	0.50	<5.0	<0.50
3&4-Methylphenol	ug/L	50.0	0.50	119.0	<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	<20.0	<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

**City Of Winnipeg
Water Waste Department**

North End Water Pollution Control Centre Quarterly Monitoring Report

2nd Quarter Sampling Parameter	May 14, 2013			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage	Final Effluent
				Grab	Grab
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
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	2.0	<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	18.5	<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
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
Phenanthrene	ug/L	2.0	0.20	<2.0	<0.20
Phenol	ug/L	5.0	0.50	23.6	<0.50
Pyrene	ug/L	2.0	0.20	<2.0	<0.20
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	97.6	81.2
Surrogate: 2,4,6-Tribromophenol	%	40-150	40-150	178	103.3
Surrogate: Nitrobenzene d5	%	50-130	50-130	123.1	91.1
Surrogate: p-Terphenyl d14	%	50-150	50-150	75.1	78.3
Surrogate: Phenol d5	%	30-130	30-130	75.1	53.4

**City Of Winnipeg
Water Waste Department**

North End Water Pollution Control Centre Quarterly Monitoring Report

2nd Quarter Sampling	May 14, 2013			NEWPCC	
Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Low Level Nonylphenols and Ethoxylates					
Bisphenol A	ug/L	0.20	0.20	0.38	0.37
Nonylphenols	ug/L	1.0	1.0	<1.0	<1.0
Nonylphenol Monoethoxylates	ug/L	2.0	2.0	2.6	<2.0
Nonylphenol Diethoxylates	ug/L	0.10	0.10	1.19	0.36
Total Nonylphenol Ethoxylates	ug/L	2.0	2.0	3.8	<2.0
Octylphenol	ug/L	1.0	1.0	<1.0	<1.0
Octylphenol Monoethoxylate	ug/L	2.0	2.0	2.6	<2.0
Octylphenol Diethoxylate	ug/L	0.10	0.10	0.18	0.13
Total Octylphenol Ethoxylate	ug/L	2.0	2.0	<2.0	<2.0
Octachlorostyrene					
Octachlorostyrene	ug/L	0.50	0.05	<0.50	<0.05
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	85.1	84.7
Surrogate: p-Terphenyl d14	%	50-150	50-150	105.5	101.6
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	0.00030	0.0003	<0.00030	<0.00030
Surrogate: Decachlorobiphenyl	%	50-150	50-150	66.0	98.0
Pesticides, Organochlorine					
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
delta-BHC	ug/L	1.0	0.10	<1.0	<0.10
Dieldrin	ug/L	1.1	0.10	<1.1	<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
Hexachlorobenzene	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
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
Oxychlordane	ug/L	1.0	0.10	<1.0	<0.10
pp-DDD	ug/L	1.0	0.10	<1.0	<0.10

**City Of Winnipeg
Water Waste Department**

North End Water Pollution Control Centre Quarterly Monitoring Report

2nd Quarter Sampling Parameter	May 14, 2013			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage	Final Effluent
				Grab	Grab
pp-DDE	ug/L	1.0	0.10	<1.0	<0.10
pp-DDT	ug/L	1.0	0.10	<1.0	<0.10
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	81.8	84.9
Surrogate: d14-Terphenyl	%	50-150	50-150	79.5	113.2
Phenoxyacid Herbicides by GC/MS					
2,4,5-T	mg/L	5.0	0.50	<5.0	<0.50
2,4,5-TP	mg/L	5.0	0.50	<5.0	<0.50
2,4-D	mg/L	5.0	0.50	<5.0	<0.50
2,4-DP	mg/L	5.0	0.50	<5.0	<0.50
Bromoxynil	mg/L	5.0	0.50	<5.0	<0.50
Dicamba	mg/L	5.0	0.50	<5.0	<0.50
Dinoseb	mg/L	5.0	0.50	<5.0	<0.50
MCPA	mg/L	5.0	0.50	<5.0	<0.50
Mecoprop	mg/L	5.0	0.50	<5.0	<0.50
Picloram	mg/L	5.0	0.50	<5.0	<0.50
Surrogate: 2,4-Dichlorophenylacetic Acid	mg/L	50-130	50-130	79.1	102.3
Volatile Organics plus F1					
1,1,1,2-Tetrachloroethane	mg/L			NS	NS
1,1,1-Trichloroethane	mg/L			NS	NS
1,1,2,2-Tetrachloroethane	mg/L			NS	NS
1,1,2-Trichloroethane	mg/L			NS	NS
1,1-Dichloroethane	mg/L			NS	NS
1,1-Dichloroethylene	mg/L			NS	NS
1,1-Dichloropropene	mg/L			NS	NS
1,2-Dibromo-3-chloropropane	mg/L			NS	NS
1,2-Dibromoethane	mg/L			NS	NS
1,2-Dichlorobenzene	mg/L			NS	NS
1,2-Dichloroethane	mg/L			NS	NS
1,2-Dichloropropane	mg/L			NS	NS
1,2,3-Trichlorobenzene	mg/L			NS	NS
1,2,3-Trichloropropane	mg/L			NS	NS
1,2,4-Trichlorobenzene	mg/L			NS	NS
1,2,4-Trimethylbenzene	mg/L			NS	NS
1,3-Dichlorobenzene	mg/L			NS	NS
1,3-Dichloropropane	mg/L			NS	NS
1,3,5-Trimethylbenzene	mg/L			NS	NS
1,4-Dichlorobenzene	mg/L			NS	NS
2-Chlorotoluene	mg/L			NS	NS
2-Hexanone	mg/L			NS	NS
2,2-Dichloropropane	mg/L			NS	NS
4-Chlorotoluene	mg/L			NS	NS
4-Isopropyltoluene	mg/L			NS	NS
Acetone	mg/L			NS	NS
Benzene	mg/L			NS	NS
Bromobenzene	mg/L			NS	NS
Bromochloromethane	mg/L			NS	NS
Bromodichloromethane	mg/L			NS	NS
Bromoform	mg/L			NS	NS
Bromomethane	mg/L			NS	NS
Carbon Disulfide	mg/L			NS	NS
Carbon tetrachloride	mg/L			NS	NS

**City Of Winnipeg
Water Waste Department**

North End Water Pollution Control Centre Quarterly Monitoring Report

2nd Quarter Sampling Parameter	May 14, 2013			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage	Final Effluent
				Grab	Grab
Chlorobenzene	mg/L			NS	NS
Chloroethane	mg/L			NS	NS
Chloroform	mg/L			NS	NS
Chloromethane	mg/L			NS	NS
cis-1,2-Dichloroethylene	mg/L			NS	NS
cis-1,3-Dichloropropene	mg/L			NS	NS
Dibromochloromethane	mg/L			NS	NS
Dibromomethane	mg/L			NS	NS
Dichlorodifluoromethane	mg/L			NS	NS
Dichloromethane	mg/L			NS	NS
Ethyl Benzene	mg/L			NS	NS
F1	mg/L			NS	NS
Hexachlorobutadiene	mg/L			NS	NS
Hexane	mg/L			NS	NS
Isopropylbenzene	mg/L			NS	NS
m+p-Xylenes	mg/L			NS	NS
Methyl Ethyl Ketone	mg/L			NS	NS
Methyl Isobutyl Ketone	mg/L			NS	NS
MTBE	mg/L			NS	NS
n-Butylbenzene	mg/L			NS	NS
Naphthalene	mg/L			NS	NS
o-Xylene	mg/L			NS	NS
sec-Butylbenzene	mg/L			NS	NS
Styrene	mg/L			NS	NS
tert-Butylbenzene	mg/L			NS	NS
Tetrachloroethylene	mg/L			NS	NS
Toluene	mg/L			NS	NS
trans-1,2-Dichloroethylene	mg/L			NS	NS
trans-1,3-Dichloropropene	mg/L			NS	NS
Trichloroethylene	mg/L			NS	NS
Trichlorofluoromethane	mg/L			NS	NS
Trihalomethanes (total)	mg/L			NS	NS
Vinyl chloride	mg/L			NS	NS
Xylenes (Total)	mg/L			NS	NS
Surrogate: 1,4-Difluorobenzene	%			NS	NS
Surrogate: 4-Bromofluorobenzene	%			NS	NS

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
- NS- No sample due to technician error

All parameters were analyzed by contract laboratory.

**City Of Winnipeg
Water Waste Department**

North End Water Pollution Control Centre Quarterly Monitoring Report

3rd Quarter Sampling Parameter	August 13, 2013			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Miscellaneous					
Ammonia, Total (as N)	mg/L		1.0	NA	21.5
Ammonia, Un-ionized (as N)	mg/L		0.010	NA	0.047
Chlorine, Total	mg/L		0.10	NA	<0.10
Chromium, Hexavalent	ug/L	1.0	1.0	<1.0	<1.0
Phenols (4AAP)	mg/L	0.0010	0.0010	0.0720	<0.0010
Tetraethyl Lead	ug/L	0.070	0.0070	<0.070	<0.0070
Toxaphene	ug/L	1.5	1.5	<1.5	<1.5
Tri-n-butyltin Cation	ug/L	0.050	0.050	<0.050	<0.050
Hydrocarbons, Recoverable (I.R.)	mg/L	1.0	1.0	3.9	<1.0
Trout Bioassay	Pass/Fail			NA	Fail
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	81.0	76.0
Surrogate: Decachlorobiphenyl	%	50-150	50-150	76.5	94.4
Surrogate: Tetrachloro-m-xylene	%	50-150	50-150	73.4	95.0
Surrogate: Tri-n-propyltin	%	31-137	31-137	120	115
Total Metals by ICP-MS					
Arsenic (As)-Total	mg/L	0.00020	0.00020	0.00697	0.00137
Cadmium (Cd)-Total	mg/L	0.000010	0.000010	0.003670	0.000024
Chromium (Cr)-Total	mg/L	0.0010	0.0010	0.0296	0.0044
Copper (Cu)-Total	mg/L	0.00020	0.00020	0.13700	0.01010
Lead (Pb)-Total	mg/L	0.000090	0.000090	0.03480	0.000374
Mercury (Hg)-Total	ng/L	1.0	1.0	65.9	6.9
Molybdenum (Mo)-Total	mg/L	0.00020	0.00020	0.01150	0.0110
Nickel (Ni)-Total	mg/L	0.0020	0.0020	0.0348	0.0047
Selenium (Se)-Total	mg/L	0.0010	0.0010	0.0011	<0.0010
Zinc (Zn)-Total	mg/L	0.0050	0.0050	0.5450	0.0350
Dioxins and Furans					
2378 TCDD	pg/L	1.3	0.86	<1.3	<0.86
12378 PeCDD	pg/L	0.66	0.53	0.92	<0.53
123478 HxCDD	pg/L	0.45	0.42	0.58	<0.42
123678 HxCDD	pg/L	0.49	0.44	2.40	<0.44
123789 HxCDD	pg/L	0.45	0.41	1.82	<0.41
1234678 HpCDD	pg/L	0.61	0.48	67.2	0.94
OCDD	pg/L	5.7	0.77	702	3.96
Total TCDD	pg/L	1.3	0.86	1.9	1.71
Total PeCDD	pg/L	0.66	0.53	5.34	<0.53
Total HxCDD	pg/L	0.49	0.44	13.8	<0.44
Total HpCDD	pg/L	0.61	0.48	141	<0.48
2378 TCDF	pg/L	1.1	1.6	<1.1	<1.6
12378 PeCDF	pg/L	0.41	0.50	0.86	<0.50
23478 PeCDF	pg/L	0.36	0.44	0.92	<0.44
123478 HxCDF	pg/L	0.34	0.32	1.81	<0.32
123678 HxCDF	pg/L	0.34	0.31	1.41	<0.31
123789 HxCDF	pg/L	0.44	0.43	<0.44	<0.43
234678 HxCDF	pg/L	0.34	0.31	2.37	<0.31
1234678 HpCDF	pg/L	0.37	0.29	22.2	<0.29
1234789 HpCDF	pg/L	0.50	0.40	1.20	<0.40
OCDF	pg/L	0.91	0.57	47.1	<0.57
Total TCDF	pg/L	1.1	1.6	<1.1	<1.6
Total PeCDF	pg/L	0.41	0.50	9.99	<0.50
Total HxCDF	pg/L	0.44	0.43	26.4	<0.43

**City Of Winnipeg
Water Waste Department**

North End Water Pollution Control Centre Quarterly Monitoring Report

3rd Quarter Sampling Parameter	August 13, 2013			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Total HpCDF	pg/L	0.50	0.40	54.9	<0.40
Lower Bound PCDD/F TEQ (WHO 2005)	pg/L			2.80	0.00119
Mid Point PCDD/F TEQ (WHO 2005)	pg/L			4.12	0.995
Upper Bound PCDD/F TEQ (WHO 2005)	pg/L			4.84	1.98
Surrogate: 13C12 2378 TCDD	%	20-175	20-175	93.0	88.0
Surrogate: 13C12 12378 PeCDD	%	21-227	21-227	108.0	109.0
Surrogate: 13C12 123478 HxCDD	%	21-193	21-193	98.0	95.0
Surrogate: 13C12 123678 HxCDD	%	25-163	25-163	88.0	90.0
Surrogate: 13C12 1234678 HpCDD	%	23-166	23-166	95.0	94.0
Surrogate: 13C12 OCDD	%	13-138	13-138	86.0	81.0
Surrogate: 13C12 2378 TCDF	%	22-152	22-152	88.0	79.0
Surrogate: 13C12 12378 PeCDF	%	24-185	24-185	100.0	99.0
Surrogate: 13C12 23478 PeCDF	%	21-178	21-178	108.0	105.0
Surrogate: 13C12 123478 HxCDF	%	26-152	26-152	74.0	71.0
Surrogate: 13C12 123678 HxCDF	%	21-159	21-159	82.0	87.0
Surrogate: 13C12 234678 HxCDF	%	17-205	17-205	83.0	84.0
Surrogate: 13C12 123789 HxCDF	%	28-136	28-136	80.0	80.0
Surrogate: 13C12 1234678 HpCDF	%	21-158	21-158	83.0	83.0
Surrogate: 13C12 1234789 HpCDF	%	20-186	20-186	88.0	87.0
Surrogate: 37C14 2378 TCDD	%	31-191	31-191	87.0	82.0
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-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-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
3&4-Methylphenol	ug/L	50.0	0.50	355.0	<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

**City Of Winnipeg
Water Waste Department**

North End Water Pollution Control Centre Quarterly Monitoring Report

3rd Quarter Sampling Parameter	August 13, 2013			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage	Final Effluent
				Grab	Grab
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	38	2.1
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
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	2.0	<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	45.0	<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
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
Phenanthrene	ug/L	2.0	0.20	<2.0	<0.20
Phenol	ug/L	5.0	0.50	41.0	<0.50
Pyrene	ug/L	2.0	0.20	<2.0	<0.20
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	99.4	88.8
Surrogate: 2,4,6-Tribromophenol	%	40-150	40-150	107.0	102.0
Surrogate: Nitrobenzene d5	%	50-130	50-130	109.8	101.6
Surrogate: p-Terphenyl d14	%	50-150	50-150	72.5	91.3
Surrogate: Phenol d5	%	30-130	30-130	62.0	63.7

**City Of Winnipeg
Water Waste Department**

North End Water Pollution Control Centre Quarterly Monitoring Report

3rd Quarter Sampling	August 13, 2013			NEWPCC	
Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Low Level Nonylphenols and Ethoxylates					
Bisphenol A	ug/L	0.20	0.20	0.51	0.43
Nonylphenols	ug/L	1.0	1.0	<1.0	<1.0
Nonylphenol Monoethoxylates	ug/L	2.0	2.0	2.4	<2.0
Nonylphenol Diethoxylates	ug/L	0.10	0.10	0.75	<0.10
Total Nonylphenol Ethoxylates	ug/L	2.0	2.0	3.2	<2.0
Octylphenol	ug/L	1.0	1.0	<1.0	<1.0
Octylphenol Monoethoxylate	ug/L	2.0	2.0	<2.0	<2.0
Octylphenol Diethoxylate	ug/L	0.10	0.10	0.17	<0.10
Total Octylphenol Ethoxylate	ug/L	2.0	2.0	<2.0	<2.0
Octachlorostyrene					
Octachlorostyrene	ug/L	5.0	0.050	<5.0	<0.050
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	NA	98.8
Surrogate: p-Terphenyl d14	%	50-150	50-150	NA	84.7
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	0.00030	0.00030	<0.00030	<0.00030
Surrogate: Decachlorobiphenyl	%	50-150	50-150	39.0	72.0
Pesticides, Organochlorine					
a-chlordane	ug/L	10	0.10	<10	<0.10
Aldrin	ug/L	10	0.10	<10	<0.10
alpha-BHC	ug/L	10	0.10	<10	<0.10
alpha-Endosulfan	ug/L	10	0.10	<10	<0.10
beta-BHC	ug/L	10	0.10	<10	<0.10
beta-Endosulfan	ug/L	10	0.10	<10	<0.10
delta-BHC	ug/L	10	0.10	<10	<0.10
Dieldrin	ug/L	68	0.10	<68	<0.10
Endosulfan Sulfate	ug/L	10	0.10	<10	<0.10
Endrin	ug/L	10	0.10	<10	<0.10
Endrin Aldehyde	ug/L	10	0.10	<10	<0.10
g-chlordane	ug/L	10	0.10	<10	<0.10
Heptachlor	ug/L	10	0.10	<10	<0.10
Heptachlor Epoxide	ug/L	10	0.10	<10	<0.10
Hexachlorobenzene	ug/L	10	0.10	<10	<0.10
Lindane	ug/L	10	0.10	<10	<0.10
Methoxychlor	ug/L	10	0.10	<10	<0.10
Mirex	ug/L	10	0.10	<10	<0.10
o,p-DDE	ug/L	10	0.10	<10	<0.10
op-DDD	ug/L	10	0.10	<10	<0.10
op-DDT	ug/L	10	0.10	<10	<0.10
Oxychlordane	ug/L	10	0.10	<10	<0.10
pp-DDD	ug/L	10	0.10	<10	<0.10

**City Of Winnipeg
Water Waste Department**

North End Water Pollution Control Centre Quarterly Monitoring Report

3rd Quarter Sampling Parameter	August 13, 2013			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
pp-DDE	ug/L	10	0.10	<10	<0.10
pp-DDT	ug/L	10	0.10	<10	<0.10
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	NR**	88.0
Surrogate: d14-Terphenyl	%	50-150	50-150	NR**	98.6
Phenoxyacid Herbicides by GC/MS					
2,4,5-T	mg/L	5.0	0.50	<5.0	<0.50
2,4,5-TP	mg/L	5.0	0.50	<5.0	<0.50
2,4-D	mg/L	5.0	0.50	<5.0	<0.50
2,4-DP	mg/L	5.0	0.50	<5.0	<0.50
Bromoxynil	mg/L	5.0	0.50	<5.0	<0.50
Dicamba	mg/L	5.0	0.50	<5.0	<0.50
Dinoseb	mg/L	5.0	0.50	<5.0	<0.50
MCPA	mg/L	5.0	0.50	<5.0	<0.50
Mecoprop	mg/L	5.0	0.50	<5.0	<0.50
Picloram	mg/L	5.0	0.50	<5.0	<0.50
Surrogate: 2,4-Dichlorophenylacetic Acid	mg/L	50-130	50-130	123.5	119.4
Volatile Organics plus F1					
1,1,1,2-Tetrachloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,1-Trichloroethane	mg/L	0.00050	0.00050	0.00057	<0.00050
1,1,2,2-Tetrachloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,2-Trichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1-Dichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1-Dichloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dibromo-3-chloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dibromoethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,3-Trichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,3-Trichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,4-Trichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,4-Trimethylbenzene	mg/L	0.00050	0.00050	0.00150	<0.00050
1,3-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3,5-Trimethylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,4-Dichlorobenzene	mg/L	0.00050	0.00050	0.00078	<0.00050
2-Chlorotoluene	mg/L	0.020	0.020	<0.020	<0.020
2-Hexanone	mg/L	0.020	0.020	<0.020	<0.020
2,2-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
4-Chlorotoluene	mg/L	0.00050	0.00050	<0.00050	<0.00050
4-Isopropyltoluene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Acetone	mg/L	0.020	0.020	0.086	<0.020
Benzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromochloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromodichloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromoform	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromomethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
Carbon Disulfide	mg/L	0.00050	0.00050	0.00134	<0.00050
Carbon tetrachloride	mg/L	0.00050	0.00050	<0.00050	<0.00050

**City Of Winnipeg
Water Waste Department**

North End Water Pollution Control Centre Quarterly Monitoring Report

3rd Quarter Sampling Parameter	August 13, 2013			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Chlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Chloroethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
Chloroform	mg/L	0.00050	0.00050	0.00407	0.00245
Chloromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
cis-1,2-Dichloroethylene	mg/L	0.00050	0.00050	0.00319	<0.00050
cis-1,3-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dibromochloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dibromomethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dichlorodifluoromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
Dichloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Ethyl Benzene	mg/L	0.00050	0.00050	0.00061	<0.00050
F1	mg/L	0.10	0.10	<0.10	<0.10
Hexachlorobutadiene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Hexane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Isopropylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
m+p-Xylenes	mg/L	0.00050	0.00050	0.00160	<0.00050
Methyl Ethyl Ketone	mg/L	0.020	0.020	<0.020	<0.020
Methyl Isobutyl Ketone	mg/L	0.020	0.020	<0.020	<0.020
MTBE	mg/L	0.00050	0.00050	<0.00050	<0.00050
n-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Naphthalene	mg/L	0.0020	0.00050	<0.0020	<0.00050
o-Xylene	mg/L	0.00050	0.00050	0.00084	<0.00050
sec-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Styrene	mg/L	0.00050	0.00050	0.00876	<0.00050
tert-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Tetrachloroethylene	mg/L	0.00050	0.00050	0.00164	<0.00050
Toluene	mg/L	0.00050	0.0010	0.00555	<0.0010
trans-1,2-Dichloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
trans-1,3-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Trichloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Trichlorofluoromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
Trihalomethanes (total)	mg/L	0.0010	0.0010	0.0041	0.0024
Vinyl chloride	mg/L	0.00050	0.00050	0.00091	<0.00050
Xylenes (Total)	mg/L	0.00050	0.00070	0.00244	<0.00070
Surrogate: 1,4-Difluorobenzene	%	70-130	70-130	102.4	102.1
Surrogate: 4-Bromofluorobenzene	%	70-130	70-130	83.4	84.8

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**- surrogate diluted out: % recovery not available

All parameters were analyzed by contract laboratory.

**City Of Winnipeg
Water Waste Department**

North End Water Pollution Control Centre Quarterly Monitoring Report

4th Quarter Sampling Parameter	November 26, 2013			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Miscellaneous					
Ammonia, Total (as N)	mg/L		1.0	NA	25.8
Ammonia, Un-ionized (as N)	mg/L		0.010	NA	0.040
Chlorine, Total	mg/L		0.10	NA	<0.10
Chromium, Hexavalent	ug/L	1.0	1.0	<1.0	<1.0
Phenols (4AAP)	mg/L	0.0010	0.0010	0.0543	0.0011
Tetraethyl Lead	ug/L	0.007	0.0007	<0.0070	<0.0007
Toxaphene	ug/L	1.5	1.5	<1.5	<1.5
Tri-n-butyltin Cation	ug/L	0.057	0.050	<0.057	<0.050
Hydrocarbons, Recoverable (I.R.)	mg/L	1.0	1.0	2.6	<1.0
Trout Bioassay	Pass/Fail			NA	Pass
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	116.3	79.8
Surrogate: Decachlorobiphenyl	%	50-150	50-150	75.9	106.6
Surrogate: Tetrachloro-m-xylene	%	50-150	50-150	83.5	94.7
Surrogate: Tri-n-propyltin	%	31-137	31-137	143	121
Total Metals by ICP-MS					
Arsenic (As)-Total	mg/L	0.00020	0.00020	0.00108	0.00103
Cadmium (Cd)-Total	mg/L	0.000010	0.000010	0.000118	0.000031
Chromium (Cr)-Total	mg/L	0.0010	0.0010	0.0061	0.0066
Copper (Cu)-Total	mg/L	0.00020	0.00020	0.06660	0.01100
Lead (Pb)-Total	mg/L	0.000090	0.000090	0.004150	0.000387
Mercury (Hg)-Total	ng/L	1.0	1.0	40.0	4.4
Molybdenum (Mo)-Total	mg/L	0.00020	0.00020	0.00728	0.00997
Nickel (Ni)-Total	mg/L	0.0020	0.0020	0.0054	0.0114
Selenium (Se)-Total	mg/L	0.0010	0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	mg/L	0.0050	0.0050	0.1010	0.0868
Dioxins and Furans					
2378 TCDD	pg/L	0.76	1.2	<0.76	<1.2
12378 PeCDD	pg/L	0.47	0.63	<0.47	<0.63
123478 HxCDD	pg/L	0.37	0.67	<0.37	<0.67
123678 HxCDD	pg/L	0.32	0.56	<0.32	<0.56
123789 HxCDD	pg/L	0.30	0.53	<0.30	<0.53
1234678 HpCDD	pg/L	0.86	0.98	3.00	<0.98
OCDD	pg/L	0.40	0.64	29.0	3.78
Total TCDD	pg/L	0.76	1.2	<0.76	<1.2
Total PeCDD	pg/L	0.47	0.63	<0.47	<0.63
Total HxCDD	pg/L	0.37	0.67	<0.37	<0.67
Total HpCDD	pg/L	0.86	0.98	<0.86	<0.98
2378 TCDF	pg/L	0.75	1.1	<0.75	<1.1
12378 PeCDF	pg/L	0.38	0.61	<0.38	<0.61
23478 PeCDF	pg/L	0.33	0.52	<0.33	<0.52
123478 HxCDF	pg/L	0.63	0.38	<0.63	<0.38
123678 HxCDF	pg/L	0.56	0.32	<0.56	<0.32
123789 HxCDF	pg/L	0.97	0.55	<0.97	<0.55
234678 HxCDF	pg/L	0.66	0.36	<0.66	<0.36
1234678 HpCDF	pg/L	0.35	0.52	0.62	<0.52
1234789 HpCDF	pg/L	0.62	0.91	<0.62	<0.91
OCDF	pg/L	0.76	0.95	1.94	<0.95
Total TCDF	pg/L	0.75	1.1	<0.75	<1.1
Total PeCDF	pg/L	0.38	0.61	<0.38	<0.61
Total HxCDF	pg/L	0.97	0.55	<0.97	<0.55

**City Of Winnipeg
Water Waste Department**

North End Water Pollution Control Centre Quarterly Monitoring Report

4th Quarter Sampling Parameter	November 26, 2013			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Total HpCDF	pg/L	0.62	0.91	<0.62	<0.91
Lower Bound PCDD/F TEQ (WHO 2005)	pg/L			0.0155	0.00113
Mid Point PCDD/F TEQ (WHO 2005)	pg/L			0.947	1.24
Upper Bound PCDD/F TEQ (WHO 2005)	pg/L			1.85	2.48
Surrogate: 13C12 2378 TCDD	%	20-175	20-175	74.0	59.0
Surrogate: 13C12 12378 PeCDD	%	21-227	21-227	96.0	75.0
Surrogate: 13C12 123478 HxCDD	%	21-193	21-193	76.0	65.0
Surrogate: 13C12 123678 HxCDD	%	25-163	25-163	86.0	81.0
Surrogate: 13C12 1234678 HpCDD	%	23-166	23-166	81.0	79.0
Surrogate: 13C12 OCDD	%	13-138	13-138	78.0	88.0
Surrogate: 13C12 2378 TCDF	%	22-152	22-152	69.0	57.0
Surrogate: 13C12 12378 PeCDF	%	24-185	24-185	92.0	73.0
Surrogate: 13C12 23478 PeCDF	%	21-178	21-178	99.0	77.0
Surrogate: 13C12 123478 HxCDF	%	26-152	26-152	77.0	68.0
Surrogate: 13C12 123678 HxCDF	%	21-159	21-159	94.0	82.0
Surrogate: 13C12 234678 HxCDF	%	17-205	17-205	83.0	83.0
Surrogate: 13C12 123789 HxCDF	%	28-136	28-136	81.0	87.0
Surrogate: 13C12 1234678 HpCDF	%	21-158	21-158	84.0	79.0
Surrogate: 13C12 1234789 HpCDF	%	20-186	20-186	83.0	81.0
Surrogate: 37C14 2378 TCDD	%	31-191	31-191	70.0	55.0
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-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-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
3&4-Methylphenol	ug/L	50.0	0.50	173.0	<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

**City Of Winnipeg
Water Waste Department**

North End Water Pollution Control Centre Quarterly Monitoring Report

4th Quarter Sampling Parameter	November 26, 2013			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage	Final Effluent
				Grab	Grab
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	3.1
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
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	2.3	<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	9.7	<0.40
Isophorone	ug/L	4.0	0.40	<4.0	<0.40
Naphthalene	ug/L	2.0	0.20	16.5	<0.20
Nitrobenzene	ug/L	4.0	0.40	<4.0	<0.40
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
Phenanthrene	ug/L	2.0	0.20	<2.0	<0.20
Phenol	ug/L	5.0	0.50	31.7	<0.50
Pyrene	ug/L	2.0	0.20	<2.0	<0.20
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	83.7	81.4
Surrogate: 2,4,6-Tribromophenol	%	40-150	40-150	113.5	99.5
Surrogate: Nitrobenzene d5	%	50-130	50-130	105.9	89.5
Surrogate: p-Terphenyl d14	%	50-150	50-150	65.0	90.3
Surrogate: Phenol d5	%	30-130	30-130	93.0	61.7

**City Of Winnipeg
Water Waste Department**

North End Water Pollution Control Centre Quarterly Monitoring Report

4th Quarter Sampling Parameter	November 26, 2013			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Low Level Nonylphenols and Ethoxylates					
Bisphenol A	ug/L	0.20	0.20	0.24	0.36
Nonylphenols	ug/L	1.0	1.0	<1.0	<1.0
Nonylphenol Monoethoxylates	ug/L	2.0	2.0	4.6	<2.0
Nonylphenol Diethoxylates	ug/L	0.10	0.10	1.48	0.23
Total Nonylphenol Ethoxylates	ug/L	2.0	2.0	6.1	<2.0
Octylphenol	ug/L	1.0	1.0	<1.0	<1.0
Octylphenol Monoethoxylate	ug/L	2.0	2.0	<2.0	<2.0
Octylphenol Diethoxylate	ug/L	0.10	0.10	0.13	<0.10
Total Octylphenol Ethoxylate	ug/L	2.0	2.0	<2.0	<2.0
Octachlorostyrene					
Octachlorostyrene	ug/L	0.50	0.050	<0.50	<0.050
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	98.2	80.8
Surrogate: p-Terphenyl d14	%	50-150	50-150	86.2	81.3
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	0.00030	0.00030	<0.00030	<0.00030
Surrogate: Decachlorobiphenyl	%	50-150	50-150	39.0	64.0
Pesticides, Organochlorine					
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	2.9	0.10	<2.9	<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
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
Hexachlorobenzene	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
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
Oxychlordane	ug/L	1.0	0.10	<1.0	<0.10
pp-DDD	ug/L	1.0	0.10	<1.0	<0.10

**City Of Winnipeg
Water Waste Department**

North End Water Pollution Control Centre Quarterly Monitoring Report

4th Quarter Sampling Parameter	November 26, 2013			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
pp-DDE	ug/L	1.0	0.10	<1.0	<0.10
pp-DDT	ug/L	1.0	0.10	<1.0	<0.10
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	105.4	92.5
Surrogate: d14-Terphenyl	%	50-150	50-150	100.7	81.3
Phenoxyacid Herbicides by GC/MS					
2,4,5-T	mg/L	5.0	0.50	<5.0	<0.50
2,4,5-TP	mg/L	5.0	0.50	<5.0	<0.50
2,4-D	mg/L	5.0	0.50	<5.0	<0.50
2,4-DP	mg/L	5.0	0.50	<5.0	<0.50
Bromoxynil	mg/L	5.0	0.50	<5.0	<0.50
Dicamba	mg/L	5.0	0.50	<5.0	<0.50
Dinoseb	mg/L	5.0	0.50	<5.0	<0.50
MCPA	mg/L	5.0	0.50	<5.0	<0.50
Mecoprop	mg/L	5.0	0.50	<5.0	<0.50
Picloram	mg/L	5.0	0.50	<5.0	<0.50
Surrogate: 2,4-Dichlorophenylacetic Acid	mg/L	50-130	50-130	117.6	129.7
Volatile Organics plus F1					
1,1,1,2-Tetrachloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,1-Trichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,2,2-Tetrachloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,2-Trichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1-Dichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1-Dichloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dibromo-3-chloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dibromoethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,3-Trichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,3-Trichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,4-Trichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,4-Trimethylbenzene	mg/L	0.00050	0.00050	0.00103	<0.00050
1,3-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3,5-Trimethylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,4-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
2-Chlorotoluene	mg/L	0.020	0.020	<0.020	<0.020
2-Hexanone	mg/L	0.020	0.020	<0.020	<0.020
2,2-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
4-Chlorotoluene	mg/L	0.00050	0.00050	<0.00050	<0.00050
4-Isopropyltoluene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Acetone	mg/L	0.020	0.020	0.041	<0.020
Benzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromochloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromodichloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromoform	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromomethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
Carbon Disulfide	mg/L	0.00050	0.00050	<0.0010	<0.00050
Carbon tetrachloride	mg/L	0.00050	0.00050	<0.00050	<0.00050

**City Of Winnipeg
Water Waste Department**

North End Water Pollution Control Centre Quarterly Monitoring Report

4th Quarter Sampling Parameter	November 26, 2013			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Chlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Chloroethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
Chloroform	mg/L	0.00050	0.00050	0.00419	0.00173
Chloromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
cis-1,2-Dichloroethylene	mg/L	0.00050	0.00050	0.00226	<0.00050
cis-1,3-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dibromochloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dibromomethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dichlorodifluoromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
Dichloromethane	mg/L	0.00150	0.00150	<0.0015	<0.0015
Ethyl Benzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
F1	mg/L	0.10	0.10	<0.10	<0.10
Hexachlorobutadiene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Hexane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Isopropylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
m+p-Xylenes	mg/L	0.00050	0.00050	0.00078	<0.00050
Methyl Ethyl Ketone	mg/L	0.020	0.020	<0.020	<0.020
Methyl Isobutyl Ketone	mg/L	0.020	0.020	<0.020	<0.020
MTBE	mg/L	0.00050	0.00050	<0.00050	<0.00050
n-Butylbenzene	mg/L	0.00050	0.00050	0.00350	<0.00050
Naphthalene	mg/L	0.00050	0.00050	0.0142	<0.00050
o-Xylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
sec-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Styrene	mg/L	0.00050	0.00050	<0.00050	<0.00050
tert-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Tetrachloroethylene	mg/L	0.00050	0.00050	0.00173	<0.00050
Toluene	mg/L	0.00050	0.00050	0.00306	0.00096
trans-1,2-Dichloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
trans-1,3-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Trichloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Trichlorofluoromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
Trihalomethanes (total)	mg/L	0.0010	0.0010	0.0042	0.0017
Vinyl chloride	mg/L	0.00050	0.00050	0.00073	<0.00050
Xylenes (Total)	mg/L	0.00070	0.00070	0.00078	<0.00070
Surrogate: 1,4-Difluorobenzene	%	70-130	70-130	99.5	100.4
Surrogate: 4-Bromofluorobenzene	%	70-130	70-130	92.1	92.0

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

All parameters were analyzed by contract laboratory.