

**City Of Winnipeg
Water Waste Department**

North End Water Pollution Control Centre Quarterly Monitoring Report

1'st Quarter Sampling Parameter	February 18, 2014			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Miscellaneous					
Chromium, Hexavalent	ug/L	1.0	1.0	<1.0	<1.0
Mercury (Hg)-Total	ng/L	1.0	1.0	25.5	6.2
Oil and Grease (I.R.)	mg/L	1.0	2.0	30.3	<2.0
Phenols (4AAP)	mg/L	0.0010	0.0010	0.0422	<0.0010
Xylenes (Total)	mg/L	0.0015	0.0015	<0.0015	<0.0015
Tetraethyl Lead	ug/L	0.0070	0.00070	<0.0070	<0.00070
Total PCBs	mg/L	0.00030	0.00030	<0.00030	<0.00030
Trihalomethanes (total)	mg/L	0.0010	0.0010	0.0061	0.0041
Toxaphene	ug/L	1.5	1.5	<1.5	<1.5
Ammonia, Total (as N)	mg/L		1.0	NA	26.1
Ammonia, Un-ionized (as N)	mg/L		0.010	NA	0.029
Chlorine, Total	mg/L		0.10	NA	<0.10
Tri-n-butyltin Cation	ug/L	0.050	0.050	<0.050	<0.050
Trout Bioassay	Pass/Fail			NA	Fail
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	97.2	62.5
Surrogate: Decachlorobiphenyl	%	50-150	50-150	86.8	91.1
Surrogate: Tetrachloro-m-xylene	%	50-150	50-150	83.5	79.6
Surrogate: Tri-n-propyltin	%	31-137	31-137	101	91
Total Metals by ICP-MS					
Arsenic (As)-Total	mg/L	0.00020	0.00020	0.00130	0.00095
Cadmium (Cd)-Total	mg/L	0.000010	0.000010	0.000156	0.000017
Chromium (Cr)-Total	mg/L	0.0010	0.0010	0.0067	0.0014
Copper (Cu)-Total	mg/L	0.00020	0.00020	0.07180	0.01150
Lead (Pb)-Total	mg/L	0.000090	0.000090	0.003850	0.000348
Molybdenum (Mo)-Total	mg/L	0.00020	0.00020	0.00682	0.00801
Nickel (Ni)-Total	mg/L	0.0020	0.0020	0.0103	0.0041
Selenium (Se)-Total	mg/L	0.0010	0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	mg/L	0.0020	0.0020	0.1570	0.0232
Dioxins and Furans					
2378 TCDD	pg/L	1.0	0.64	<1.0	<0.64
12378 PeCDD	pg/L	0.44	0.39	<0.44	<0.39
123478 HxCDD	pg/L	0.41	0.42	<0.41	<0.42
123678 HxCDD	pg/L	0.34	0.37	<0.34	<0.37
123789 HxCDD	pg/L	0.32	0.35	<0.32	<0.35
1234678 HpCDD	pg/L	0.32	0.48	3.98	0.94
OCDD	pg/L	0.37	0.26	30.8	4.88
2378 TCDF	pg/L	0.79	0.53	<0.79	<0.53
12378 PeCDF	pg/L	0.31	0.28	<0.31	<0.28
23478 PeCDF	pg/L	0.27	0.25	<0.27	<0.25
123478 HxCDF	pg/L	0.34	0.18	<0.34	<0.18
123678 HxCDF	pg/L	0.27	0.16	<0.27	<0.16
234678 HxCDF	pg/L	0.32	0.18	<0.32	<0.18
123789 HxCDF	pg/L	0.46	0.27	0.49	0.44
1234678 HpCDF	pg/L	0.19	0.21	1.03	<0.21
1234789 HpCDF	pg/L	0.32	0.33	<0.32	<0.33
OCDF	pg/L	0.36	0.35	3.50	0.43
Total TCDD	pg/L	1.0	0.64	<1.0	3.88
Total PeCDD	pg/L	0.44	0.39	<0.44	<0.39
Total HxCDD	pg/L	0.41	0.42	0.48	<0.42
Total HpCDD	pg/L	0.32	0.48	7.62	1.98
Total TCDF	pg/L	0.79	0.53	0.79	2.68

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Total PeCDF	pg/L	0.31	0.28	<0.31	<0.28
Total HxCDF	pg/L	0.46	0.27	2.20	1.55
Total HpCDF	pg/L	0.32	0.33	1.03	<0.33
Surrogate: 13C12 2378 TCDD	%	20-175	20-175	50.0	70.0
Surrogate: 13C12 12378 PeCDD	%	21-227	21-227	87.0	84.0
Surrogate: 13C12 123478 HxCDD	%	21-193	21-193	67.0	77.0
Surrogate: 13C12 123678 HxCDD	%	25-163	25-163	74.0	72.0
Surrogate: 13C12 1234678 HpCDD	%	23-166	23-166	69.0	75.0
Surrogate: 13C12 OCDD	%	13-138	13-138	63.0	78.0
Surrogate: 13C12 2378 TCDF	%	22-152	22-152	49.0	76.0
Surrogate: 13C12 12378 PeCDF	%	24-185	24-185	86.0	87.0
Surrogate: 13C12 23478 PeCDF	%	21-178	21-178	90.0	90.0
Surrogate: 13C12 123478 HxCDF	%	26-152	26-152	68.0	76.0
Surrogate: 13C12 123678 HxCDF	%	21-159	21-159	85.0	84.0
Surrogate: 13C12 234678 HxCDF	%	17-205	17-205	74.0	80.0
Surrogate: 13C12 123789 HxCDF	%	28-136	28-136	80.0	85.0
Surrogate: 13C12 1234678 HpCDF	%	21-158	21-158	77.0	81.0
Surrogate: 13C12 1234789 HpCDF	%	20-186	20-186	78.0	84.0
Surrogate: 37C14 2378 TCDD	%	31-191	31-191	51.0	71.0
Lower Bound PCDD/F TEQ (WHO 2005)	pg/L			0.109	0.0551
Mid Point PCDD/F TEQ (WHO 2005)	pg/L			1.02	0.724
Upper Bound PCDD/F TEQ (WHO 2005)	pg/L			1.92	1.39
EPA 8270 Extractables					
1-Chloronaphthalene	ug/L	4.0	4.0	<4.0	<4.0
1-Methylnaphthalene	ug/L	4.0	4.0	<4.0	<4.0
1,2-Dichlorobenzene	ug/L	4.0	4.0	<4.0	<4.0
1,2,3-Trichlorobenzene	ug/L	4.0	4.0	<4.0	<4.0
1,2,4-Trichlorobenzene	ug/L	4.0	4.0	<4.0	<4.0
1,3-Dichlorobenzene	ug/L	4.0	4.0	<4.0	<4.0
1,4-Dichlorobenzene	ug/L	4.0	4.0	<4.0	<4.0
2-Chloronaphthalene	ug/L	4.0	4.0	<4.0	<4.0
2-Chlorophenol	ug/L	3.0	3.0	<3.0	<3.0
2-Methylnaphthalene	ug/L	4.0	4.0	<4.0	<4.0
2-Methylphenol	ug/L	5.0	5.0	<5.0	<5.0
2-Nitrophenol	ug/L	5.0	5.0	<5.0	<5.0
2,3,4-Trichlorophenol	ug/L	5.0	5.0	<5.0	<5.0
2,3,4,5-Tetrachlorophenol	ug/L	5.0	5.0	<5.0	<5.0
2,3,4,6-Tetrachlorophenol	ug/L	5.0	5.0	<5.0	<5.0
2,3,5-Trichlorophenol	ug/L	5.0	5.0	<5.0	<5.0
2,3,5,6-Tetrachlorophenol	ug/L	5.0	5.0	<5.0	<5.0
2,4-Dichlorophenol	ug/L	3.0	3.0	<3.0	<3.0
2,4-Dimethylphenol	ug/L	5.0	5.0	<5.0	<5.0
2,4-Dinitrophenol	ug/L	20	20	<20	<20
2,4-Dinitrotoluene	ug/L	4.0	4.0	<4.0	<4.0
2,4,5-Trichlorophenol	ug/L	5.0	5.0	<5.0	<5.0
2,4,6-Trichlorophenol	ug/L	5.0	5.0	<5.0	<5.0
2,6-Dichlorophenol	ug/L	5.0	5.0	<5.0	<5.0
2,6-Dinitrotoluene	ug/L	4.0	4.0	<4.0	<4.0
3,3'-Dichlorobenzidine	ug/L	4.0	4.0	<4.0	<4.0
3&4-Methylphenol	ug/L	50	5.0	171	<5.0
4-Bromophenyl phenyl ether	ug/L	4.0	4.0	<4.0	<4.0
4-Chloro-3-methylphenol	ug/L	5.0	5.0	<5.0	<5.0

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4-Chloroaniline	ug/L	4.0	4.0	<4.0	<4.0
4-Chlorophenyl phenyl ether	ug/L	4.0	4.0	<4.0	<4.0
4-Nitrophenol	ug/L	5.0	5.0	<5.0	<5.0
4,6-Dinitro-2-methylphenol	ug/L	20	20	<20	<20
5-Nitroacenaphthene	ug/L	4.0	4.0	<4.0	<4.0
Acenaphthene	ug/L	2.0	2.0	<2.0	<2.0
Acenaphthylene	ug/L	2.0	2.0	<2.0	<2.0
Anthracene	ug/L	2.0	2.0	<2.0	<2.0
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	4.0	<4.0	<4.0
Bis(2-chloroethoxy)methane	ug/L	4.0	4.0	<4.0	<4.0
Bis(2-chloroethyl)ether	ug/L	4.0	4.0	<4.0	<4.0
Bis(2-chloroisopropyl)ether	ug/L	4.0	4.0	<4.0	<4.0
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	4.0	<4.0	<4.0
Chrysene	ug/L	2.0	2.0	<2.0	<2.0
Di-n-butylphthalate	ug/L	20	20	<20	<20
Di-n-octylphthalate	ug/L	4.0	4.0	<4.0	<4.0
Dibenzo(a,h)anthracene	ug/L	2.0	2.0	<2.0	<2.0
Dibenzofuran	ug/L	2.0	2.0	<2.0	<2.0
Diethylphthalate	ug/L	2.0	2.0	2.9	<2.0
Dimethylphthalate	ug/L	2.0	2.0	<2.0	<2.0
Diphenyl ether	ug/L	4.0	4.0	<4.0	<4.0
Diphenylamine	ug/L	4.0	4.0	<4.0	<4.0
Fluoranthene	ug/L	2.0	2.0	<2.0	<2.0
Fluorene	ug/L	2.0	2.0	<2.0	<2.0
Hexachlorobenzene	ug/L	0.40	0.40	<0.40	<0.40
Hexachlorobutadiene	ug/L	2.0	2.0	<2.0	<2.0
Hexachlorocyclopentadiene	ug/L	4.0	4.0	<4.0	<4.0
Hexachloroethane	ug/L	4.0	4.0	<4.0	<4.0
Indeno(1,2,3-cd)pyrene	ug/L	2.0	2.0	<2.0	<2.0
Indole	ug/L	4.0	4.0	19.6	<4.0
Isophorone	ug/L	4.0	4.0	<4.0	<4.0
N-Nitroso-di-n-propylamine	ug/L	4.0	4.0	<4.0	<4.0
Naphthalene	ug/L	2.0	2.0	<2.0	<2.0
Nitrobenzene	ug/L	4.0	4.0	<4.0	<4.0
Pentachlorophenol	ug/L	5.0	5.0	<5.0	<5.0
Perylene	ug/L	2.0	2.0	<2.0	<2.0
Phenanthrene	ug/L	2.0	2.0	<2.0	<2.0
Phenol	ug/L	5.0	5.0	36.5	<5.0
Pyrene	ug/L	2.0	2.0	<2.0	<2.0
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	114.5	91.8
Surrogate: 2,4,6-Tribromophenol	%	40-150	40-150	126.2	87.8
Surrogate: Nitrobenzene d5	%	50-130	50-130	123.2	100.5
Surrogate: p-Terphenyl d14	%	50-150	50-150	103.0	103.5
Surrogate: Phenol d5	%	30-130	30-130	71.5	63.8

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Low Level Nonylphenols and Ethoxylates					
Nonylphenols	ug/L	1.0	1.0	1.0	<1.0
Nonylphenol Monoethoxylates	ug/L	2.0	2.0	2.1	<2.0
Nonylphenol Diethoxylates	ug/L	0.10	0.10	1.17	0.16
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	<0.10	<0.10
Bisphenol A	ug/L	0.20	0.20	0.24	0.24
Total Nonylphenol Ethoxylates	ug/L	2.0	2.0	3.3	<2.0
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	117.1	81.6
Surrogate: p-Terphenyl d14	%	50-150	50-150	127.8	87.7
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
Surrogate: Decachlorobiphenyl	%	50-150	50-150	85.0	83.0
Pesticides, Organochlorine					
Aldrin	ug/L	1.0	0.10	<1.0	<0.10
a-chlordane	ug/L	1.0	0.10	<1.0	<0.10
g-chlordane	ug/L	1.0	0.10	<1.0	<0.10
alpha-BHC	ug/L	1.0	0.10	<1.0	<0.10
beta-BHC	ug/L	1.0	0.10	<1.0	<0.10
delta-BHC	ug/L	1.0	0.10	<1.0	<0.10
op-DDD	ug/L	1.0	0.10	<1.0	<0.10
pp-DDD	ug/L	1.0	0.10	<1.0	<0.10
op-DDE	ug/L	1.0	0.10	<1.0	<0.10
pp-DDE	ug/L	1.0	0.10	<1.0	<0.10
op-DDT	ug/L	1.0	0.10	<1.0	<0.10
pp-DDT	ug/L	1.0	0.10	<1.0	<0.10
Dieldrin	ug/L	1.0	0.10	<1.0	<0.10
alpha-Endosulfan	ug/L	1.0	0.10	<1.0	<0.10
beta-Endosulfan	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
Hexachlorobenzene	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
Mirex	ug/L	1.0	0.10	<1.0	<0.10

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Oxychlorthane	ug/L	1.0	0.10	<1.0	<0.10
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	110.6	77.9
Surrogate: d14-Terphenyl	%	50-150	50-150	128.4	83.8
Phenoxyacid Herbicides by GC/MS					
2,4,5-TP	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
2,4,5-T	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
Picloram	mg/L	5.0	0.50	<5.0	<0.50
Surrogate: 2,4-Dichlorophenylacetic Acid	mg/L	50-130	50-130	123.5	116.3
Volatile Organics plus F1					
Acetone	mg/L	0.020	0.020	0.043	<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	0.00068	<0.00050
Bromoform	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromomethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
n-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
sec-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
tert-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Carbon Disulfide	mg/L	0.00050	0.00050	<0.00050	<0.00050
Carbon tetrachloride	mg/L	0.00050	0.00050	<0.00050	<0.00050
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	0.00542	0.00407
Chloromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
2-Chlorotoluene	mg/L	0.020	0.020	<0.020	<0.020
4-Chlorotoluene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dibromochloromethane	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
Dibromomethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,4-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dichlorodifluoromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
1,1-Dichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1-Dichloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050
cis-1,2-Dichloroethene	mg/L	0.00050	0.00050	0.00160	<0.00050
trans-1,2-Dichloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dichloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
2,2-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050

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1,1-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
cis-1,3-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
trans-1,3-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
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
2-Hexanone	mg/L	0.020	0.020	<0.020	<0.020
Isopropylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
4-Isopropyltoluene	mg/L	0.00050	0.00050	<0.00050	<0.00050
MEK	mg/L	0.020	0.020	<0.020	<0.020
MIBK	mg/L	0.020	0.020	<0.020	<0.020
MTBE	mg/L	0.00050	0.00050	<0.00050	<0.00050
Naphthalene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Styrene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,1,2-Tetrachloroethane	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
Tetrachloroethene	mg/L	0.00050	0.00050	0.00070	<0.00050
Toluene	mg/L	0.00050	0.00050	0.00356	0.00082
1,2,3-Trichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,4-Trichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,1-Trichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,2-Trichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Trichloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Trichlorofluoromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
1,2,3-Trichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,4-Trimethylbenzene	mg/L	0.00050	0.00050	0.00058	<0.00050
1,3,5-Trimethylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Vinyl chloride	mg/L	0.00050	0.00050	0.00052	<0.00050
m+p-Xylenes	mg/L	0.00050	0.00050	0.00054	<0.00050
o-Xylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Surrogate: 4-Bromofluorobenzene	%	70-130	70-130	101.7	100.2
Surrogate: 1,4-Difluorobenzene	%	70-130	70-130	100.4	101.2

NOTES:

MDL- Method detection limit
 mg/L- milligrams/Litre
 ug/L- micrograms/Litre
 ng/L- nanograms/Litre
 pg/L- picograms/Litre
 <- less than
 N/A- not analyzed

All parameters were analyzed by contract laboratory.

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2'nd Quarter Sampling Parameter	May 12, 2014			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Miscellaneous					
Chromium, Hexavalent	ug/L	1.0	1.0	<1.0	<1.0
Mercury (Hg)-Total	ng/L	1.0	1.0	30.4	4.5
Oil and Grease (I.R.)	mg/L	1.0	1.0	34.5	<1.0
Phenols (4AAP)	mg/L	0.0010	0.0010	0.0183	<0.0010
Xylenes (Total)	mg/L	0.0015	0.0015	<0.0015	<0.0015
Tetraethyl Lead	ug/L	0.0070	0.00070	<0.0070	<0.00070
Total PCBs	mg/L	0.00030	0.00030	<0.00030	<0.00030
Trihalomethanes (total)	mg/L	0.0010	0.0010	0.0036	0.0035
Toxaphene	ug/L	3.0	1.5	<3.0	<1.5
Ammonia, Total (as N)	mg/L		1.0	NA	22.6
Ammonia, Un-ionized (as N)	mg/L		0.010	NA	0.045
Chlorine, Total	mg/L		0.10	NA	<0.10
Tri-n-butyltin Cation	ug/L	0.050	0.050	<0.050	<0.050
Trout Bioassay	Pass/Fail			NA	Fail
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	84.7	62.1
Surrogate: Decachlorobiphenyl	%	50-150	50-150	83.0	79.0
Surrogate: Tetrachloro-m-xylene	%	50-150	50-150	82.8	65.2
Surrogate: Tri-n-propyltin	%	31-137	31-137	99	80
Total Metals by ICP-MS					
Arsenic (As)-Total	mg/L	0.00020	0.00020	0.00210	0.00145
Cadmium (Cd)-Total	mg/L	0.000010	0.000010	0.000117	0.000033
Chromium (Cr)-Total	mg/L	0.0010	0.0010	0.0064	0.0016
Copper (Cu)-Total	mg/L	0.00020	0.00020	0.03750	0.00986
Lead (Pb)-Total	mg/L	0.000090	0.000090	0.003080	0.000475
Molybdenum (Mo)-Total	mg/L	0.00020	0.00020	0.01650	0.00875
Nickel (Ni)-Total	mg/L	0.0020	0.0020	0.0069	0.0041
Selenium (Se)-Total	mg/L	0.0010	0.0010	0.0012	<0.0010
Zinc (Zn)-Total	mg/L	0.0020	0.0020	0.0680	0.0330
Dioxins and Furans					
2378 TCDD	pg/L	0.68	0.51	<0.68	<0.51
12378 PeCDD	pg/L	0.25	0.25	<0.25	<0.25
123478 HxCDD	pg/L	0.34	0.18	<0.34	<0.18
123678 HxCDD	pg/L	0.32	0.17	0.40	<0.17
123789 HxCDD	pg/L	0.32	0.17	0.33	<0.17
1234678 HpCDD	pg/L	0.46	0.28	7.48	1.41
OCDD	pg/L	0.30	0.21	143	5.56
2378 TCDF	pg/L	0.52	0.45	<0.52	<0.45
12378 PeCDF	pg/L	0.22	0.23	0.40	<0.23
23478 PeCDF	pg/L	0.18	0.20	0.25	<0.20
123478 HxCDF	pg/L	0.19	0.10	0.25	<0.10
123678 HxCDF	pg/L	0.18	0.098	0.23	<0.098
234678 HxCDF	pg/L	0.16	0.088	0.28	<0.088
123789 HxCDF	pg/L	0.26	0.12	0.53	0.56
1234678 HpCDF	pg/L	0.17	0.14	2.27	0.29
1234789 HpCDF	pg/L	0.27	0.21	<0.27	<0.21
OCDF	pg/L	0.30	0.22	8.04	0.50
Total TCDD	pg/L	0.68	0.51	<0.68	14.7
Total PeCDD	pg/L	0.25	0.25	0.72	0.28
Total HxCDD	pg/L	0.34	0.18	1.99	<0.18
Total HpCDD	pg/L	0.46	0.28	15.4	1.41
Total TCDF	pg/L	0.52	0.45	0.54	1.27

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	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Total PeCDF	pg/L	0.22	0.23	<0.22	<0.23
Total HxCDF	pg/L	0.26	0.12	2.44	1.67
Total HpCDF	pg/L	0.27	0.21	2.27	0.62
Surrogate: 13C12 2378 TCDD	%	20-175	20-175	54.0	72.0
Surrogate: 13C12 12378 PeCDD	%	21-227	21-227	93.0	96.0
Surrogate: 13C12 123478 HxCDD	%	21-193	21-193	72.0	81.0
Surrogate: 13C12 123678 HxCDD	%	25-163	25-163	90.0	89.0
Surrogate: 13C12 1234678 HpCDD	%	23-166	23-166	62.0	78.0
Surrogate: 13C12 OCDD	%	13-138	13-138	52.0	75.0
Surrogate: 13C12 2378 TCDF	%	22-152	22-152	53.0	74.0
Surrogate: 13C12 12378 PeCDF	%	24-185	24-185	92.0	97.0
Surrogate: 13C12 23478 PeCDF	%	21-178	21-178	101.0	105.0
Surrogate: 13C12 123478 HxCDF	%	26-152	26-152	76.0	81.0
Surrogate: 13C12 123678 HxCDF	%	21-159	21-159	95.0	97.0
Surrogate: 13C12 234678 HxCDF	%	17-205	17-205	97.0	98.0
Surrogate: 13C12 123789 HxCDF	%	28-136	28-136	81.0	91.0
Surrogate: 13C12 1234678 HpCDF	%	21-158	21-158	71.0	87.0
Surrogate: 13C12 1234789 HpCDF	%	20-186	20-186	64.0	84.0
Surrogate: 37C14 2378 TCDD	%	31-191	31-191	56.0	75.0
Lower Bound PCDD/F TEQ (WHO 2005)	pg/L			0.264	0.075
Mid Point PCDD/F TEQ (WHO 2005)	pg/L			0.941	0.552
Upper Bound PCDD/F TEQ (WHO 2005)	pg/L			1.45	1.03
EPA 8270 Extractables					
1-Chloronaphthalene	ug/L	4.0	0.40	<4.0	<0.40
1-Methylnaphthalene	ug/L	4.0	0.40	<4.0	<0.40
1,2-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
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
1,3-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,4-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
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
2,3,4-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
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
2,3,5-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
2,4-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	40	1.0	<40	<1.0
2,4-Dinitrotoluene	ug/L	4.0	0.40	<4.0	<0.40
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
2,6-Dichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,6-Dinitrotoluene	ug/L	4.0	0.40	<4.0	<0.40
3,3'-Dichlorobenzidine	ug/L	4.0	0.40	<4.0	<0.40
3&4-Methylphenol	ug/L	50	0.50	89.8	<0.50
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

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	Units	MDL-Raw	MDL-Final	Raw Sewage	Final Effluent
				Grab	Grab
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
4,6-Dinitro-2-methylphenol	ug/L	40	2.0	<40	<2.0
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	0.5
Camphene	ug/L	4.0	0.40	<4.0	<0.40
Chrysene	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
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
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	5.4	<0.40
Isophorone	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
Naphthalene	ug/L	2.0	0.20	<2.0	<0.20
Nitrobenzene	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	12.3	<0.50
Pyrene	ug/L	2.0	0.20	<2.0	<0.20
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	95.7	89.4
Surrogate: 2,4,6-Tribromophenol	%	40-150	40-150	143.0	144.1
Surrogate: Nitrobenzene d5	%	50-130	50-130	114.9	99.8
Surrogate: p-Terphenyl d14	%	50-150	50-150	72.6	98.4
Surrogate: Phenol d5	%	30-130	30-130	53.8	53.6

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	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Low Level Nonylphenols and Ethoxylates					
Nonylphenols	ug/L	1.0	1.0	<1.0	<1.0
Nonylphenol Monoethoxylates	ug/L	2.0	2.0	<2.0	<2.0
Nonylphenol Diethoxylates	ug/L	0.10	0.10	0.67	0.29
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	<0.10	<0.10
Bisphenol A	ug/L	0.20	0.20	0.40	0.28
Total Nonylphenol Ethoxylates	ug/L	2.0	2.0	<2.0	<2.0
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	92.5	94.0
Surrogate: p-Terphenyl d14	%	50-150	50-150	86.6	107.9
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
Surrogate: Decachlorobiphenyl	%	50-150	50-150	74.0	91.0
Pesticides, Organochlorine					
Aldrin	ug/L	1.0	0.10	<1.0	<0.10
a-chlordane	ug/L	1.0	0.10	<1.0	<0.10
g-chlordane	ug/L	1.0	0.10	<1.0	<0.10
alpha-BHC	ug/L	1.0	0.10	<1.0	<0.10
beta-BHC	ug/L	1.0	0.10	<1.0	<0.10
delta-BHC	ug/L	1.0	0.10	<1.0	<0.10
op-DDD	ug/L	1.0	0.10	<1.0	<0.10
pp-DDD	ug/L	1.0	0.10	<1.0	<0.10
op-DDE	ug/L	1.0	0.10	<1.0	<0.10
pp-DDE	ug/L	1.0	0.10	<1.0	<0.10
op-DDT	ug/L	1.0	0.10	<1.0	<0.10
pp-DDT	ug/L	1.0	0.10	<1.0	<0.10
Dieldrin	ug/L	1.0	0.10	<1.0	<0.10
alpha-Endosulfan	ug/L	1.0	0.10	<1.0	<0.10
beta-Endosulfan	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
Hexachlorobenzene	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
Mirex	ug/L	1.0	0.10	<1.0	<0.10

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Oxychlordan	ug/L	1.0	0.10	<1.0	<0.10
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	94.3	95.9
Surrogate: d14-Terphenyl	%	50-150	50-150	89.6	109.6
Phenoxyacid Herbicides by GC/MS					
2,4,5-TP	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
2,4,5-T	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	1.37
Dicamba	mg/L	5.0	0.50	<5.0	<0.50
Dinoseb	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	99.9	115.4
Volatile Organics plus F1					
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
n-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
sec-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
tert-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Carbon Disulfide	mg/L	0.00050	0.00050	<0.00050	<0.00050
Carbon tetrachloride	mg/L	0.00050	0.00050	<0.00050	<0.00050
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	0.00361	0.00345
Chloromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
2-Chlorotoluene	mg/L	0.020	0.020	<0.020	<0.020
4-Chlorotoluene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dibromochloromethane	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
Dibromomethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,4-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dichlorodifluoromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
1,1-Dichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1-Dichloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050
cis-1,2-Dichloroethene	mg/L	0.00050	0.00050	0.00187	<0.00050
trans-1,2-Dichloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dichloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
2,2-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050

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2'nd Quarter Sampling Parameter	May 12, 2014			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
1,1-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
cis-1,3-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
trans-1,3-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
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
2-Hexanone	mg/L	0.020	0.020	<0.020	<0.020
Isopropylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
4-Isopropyltoluene	mg/L	0.00050	0.00050	0.00052	<0.00050
MEK	mg/L	0.020	0.020	<0.020	<0.020
MIBK	mg/L	0.020	0.020	<0.020	<0.020
MTBE	mg/L	0.00050	0.00050	<0.00050	<0.00050
Naphthalene	mg/L	0.0015	0.0015	<0.0015	<0.0015
Styrene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,1,2-Tetrachloroethane	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
Tetrachloroethene	mg/L	0.00050	0.00050	0.00086	0.00065
Toluene	mg/L	0.00050	0.00050	0.00209	<0.00050
1,2,3-Trichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,4-Trichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,1-Trichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,2-Trichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Trichloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Trichlorofluoromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
1,2,3-Trichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,4-Trimethylbenzene	mg/L	0.00050	0.00050	0.00066	<0.00050
1,3,5-Trimethylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Vinyl chloride	mg/L	0.00050	0.00050	<0.00050	<0.00050
m+p-Xylenes	mg/L	0.00050	0.00050	0.00094	<0.00050
o-Xylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Surrogate: 4-Bromofluorobenzene	%	70-130	70-130	99.2	96.4
Surrogate: 1,4-Difluorobenzene	%	70-130	70-130	99.1	100.2

NOTES:

MDL- Method detection limit
 mg/L- milligrams/Litre
 ug/L- micrograms/Litre
 ng/L- nanograms/Litre
 pg/L- picograms/Litre
 <- less than
 N/A- not analyzed

All parameters were analyzed by contract laboratory.

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North End Water Pollution Control Centre Quarterly Monitoring Report

3'rd Quarter Sampling Parameter	August 18, 2014			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Miscellaneous					
Chromium, Hexavalent	ug/L	1.0	1.0	<1.0	<1.0
Mercury (Hg)-Total	ng/L	1.0	1.0	34.2	6.0
Oil and Grease (I.R.)	mg/L	1.0	1.0	10.1	<1.0
Phenols (4AAP)	mg/L	0.0010	0.0010	0.0102	<0.0010
Xylenes (Total)	mg/L	0.0015	0.0015	<0.0015	<0.0015
Tetraethyl Lead	ug/L	0.0070	0.00070	<0.0070	<0.00070
Total PCBs	mg/L	0.00030	0.00030	<0.00030	<0.00030
Trihalomethanes (total)	mg/L	0.0010	0.0010	0.0025	0.0020
Toxaphene	ug/L	2.0	3.0	<2.0	<3.0
Ammonia, Total (as N)	mg/L		1.0	NA	5.1
Ammonia, Un-ionized (as N)	mg/L		0.010	NA	<0.010
Chlorine, Total	mg/L		0.10	NA	<0.10
Tri-n-butyltin Cation	ug/L	0.050	0.056	<0.050	<0.056
Trout Bioassay	Pass/Fail			NA	Pass
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	113.2	110.3
Surrogate: Decachlorobiphenyl	%	50-150	50-150	68.2	92.0
Surrogate: Tetrachloro-m-xylene	%	50-150	50-150	66.4	81.9
Surrogate: Tri-n-propyltin	%	31-137	31-137	91.0	90.0
Total Metals by ICP-MS					
Arsenic (As)-Total	mg/L	0.00020	0.00020	0.00162	0.00128
Cadmium (Cd)-Total	mg/L	0.000010	0.000010	0.000242	0.000037
Chromium (Cr)-Total	mg/L	0.0010	0.0010	0.0139	0.0015
Copper (Cu)-Total	mg/L	0.00020	0.00020	0.03550	0.00733
Lead (Pb)-Total	mg/L	0.000090	0.000090	0.006560	0.000432
Molybdenum (Mo)-Total	mg/L	0.00020	0.00020	0.00512	0.00373
Nickel (Ni)-Total	mg/L	0.0020	0.0020	0.0051	0.0028
Selenium (Se)-Total	mg/L	0.0010	0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	mg/L	0.0020	0.0020	0.0825	0.0268
Dioxins and Furans					
2378 TCDD	pg/L	0.71	0.25	<0.71	<0.25
12378 PeCDD	pg/L	0.34	0.15	0.54	<0.15
123478 HxCDD	pg/L	0.20	0.15	0.69	<0.15
123678 HxCDD	pg/L	0.20	0.14	1.50	0.15
123789 HxCDD	pg/L	0.20	0.14	1.68	<0.14
1234678 HpCDD	pg/L	0.35	0.22	35.2	1.49
OCDD	pg/L	0.15	0.19	215	7.69
2378 TCDF	pg/L	0.42	0.14	<0.42	<0.14
12378 PeCDF	pg/L	0.22	0.12	0.57	0.15
23478 PeCDF	pg/L	0.19	0.11	0.50	<0.11
123478 HxCDF	pg/L	0.19	0.14	0.89	<0.14
123678 HxCDF	pg/L	0.19	0.13	1.15	<0.13
234678 HxCDF	pg/L	0.17	0.13	1.16	<0.13
123789 HxCDF	pg/L	0.21	0.18	0.64	0.43
1234678 HpCDF	pg/L	0.24	0.13	13.2	0.42
1234789 HpCDF	pg/L	0.31	0.17	0.81	<0.17
OCDF	pg/L	0.20	0.22	22.20	0.80
Total TCDD	pg/L	0.71	0.25	<0.71	1.13
Total PeCDD	pg/L	0.34	0.15	2.78	<0.15
Total HxCDD	pg/L	0.20	0.15	13.2	<0.15
Total HpCDD	pg/L	0.35	0.22	71.6	1.49
Total TCDF	pg/L	0.42	0.14	<0.42	0.70

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North End Water Pollution Control Centre Quarterly Monitoring Report

3'rd Quarter Sampling Parameter	August 18, 2014			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Total PeCDF	pg/L	0.22	0.12	4.40	<0.12
Total HxCDF	pg/L	0.21	0.18	16.1	1.61
Total HpCDF	pg/L	0.31	0.17	28.7	<0.17
Surrogate: 13C12 2378 TCDD	%	20-175	20-175	71.0	79.0
Surrogate: 13C12 12378 PeCDD	%	21-227	21-227	70.0	84.0
Surrogate: 13C12 123478 HxCDD	%	21-193	21-193	71.0	64.0
Surrogate: 13C12 123678 HxCDD	%	25-163	25-163	76.0	98.0
Surrogate: 13C12 1234678 HpCDD	%	23-166	23-166	81.0	84.0
Surrogate: 13C12 OCDD	%	13-138	13-138	94.0	76.0
Surrogate: 13C12 2378 TCDF	%	22-152	22-152	64.0	89.0
Surrogate: 13C12 12378 PeCDF	%	24-185	24-185	67.0	87.0
Surrogate: 13C12 23478 PeCDF	%	21-178	21-178	66.0	90.0
Surrogate: 13C12 123478 HxCDF	%	26-152	26-152	66.0	72.0
Surrogate: 13C12 123678 HxCDF	%	21-159	21-159	72.0	99.0
Surrogate: 13C12 234678 HxCDF	%	17-205	17-205	76.0	89.0
Surrogate: 13C12 123789 HxCDF	%	28-136	28-136	75.0	84.0
Surrogate: 13C12 1234678 HpCDF	%	21-158	21-158	81.0	85.0
Surrogate: 13C12 1234789 HpCDF	%	20-186	20-186	82.0	86.0
Surrogate: 37C14 2378 TCDD	%	31-191	31-191	76.0	84.0
Lower Bound PCDD/F TEQ (WHO 2005)	pg/L			1.75	0.0174
Mid Point PCDD/F TEQ (WHO 2005)	pg/L			2.42	0.343
Upper Bound PCDD/F TEQ (WHO 2005)	pg/L			2.80	0.602
EPA 8270 Extractables					
1-Chloronaphthalene	ug/L	0.40	0.40	<0.40	<0.40
1-Methylnaphthalene	ug/L	0.40	0.40	<0.40	<0.40
1,2-Dichlorobenzene	ug/L	0.40	0.40	<0.40	<0.40
1,2,3-Trichlorobenzene	ug/L	0.40	0.40	<0.40	<0.40
1,2,4-Trichlorobenzene	ug/L	0.40	0.40	<0.40	<0.40
1,3-Dichlorobenzene	ug/L	0.40	0.40	<0.40	<0.40
1,4-Dichlorobenzene	ug/L	0.40	0.40	<0.40	<0.40
2-Chloronaphthalene	ug/L	0.40	0.40	<0.40	<0.40
2-Chlorophenol	ug/L	0.30	0.30	<0.30	<0.30
2-Methylnaphthalene	ug/L	0.40	0.40	<0.40	<0.40
2-Methylphenol	ug/L	0.50	0.50	0.57	<0.50
2-Nitrophenol	ug/L	0.50	0.50	<0.50	<0.50
2,3,4-Trichlorophenol	ug/L	0.50	0.50	<0.50	<0.50
2,3,4,5-Tetrachlorophenol	ug/L	0.50	0.50	<0.50	<0.50
2,3,4,6-Tetrachlorophenol	ug/L	0.50	0.50	<0.50	<0.50
2,3,5-Trichlorophenol	ug/L	0.50	0.50	<0.50	<0.50
2,3,5,6-Tetrachlorophenol	ug/L	0.50	0.50	<0.50	<0.50
2,4-Dichlorophenol	ug/L	0.30	0.30	<0.30	<0.30
2,4-Dimethylphenol	ug/L	0.50	0.50	<0.50	<0.50
2,4-Dinitrophenol	ug/L	1.0	1.0	<1.0	<1.0
2,4-Dinitrotoluene	ug/L	0.40	0.40	<0.40	<0.40
2,4,5-Trichlorophenol	ug/L	0.50	0.50	<0.50	<0.50
2,4,6-Trichlorophenol	ug/L	0.50	0.50	<0.50	<0.50
2,6-Dichlorophenol	ug/L	0.50	0.50	<0.50	<0.50
2,6-Dinitrotoluene	ug/L	0.40	0.40	<0.40	<0.40
3,3'-Dichlorobenzidine	ug/L	0.40	0.40	<0.40	<0.40
3&4-Methylphenol	ug/L	5.0	0.50	24.6	<0.50
4-Bromophenyl phenyl ether	ug/L	0.40	0.40	<0.40	<0.40
4-Chloro-3-methylphenol	ug/L	0.50	0.50	<0.50	<0.50

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North End Water Pollution Control Centre Quarterly Monitoring Report

3'rd Quarter Sampling Parameter	August 18, 2014			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage	Final Effluent
				Grab	Grab
4-Chloroaniline	ug/L	0.40	0.40	<0.40	<0.40
4-Chlorophenyl phenyl ether	ug/L	0.40	0.40	<0.40	<0.40
4-Nitrophenol	ug/L	0.50	0.50	<0.50	<0.50
4,6-Dinitro-2-methylphenol	ug/L	2.0	2.0	<2.0	<2.0
5-Nitroacenaphthene	ug/L	0.40	0.40	<0.40	<0.40
Acenaphthene	ug/L	0.20	0.20	<0.20	<0.20
Acenaphthylene	ug/L	0.20	0.20	<0.20	<0.20
Anthracene	ug/L	0.20	0.20	<0.20	<0.20
Benzo(a)anthracene	ug/L	0.20	0.20	<0.20	<0.20
Benzo(a)pyrene	ug/L	0.050	0.050	<0.050	<0.050
Benzo(b)fluoranthene	ug/L	0.20	0.20	<0.20	<0.20
Benzo(ghi)perylene	ug/L	0.20	0.20	<0.20	<0.20
Benzo(k)fluoranthene	ug/L	0.20	0.20	<0.20	<0.20
Biphenyl	ug/L	0.40	0.40	<0.40	<0.40
Bis(2-chloroethoxy)methane	ug/L	0.40	0.40	<0.40	<0.40
Bis(2-chloroethyl)ether	ug/L	0.40	0.40	<0.40	<0.40
Bis(2-chloroisopropyl)ether	ug/L	0.40	0.40	<0.40	<0.40
Bis(2-ethylhexyl)phthalate	ug/L	2.0	2.0	4.2	<2.0
Butylbenzyl phthalate	ug/L	0.40	0.40	0.89	<0.40
Camphene	ug/L	0.40	0.40	<0.40	<0.40
Chrysene	ug/L	0.20	0.20	<0.20	<0.20
Di-n-butylphthalate	ug/L	2.0	2.0	<2.0	<2.0
Di-n-octylphthalate	ug/L	0.40	0.40	<0.40	<0.40
Dibenzo(a,h)anthracene	ug/L	0.20	0.20	<0.20	<0.20
Dibenzofuran	ug/L	0.20	0.20	<0.20	<0.20
Diethylphthalate	ug/L	0.20	0.20	0.74	<0.20
Dimethylphthalate	ug/L	0.20	0.20	<0.20	<0.20
Diphenyl ether	ug/L	0.40	0.40	<0.40	<0.40
Diphenylamine	ug/L	0.40	0.40	<0.40	<0.40
Fluoranthene	ug/L	0.20	0.20	<0.20	<0.20
Fluorene	ug/L	0.20	0.20	<0.20	<0.20
Hexachlorobenzene	ug/L	0.040	0.040	<0.040	<0.040
Hexachlorobutadiene	ug/L	0.20	0.20	<0.20	<0.20
Hexachlorocyclopentadiene	ug/L	0.40	0.40	<0.40	<0.40
Hexachloroethane	ug/L	0.40	0.40	<0.40	<0.40
Indeno(1,2,3-cd)pyrene	ug/L	0.20	0.20	<0.20	<0.20
Indole	ug/L	0.45	0.40	<0.45	<0.40
Isophorone	ug/L	0.40	0.40	<0.40	<0.40
N-Nitroso-di-n-propylamine	ug/L	0.40	0.40	<0.40	<0.40
Naphthalene	ug/L	0.20	0.20	<0.20	<0.20
Nitrobenzene	ug/L	0.40	0.40	<0.40	<0.40
Pentachlorophenol	ug/L	0.50	0.50	<0.50	<0.50
Perylene	ug/L	0.20	0.20	<0.20	<0.20
Phenanthrene	ug/L	0.20	0.20	<0.20	<0.20
Phenol	ug/L	0.50	0.50	4.41	<0.50
Pyrene	ug/L	0.20	0.20	<0.20	<0.20
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	81.9	91.9
Surrogate: 2,4,6-Tribromophenol	%	40-150	40-150	92.2	96.4
Surrogate: Nitrobenzene d5	%	50-130	50-130	91.5	97.9
Surrogate: p-Terphenyl d14	%	50-150	50-150	73.6	89.0
Surrogate: Phenol d5	%	30-130	30-130	41.3	44.7

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North End Water Pollution Control Centre Quarterly Monitoring Report

3'rd Quarter Sampling Parameter	August 18, 2014			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Low Level Nonylphenols and Ethoxylates					
Nonylphenols	ug/L	1.0	1.0	1.2	<1.0
Nonylphenol Monoethoxylates	ug/L	2.0	2.0	2.4	<2.0
Nonylphenol Diethoxylates	ug/L	0.10	0.10	0.94	0.25
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	<0.10	<0.10
Bisphenol A	ug/L	0.20	0.20	0.24	0.41
Total Nonylphenol Ethoxylates	ug/L	2.0	2.0	3.3	<2.0
Total Octylphenol Ethoxylate	ug/L	2.0	2.0	<2.0	<2.0
Octachlorostyrene					
Octachlorostyrene	ug/L	5.0	0.50	<5.0	<0.50
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	80.0	82.7
Surrogate: p-Terphenyl d14	%	50-150	50-150	70.0	72.5
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
Surrogate: Decachlorobiphenyl	%	50-150	50-150	62.0	81.0
Pesticides, Organochlorine					
Aldrin	ug/L	10	1.0	<10	<1.0
a-chlordane	ug/L	10	1.0	<10	<1.0
g-chlordane	ug/L	10	1.0	<10	<1.0
alpha-BHC	ug/L	10	1.0	<10	<1.0
beta-BHC	ug/L	10	1.0	<10	<1.0
delta-BHC	ug/L	10	1.0	<10	<1.0
op-DDD	ug/L	10	1.0	<10	<1.0
pp-DDD	ug/L	10	1.0	<10	<1.0
op-DDE	ug/L	10	1.0	<10	<1.0
pp-DDE	ug/L	10	1.0	<10	<1.0
op-DDT	ug/L	10	1.0	<10	<1.0
pp-DDT	ug/L	10	1.0	<10	<1.0
Dieldrin	ug/L	10	1.0	<10	<1.0
alpha-Endosulfan	ug/L	10	1.0	<10	<1.0
beta-Endosulfan	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
Hexachlorobenzene	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
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

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3'rd Quarter Sampling Parameter	August 18, 2014			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Oxychlorane	ug/L	10	1.0	<10	<1.0
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	84.0	75.0
Surrogate: d14-Terphenyl	%	50-150	50-150	87.0	55.0
Phenoxyacid Herbicides by GC/MS					
2,4,5-TP	mg/L	1.0	1.0	<1.0	<1.0
MCPA	mg/L	1.0	1.0	<1.0	<1.0
Mecoprop	mg/L	1.0	1.0	1.2	<1.0
2,4,5-T	mg/L	1.0	1.0	<1.0	<1.0
2,4-D	mg/L	1.0	1.0	1.9	<1.0
2,4-DP	mg/L	1.0	1.0	<1.0	<1.0
Bromoxynil	mg/L	1.0	1.0	<1.0	<1.0
Dicamba	mg/L	1.0	1.0	<1.0	<1.0
Dinoseb	mg/L	1.0	1.0	<1.0	<1.0
Picloram	mg/L	1.0	1.0	<1.0	<1.0
Surrogate: 2,4-Dichlorophenylacetic Acid	mg/L	50-130	50-130	109.8	128.0
Volatile Organics plus F1					
Acetone	mg/L	0.020	0.020	0.021	<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
n-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
sec-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
tert-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Carbon Disulfide	mg/L	0.00050	0.00050	<0.00050	<0.00050
Carbon tetrachloride	mg/L	0.00050	0.00050	<0.00050	<0.00050
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	0.00245	0.00204
Chloromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
2-Chlorotoluene	mg/L	0.020	0.020	<0.020	<0.020
4-Chlorotoluene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dibromochloromethane	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
Dibromomethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,4-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dichlorodifluoromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
1,1-Dichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1-Dichloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050
cis-1,2-Dichloroethene	mg/L	0.00050	0.00050	0.00137	<0.00050
trans-1,2-Dichloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dichloromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
1,2-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
2,2-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050

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3'rd Quarter Sampling Parameter	August 18, 2014			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
1,1-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
cis-1,3-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
trans-1,3-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
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
2-Hexanone	mg/L	0.020	0.020	<0.020	<0.020
Isopropylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
4-Isopropyltoluene	mg/L	0.00050	0.00050	<0.00050	<0.00050
MEK	mg/L	0.020	0.020	<0.020	<0.020
MIBK	mg/L	0.020	0.020	<0.020	<0.020
MTBE	mg/L	0.00050	0.00050	<0.00050	<0.00050
Naphthalene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Styrene	mg/L	0.00050	0.00050	0.00343	<0.00050
1,1,1,2-Tetrachloroethane	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
Tetrachloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Toluene	mg/L	0.00050	0.00050	0.00278	<0.00050
1,2,3-Trichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,4-Trichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,1-Trichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,2-Trichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Trichloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Trichlorofluoromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
1,2,3-Trichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,4-Trimethylbenzene	mg/L	0.00050	0.00050	0.00091	<0.00050
1,3,5-Trimethylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Vinyl chloride	mg/L	0.00050	0.00050	<0.00050	<0.00050
m+p-Xylenes	mg/L	0.00050	0.00050	0.00074	<0.00050
o-Xylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Surrogate: 4-Bromofluorobenzene	%	70-130	70-130	93.2	91.6
Surrogate: 1,4-Difluorobenzene	%	70-130	70-130	96.9	98.1

NOTES:

MDL- Method detection limit
 mg/L- milligrams/Litre
 ug/L- micrograms/Litre
 ng/L- nanograms/Litre
 pg/L- picograms/Litre
 <- less than
 N/A- not analyzed

All parameters were analyzed by contract laboratory.

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4'th Quarter Sampling Parameter	November 17, 2014			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Miscellaneous					
Chromium, Hexavalent	ug/L	1.0	1.0	<1.0	<1.0
Mercury (Hg)-Total	ng/L	1.0	1.0	44.7	9.2
Oil and Grease (I.R.)	mg/L	1.0	1.0	40.7	<1.0
Phenols (4AAP)	mg/L	0.0010	0.0010	0.0513	<0.0010
Xylenes (Total)	mg/L	0.0015	0.0015	<0.0015	<0.0015
Tetraethyl Lead	ug/L	0.070	0.0070	<0.070	<0.0070
Total PCBs	mg/L	0.00030	0.00030	<0.00030	<0.00030
Trihalomethanes (total)	mg/L	0.0010	0.0010	0.0023	0.0023
Toxaphene	ug/L	5.0	2.5	<5.0	<2.5
Ammonia, Total (as N)	mg/L		1.0	NA	30.6
Ammonia, Un-ionized (as N)	mg/L		0.010	NA	0.054
Chlorine, Total	mg/L		0.10	NA	<0.10
Tri-n-butyltin Cation	ug/L	0.052	0.052	<0.052	<0.052
Trout Bioassay	Pass/Fail			NA	Fail
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	NA	39.6
Surrogate: Decachlorobiphenyl	%	50-150	50-150	117.0	99.6
Surrogate: Tetrachloro-m-xylene	%	50-150	50-150	108.0	93.3
Surrogate: Tri-n-propyltin	%	31-137	31-137	106.0	96.0
Total Metals by ICP-MS					
Arsenic (As)-Total	mg/L	0.00020	0.00020	0.00144	0.00100
Cadmium (Cd)-Total	mg/L	0.000010	0.000010	0.000139	0.000028
Chromium (Cr)-Total	mg/L	0.0010	0.0010	0.0077	0.0055
Copper (Cu)-Total	mg/L	0.00020	0.00020	0.06780	0.01590
Lead (Pb)-Total	mg/L	0.000090	0.000090	0.005880	0.000667
Molybdenum (Mo)-Total	mg/L	0.00020	0.00020	0.01060	0.01190
Nickel (Ni)-Total	mg/L	0.0020	0.0020	0.0048	0.0037
Selenium (Se)-Total	mg/L	0.0010	0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	mg/L	0.0020	0.0020	0.1110	0.0287
Dioxins and Furans					
2378 TCDD	pg/L	0.60	0.58	<0.60	<0.58
12378 PeCDD	pg/L	0.45	0.31	<0.45	<0.31
123478 HxCDD	pg/L	0.22	0.23	<0.22	<0.23
123678 HxCDD	pg/L	0.18	0.19	0.46	<0.19
123789 HxCDD	pg/L	0.19	0.20	0.37	<0.20
1234678 HpCDD	pg/L	0.52	0.18	13.3	0.90
OCDD	pg/L	0.25	0.15	348	5.46
2378 TCDF	pg/L	0.43	0.48	<0.43	<0.48
12378 PeCDF	pg/L	0.25	0.18	<0.25	<0.18
23478 PeCDF	pg/L	0.21	0.14	0.39	<0.14
123478 HxCDF	pg/L	0.30	0.21	0.56	<0.21
123678 HxCDF	pg/L	0.25	0.17	<0.25	<0.17
234678 HxCDF	pg/L	0.28	0.20	0.50	<0.20
123789 HxCDF	pg/L	0.32	0.21	0.41	<0.21
1234678 HpCDF	pg/L	0.20	0.10	2.2	0.32
1234789 HpCDF	pg/L	0.26	0.14	0.42	<0.14
OCDF	pg/L	0.18	0.16	22.5	0.47
Total TCDD	pg/L	0.60	0.58	<0.60	2.00
Total PeCDD	pg/L	0.45	0.31	1.31	<0.31
Total HxCDD	pg/L	0.22	0.23	0.46	<0.23
Total HpCDD	pg/L	0.52	0.18	33.4	1.30
Total TCDF	pg/L	0.43	0.48	<0.43	<0.48

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4'th Quarter Sampling Parameter	November 17, 2014			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Total PeCDF	pg/L	0.25	0.18	<0.25	<0.18
Total HxCDF	pg/L	0.32	0.21	1.47	<0.21
Total HpCDF	pg/L	0.26	0.14	7.05	0.32
Surrogate: 13C12 2378 TCDD	%	20-175	20-175	83.0	71.0
Surrogate: 13C12 12378 PeCDD	%	21-227	21-227	92.0	85.0
Surrogate: 13C12 123478 HxCDD	%	21-193	21-193	62.0	65.0
Surrogate: 13C12 123678 HxCDD	%	25-163	25-163	112.0	93.0
Surrogate: 13C12 1234678 HpCDD	%	23-166	23-166	81.0	74.0
Surrogate: 13C12 OCDD	%	13-138	13-138	82.0	75.0
Surrogate: 13C12 2378 TCDF	%	22-152	22-152	80.0	65.0
Surrogate: 13C12 12378 PeCDF	%	24-185	24-185	88.0	77.0
Surrogate: 13C12 23478 PeCDF	%	21-178	21-178	97.0	88.0
Surrogate: 13C12 123478 HxCDF	%	26-152	26-152	59.0	57.0
Surrogate: 13C12 123678 HxCDF	%	21-159	21-159	103.0	88.0
Surrogate: 13C12 234678 HxCDF	%	17-205	17-205	81.0	73.0
Surrogate: 13C12 123789 HxCDF	%	28-136	28-136	85.0	77.0
Surrogate: 13C12 1234678 HpCDF	%	21-158	21-158	84.0	75.0
Surrogate: 13C12 1234789 HpCDF	%	20-186	20-186	85.0	75.0
Surrogate: 37C14 2378 TCDD	%	31-191	31-191	71.0	56.0
Lower Bound PCDD/F TEQ (WHO 2005)	pg/L			0.344	0.00482
Mid Point PCDD/F TEQ (WHO 2005)	pg/L			1.20	0.578
Upper Bound PCDD/F TEQ (WHO 2005)	pg/L			1.76	1.14
EPA 8270 Extractables					
1-Chloronaphthalene	ug/L	4.0	0.40	<4.0	<0.40
1-Methylnaphthalene	ug/L	4.0	0.40	<4.0	<0.40
1,2-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
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
1,3-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,4-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
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
2,3,4-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
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
2,3,5-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
2,4-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
2,4,5-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
2,6-Dichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,6-Dinitrotoluene	ug/L	4.0	0.40	<4.0	<0.40
3,3'-Dichlorobenzidine	ug/L	4.0	0.40	<4.0	<0.40
3&4-Methylphenol	ug/L	50	0.50	126	<0.50
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

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4'th Quarter Sampling Parameter	November 17, 2014			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
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
4,6-Dinitro-2-methylphenol	ug/L	20	2.0	<20	<2.0
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
Di-n-butylphthalate	ug/L	20	2.0	<20	<2.0
Di-n-octylphthalate	ug/L	4.0	0.40	<4.0	<0.40
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
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	18.3	<0.40
Isophorone	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
Naphthalene	ug/L	2.0	0.20	<2.0	<0.20
Nitrobenzene	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	22.9	<0.50
Pyrene	ug/L	2.0	0.20	<2.0	<0.20
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	92.2	89.6
Surrogate: 2,4,6-Tribromophenol	%	40-150	40-150	127.8	104.5
Surrogate: Nitrobenzene d5	%	50-130	50-130	103.5	94.1
Surrogate: p-Terphenyl d14	%	50-150	50-150	60.6	76.3
Surrogate: Phenol d5	%	30-130	30-130	49.2	48.1

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North End Water Pollution Control Centre Quarterly Monitoring Report

4'th Quarter Sampling Parameter	November 17, 2014			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Low Level Nonylphenols and Ethoxylates					
Nonylphenols	ug/L	1.0	1.0	<1.0	<1.0
Nonylphenol Monoethoxylates	ug/L	2.0	2.0	8.6	<2.0
Nonylphenol Diethoxylates	ug/L	0.10	0.10	2.72	<0.10
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	<0.10	<0.10
Bisphenol A	ug/L	0.20	0.20	0.24	0.32
Total Nonylphenol Ethoxylates	ug/L	2.0	2.0	11.4	<2.0
Total Octylphenol Ethoxylate	ug/L	2.0	2.0	<2.0	<2.0
Octachlorostyrene					
Octachlorostyrene	ug/L	5.0	0.50	<5.0	<0.50
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	NA ¹	58.2
Surrogate: p-Terphenyl d14	%	50-150	50-150	NA ¹	52.0
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
Surrogate: Decachlorobiphenyl	%	65-130	65-130	107.0	76.0
Pesticides, Organochlorine					
Aldrin	ug/L	2.0	0.20	<2.0	<0.20
a-chlordane	ug/L	2.0	0.20	<2.0	<0.20
g-chlordane	ug/L	2.0	0.20	<2.0	<0.20
alpha-BHC	ug/L	2.0	0.20	<2.0	<0.20
beta-BHC	ug/L	2.0	0.20	<2.0	<0.20
delta-BHC	ug/L	2.0	0.20	<2.0	<0.20
op-DDD	ug/L	2.0	0.20	<2.0	<0.20
pp-DDD	ug/L	2.0	0.20	<2.0	<0.20
op-DDE	ug/L	2.0	0.20	<2.0	<0.20
pp-DDE	ug/L	2.0	0.20	<2.0	<0.20
op-DDT	ug/L	2.0	0.20	<2.0	<0.20
pp-DDT	ug/L	2.0	0.20	<2.0	<0.20
Dieldrin	ug/L	2.0	0.20	<2.0	<0.20
alpha-Endosulfan	ug/L	2.0	0.20	<2.0	<0.20
beta-Endosulfan	ug/L	2.0	0.20	<2.0	<0.20
Endosulfan Sulfate	ug/L	2.0	0.20	<2.0	<0.20
Endrin	ug/L	2.0	0.20	<2.0	<0.20
Endrin Aldehyde	ug/L	2.0	0.20	<2.0	<0.20
Hexachlorobenzene	ug/L	2.0	0.20	<2.0	<0.20
Heptachlor	ug/L	2.0	0.20	<2.0	<0.20
Heptachlor Epoxide	ug/L	2.0	0.20	<2.0	<0.20
Lindane	ug/L	2.0	0.20	<2.0	<0.20
Methoxychlor	ug/L	2.0	0.20	<2.0	<0.20
Mirex	ug/L	2.0	0.20	<2.0	<0.20

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Oxychlorthane	ug/L	2.0	0.20	<2.0	<0.20
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	NA ¹	58.7
Surrogate: d14-Terphenyl	%	50-150	50-150	NA ¹	82.3
Phenoxyacid Herbicides by GC/MS					
2,4,5-TP	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
2,4,5-T	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
Picloram	mg/L	5.0	0.50	<5.0	<0.50
Surrogate: 2,4-Dichlorophenylacetic Acid	mg/L	50-130	50-130	112.4	119.6
Volatile Organics plus F1					
Acetone	mg/L	0.020	0.020	0.071	<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
n-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
sec-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
tert-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Carbon Disulfide	mg/L	0.00050	0.00050	<0.00050	<0.00050
Carbon tetrachloride	mg/L	0.00050	0.00050	<0.00050	<0.00050
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	0.00234	0.00228
Chloromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
2-Chlorotoluene	mg/L	0.020	0.020	<0.020	<0.020
4-Chlorotoluene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dibromochloromethane	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
Dibromomethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,4-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dichlorodifluoromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
1,1-Dichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1-Dichloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050
cis-1,2-Dichloroethene	mg/L	0.00050	0.00050	0.00170	<0.00050
trans-1,2-Dichloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dichloromethane	mg/L	0.0070	0.0070	<0.0070	<0.0070
1,2-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
2,2-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050

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4'th Quarter Sampling Parameter	November 17, 2014			NEWPCC	
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1,1-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
cis-1,3-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
trans-1,3-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
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
2-Hexanone	mg/L	0.020	0.020	<0.020	<0.020
Isopropylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
4-Isopropyltoluene	mg/L	0.00050	0.00050	0.00077	<0.00050
MEK	mg/L	0.020	0.020	<0.020	<0.020
MIBK	mg/L	0.020	0.020	<0.020	<0.020
MTBE	mg/L	0.00050	0.00050	<0.00050	<0.00050
Naphthalene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Styrene	mg/L	0.00050	0.00050	0.01620	<0.00050
1,1,1,2-Tetrachloroethane	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
Tetrachloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Toluene	mg/L	0.00050	0.00050	0.00356	0.00114
1,2,3-Trichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,4-Trichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,1-Trichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,2-Trichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Trichloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Trichlorofluoromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
1,2,3-Trichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,4-Trimethylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3,5-Trimethylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Vinyl chloride	mg/L	0.00050	0.00050	0.00055	<0.00050
m+p-Xylenes	mg/L	0.00050	0.00050	<0.00050	<0.00050
o-Xylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Surrogate: 4-Bromofluorobenzene	%	70-130	70-130	96.4	93.0
Surrogate: 1,4-Difluorobenzene	%	70-130	70-130	99.1	100.1

NOTES:

MDL- Method detection limit
 mg/L- milligrams/Litre
 ug/L- micrograms/Litre
 ng/L- nanograms/Litre
 pg/L- picograms/Litre
 <- less than
 N/A- not analyzed

1 - Surrogate diluted out: % recovery not available.

All parameters were analyzed by contract laboratory.