



Water and Waste Department
Environmental Standards Division

NEWPCC SCHEDULE A Quarterly Monitoring Reports



January 2015 – December 2015

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**City Of Winnipeg
Water Waste Department**

North End Water Pollution Control Centre Quarterly Monitoring Report

1st Quarter Sampling Parameter	February 9, 2015			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Miscellaneous					
Chromium, Hexavalent	ug/L	10	10	<10	<10
Mercury (Hg)-Total	ng/L	2.0	1.0	35.3	3.9
Phenols (4AAP)	mg/L	0.0010	0.0010	0.0565	0.0013
Trihalomethanes (total)	mg/L	0.0010	0.0010	0.0033	0.0040
Oil and Grease (I.R.)	mg/L	1.0	1.0	34.3	<1.0
Tetraethyl Lead	ug/L	0.028	0.028	<0.028	<0.028
Tri-n-butyltin Cation	ug/L	0.059	0.053	<0.059	<0.053
pH unStabilized Trout Bioassay	Pass/Fail				fail
Hardness	mg/L				150
Alkalinity	mg/L				240
Temperature	°C				14.5
Dissolved Oxygen	mg/L				9.02
Conductivity	umhos/cm				1006
pH	units		0.10		6.88
pH Stabilized Trout Bioassay	Pass/Fail				pass
Hardness	mg/L				170
Alkalinity	mg/L				240
Temperature	°C				14.5
Dissolved Oxygen	mg/L				8.89
Conductivity	umhos/cm				998
pH	units		0.10		6.88
Ammonia, Total (as N)	mg/L		2.0		45.9
Ammonia, Un-ionized (as N)	mg/L		0.010		0.091
Chlorine, Total	mg/L		0.10		<0.10
Total Metals by ICP-MS					
Arsenic (As)-Total	mg/L	0.020	0.020	<0.020	<0.020
Cadmium (Cd)-Total	mg/L	0.0010	0.0010	<0.0010	<0.0010
Chromium (Cr)-Total	mg/L	0.10	0.10	<0.10	<0.10
Copper (Cu)-Total	mg/L	0.020	0.020	0.068	<0.020
Lead (Pb)-Total	mg/L	0.0090	0.0090	<0.0090	<0.0090
Molybdenum (Mo)-Total	mg/L	0.020	0.020	<0.020	<0.020
Nickel (Ni)-Total	mg/L	0.20	0.20	<0.20	<0.20
Selenium (Se)-Total	mg/L	0.10	0.10	<0.10	<0.10
Zinc (Zn)-Total	mg/L	0.20	0.20	<0.20	<0.20
Low Level Nonylphenols and Ethoxylates					
Nonylphenols	ug/L	10	1.0	<10	<1.0
Nonylphenol Monoethoxylates	ug/L	20	2.0	<20	<2.0
Nonylphenol Diethoxylates	ug/L	1.0	0.10	<1.0	0.74
Octylphenol	ug/L	10	1.0	<10	<1.0
Octylphenol Monoethoxylate	ug/L	20	2.0	<20	<2.0
Octylphenol Diethoxylate	ug/L	1.0	0.10	<1.0	0.13
Bisphenol A	ug/L	2	0.20	<2.0	0.28
Total Nonylphenol Ethoxylates	ug/L	20	2.0	<20	<2.0
Total Octylphenol Ethoxylate	ug/L	20	2.0	<20	<2.0

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	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Dioxins and Furans					
2378 TCDD	pg/L	0.71	0.78	<0.71	<0.78
12378 PeCDD	pg/L	0.80	0.67	<0.80	<0.67
123478 HxCDD	pg/L	0.76	0.41	<0.76	<0.41
123678 HxCDD	pg/L	0.61	0.33	<0.61	<0.33
123789 HxCDD	pg/L	0.64	0.35	<0.64	<0.35
1234678 HpCDD	pg/L	0.71	0.90	7.89	<0.90
OCDD	pg/L	1.2	1.4	66.9	3.5
2378 TCDF	pg/L	0.62	0.62	<0.62	<0.62
12378 PeCDF	pg/L	0.50	0.62	<0.50	<0.62
23478 PeCDF	pg/L	0.45	0.55	<0.45	<0.55
123478 HxCDF	pg/L	0.57	0.32	<0.57	<0.32
123678 HxCDF	pg/L	0.49	0.28	<0.49	<0.28
234678 HxCDF	pg/L	0.61	0.35	<0.61	<0.35
123789 HxCDF	pg/L	0.76	0.59	<0.76	<0.59
1234678 HpCDF	pg/L	0.51	0.71	1.40	<0.71
1234789 HpCDF	pg/L	0.76	1.4	<0.76	<1.4
OCDF	pg/L	0.97	1.5	4.40	<1.5
Total TCDD	pg/L	0.71	0.78	<0.71	<0.78
Total PeCDD	pg/L	0.80	0.67	<0.80	<0.67
Total HxCDD	pg/L	0.76	0.41	1.55	<0.41
Total HpCDD	pg/L	0.71	0.90	19.3	<0.90
Total TCDF	pg/L	0.62	0.62	<0.62	0.75
Total PeCDF	pg/L	0.50	0.62	<0.50	<0.62
Total HxCDF	pg/L	0.76	0.59	<0.76	<0.59
Total HpCDF	pg/L	0.76	1.4	2.82	<1.4
Phenoxyacid Herbicides by GC/MS					
2,4,5-TP	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
2,4,5-T	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
Picloram	ug/L	5.0	0.50	<5.0	<0.50
PCB					
Aroclor 1016	mg/L	0.00020	0.00010	<0.00020	<0.00010
Aroclor 1221	mg/L	0.00020	0.00010	<0.00020	<0.00010
Aroclor 1232	mg/L	0.00020	0.00010	<0.00020	<0.00010
Aroclor 1242	mg/L	0.00020	0.00010	<0.00020	<0.00010
Aroclor 1248	mg/L	0.00020	0.00010	<0.00020	<0.00010
Aroclor 1254	mg/L	0.00020	0.00010	<0.00020	<0.00010
Aroclor 1260	mg/L	0.00020	0.00010	<0.00020	<0.00010
Aroclor 1262	mg/L	0.00020	0.00010	<0.00020	<0.00010
Aroclor 1268	mg/L	0.00020	0.00010	<0.00020	<0.00010
Total PCBs	mg/L	0.00060	0.00030	<0.00060	<0.00030

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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
Oxychlordane	ug/L	10	1.0	<10	<1.0
Octachlorostyrene	ug/L	5.0	0.50	<5.0	<0.50
Toxaphene	ug/L	15	5.0	<15	<5.0
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	20	0.50	<20	<0.50
2,3,4,6-Tetrachlorophenol	ug/L	20	0.50	<20	<0.50
2,3,5-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,5,6-Tetrachlorophenol	ug/L	20	0.50	<20	<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	60	1.0	<60	<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

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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	132	<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
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	50	2.0	<50	<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
Cresols, Total	ug/L	55	1.0	132	<1.0
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	2.8	<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	20.5	<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	40.0	0.50	<40	<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	28.2	<0.50
Pyrene	ug/L	2.0	0.20	<2.0	<0.20

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Volatile Organics plus F1					
Acetone	mg/L	0.020	0.020	0.056	<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	0.00208	<0.00050
sec-Butylbenzene	mg/L	0.0010	0.00050	<0.0010	<0.00050
tert-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Carbon Disulfide	mg/L	0.00050	0.00050	0.00054	<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	0.0011	<0.0010
Chloroform	mg/L	0.00050	0.00050	0.00331	0.00396
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	0.00193	<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
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
Dinitropyrene	mg/L	na	na	na	na
Ethyl Benzene	mg/L	0.00050	0.00050	0.00699	<0.00050
F1	mg/L	0.10	0.10	0.15	<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	0.00057	<0.00050
4-Isopropyltoluene	mg/L	0.0010	0.00050	<0.0010	<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
4,4'-Methylenebis(2-chloroaniline)	mg/L	na	na	na	na
Naphthalene	mg/L	0.00050	0.00050	0.00172	<0.00050

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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	<0.00050	0.00099
Toluene	mg/L	0.00050	0.00050	0.00368	0.00069
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	0.00885	<0.00050
1,3,5-Trimethylbenzene	mg/L	0.00050	0.00050	0.00245	<0.00050
Vinyl chloride	mg/L	0.00050	0.00050	0.00053	<0.00050
m+p-Xylenes	mg/L	0.00050	0.00050	0.02230	<0.00050
o-Xylene	mg/L	0.00050	0.00050	0.00493	<0.00050
Xylenes (Total)	mg/L	0.0015	0.0015	0.0273	<0.0015

NOTES:

MDL- Method detection limit

mg/L- milligrams/Litre

ug/L- micrograms/Litre

ng/L- nanograms/Litre

pg/L- picograms/Litre

°C - degrees Celsius

umhos/cm - microohms⁻¹/centimeter

<- less than

na- not analyzed due to contract lab error

All parameters were analyzed by contract laboratory.

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2nd Quarter Sampling Parameter	May 26, 2015			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Miscellaneous					
Chromium, Hexavalent	ug/L	1.0	1	<1.0	1.1
Mercury (Hg)-Total	ng/L	1.0	1.0	66.6	3.1
Phenols (4AAP)	mg/L	0.0010	0.0010	0.0352	<0.0010
Trihalomethanes (total)	mg/L	0.0010	0.0010	0.0048	0.0030
Oil and Grease (I.R.)	mg/L	1.0	1.0	10.1	<1.0
Tetraethyl Lead	ug/L	0.070	0.0070	<0.070	<0.0070
Tri-n-butyltin Cation	ug/L	0.050	0.050	<0.050	<0.050
pH unStabilized Trout Bioassay	Pass/Fail				fail
Hardness	mg/L				nr
Alkalinity	mg/L				nr
Temperature	°C				16.0
Dissolved Oxygen	mg/L				9.3
Conductivity	umhos/cm				1203
pH	units				7.1
pH Stabilized Trout Bioassay	Pass/Fail				pass
Hardness	mg/L				410
Alkalinity	mg/L				355
Temperature	°C				15.0
Dissolved Oxygen	mg/L				9.5
Conductivity	umhos/cm				1175
pH	units				7.15
Ammonia, Total (as N)	mg/L				30.3
Ammonia, Un-ionized (as N)	mg/L				0.120
Chlorine, Total	mg/L				0.09
Total Metals by ICP-MS					
Arsenic (As)-Total	mg/L	0.0020	0.0020	<0.0020	<0.0020
Cadmium (Cd)-Total	mg/L	0.00010	0.00010	0.00013	<0.00010
Chromium (Cr)-Total	mg/L	0.010	0.010	<0.010	<0.010
Copper (Cu)-Total	mg/L	0.0020	0.0020	0.0433	0.0039
Lead (Pb)-Total	mg/L	0.00090	0.00090	0.00235	<0.00090
Molybdenum (Mo)-Total	mg/L	0.0020	0.0020	0.0066	0.0125
Nickel (Ni)-Total	mg/L	0.020	0.020	<0.020	0.022
Selenium (Se)-Total	mg/L	0.010	0.010	<0.010	<0.010
Zinc (Zn)-Total	mg/L	0.020	0.020	0.116	0.289
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	0.55	0.18
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	0.49	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

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	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Dioxins and Furans					
2378 TCDD	pg/L	0.43	0.20	<0.43	<0.20
12378 PeCDD	pg/L	0.38	0.47	0.55	<0.47
123478 HxCDD	pg/L	0.44	0.36	<0.44	<0.36
123678 HxCDD	pg/L	0.35	0.31	0.96	<0.31
123789 HxCDD	pg/L	0.38	0.33	<0.38	<0.33
1234678 HpCDD	pg/L	0.22	0.33	8.04	1.39
OCDD	pg/L	0.99	0.93	52.7	3.80
2378 TCDF	pg/L	0.23	0.25	<0.23	<0.25
12378 PeCDF	pg/L	0.33	0.23	<0.33	<0.23
23478 PeCDF	pg/L	0.27	0.21	<0.27	<0.21
123478 HxCDF	pg/L	0.8	0.22	<0.80	<0.22
123678 HxCDF	pg/L	0.74	0.21	<0.74	<0.21
234678 HxCDF	pg/L	1.1	0.22	<1.1	<0.22
123789 HxCDF	pg/L	0.89	0.25	<0.89	0.57
1234678 HpCDF	pg/L	0.73	0.24	1.59	<0.24
1234789 HpCDF	pg/L	0.94	0.31	<0.94	<0.31
OCDF	pg/L	0.55	0.29	4.90	0.84
Total TCDD	pg/L	0.43	0.20	0.89	<0.20
Total PeCDD	pg/L	0.38	0.47	2.30	<0.47
Total HxCDD	pg/L	0.44	0.36	2.60	<0.36
Total HpCDD	pg/L	0.22	0.33	18.0	2.76
Total TCDF	pg/L	0.23	0.25	<0.23	<0.25
Total PeCDF	pg/L	0.33	0.23	<0.33	0.29
Total HxCDF	pg/L	1.1	0.25	<1.1	0.57
Total HpCDF	pg/L	0.94	0.31	4.22	<0.31
Phenoxyacid Herbicides by GC/MS					
2,4,5-TP	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
2,4,5-T	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
Picloram	ug/L	5.0	0.50	<5.0	<0.50
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

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	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
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	2.0	0.10	<2.0	<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
Oxychlordane	ug/L	1.0	0.10	<1.0	<0.10
Octachlorostyrene	ug/L	0.50	0.050	<0.50	<0.050
Toxaphene	ug/L	3.5	2.0	<3.5	<2.0
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	20	2.0	<20	<2.0
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

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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	5.0	0.50	111	<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
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
Cresols, Total	ug/L	10	1.0	111	<1.0
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	40	0.40	46	<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	20.3	<0.50
Pyrene	ug/L	2.0	0.20	<2.0	<0.20

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	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Volatile Organics plus F1					
Acetone	mg/L	0.020	0.020	0.054	<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	0.00481	0.00301
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	0.00251	0.00068
trans-1,2-Dichloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dichloromethane	mg/L	0.00050	0.00050	<0.00050	0.00057
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
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
Dinitropyrene	mg/L	na	na	na	na
Ethyl Benzene	mg/L	0.00050	0.00050	0.00097	<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	0.0020	0.00050	<0.0020	<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
4,4'-Methylenebis(2-chloroaniline)	mg/L	na	na	na	na
Naphthalene	mg/L	0.00050	0.00050	0.00058	<0.00050

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	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Styrene	mg/L	0.00050	0.00050	0.00223	<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	0.00068	0.00136
Toluene	mg/L	0.00050	0.00050	0.00252	<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	0.00117	<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	0.00214	<0.00050
o-Xylene	mg/L	0.00050	0.00050	0.00082	<0.00050
Xylenes (Total)	mg/L	0.0015	0.0015	0.0030	<0.0015

NOTES:

MDL- Method detection limit

mg/L- milligrams/Litre

ug/L- micrograms/Litre

ng/L- nanograms/Litre

pg/L- picograms/Litre

°C - degrees Celsius

umhos/cm - microohms⁻¹/centimeter

<- less than

na- not analyzed due to contract lab error

nr - no result provided by contract lab

All parameters were analyzed by contract laboratory.

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3rd Quarter Sampling Parameter	September 2, 2015			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Miscellaneous					
Chromium, Hexavalent	ug/L	1.0	1	1.1	1.1
Mercury (Hg)-Total	ng/L	1.0	1.0	138	3.7
Phenols (4AAP)	mg/L	0.010	0.0010	0.295	0.0026
Trihalomethanes (total)	mg/L	0.0010	0.0010	0.0039	0.0026
Oil and Grease (I.R.)	mg/L	5.0	5.0	18.0	<5.0
Tetraethyl Lead	ug/L	0.070	0.0070	<0.070	<0.0070
Tri-n-butyltin Cation	ug/L	0.053	0.057	<0.053	<0.057
pH unStabilized Trout Bioassay	Pass/Fail				pass
Hardness	mg/L				330
Alkalinity	mg/L				220
Temperature	°C				14.5
Dissolved Oxygen	mg/L				8.35
Conductivity	umhos/cm				1260
pH	units		0.10		6.84
pH Stabilized Trout Bioassay	Pass/Fail				pass
Hardness	mg/L				310
Alkalinity	mg/L				220
Temperature	°C				14.5
Dissolved Oxygen	mg/L				8.89
Conductivity	umhos/cm				1257
pH	units		0.10		6.60
Ammonia, Total (as N)	mg/L		1.0		15.4
Ammonia, Un-ionized (as N)	mg/L		0.010		0.016
Chlorine, Total	mg/L		0.10		<0.10
Total Metals by ICP-MS					
Arsenic (As)-Total	mg/L	0.00020	0.00020	0.00326	0.00170
Cadmium (Cd)-Total	mg/L	0.000010	0.000010	0.000382	0.000019
Chromium (Cr)-Total	mg/L	0.0010	0.0010	0.0224	0.0126
Copper (Cu)-Total	mg/L	0.00020	0.00020	0.136	0.00584
Lead (Pb)-Total	mg/L	0.000090	0.000090	0.0131	0.000467
Molybdenum (Mo)-Total	mg/L	0.00020	0.00020	0.0132	0.0118
Nickel (Ni)-Total	mg/L	0.0020	0.0020	0.0096	0.0049
Selenium (Se)-Total	mg/L	0.0010	0.0010	0.0014	<0.0010
Zinc (Zn)-Total	mg/L	0.0020	0.0020	0.248	0.0354
Low Level Nonylphenols and Ethoxylates					
Nonylphenols	ug/L	10	1.0	<10	<1.0
Nonylphenol Monoethoxylates	ug/L	20	2.0	<20	<2.0
Nonylphenol Diethoxylates	ug/L	1.0	0.10	<1.0	0.31
Octylphenol	ug/L	10	1.0	<10	<1.0
Octylphenol Monoethoxylate	ug/L	20	2.0	<20	<2.0
Octylphenol Diethoxylate	ug/L	1.0	0.10	<1.0	<0.10
Bisphenol A	ug/L	2.0	0.20	<2.0	0.42
Total Nonylphenol Ethoxylates	ug/L	20	2.0	<20	<2.0
Total Octylphenol Ethoxylate	ug/L	20	2.0	<20	<2.0

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	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Dioxins and Furans					
2378 TCDD	pg/L	1.2	1.4	<1.2	<1.4
12378 PeCDD	pg/L	0.71	0.64	2.43	<0.64
123478 HxCDD	pg/L	1.8	1.0	3.0	<1.0
123678 HxCDD	pg/L	1.5	1.1	24.3	<1.1
123789 HxCDD	pg/L	1.6	1.0	8.0	<1.0
1234678 HpCDD	pg/L	2.4	0.5	807	1.6
OCDD	pg/L	1.7	0.54	4300	6.86
2378 TCDF	pg/L	1.1	0.74	2.4	<0.74
12378 PeCDF	pg/L	0.62	0.59	0.65	0.89
23478 PeCDF	pg/L	0.63	0.57	3.09	<0.57
123478 HxCDF	pg/L	3.2	0.36	<3.2	<0.36
123678 HxCDF	pg/L	2.6	0.31	2.9	0.59
234678 HxCDF	pg/L	4.2	0.36	4.6	0.95
123789 HxCDF	pg/L	3.1	0.47	<3.1	1.43
1234678 HpCDF	pg/L	1.7	0.39	89.0	0.65
1234789 HpCDF	pg/L	2.3	0.54	5.2	<0.54
OCDF	pg/L	0.75	0.64	91.5	<0.64
Total TCDD	pg/L	1.2	1.4	17.4	<1.4
Total PeCDD	pg/L	0.71	0.64	178	<0.64
Total HxCDD	pg/L	1.8	1.1	166	<1.1
Total HpCDD	pg/L	2.4	0.54	1430	<0.54
Total TCDF	pg/L	1.1	0.74	23.2	<0.74
Total PeCDF	pg/L	0.63	0.59	54.8	<0.59
Total HxCDF	pg/L	4.2	0.47	97.8	2.97
Total HpCDF	pg/L	2.3	0.54	210	<0.54
Phenoxyacid Herbicides by GC/MS					
2,4,5-TP	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
2,4,5-T	ug/L	5.0	0.50	<5.0	<0.50
2,4-D	ug/L	5.0	0.50	<5.0	0.99
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
Picloram	ug/L	5.0	0.50	<5.0	<0.50
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

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	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Pesticides, Organochlorine					
Aldrin	ug/L	50	1.5	<50	<1.5
a-chlordane	ug/L	50	1.5	<50	<1.5
g-chlordane	ug/L	50	1.5	<50	<1.5
alpha-BHC	ug/L	50	1.5	<50	<1.5
beta-BHC	ug/L	50	1.5	<50	<1.5
delta-BHC	ug/L	50	1.5	<50	<1.5
op-DDD	ug/L	50	1.5	<50	<1.5
pp-DDD	ug/L	50	1.5	<50	<1.5
op-DDE	ug/L	50	1.5	<50	<1.5
pp-DDE	ug/L	50	1.5	<50	<1.5
op-DDT	ug/L	50	1.5	<50	<1.5
pp-DDT	ug/L	50	1.5	<50	<1.5
Dieldrin	ug/L	50	1.5	<50	<1.5
alpha-Endosulfan	ug/L	50	1.5	<50	<1.5
beta-Endosulfan	ug/L	50	1.5	<50	<1.5
Endosulfan Sulfate	ug/L	50	1.5	<50	<1.5
Endrin	ug/L	50	1.5	<50	<1.5
Endrin Aldehyde	ug/L	50	1.5	<50	<1.5
Hexachlorobenzene	ug/L	50	1.5	<50	<1.5
Heptachlor	ug/L	50	1.5	<50	<1.5
Heptachlor Epoxide	ug/L	50	1.5	<50	<1.5
Lindane	ug/L	50	1.5	<50	<1.5
Methoxychlor	ug/L	50	1.5	<50	<1.5
Mirex	ug/L	50	1.5	<50	<1.5
Oxychlordane	ug/L	50	1.5	<50	<1.5
Octachlorostyrene	ug/L	25	0.25	<25	<0.25
Toxaphene	ug/L	20	21	<20	<21
EPA 8270 Extractables					
1-Chloronaphthalene	ug/L	1.6	0.40	<1.6	<0.40
1-Methylnaphthalene	ug/L	1.6	0.40	<1.6	<0.40
1,2-Dichlorobenzene	ug/L	1.6	0.40	<1.6	<0.40
1,2,3-Trichlorobenzene	ug/L	1.6	0.40	<1.6	<0.40
1,2,4-Trichlorobenzene	ug/L	1.6	0.40	<1.6	<0.40
1,3-Dichlorobenzene	ug/L	1.6	0.40	<1.6	<0.40
1,4-Dichlorobenzene	ug/L	1.6	0.40	<1.6	<0.40
2-Chloronaphthalene	ug/L	1.6	0.40	<1.6	<0.40
2-Chlorophenol	ug/L	1.2	0.30	<1.2	<0.30
2-Methylnaphthalene	ug/L	1.6	0.40	<1.6	<0.40
2-Methylphenol	ug/L	2.0	0.50	<2.0	<0.50
2-Nitrophenol	ug/L	20	0.50	<20	<0.50
2,3,4-Trichlorophenol	ug/L	2.0	0.50	<2.0	<0.50
2,3,4,5-Tetrachlorophenol	ug/L	2.0	0.50	<2.0	<0.50
2,3,4,6-Tetrachlorophenol	ug/L	6.0	0.50	<6.0	<0.50
2,3,5-Trichlorophenol	ug/L	2.0	0.50	<2.0	<0.50
2,3,5,6-Tetrachlorophenol	ug/L	6.0	0.50	<6.0	<0.50
2,4-Dichlorophenol	ug/L	1.2	0.30	<1.2	<0.30
2,4-Dimethylphenol	ug/L	2.0	0.50	<2.0	<0.50
2,4-Dinitrophenol	ug/L	40	1.0	<40	<1.0
2,4-Dinitrotoluene	ug/L	1.6	0.40	<1.6	<0.40
2,4,5-Trichlorophenol	ug/L	2.0	0.50	<2.0	<0.50
2,4,6-Trichlorophenol	ug/L	2.0	0.50	<2.0	<0.50

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	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
2,6-Dichlorophenol	ug/L	2.0	0.50	<2.0	<0.50
2,6-Dinitrotoluene	ug/L	1.6	0.40	<1.6	<0.40
3,3'-Dichlorobenzidine	ug/L	1.6	0.40	<1.6	<0.40
3&4-Methylphenol	ug/L	20	0.50	118	<0.50
4-Bromophenyl phenyl ether	ug/L	1.6	0.40	<1.6	<0.40
4-Chloro-3-methylphenol	ug/L	2.0	0.50	<2.0	<0.50
4-Chloroaniline	ug/L	1.6	0.40	<1.6	<0.40
4-Chlorophenyl phenyl ether	ug/L	1.6	0.40	<1.6	<0.40
4-Nitrophenol	ug/L	2.0	0.50	<2.0	<0.50
4,6-Dinitro-2-methylphenol	ug/L	8.0	2.0	<8.0	<2.0
5-Nitroacenaphthene	ug/L	1.6	0.40	<1.6	<0.40
Acenaphthene	ug/L	0.80	0.20	<0.80	<0.20
Acenaphthylene	ug/L	0.80	0.20	<0.80	<0.20
Anthracene	ug/L	0.80	0.20	<0.80	<0.20
Benzo(a)anthracene	ug/L	0.80	0.20	<0.80	<0.20
Benzo(a)pyrene	ug/L	0.20	0.050	<0.20	<0.050
Benzo(b)fluoranthene	ug/L	0.80	0.20	<0.80	<0.20
Benzo(ghi)perylene	ug/L	0.80	0.20	<0.80	<0.20
Benzo(k)fluoranthene	ug/L	0.80	0.20	<0.80	<0.20
Biphenyl	ug/L	1.6	0.40	<1.6	<0.40
Bis(2-chloroethoxy)methane	ug/L	1.6	0.40	<1.6	<0.40
Bis(2-chloroethyl)ether	ug/L	1.6	0.40	<1.6	<0.40
Bis(2-chloroisopropyl)ether	ug/L	1.6	0.40	<1.6	<0.40
Bis(2-ethylhexyl)phthalate	ug/L	60.0	2.0	62.6	<2.0
Butylbenzyl phthalate	ug/L	1.6	0.40	<1.6	<0.40
Camphene	ug/L	1.6	0.40	<1.6	<0.40
Chrysene	ug/L	0.80	0.20	<0.80	<0.20
Cresols, Total	ug/L	22	1.0	118	<1.0
Di-n-butylphthalate	ug/L	8.0	2.0	<8.0	<2.0
Di-n-octylphthalate	ug/L	1.6	0.40	<1.6	<0.40
Dibenzo(a,h)anthracene	ug/L	0.80	0.20	<0.80	<0.20
Dibenzofuran	ug/L	0.80	0.20	<0.80	<0.20
Diethylphthalate	ug/L	0.80	0.20	2.21	<0.20
Dimethylphthalate	ug/L	0.80	0.20	<0.80	<0.20
Diphenyl ether	ug/L	1.6	0.40	<1.6	<0.40
Diphenylamine	ug/L	1.6	0.40	<1.6	<0.40
Fluoranthene	ug/L	0.80	0.20	<0.80	<0.20
Fluorene	ug/L	0.80	0.20	<0.80	<0.20
Hexachlorobenzene	ug/L	0.16	0.040	<0.16	<0.040
Hexachlorobutadiene	ug/L	0.80	0.20	<0.80	<0.20
Hexachlorocyclopentadiene	ug/L	3.2	0.40	<3.2	<0.40
Hexachloroethane	ug/L	1.6	0.40	<1.6	<0.40
Indeno(1,2,3-cd)pyrene	ug/L	1.0	0.20	<1.0	<0.20
Indole	ug/L	32	0.40	122	<0.40
Isophorone	ug/L	1.6	0.40	<1.6	<0.40
N-Nitroso-di-n-propylamine	ug/L	1.6	0.40	<1.6	<0.40
Naphthalene	ug/L	0.80	0.20	<0.80	<0.20
Nitrobenzene	ug/L	1.6	0.40	<1.6	<0.40
Pentachlorophenol	ug/L	6.0	0.50	<6.0	<0.50
Perylene	ug/L	0.80	0.20	<0.80	<0.20
Phenanthrene	ug/L	0.80	0.20	<0.80	<0.20
Phenol	ug/L	20	0.50	131	<0.50
Pyrene	ug/L	0.80	0.20	<0.80	<0.20

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	Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Volatile Organics plus F1						
Acetone	mg/L	0.020	0.020	0.061	<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	0.0010	0.0015	<0.0010	<0.0015	
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	0.00392	0.00265	
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	0.0010	0.0010	<0.0010	<0.0010	
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	0.00061	<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	0.0010	0.0010	<0.0010	<0.0010	
1,1-Dichloroethene	mg/L	0.00050	0.00050	<0.00050	<0.00050	
cis-1,2-Dichloroethene	mg/L	0.0010	0.0010	0.0015	<0.0010	
trans-1,2-Dichloroethene	mg/L	0.0010	0.0010	<0.0010	<0.0010	
Dichloromethane	mg/L	0.00050	0.00050	0.00065	<0.00050	
1,2-Dichloropropane	mg/L	0.0010	0.0010	<0.0010	<0.0010	
1,3-Dichloropropane	mg/L	0.0010	0.0010	<0.0010	<0.0010	
2,2-Dichloropropane	mg/L	0.0010	0.0010	<0.0010	<0.0010	
1,1-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050	
cis-1,3-Dichloropropene	mg/L	0.0010	0.0010	<0.0010	<0.0010	
trans-1,3-Dichloropropene	mg/L	0.0010	0.0010	<0.0010	<0.0010	
Dinitropyrene	mg/L	na	na	na	na	
Ethyl Benzene	mg/L	0.00050	0.00050	0.00066	<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	0.0010	0.0010	<0.0010	<0.0010	
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	0.0010	0.0010	<0.0010	<0.0010	
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	
4,4'-Methylenebis(2-chloroaniline)	mg/L	na	na	na	na	
Naphthalene	mg/L	0.0010	0.0010	<0.0010	<0.0010	

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	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Styrene	mg/L	0.00050	0.00050	0.00161	<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	0.00178	<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	0.0020	0.0020	<0.0020	<0.0020
1,2,3-Trichloropropane	mg/L	0.0010	0.0010	<0.0010	<0.0010
1,2,4-Trimethylbenzene	mg/L	0.00050	0.00050	0.00064	<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	<0.00050	<0.00050
o-Xylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Xylenes (Total)	mg/L	0.0015	0.0015	<0.0015	<0.0015

NOTES:

MDL- Method detection limit

mg/L- milligrams/Litre

ug/L- micrograms/Litre

ng/L- nanograms/Litre

pg/L- picograms/Litre

°C - degrees Celsius

umhos/cm - microohms⁻¹/centimeter

<- less than

na- not analyzed due to contract lab error

All parameters were analyzed by contract laboratory.

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4th Quarter Sampling Parameter	November 24, 2015			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Miscellaneous					
Chromium, Hexavalent	ug/L	1.0	1	<1.0	<1.0
Mercury (Hg)-Total	ng/L	0.50	0.50	273	4.11
Phenols (4AAP)	mg/L	0.0010	0.0010	0.0536	0.0044
Trihalomethanes (total)	mg/L	0.0010	0.0010	0.0023	0.0021
Oil and Grease (I.R.)	mg/L	5.0	5.0	49.2	<5.0
Tetraethyl Lead	ug/L	0.070	0.0070	<0.070	<0.0070
Tri-n-butyltin Cation	ug/L	0.056	0.056	<0.056	<0.056
pH unStabilized Trout Bioassay	Pass/Fail				pass
Hardness	mg/L				310
Alkalinity	mg/L				250
Temperature	°C				14.6
Dissolved Oxygen	mg/L				9.11
Conductivity	umhos/cm				2800
pH	units		0.10		6.93
pH Stabilized Trout Bioassay	Pass/Fail				pass
Hardness	mg/L				280
Alkalinity	mg/L				290
Temperature	°C				15.7
Dissolved Oxygen	mg/L				9.22
Conductivity	umhos/cm				2820
pH	units		0.10		6.89
Ammonia, Total (as N)	mg/L		1.0		22.3
Ammonia, Un-ionized (as N)	mg/L		0.010		0.050
Chlorine, Total	mg/L		0.10		<0.10
Total Metals by ICP-MS					
Arsenic (As)-Total	mg/L	0.00020	0.00020	0.00244	0.00129
Cadmium (Cd)-Total	mg/L	0.000010	0.000010	0.000418	0.000020
Chromium (Cr)-Total	mg/L	0.0010	0.0010	0.0175	0.0342
Copper (Cu)-Total	mg/L	0.00020	0.00020	0.0795	0.00579
Lead (Pb)-Total	mg/L	0.000090	0.000090	0.0101	0.000623
Molybdenum (Mo)-Total	mg/L	0.00020	0.00020	0.00729	0.00990
Nickel (Ni)-Total	mg/L	0.0020	0.0020	0.0129	0.0061
Selenium (Se)-Total	mg/L	0.0010	0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	mg/L	0.0020	0.0020	0.249	0.0328
Low Level Nonylphenols and Ethoxylates					
Nonylphenols	ug/L	1.0	1.0	1.4	<1.0
Nonylphenol Monoethoxylates	ug/L	2.0	2.0	3.8	<2.0
Nonylphenol Diethoxylates	ug/L	0.10	0.10	1.87	0.12
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	0.91	0.47
Total Nonylphenol Ethoxylates	ug/L	2.0	2.0	5.7	<2.0
Total Octylphenol Ethoxylate	ug/L	2.0	2.0	<2.0	<2.0

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4th Quarter Sampling Parameter	November 24, 2015			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Dioxins and Furans					
2378 TCDD	pg/L	1.8	2.8	<1.8	<2.8
12378 PeCDD	pg/L	1.8	1.1	2.5	<1.1
123478 HxCDD	pg/L	1.7	1.1	5.0	<1.1
123678 HxCDD	pg/L	1.6	0.95	6.7	<0.95
123789 HxCDD	pg/L	1.7	0.99	<1.7	<0.99
1234678 HpCDD	pg/L	1.4	0.90	151	<0.90
OCDD	pg/L	2.0	0.82	1030	3.83
2378 TCDF	pg/L	1.6	2.5	<1.6	<2.5
12378 PeCDF	pg/L	1.8	1.0	<1.8	<1.0
23478 PeCDF	pg/L	1.6	0.88	3.5	<0.88
123478 HxCDF	pg/L	1.8	0.67	17.7	<0.67
123678 HxCDF	pg/L	1.7	0.59	12.0	<0.59
234678 HxCDF	pg/L	1.8	0.64	11.4	<0.64
123789 HxCDF	pg/L	2.4	0.95	<2.4	<0.95
1234678 HpCDF	pg/L	0.93	0.51	140	<0.51
1234789 HpCDF	pg/L	1.4	0.81	13.4	<0.81
OCDF	pg/L	1.1	0.73	163	<0.73
Total TCDD	pg/L	1.8	2.8	<1.8	<2.8
Total PeCDD	pg/L	1.8	1.1	12.1	<1.1
Total HxCDD	pg/L	1.7	1.1	39.9	<1.1
Total HpCDD	pg/L	1.4	0.90	280	<0.90
Total TCDF	pg/L	1.6	2.5	<1.6	<2.5
Total PeCDF	pg/L	1.8	1.0	5.7	<1.0
Total HxCDF	pg/L	2.4	0.95	82.5	<0.95
Total HpCDF	pg/L	1.4	0.81	212	<0.81
Phenoxyacid Herbicides by GC/MS					
2,4,5-TP	ug/L	15	5.0	<15	<5.0
MCPA	ug/L	15	5.0	<15	<5.0
Mecoprop	ug/L	15	5.0	<15	<5.0
2,4,5-T	ug/L	15	5.0	<15	<5.0
2,4-D	ug/L	15	5.0	<15	<5.0
2,4-DP	ug/L	15	5.0	<15	<5.0
Bromoxynil	ug/L	15	5.0	<15	<5.0
Dicamba	ug/L	38	13	<38	<13
Dinoseb	ug/L	15	5.0	<15	<5.0
Picloram	ug/L	15	5.0	<15	<5.0
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
Total PCBs	mg/L	0.00030	0.00030	<0.00030	<0.00030

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4th Quarter Sampling	November 24, 2015			NEWPCC		
	Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Pesticides, Organochlorine						
Aldrin	ug/L	5.0	0.10	<5.0	<0.10	
a-chlordane	ug/L	5.0	0.10	<5.0	<0.10	
g-chlordane	ug/L	5.0	0.10	<5.0	<0.10	
alpha-BHC	ug/L	5.0	0.10	<5.0	<0.10	
beta-BHC	ug/L	5.0	0.10	<5.0	<0.10	
delta-BHC	ug/L	5.0	0.10	<5.0	<0.10	
op-DDD	ug/L	5.0	0.10	<5.0	<0.10	
pp-DDD	ug/L	5.0	0.10	<5.0	<0.10	
op-DDE	ug/L	19	0.10	<19	<0.10	
pp-DDE	ug/L	5.0	0.10	<5.0	<0.10	
op-DDT	ug/L	5.0	0.10	<5.0	<0.10	
pp-DDT	ug/L	5.0	0.10	<5.0	<0.10	
Dieldrin	ug/L	5.0	0.10	<5.0	<0.10	
alpha-Endosulfan	ug/L	5.0	0.10	<5.0	<0.10	
beta-Endosulfan	ug/L	5.0	0.10	<5.0	<0.10	
Endosulfan Sulfate	ug/L	5.0	0.10	<5.0	<0.10	
Endrin	ug/L	5.0	0.10	<5.0	<0.10	
Endrin Aldehyde	ug/L	5.0	0.10	<5.0	<0.10	
Hexachlorobenzene	ug/L	5.0	0.10	<5.0	<0.10	
Heptachlor	ug/L	5.0	0.10	<5.0	<0.10	
Heptachlor Epoxide	ug/L	5.0	0.10	<5.0	<0.10	
Lindane	ug/L	5.0	0.10	<5.0	<0.10	
Methoxychlor	ug/L	5.0	0.10	<5.0	<0.10	
Mirex	ug/L	5.0	0.10	<5.0	<0.10	
Oxychlordane	ug/L	5.0	0.10	<5.0	<0.10	
Octachlorostyrene	ug/L	2.5	0.050	<2.5	<0.050	
Toxaphene	ug/L	10	2.0	<10	<2.0	
EPA 8270 Extractables						
1-Chloronaphthalene	ug/L	20	4.0	<20	<4.0	
1-Methylnaphthalene	ug/L	20	4.0	<20	<4.0	
1,2-Dichlorobenzene	ug/L	20	4.0	<20	<4.0	
1,2,3-Trichlorobenzene	ug/L	20	4.0	<20	<4.0	
1,2,4-Trichlorobenzene	ug/L	20	4.0	<20	<4.0	
1,3-Dichlorobenzene	ug/L	20	4.0	<20	<4.0	
1,4-Dichlorobenzene	ug/L	20	4.0	<20	<4.0	
2-Chloronaphthalene	ug/L	20	4.0	<20	<4.0	
2-Chlorophenol	ug/L	15	3.0	<15	<3.0	
2-Methylnaphthalene	ug/L	20	4.0	<20	<4.0	
2-Methylphenol	ug/L	25	5.0	<25	<5.0	
2-Nitrophenol	ug/L	25	5.0	<25	<5.0	
2,3,4-Trichlorophenol	ug/L	25	5.0	<25	<5.0	
2,3,4,5-Tetrachlorophenol	ug/L	25	5.0	<25	<5.0	
2,3,4,6-Tetrachlorophenol	ug/L	25	5.0	<25	<5.0	
2,3,5-Trichlorophenol	ug/L	25	5.0	<25	<5.0	
2,3,5,6-Tetrachlorophenol	ug/L	25	5.0	<25	<5.0	
2,4-Dichlorophenol	ug/L	15	3.0	<15	<3.0	
2,4-Dimethylphenol	ug/L	25	5.0	<25	<5.0	
2,4-Dinitrophenol	ug/L	50	10	<50	<10	
2,4-Dinitrotoluene	ug/L	20	4.0	<20	<4.0	
2,4,5-Trichlorophenol	ug/L	25	5.0	<25	<5.0	
2,4,6-Trichlorophenol	ug/L	25	5.0	<25	<5.0	

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4th Quarter Sampling Parameter	November 24, 2015			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
2,6-Dichlorophenol	ug/L	25	5.0	<25	<5.0
2,6-Dinitrotoluene	ug/L	20	4.0	<20	<4.0
3,3'-Dichlorobenzidine	ug/L	100	20	<100	<20
3&4-Methylphenol	ug/L	25	5.0	119	<5.0
4-Bromophenyl phenyl ether	ug/L	20	4.0	<20	<4.0
4-Chloro-3-methylphenol	ug/L	25	5.0	<25	<5.0
4-Chloroaniline	ug/L	100	20	<100	<20
4-Chlorophenyl phenyl ether	ug/L	20	4.0	<20	<4.0
4-Nitrophenol	ug/L	25	5.0	<25	<5.0
4,6-Dinitro-2-methylphenol	ug/L	100	20	<100	<20
5-Nitroacenaphthene	ug/L	20	4.0	<20	<4.0
Acenaphthene	ug/L	10	2.0	<10	<2.0
Acenaphthylene	ug/L	10	2.0	<10	<2.0
Anthracene	ug/L	10	2.0	<10	<2.0
Benzo(a)anthracene	ug/L	10	2.0	<10	<2.0
Benzo(a)pyrene	ug/L	2.5	0.50	<2.5	<0.50
Benzo(b)fluoranthene	ug/L	10	2.0	<10	<2.0
Benzo(ghi)perylene	ug/L	10	2.0	<10	<2.0
Benzo(k)fluoranthene	ug/L	10	2.0	<10	<2.0
Biphenyl	ug/L	20	4.0	<20	<4.0
Bis(2-chloroethoxy)methane	ug/L	20	4.0	<20	<4.0
Bis(2-chloroethyl)ether	ug/L	20	4.0	<20	<4.0
Bis(2-chloroisopropyl)ether	ug/L	20	4.0	<20	<4.0
Bis(2-ethylhexyl)phthalate	ug/L	100	20	<100	<20
Butylbenzyl phthalate	ug/L	20	4.0	<20	<4.0
Camphene	ug/L	20	4.0	<20	<4.0
Chrysene	ug/L	10	2.0	<10	<2.0
Cresols, Total	ug/L	50	10	119	<10
Di-n-butylphthalate	ug/L	100	20	<100	<20
Di-n-octylphthalate	ug/L	20	4.0	<20	<4.0
Dibenzo(a,h)anthracene	ug/L	10	2.0	<10	<2.0
Dibenzofuran	ug/L	10	2.0	<10	<2.0
Diethylphthalate	ug/L	10	2.0	<10	<2.0
Dimethylphthalate	ug/L	10	2.0	<10	<2.0
Diphenyl ether	ug/L	20	4.0	<20	<4.0
Diphenylamine	ug/L	20	4.0	<20	<4.0
Fluoranthene	ug/L	10	2.0	<10	<2.0
Fluorene	ug/L	10	2.0	<10	<2.0
Hexachlorobenzene	ug/L	2	0.40	<2.0	<0.40
Hexachlorobutadiene	ug/L	10	2.0	<10	<2.0
Hexachlorocyclopentadiene	ug/L	20	4.0	<20	<4.0
Hexachloroethane	ug/L	20	4.0	<20	<4.0
Indeno(1,2,3-cd)pyrene	ug/L	10	2.0	<10	<2.0
Indole	ug/L	20	4.0	37	<4.0
Isophorone	ug/L	20	4.0	<20	<4.0
N-Nitroso-di-n-propylamine	ug/L	20	4.0	<20	<4.0
Naphthalene	ug/L	10	2.0	<10	<2.0
Nitrobenzene	ug/L	20	4.0	<20	<4.0
Pentachlorophenol	ug/L	25	5.0	<25	<5.0
Perylene	ug/L	10	2.0	<10	<2.0
Phenanthrene	ug/L	10	2.0	<10	<2.0
Phenol	ug/L	25	5.0	38	<5.0
Pyrene	ug/L	10	2.0	<10	<2.0

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4th Quarter Sampling Parameter	November 24, 2015			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Volatile Organics plus F1					
Acetone	mg/L	0.020	0.020	0.060	<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	0.00094	<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	0.00227	0.00212
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	0.00107	<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
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
Dinitropyrene	mg/L	na	na	na	na
Ethyl Benzene	mg/L	0.00050	0.00050	0.00072	<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	0.0010	0.0010	<0.0010	<0.0010
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
4,4'-Methylenebis(2-chloroaniline)	mg/L	na	na	na	na
Naphthalene	mg/L	0.00050	0.00050	<0.00050	<0.00050

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4th Quarter Sampling Parameter	November 24, 2015			NEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
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	<0.00050	<0.00050
Toluene	mg/L	0.00050	0.00050	0.00189	<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	<0.00050	<0.00050
1,3,5-Trimethylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Vinyl chloride	mg/L	0.00050	0.00050	<0.00050	<0.00050
m+p-Xylenes	mg/L	0.00050	0.00050	0.00065	<0.00050
o-Xylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Xylenes (Total)	mg/L	0.0015	0.0015	<0.0015	<0.0015

NOTES:

MDL- Method detection limit

mg/L- milligrams/Litre

ug/L- micrograms/Litre

ng/L- nanograms/Litre

pg/L- picograms/Litre

°C - degrees Celsius

umhos/cm - microohms⁻¹/centimeter

<- less than

na- not analyzed due to contract lab error

All parameters were analyzed by contract laboratory.