

**City Of Winnipeg  
Water Waste Department**

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

1'st Quarter Sampling	February 14, 2012			WEWPCC	
Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
<b>Miscellaneous</b>					
Chromium, Hexavalent	mg/L	1.0	1.0	<1.0	<1.0
Phenols (4AAP)	mg/L	0.0010	0.0010	0.0598	0.0011
Tetraethyl Lead	ug/L	0.0070	0.00070	<0.0070	<0.00070
Total Oil and Grease	mg/L	2.0	2.0	28.2	<2.0
Toxaphene	ug/L	1.0	1.0	<1.0	<1.0
Tributyltin	ug/L	0.0050	0.0050	<0.0050	<0.0050
Trout Bioassay	Pass/Fail			N/A	Pass
Surrogate: 2-Fluorobiphenyl	%			77.6	94.6
Surrogate: Decachlorobiphenyl	%			122.0	162.0
Surrogate: Tetrachloro-m-xylene	%			99.0	88.7
Surrogate: Tributyltin Chloride-D27	%			85.6	42.0
<b>Total Metals by ICP-MS</b>					
Arsenic (As)-Total	mg/L	0.00020	0.00020	0.00107	0.00110
Cadmium (Cd)-Total	mg/L	0.000010	0.000010	0.000164	0.000042
Chromium (Cr)-Total	mg/L	0.0010	0.0010	0.0056	<0.0010
Copper (Cu)-Total	mg/L	0.00020	0.00020	0.0824	0.00726
Lead (Pb)-Total	mg/L	0.000090	0.000090	0.00223	0.000606
Mercury (Hg)-Total	ng/L	1.0	1.0	36.4	2.6
Molybdenum (Mo)-Total	mg/L	0.00020	0.00020	0.0109	0.00955
Nickel (Ni)-Total	mg/L	0.0020	0.0020	0.0079	0.0047
Selenium (Se)-Total	mg/L	0.0010	0.0010	0.0012	0.0010
Zinc (Zn)-Total	mg/L	0.0050	0.0050	0.116	0.0377
<b>Dioxins and Furans</b>					
2378 TCDD	pg/L	0.93	0.58	<0.93	<0.58
12378 PeCDD	pg/L	1.1	0.59	<1.1	<0.59
123478 HxCDD	pg/L	0.78	0.44	<0.78	<0.44
123678 HxCDD	pg/L	0.76	0.43	0.86	<0.43
123789 HxCDD	pg/L	0.79	0.45	<0.79	<0.45
1234678 HpCDD	pg/L	1.4	0.41	22.3	1.74
OCDD	pg/L	2.3	1.4	104	6.7
Total TCDD	pg/L	0.93	0.58	<0.93	2.77
Total PeCDD	pg/L	1.1	0.59	<1.1	<0.59
Total HxCDD	pg/L	0.79	0.45	0.86	<0.45
Total HpCDD	pg/L	1.4	0.41	43.2	1.74
2378 TCDF	pg/L	0.89	0.74	<0.89	<0.74
12378 PeCDF	pg/L	0.46	0.42	<0.46	<0.42
23478 PeCDF	pg/L	0.45	0.35	0.88	0.47
123478 HxCDF	pg/L	0.54	0.23	<0.54	<0.23
123678 HxCDF	pg/L	0.57	0.24	<0.57	<0.24
123789 HxCDF	pg/L	0.80	0.34	<0.80	<0.34
234678 HxCDF	pg/L	0.60	0.26	<0.60	<0.26
1234678 HpCDF	pg/L	0.62	0.17	1.79	0.28
1234789 HpCDF	pg/L	0.99	0.29	<0.99	<0.29
OCDF	pg/L	1.4	1.1	5.8	<1.1
Total TCDF	pg/L	0.89	0.74	<0.89	2.39
Total PeCDF	pg/L	0.46	0.42	0.88	<0.42
Total HxCDF	pg/L	0.80	0.34	<0.80	<0.34
Total HpCDF	pg/L	0.99	0.29	3.23	<0.29

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Lower Bound PCDD/F TEQ (WHO 2005)	pg/L			0.623	0.0194
Mid Point PCDD/F TEQ (WHO 2005)	pg/L			2.48	0.926
Upper Bound PCDD/F TEQ (WHO 2005)	pg/L			3.17	1.66
Surrogate: 13C12 2378 TCDD	%			101.0	100.0
Surrogate: 13C12 12378 PeCDD	%			62.0	94.0
Surrogate: 13C12 123478 HxCDD	%			85.0	89.0
Surrogate: 13C12 123678 HxCDD	%			82.0	84.0
Surrogate: 13C12 1234678 HpCDD	%			84.0	94.0
Surrogate: 13C12 OCDD	%			100.0	113.0
Surrogate: 13C12 2378 TCDF	%			98.0	101.0
Surrogate: 13C12 12378 PeCDF	%			68.0	95.0
Surrogate: 13C12 23478 PeCDF	%			61.0	98.0
Surrogate: 13C12 123478 HxCDF	%			80.0	85.0
Surrogate: 13C12 123678 HxCDF	%			75.0	81.0
Surrogate: 13C12 234678 HxCDF	%			78.0	82.0
Surrogate: 13C12 123789 HxCDF	%			79.0	84.0
Surrogate: 13C12 1234678 HpCDF	%			84.0	98.0
Surrogate: 13C12 1234789 HpCDF	%			78.0	85.0
Surrogate: 37C14 2378 TCDD	%			99.0	92.0
<b>EPA 8270 Extractables</b>					
1,2,3-Trichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,2,4-Trichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,2-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,3-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,4-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1-Chloronaphthalene	ug/L	4.0	0.40	<4.0	<0.40
1-Methylnaphthalene	ug/L	4.0	0.40	<4.0	<0.40
2,3,4,5-Tetrachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,4,6-Tetrachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,4-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,5,6-Tetrachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,5-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,4,5-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,4,6-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,4-Dichlorophenol	ug/L	3.0	0.30	<3.0	<0.30
2,4-Dimethylphenol	ug/L	5.0	0.50	<5.0	<0.50
2,4-Dinitrophenol	ug/L	10	1.0	<10	<1.0
2,4-Dinitrotoluene	ug/L	4.0	0.40	<4.0	<0.40
2,6-Dichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,6-Dinitrotoluene	ug/L	4.0	0.40	<4.0	<0.40
2-Chloronaphthalene	ug/L	4.0	0.40	<4.0	<0.40
2-Chlorophenol	ug/L	3.0	0.30	<3.0	<0.30
2-Methylnaphthalene	ug/L	4.0	0.40	<4.0	<0.40
2-Methylphenol	ug/L	5.0	0.50	<5.0	<0.50
2-Nitrophenol	ug/L	5.0	0.50	<5.0	<0.50
3&4-Methylphenol	ug/L	5.0	0.50	202	0.61
3,3'-Dichlorobenzidine	ug/L	4.0	0.40	<4.0	<0.40
4,6-Dinitro-2-methylphenol	ug/L	20	2.0	<20	<2.0
4-Bromophenyl phenyl ether	ug/L	4.0	0.40	<4.0	<0.40
4-Chloro-3-methylphenol	ug/L	5.0	0.50	<5.0	<0.50
4-Chloroaniline	ug/L	4.0	0.40	<4.0	<0.40

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4-Chlorophenyl phenyl ether	ug/L	4.0	0.40	<4.0	<0.40
4-Nitrophenol	ug/L	5.0	0.50	<5.0	<0.50
5-Nitroacenaphthene	ug/L	4.0	0.40	<4.0	<0.40
Acenaphthene	ug/L	2.0	0.20	<2.0	<0.20
Acenaphthylene	ug/L	2.0	0.20	<2.0	<0.20
Anthracene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(a)anthracene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(a)pyrene	ug/L	0.50	0.050	<0.50	<0.050
Benzo(b)fluoranthene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(ghi)perylene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(k)fluoranthene	ug/L	2.0	0.20	<2.0	<0.20
Biphenyl	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-chloroethoxy)methane	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-chloroethyl)ether	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-chloroisopropyl)ether	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-ethylhexyl)phthalate	ug/L	20	2.0	32	<2.0
Butylbenzyl phthalate	ug/L	4.0	0.40	<4.0	<0.40
Camphene	ug/L	4.0	0.40	<4.0	<0.40
Chrysene	ug/L	2.0	0.20	<2.0	<0.20
Cresols (total)	ug/L	10	1.0	202	1.3
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	4.6	<0.20
Dimethylphthalate	ug/L	2.0	0.20	<2.0	<0.20
Di-n-butylphthalate	ug/L	20	2.0	<20	<2.0
Di-n-octylphthalate	ug/L	4.0	0.40	<4.0	<0.40
Diphenyl ether	ug/L	4.0	0.40	<4.0	<0.40
Diphenylamine	ug/L	4.0	0.40	<4.0	<0.40
Fluoranthene	ug/L	2.0	0.20	<2.0	<0.20
Fluorene	ug/L	2.0	0.20	<2.0	<0.20
Hexachlorobenzene	ug/L	0.40	0.040	<0.4	<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	15	<0.40
Isophorone	ug/L	4.0	0.40	<4.0	<0.40
Naphthalene	ug/L	2.0	0.20	<2.0	<0.20
Nitrobenzene	ug/L	4.0	0.40	<4.0	<0.40
N-Nitroso-di-n-propylamine	ug/L	4.0	0.40	<4.0	<0.40
Pentachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
Perylene	ug/L	2.0	0.20	<2.0	<0.20
Phenanthrene	ug/L	2.0	0.20	<2.0	<0.20
Phenol	ug/L	5.0	0.50	37.8	<0.50
Pyrene	ug/L	2.0	0.20	<2.0	<0.20
Surrogate: 2-Fluorobiphenyl	%			0.0	83.5
Surrogate: 2,4,6-Tribromophenol	%			148.9	108.2
Surrogate: Nitrobenzene d5	%			105.8	102.1
Surrogate: p-Terphenyl d14	%			69.4	83.8
Surrogate: Phenol d5	%			68.5	53.9

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<b>Low Level Nonylphenols and Ethoxylates</b>					
Bisphenol A	ug/L	2.0	0.20	<2.0	<0.20
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	0.26
Total Nonylphenol Ethoxylates	ug/L	20	2.0	<20	<2.0
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	0.26
Total Octylphenol Ethoxylate	ug/L	20	2.0	<20	<2.0
<b>Octachlorostyrene</b>					
Octachlorostyrene	ug/L	0.50	0.50	<0.50	<0.50
Surrogate: 2-Fluorobiphenyl	%			101.1	82.1
Surrogate: p-Terphenyl d14	%			76.3	97.2
<b>PCB</b>					
Aroclor 1016	mg/L	0.00050	0.00050	<0.00050	<0.00050
Aroclor 1221	mg/L	0.00050	0.00050	<0.00050	<0.00050
Aroclor 1232	mg/L	0.00050	0.00050	<0.00050	<0.00050
Aroclor 1242	mg/L	0.00050	0.00050	<0.00050	<0.00050
Aroclor 1248	mg/L	0.00050	0.00050	<0.00050	<0.00050
Aroclor 1254	mg/L	0.00050	0.00050	<0.00050	<0.00050
Aroclor 1260	mg/L	0.00050	0.00050	<0.00050	<0.00050
Aroclor 1262	mg/L	0.00050	0.00050	<0.00050	<0.00050
Aroclor 1268	mg/L	0.00050	0.00050	<0.00050	<0.00050
Total PCBs	mg/L	0.0015	0.0015	<0.0015	<0.0015
Surrogate: Decachlorobiphenyl	%			55.0	88.0
<b>Pesticides, Organochlorine</b>					
a-chlordane	ug/L	1.0	1.0	<1.0	<1.0
Aldrin	ug/L	1.0	1.0	<1.0	<1.0
alpha-BHC	ug/L	1.0	1.0	<1.0	<1.0
alpha-Endosulfan	ug/L	1.0	1.0	<1.0	<1.0
beta-BHC	ug/L	1.0	1.0	<1.0	<1.0
beta-Endosulfan	ug/L	1.0	1.0	<1.0	<1.0
delta-BHC	ug/L	1.0	1.0	<1.0	<1.0
Dieldrin	ug/L	1.0	1.0	<1.0	<1.0
Endosulfan Sulfate	ug/L	1.0	1.0	<1.0	<1.0
Endrin	ug/L	1.0	1.0	<1.0	<1.0
Endrin Aldehyde	ug/L	1.0	1.0	<1.0	<1.0
g-chlordane	ug/L	1.0	1.0	<1.0	<1.0
Heptachlor	ug/L	1.0	1.0	<1.0	<1.0
Heptachlor Epoxide	ug/L	1.0	1.0	<1.0	<1.0
Lindane	ug/L	1.0	1.0	<1.0	<1.0
Methoxychlor	ug/L	1.0	1.0	<1.0	<1.0
Mirex	ug/L	1.0	1.0	<1.0	<1.0
o,p-DDE	ug/L	1.0	1.0	<1.0	<1.0
op-DDD	ug/L	1.0	1.0	<1.0	<1.0
op-DDT	ug/L	1.0	1.0	<1.0	<1.0
Oxychlordane	ug/L	1.0	1.0	<1.0	<1.0
pp-DDD	ug/L	1.0	1.0	<1.0	<1.0
pp-DDE	ug/L	1.0	1.0	<1.0	<1.0

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pp-DDT	ug/L	1.0	1.0	<1.0	<1.0
Surrogate: 2-Fluorobiphenyl	%			74.4	78.9
Surrogate: d14-Terphenyl	%			74.5	88.8
<b>Phenoxyacid Herbicides by GC/MS</b>					
2,4,5-T	ug/L	5.0	0.50	<5.0	<0.50
2,4,5-TP	ug/L	5.0	0.50	<5.0	<0.50
2,4-D	ug/L	5.0	0.50	<5.0	<0.50
2,4-DP	ug/L	NA	NA	NA	NA
Bromoxynil	ug/L	5.0	0.50	<5.0	<0.50
Dicamba	ug/L	5.0	0.50	<5.0	<0.50
Dinoseb	ug/L	5.0	0.50	<5.0	<0.50
MCPA	ug/L	5.0	0.50	<5.0	<0.50
Mecoprop	ug/L	5.0	0.50	<5.0	<0.50
Picloram	ug/L	5.0	0.50	<5.0	<0.50
Surrogate: 2,4-Dichlorophenylacetic Acid	%			83.4	90.5
<b>Volatile Organics</b>					
1,1,1,2-Tetrachloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,1,1-Trichloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,1-Dichloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/L	0.50	0.50	<0.50	<0.50
1,2-Dibromoethane	ug/L	0.50	0.50	<0.50	<0.50
1,2-Dichlorobenzene	ug/L	0.50	0.50	<0.50	<0.50
1,2-Dichloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,2-Dichloropropane	ug/L	0.50	0.50	<0.50	<0.50
1,3-Dichlorobenzene	ug/L	0.50	0.50	<0.50	<0.50
1,4-Dichlorobenzene	ug/L	0.50	0.50	0.51	<0.50
2-Hexanone	ug/L	20	20	<20	<20
Acetone	ug/L	20	20	64	<20
Benzene	ug/L	0.50	0.50	<0.50	<0.50
Bromodichloromethane	ug/L	0.50	0.50	<0.50	<0.50
Bromoform	ug/L	0.50	0.50	<0.50	<0.50
Bromomethane	ug/L	1.0	1.0	<1.0	<1.0
Carbon Disulfide	ug/L	0.50	0.50	0.74	<0.50
Carbon tetrachloride	ug/L	0.50	0.50	<0.50	<0.50
Chlorobenzene	ug/L	0.50	0.50	<0.50	<0.50
Chloroethane	ug/L	1.0	1.0	<1.0	<1.0
Chloroform	ug/L	0.50	0.50	3.09	<0.50
Chloromethane	ug/L	1.0	1.0	<1.0	<1.0
cis-1,2-Dichloroethylene	ug/L	0.50	0.50	<0.50	<0.50
cis-1,3-Dichloropropene	ug/L	0.50	0.50	<0.50	<0.50
Dibromochloromethane	ug/L	0.50	0.50	<0.50	<0.50
Dichlorodifluoromethane	ug/L	1.0	1.0	<1.0	<1.0
Dichloromethane	ug/L	0.50	0.50	<0.50	<0.50
Ethyl Benzene	ug/L	0.50	0.50	<0.50	<0.50
m+p-Xylenes	ug/L	1.0	1.0	<1.0	<1.0
Methyl Ethyl Ketone	ug/L	20	20	<20	<20
Methyl Isobutyl Ketone	ug/L	20	20	<20	<20

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MTBE	ug/L	0.50	0.50	<0.50	<0.50
o-Xylene	ug/L	0.50	0.50	<0.50	<0.50
Styrene	ug/L	0.50	0.50	<0.50	<0.50
Tetrachloroethylene	ug/L	0.50	0.50	<0.50	<0.50
Toluene	ug/L	0.50	0.50	3.85	<0.50
trans-1,2-Dichloroethylene	ug/L	0.50	0.50	<0.50	<0.50
trans-1,3-Dichloropropene	ug/L	0.50	0.50	<0.50	<0.50
Trichloroethylene	ug/L	0.50	0.50	<0.50	<0.50
Trichlorofluoromethane	ug/L	1.0	1.0	<1.0	<1.0
Trihalomethanes (total)	ug/L	2.0	2.0	3.1	<2.0
Vinyl chloride	ug/L	0.50	0.50	<0.50	<0.50
Xylenes (Total)	ug/L	1.5	1.5	<1.5	<1.5
Surrogate: 1,2-Dichloroethane d4	%			124.0	104.3
Surrogate: Toluene-d8	%			92.0	92.1
Surrogate: 4-Bromofluorobenzene	%			79.6	106.6

**NOTES:**

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

*All parameters were analyzed by contract laboratory.*

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2'nd Quarter Sampling Parameter	May 8, 2012			WEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
<b>Miscellaneous</b>					
Chromium, Hexavalent	mg/L	1.0	1.0	<1.0	<1.0
Phenols (4AAP)	mg/L	0.0010	0.0010	0.0530	<0.0010
Tetraethyl Lead	ug/L	0.0070	0.0070	<0.0070	<0.0070
Total Oil and Grease	mg/L	1.0	1.0	<1.0	<1.0
Toxaphene	ug/L	0.10	0.10	<0.10	<0.10
Tributyltin	ug/L	0.0050	0.0050	<0.0050	<0.0050
Trout Bioassay	Pass/Fail			NA	Pass
Surrogate: 2-Fluorobiphenyl	%			82.3	80.0
Surrogate: Decachlorobiphenyl	%			88.0	101.0
Surrogate: Tetrachloro-m-xylene	%			74.7	88.1
Surrogate: Tributyltin Chloride-D27	%			102.7	106.7
<b>Total Metals by ICP-MS</b>					
Arsenic (As)-Total	mg/L	0.0020	0.0020	<0.0020	<0.0020
Cadmium (Cd)-Total	mg/L	0.00010	0.00010	<0.00010	<0.00010
Chromium (Cr)-Total	mg/L	0.010	0.010	<0.010	<0.010
Copper (Cu)-Total	mg/L	0.0020	0.0020	0.0597	0.0067
Lead (Pb)-Total	mg/L	0.00090	0.00090	0.00161	<0.00090
Mercury (Hg)-Total	ng/L	1.0	1.0	54.0	4.4
Molybdenum (Mo)-Total	mg/L	0.0020	0.0020	0.0084	0.0064
Nickel (Ni)-Total	mg/L	0.020	0.020	<0.020	<0.020
Selenium (Se)-Total	mg/L	0.010	0.010	<0.010	<0.010
Zinc (Zn)-Total	mg/L	0.050	0.050	0.067	<0.050
<b>Dioxins and Furans</b>					
2378 TCDD	pg/L	1.0	0.89	<1.0	<0.89
12378 PeCDD	pg/L	1.7	1.4	<1.7	<1.4
123478 HxCDD	pg/L	0.64	0.63	<0.64	<0.63
123678 HxCDD	pg/L	0.65	0.67	<0.65	<0.67
123789 HxCDD	pg/L	0.65	0.66	<0.65	<0.66
1234678 HpCDD	pg/L	1.2	0.79	2.9	1.91
OCDD	pg/L	3.3	2.5	31.1	6.6
Total TCDD	pg/L	1.0	0.89	<1.0	1.78
Total PeCDD	pg/L	1.7	1.4	<1.7	<1.4
Total HxCDD	pg/L	0.65	0.67	<0.65	<0.67
Total HpCDD	pg/L	1.2	0.79	4.2	1.91
2378 TCDF	pg/L	0.90	0.99	<0.90	<0.99
12378 PeCDF	pg/L	1.1	1.0	<1.1	<1.0
23478 PeCDF	pg/L	0.97	0.93	<0.97	<0.93
123478 HxCDF	pg/L	0.67	0.47	<0.67	<0.47
123678 HxCDF	pg/L	0.64	0.46	<0.64	<0.46
123789 HxCDF	pg/L	0.85	0.62	<0.85	<0.62
234678 HxCDF	pg/L	0.67	0.46	<0.67	<0.46
1234678 HpCDF	pg/L	0.50	0.39	0.90	0.68
1234789 HpCDF	pg/L	0.83	0.59	<0.83	<0.59
OCDF	pg/L	2.3	1.7	<2.3	<1.7
Total TCDF	pg/L	0.90	0.99	<0.90	<0.99
Total PeCDF	pg/L	1.1	1.0	<1.1	<1.0
Total HxCDF	pg/L	0.85	0.62	<0.85	<0.62
Total HpCDF	pg/L	0.83	0.59	<0.83	<0.59

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	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Lower Bound PCDD/F TEQ (WHO 2005)	pg/L			0.00933	0.0191
Mid Point PCDD/F TEQ (WHO 2005)	pg/L			1.85	1.58
Upper Bound PCDD/F TEQ (WHO 2005)	pg/L			3.65	3.13
Surrogate: 13C12 2378 TCDD	%			75.0	82.0
Surrogate: 13C12 12378 PeCDD	%			107.0	120.0
Surrogate: 13C12 123478 HxCDD	%			77.0	81.0
Surrogate: 13C12 123678 HxCDD	%			66.0	79.0
Surrogate: 13C12 1234678 HpCDD	%			69.0	83.0
Surrogate: 13C12 OCDD	%			63.0	83.0
Surrogate: 13C12 2378 TCDF	%			77.0	89.0
Surrogate: 13C12 12378 PeCDF	%			101.0	109.0
Surrogate: 13C12 23478 PeCDF	%			103.0	119.0
Surrogate: 13C12 123478 HxCDF	%			66.0	76.0
Surrogate: 13C12 123678 HxCDF	%			65.0	72.0
Surrogate: 13C12 234678 HxCDF	%			66.0	76.0
Surrogate: 13C12 123789 HxCDF	%			73.0	80.0
Surrogate: 13C12 1234678 HpCDF	%			71.0	81.0
Surrogate: 13C12 1234789 HpCDF	%			70.0	83.0
Surrogate: 37C14 2378 TCDD	%			99.0	89.0
<b>EPA 8270 Extractables</b>					
1,2,3-Trichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,2,4-Trichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,2-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,3-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,4-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1-Chloronaphthalene	ug/L	4.0	0.40	<4.0	<0.40
1-Methylnaphthalene	ug/L	4.0	0.40	<4.0	<0.40
2,3,4,5-Tetrachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,4,6-Tetrachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,4-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,5,6-Tetrachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,5-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,4,5-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,4,6-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,4-Dichlorophenol	ug/L	3.0	0.30	<3.0	<0.30
2,4-Dimethylphenol	ug/L	5.0	0.50	<5.0	<0.50
2,4-Dinitrophenol	ug/L	10	1.0	<10	<1.0
2,4-Dinitrotoluene	ug/L	4.0	0.40	<4.0	<0.40
2,6-Dichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,6-Dinitrotoluene	ug/L	4.0	0.40	<4.0	<0.40
2-Chloronaphthalene	ug/L	4.0	0.40	<4.0	<0.40
2-Chlorophenol	ug/L	3.0	0.30	<3.0	<0.30
2-Methylnaphthalene	ug/L	4.0	0.40	<4.0	<0.40
2-Methylphenol	ug/L	5.0	0.50	<5.0	<0.50
2-Nitrophenol	ug/L	5.0	0.50	<5.0	<0.50
3&4-Methylphenol	ug/L	5.0	0.50	124	<0.50
3,3'-Dichlorobenzidine	ug/L	4.0	0.40	<4.0	<0.40
4,6-Dinitro-2-methylphenol	ug/L	20	2.0	<20	<2.0
4-Bromophenyl phenyl ether	ug/L	4.0	0.40	<4.0	<0.40
4-Chloro-3-methylphenol	ug/L	5.0	0.50	<5.0	<0.50
4-Chloroaniline	ug/L	4.0	0.40	<4.0	<0.40



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4-Chlorophenyl phenyl ether	ug/L	4.0	0.40	<4.0	<0.40
4-Nitrophenol	ug/L	5.0	0.50	<5.0	<0.50
5-Nitroacenaphthene	ug/L	4.0	0.40	<4.0	<0.40
Acenaphthene	ug/L	2.0	0.20	<2.0	<0.20
Acenaphthylene	ug/L	2.0	0.20	<2.0	<0.20
Anthracene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(a)anthracene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(a)pyrene	ug/L	0.50	0.05	<0.50	<0.05
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	9.0	1.0	124	<1.0
Dibenzo(a,h)anthracene	ug/L	2.0	0.20	<2.0	<0.20
Dibenzofuran	ug/L	2.0	0.20	<2.0	<0.20
Diethylphthalate	ug/L	2.0	0.20	2.3	<0.20
Dimethylphthalate	ug/L	2.0	0.20	<2.0	<0.20
Di-n-butylphthalate	ug/L	20	2.0	<20	<2.0
Di-n-octylphthalate	ug/L	4.0	0.40	<4.0	<0.40
Diphenyl ether	ug/L	4.0	0.40	<4.0	<0.40
Diphenylamine	ug/L	4.0	0.40	<4.0	<0.40
Fluoranthene	ug/L	2.0	0.20	<2.0	<0.20
Fluorene	ug/L	2.0	0.20	<2.0	<0.20
Hexachlorobenzene	ug/L	0.40	0.040	<0.40	<0.040
Hexachlorobutadiene	ug/L	2.0	0.20	<2.0	<0.20
Hexachlorocyclopentadiene	ug/L	4.0	0.40	<4.0	<0.40
Hexachloroethane	ug/L	4.0	0.40	<4.0	<0.40
Indeno(1,2,3-cd)pyrene	ug/L	2.0	0.20	<2.0	<0.20
Indole	ug/L	4.0	0.40	15.8	<0.40
Isophorone	ug/L	4.0	0.40	<4.0	<0.40
Naphthalene	ug/L	2.0	0.20	<2.0	<0.20
Nitrobenzene	ug/L	4.0	0.40	<4.0	<0.40
N-Nitroso-di-n-propylamine	ug/L	4.0	0.40	<4.0	<0.40
Pentachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
Perylene	ug/L	2.0	0.20	<2.0	<0.20
Phenanthrene	ug/L	2.0	0.20	<2.0	<0.20
Phenol	ug/L	5.0	0.50	27.2	<0.50
Pyrene	ug/L	2.0	0.20	<2.0	<0.20
Surrogate: 2-Fluorobiphenyl	%			90.1	91.7
Surrogate: 2,4,6-Tribromophenol	%			134.9	108.0
Surrogate: Nitrobenzene d5	%			110.8	96.3
Surrogate: p-Terphenyl d14	%			71.8	101.4
Surrogate: Phenol d5	%			49.7	61.8

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	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
<b>Low Level Nonylphenols and Ethoxylates</b>					
Bisphenol A	ug/L	1.0	0.20	<1.0	<0.20
Nonylphenols	ug/L	5.0	1.0	<5.0	<1.0
Nonylphenol Monoethoxylates	ug/L	10	2.0	10	<2.0
Nonylphenol Diethoxylates	ug/L	0.50	0.10	4.18	<0.10
Total Nonylphenol Ethoxylates	ug/L	10	2.0	14	<2.0
Octylphenol	ug/L	5.0	1.0	<5.0	<1.0
Octylphenol Monoethoxylate	ug/L	10	2.0	<10	<2.0
Octylphenol Diethoxylate	ug/L	0.50	0.10	<0.50	<0.10
Total Octylphenol Ethoxylates	ug/L	10	2.0	<10	<2.0
<b>Octachlorostyrene</b>					
Octachlorostyrene	ug/L	5.0	0.50	<5.0	<0.50
Surrogate: 2-Fluorobiphenyl	%			0	88.4
Surrogate: p-Terphenyl d14	%			0	109.6
<b>PCB</b>					
Aroclor 1016	mg/L	0.00020	0.00020	<0.00020	<0.00020
Aroclor 1221	mg/L	0.00020	0.00020	<0.00020	<0.00020
Aroclor 1232	mg/L	0.00020	0.00020	<0.00020	<0.00020
Aroclor 1242	mg/L	0.00020	0.00020	<0.00020	<0.00020
Aroclor 1248	mg/L	0.00020	0.00020	<0.00020	<0.00020
Aroclor 1254	mg/L	0.00020	0.00020	<0.00020	<0.00020
Aroclor 1260	mg/L	0.00020	0.00020	<0.00020	<0.00020
Aroclor 1262	mg/L	0.00020	0.00020	<0.00020	<0.00020
Aroclor 1268	mg/L	0.00020	0.00020	<0.00020	<0.00020
Total PCBs	mg/L	0.00060	0.00060	<0.00060	<0.00060
Surrogate: Decachlorobiphenyl	%			70.0	85.0
<b>Pesticides, Organochlorine</b>					
a-chlordane	ug/L	10	1.0	<10	<1.0
Aldrin	ug/L	10	1.0	<10	<1.0
alpha-BHC	ug/L	10	1.0	<10	<1.0
alpha-Endosulfan	ug/L	10	1.0	<10	<1.0
beta-BHC	ug/L	10	1.0	<10	<1.0
beta-Endosulfan	ug/L	10	1.0	<10	<1.0
delta-BHC	ug/L	10	1.0	<10	<1.0
Dieldrin	ug/L	10	1.0	<10	<1.0
Endosulfan Sulfate	ug/L	10	1.0	<10	<1.0
Endrin	ug/L	10	1.0	<10	<1.0
Endrin Aldehyde	ug/L	10	1.0	<10	<1.0
g-chlordane	ug/L	10	1.0	<10	<1.0
Heptachlor	ug/L	10	1.0	<10	<1.0
Heptachlor Epoxide	ug/L	10	1.0	<10	<1.0
Lindane	ug/L	10	1.0	<10	<1.0
Methoxychlor	ug/L	10	1.0	<10	<1.0
Mirex	ug/L	10	1.0	<10	<1.0
o,p-DDE	ug/L	10	1.0	<10	<1.0
op-DDD	ug/L	10	1.0	<10	<1.0
op-DDT	ug/L	10	1.0	<10	<1.0
Oxychlordane	ug/L	10	1.0	<10	<1.0
pp-DDD	ug/L	10	1.0	<10	<1.0
pp-DDE	ug/L	10	1.0	<10	<1.0

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pp-DDT	ug/L	10	1.0	<10	<1.0
Surrogate: 2-Fluorobiphenyl	%			0.0	79.6
Surrogate: d14-Terphenyl	%			0.0	138.4
<b>Phenoxyacid Herbicides by GC/MS</b>					
2,4,5-T	ug/L	5.0	0.50	<5.0	<0.50
2,4,5-TP	ug/L	5.0	0.50	<5.0	<0.50
2,4-D	ug/L	5.0	0.50	<5.0	<0.50
2,4-DP	ug/L	NA	NA	NA	NA
Bromoxynil	ug/L	5.0	0.50	<5.0	<0.50
Dicamba	ug/L	5.0	0.50	<5.0	<0.50
Dinoseb	ug/L	5.0	0.50	<5.0	<0.50
MCPA	ug/L	5.0	0.50	<5.0	<0.50
Mecoprop	ug/L	5.0	0.50	<5.0	<0.50
Picloram	ug/L	5.0	0.50	<5.0	<0.50
Surrogate: 2,4-Dichlorophenylacetic Acid	%			98.5	117.7
<b>Volatile Organics</b>					
1,1,1,2-Tetrachloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,1,1-Trichloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,1-Dichloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/L	0.50	0.50	<0.50	<0.50
1,2-Dibromoethane	ug/L	0.50	0.50	<0.50	<0.50
1,2-Dichlorobenzene	ug/L	0.50	0.50	<0.50	<0.50
1,2-Dichloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,2-Dichloropropane	ug/L	0.50	0.50	<0.50	<0.50
1,3-Dichlorobenzene	ug/L	0.50	0.50	<0.50	<0.50
1,4-Dichlorobenzene	ug/L	0.50	0.50	<0.50	<0.50
2-Hexanone	ug/L	20	20	<20	<20
Acetone	ug/L	20	20	43	<20
Benzene	ug/L	0.50	0.50	<0.50	<0.50
Bromodichloromethane	ug/L	0.50	0.50	<0.50	<0.50
Bromoform	ug/L	0.50	0.50	<0.50	<0.50
Bromomethane	ug/L	1.0	1.0	<1.0	<1.0
Carbon Disulfide	ug/L	0.50	0.50	<0.50	<0.50
Carbon tetrachloride	ug/L	0.50	0.50	<0.50	<0.50
Chlorobenzene	ug/L	0.50	0.50	<0.50	<0.50
Chloroethane	ug/L	1.0	1.0	<1.0	<1.0
Chloroform	ug/L	0.50	0.50	1.90	<0.50
Chloromethane	ug/L	1.0	1.0	<1.0	<1.0
cis-1,2-Dichloroethylene	ug/L	0.50	0.50	<0.50	<0.50
cis-1,3-Dichloropropene	ug/L	0.50	0.50	<0.50	<0.50
Dibromochloromethane	ug/L	0.50	0.50	<0.50	<0.50
Dichlorodifluoromethane	ug/L	1.0	1.0	<1.0	<1.0
Dichloromethane	ug/L	0.50	0.50	<0.50	<0.50
Ethyl Benzene	ug/L	0.50	0.50	<0.50	<0.50
m+p-Xylenes	ug/L	1.0	1.0	<1.0	<1.0
Methyl Ethyl Ketone	ug/L	20	20	<20	<20
Methyl Isobutyl Ketone	ug/L	20	20	<20	<20

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2'nd Quarter Sampling Parameter	May 8, 2012			WEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
MTBE	ug/L	0.50	0.50	<0.50	<0.50
o-Xylene	ug/L	0.50	0.50	<0.50	<0.50
Styrene	ug/L	0.50	0.50	3.92	<0.50
Tetrachloroethylene	ug/L	0.50	0.50	<0.50	<0.50
Toluene	ug/L	0.50	0.50	1.99	<0.50
trans-1,2-Dichloroethylene	ug/L	0.50	0.50	<0.50	<0.50
trans-1,3-Dichloropropene	ug/L	0.50	0.50	<0.50	<0.50
Trichloroethylene	ug/L	0.50	0.50	<0.50	<0.50
Trichlorofluoromethane	ug/L	1.0	1.0	<1.0	<1.0
Trihalomethanes (total)	ug/L	2.0	2.0	<2.0	<2.0
Vinyl chloride	ug/L	0.50	0.50	<0.50	<0.50
Xylenes (Total)	ug/L	1.5	1.5	<1.5	<1.5
Surrogate: 1,2-Dichloroethane d4	%			101.0	96.1
Surrogate: Toluene-d8	%			100.5	98.5
Surrogate: 4-Bromofluorobenzene	%			98.4	100.9

**NOTES:**

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

*All parameters were analyzed by contract laboratory.*

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3'rd Quarter Sampling Parameter	August 14, 2012			WEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
<b>Miscellaneous</b>					
Chromium, Hexavalent	mg/L	1.0	1.0	<1.0	<1.0
Phenols (4AAP)	mg/L	0.0010	0.001	0.0400	<0.001
Tetraethyl Lead	ug/L	0.0070	0.0070	<0.0070	<0.0070
Total Oil and Grease	mg/L	1.0	1.0	<1.0	<1.0
Toxaphene	ug/L	1.5	1.5	<1.5	<1.5
Tributyltin	ug/L	0.050	0.050	<0.050	<0.050
Trout Bioassay	Pass/Fail			NA	Pass
Surrogate: 2-Fluorobiphenyl	%			88.5	62.6
Surrogate: Decachlorobiphenyl	%			106	110.0
Surrogate: Tetrachloro-m-xylene	%			77.3	74.8
Surrogate: Tri-n-propyltin	%			90	93
<b>Total Metals by ICP-MS</b>					
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	0.051	<0.020
Lead (Pb)-Total	mg/L	0.0090	0.0090	<0.0090	<0.0090
Mercury (Hg)-Total	ng/L	1.0	1.0	30.8	6.0
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	0.50	0.50	<0.50	<0.50
<b>Dioxins and Furans</b>					
2378 TCDD	pg/L	1.3	1.4	<1.3	<1.4
12378 PeCDD	pg/L	1.6	1.2	<1.6	<1.2
123478 HxCDD	pg/L	0.73	0.67	<0.73	<0.67
123678 HxCDD	pg/L	0.75	0.71	<0.75	<0.71
123789 HxCDD	pg/L	0.75	0.70	<0.75	<0.70
1234678 HpCDD	pg/L	1.3	0.57	3.1	<0.57
OCDD	pg/L	2.7	1.3	28.4	3.9
Total TCDD	pg/L	1.3	1.4	<1.3	<1.4
Total PeCDD	pg/L	1.6	1.2	<1.6	<1.2
Total HxCDD	pg/L	0.75	0.71	1.23	<0.71
Total HpCDD	pg/L	1.3	0.57	<1.3	<0.57
2378 TCDF	pg/L	2.3	3.0	<2.3	<3.0
12378 PeCDF	pg/L	0.94	0.85	<0.94	<0.85
23478 PeCDF	pg/L	0.91	0.74	<0.91	<0.74
123478 HxCDF	pg/L	0.39	0.37	<0.39	<0.37
123678 HxCDF	pg/L	0.39	0.36	<0.39	<0.36
123789 HxCDF	pg/L	0.51	0.45	<0.51	<0.45
234678 HxCDF	pg/L	0.42	0.37	<0.42	<0.37
1234678 HpCDF	pg/L	0.87	0.54	1.10	<0.54
1234789 HpCDF	pg/L	1.3	0.78	<1.3	<0.78
OCDF	pg/L	1.7	1.2	<1.7	<1.2
Total TCDF	pg/L	2.3	3.0	<2.3	<3.0
Total PeCDF	pg/L	0.94	0.85	<0.94	<0.85
Total HxCDF	pg/L	0.51	0.45	<0.51	<0.45
Total HpCDF	pg/L	1.3	0.78	<1.3	<0.78

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	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Lower Bound PCDD/F TEQ (WHO 2005)	pg/L			0.00852	0.00
Mid Point PCDD/F TEQ (WHO 2005)	pg/L			1.97	1.77
Upper Bound PCDD/F TEQ (WHO 2005)	pg/L			3.89	3.53
Surrogate: 13C12 2378 TCDD	%			98.0	83.0
Surrogate: 13C12 12378 PeCDD	%			87.0	76.0
Surrogate: 13C12 123478 HxCDD	%			86.0	75.0
Surrogate: 13C12 123678 HxCDD	%			90.0	76.0
Surrogate: 13C12 1234678 HpCDD	%			88.0	86.0
Surrogate: 13C12 OCDD	%			89.0	104.0
Surrogate: 13C12 2378 TCDF	%			96.0	78.0
Surrogate: 13C12 12378 PeCDF	%			91.0	74.0
Surrogate: 13C12 23478 PeCDF	%			81.0	72.0
Surrogate: 13C12 123478 HxCDF	%			88.0	72.0
Surrogate: 13C12 123678 HxCDF	%			83.0	68.0
Surrogate: 13C12 234678 HxCDF	%			82.0	69.0
Surrogate: 13C12 123789 HxCDF	%			81.0	69.0
Surrogate: 13C12 1234678 HpCDF	%			92.0	88.0
Surrogate: 13C12 1234789 HpCDF	%			76.0	76.0
Surrogate: 37C14 2378 TCDD	%			88.0	76.0
<b>EPA 8270 Extractables</b>					
1,2,3-Trichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,2,4-Trichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,2-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,3-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,4-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1-Chloronaphthalene	ug/L	4.0	0.40	<4.0	<0.40
1-Methylnaphthalene	ug/L	4.0	0.40	<4.0	<0.40
2,3,4,5-Tetrachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,4,6-Tetrachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,4-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,5,6-Tetrachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,5-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,4,5-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,4,6-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,4-Dichlorophenol	ug/L	3.0	0.30	<3.0	<0.30
2,4-Dimethylphenol	ug/L	5.0	0.50	<5.0	<0.50
2,4-Dinitrophenol	ug/L	10	1.0	<10	<1.0
2,4-Dinitrotoluene	ug/L	4.0	0.40	<4.0	<0.40
2,6-Dichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,6-Dinitrotoluene	ug/L	4.0	0.40	<4.0	<0.40
2-Chloronaphthalene	ug/L	4.0	0.40	<4.0	<0.40
2-Chlorophenol	ug/L	3.0	0.30	<3.0	<0.30
2-Methylnaphthalene	ug/L	4.0	0.40	<4.0	<0.40
2-Methylphenol	ug/L	5.0	0.50	<5.0	<0.50
2-Nitrophenol	ug/L	5.0	0.50	<5.0	<0.50
3&4-Methylphenol	ug/L	5.0	0.50	131	<0.50
3,3'-Dichlorobenzidine	ug/L	4.0	0.40	<4.0	<0.40
4,6-Dinitro-2-methylphenol	ug/L	20	2.0	<20	<2.0
4-Bromophenyl phenyl ether	ug/L	4.0	0.40	<4.0	<0.40
4-Chloro-3-methylphenol	ug/L	5.0	0.50	<5.0	<0.50
4-Chloroaniline	ug/L	4.0	0.40	<4.0	<0.40

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4-Chlorophenyl phenyl ether	ug/L	4.0	0.40	<4.0	<0.40
4-Nitrophenol	ug/L	5.0	0.50	<5.0	<0.50
5-Nitroacenaphthene	ug/L	4.0	0.40	<4.0	<0.40
Acenaphthene	ug/L	2.0	0.20	<2.0	<0.20
Acenaphthylene	ug/L	2.0	0.20	<2.0	<0.20
Anthracene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(a)anthracene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(a)pyrene	ug/L	0.50	0.050	<0.50	<0.050
Benzo(b)fluoranthene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(ghi)perylene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(k)fluoranthene	ug/L	2.0	0.20	<2.0	<0.20
Biphenyl	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-chloroethoxy)methane	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-chloroethyl)ether	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-chloroisopropyl)ether	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-ethylhexyl)phthalate	ug/L	20	2.0	<20	<2.0
Butylbenzyl phthalate	ug/L	4.0	0.40	<4.0	<0.40
Camphene	ug/L	4.0	0.40	<4.0	<0.40
Chrysene	ug/L	2.0	0.20	<2.0	<0.20
Cresols (total)	ug/L	5.5	1.0	132	<1.0
Dibenzo(a,h)anthracene	ug/L	2.0	0.20	<2.0	<0.20
Dibenzofuran	ug/L	2.0	0.20	<2.0	<0.20
Diethylphthalate	ug/L	2.0	0.20	2.9	<0.20
Dimethylphthalate	ug/L	2.0	0.20	<2.0	<0.20
Di-n-butylphthalate	ug/L	20	2.0	<20	<2.0
Di-n-octylphthalate	ug/L	4.0	0.40	<4.0	<0.40
Diphenyl ether	ug/L	4.0	0.40	<4.0	<0.40
Diphenylamine	ug/L	4.0	0.40	<4.0	<0.40
Fluoranthene	ug/L	2.0	0.20	<2.0	<0.20
Fluorene	ug/L	2.0	0.20	<2.0	<0.20
Hexachlorobenzene	ug/L	0.40	0.040	<0.40	<0.040
Hexachlorobutadiene	ug/L	2.0	0.20	<2.0	<0.20
Hexachlorocyclopentadiene	ug/L	4.0	0.40	<4.0	<0.40
Hexachloroethane	ug/L	4.0	0.40	<4.0	<0.40
Indeno(1,2,3-cd)pyrene	ug/L	2.0	0.20	<2.0	<0.20
Indole	ug/L	4.0	0.40	15.1	<0.40
Isophorone	ug/L	4.0	0.40	<4.0	<0.40
Naphthalene	ug/L	2.0	0.20	<2.0	<0.20
Nitrobenzene	ug/L	4.0	0.40	<4.0	<0.40
N-Nitroso-di-n-propylamine	ug/L	4.0	0.40	<4.0	<0.40
Pentachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
Perylene	ug/L	2.0	0.20	<2.0	<0.20
Phenanthrene	ug/L	2.0	0.20	<2.0	<0.20
Phenol	ug/L	5.0	0.50	28.1	<0.50
Pyrene	ug/L	2.0	0.20	<2.0	<0.20
Surrogate: 2-Fluorobiphenyl	%			109.9	93.4
Surrogate: 2,4,6-Tribromophenol	%			0.0	121.6
Surrogate: Nitrobenzene d5	%			131.9	104.3
Surrogate: p-Terphenyl d14	%			74.8	90.3
Surrogate: Phenol d5	%			66.4	62.7

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	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
<b>Low Level Nonylphenols and Ethoxylates</b>					
Bisphenol A	ug/L	0.20	0.20	<0.20	<0.20
Nonylphenols	ug/L	1.0	1.0	<1.0	<1.0
Nonylphenol Monoethoxylates	ug/L	2.0	2.0	15.4	<2.0
Nonylphenol Diethoxylates	ug/L	0.10	0.10	2.09	<0.10
Total Nonylphenol Ethoxylates	ug/L	2.0	2.0	17.5	<2.0
Octylphenol	ug/L	1.0	1.0	<1.0	<1.0
Octylphenol Monoethoxylate	ug/L	2.0	2.0	<2.0	<2.0
Octylphenol Diethoxylate	ug/L	0.10	0.10	<0.10	<0.10
Total Octylphenol Ethoxylates	ug/L	2.0	2.0	<2.0	<2.0
<b>Octachlorostyrene</b>					
Octachlorostyrene	ug/L	0.50	0.050	<0.50	<0.050
Surrogate: 2-Fluorobiphenyl	%			77.4	75.9
Surrogate: p-Terphenyl d14	%			103.7	83.9
<b>PCB</b>					
Aroclor 1016	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1221	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1232	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1242	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1248	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1254	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1260	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1262	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1268	mg/L	0.00010	0.00010	<0.00010	<0.00010
Total PCBs	mg/L	0.00030	0.00030	<0.00030	<0.00030
Surrogate: Decachlorobiphenyl	%			69.0	90.0
<b>Pesticides, Organochlorine</b>					
a-chlordane	ug/L	10	1.0	<10	<1.0
Aldrin	ug/L	10	1.0	<10	<1.0
alpha-BHC	ug/L	10	1.0	<10	<1.0
alpha-Endosulfan	ug/L	10	1.0	<10	<1.0
beta-BHC	ug/L	10	1.0	<10	<1.0
beta-Endosulfan	ug/L	10	1.0	<10	<1.0
delta-BHC	ug/L	10	1.0	<10	<1.0
Dieldrin	ug/L	10	1.0	<10	<1.0
Endosulfan Sulfate	ug/L	10	1.0	<10	<1.0
Endrin	ug/L	10	1.0	<10	<1.0
Endrin Aldehyde	ug/L	10	1.0	<10	<1.0
g-chlordane	ug/L	10	1.0	<10	<1.0
Heptachlor	ug/L	10	1.0	<10	<1.0
Heptachlor Epoxide	ug/L	10	1.0	<10	<1.0
Lindane	ug/L	10	1.0	<10	<1.0
Methoxychlor	ug/L	10	1.0	<10	<1.0
Mirex	ug/L	10	1.0	<10	<1.0
o,p-DDE	ug/L	10	1.0	<10	<1.0
op-DDD	ug/L	10	1.0	<10	<1.0
op-DDT	ug/L	10	1.0	<10	<1.0
Oxychlordane	ug/L	10	1.0	<10	<1.0
pp-DDD	ug/L	10	1.0	<10	<1.0
pp-DDE	ug/L	10	1.0	<10	<1.0



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	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
pp-DDT	ug/L	10	1.0	<10	<1.0
Surrogate: 2-Fluorobiphenyl	%			0.0	87.2
Surrogate: d14-Terphenyl	%			0.0	100.3
<b>Phenoxyacid Herbicides by GC/MS</b>					
2,4,5-T	ug/L	5.0	0.50	<5.0	<0.50
2,4,5-TP	ug/L	5.0	0.50	<5.0	<0.50
2,4-D	ug/L	5.0	0.50	<5.0	<0.50
2,4-DP	ug/L	NA	NA	NA	NA
Bromoxynil	ug/L	5.0	0.50	<5.0	<0.50
Dicamba	ug/L	5.0	0.50	<5.0	<0.50
Dinoseb	ug/L	5.0	0.50	<5.0	<0.50
MCPA	ug/L	5.0	0.50	<5.0	<0.50
Mecoprop	ug/L	5.0	0.50	<5.0	<0.50
Picloram	ug/L	5.0	0.50	<5.0	<0.50
Surrogate: 2,4-Dichlorophenylacetic Acid	%			72.6	100.4
<b>Volatile Organics</b>					
1,1,1,2-Tetrachloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,1,1-Trichloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,1-Dichloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/L	0.50	0.50	<0.50	<0.50
1,2-Dibromoethane	ug/L	0.50	0.50	<0.50	<0.50
1,2-Dichlorobenzene	ug/L	0.50	0.50	<0.50	<0.50
1,2-Dichloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,2-Dichloropropane	ug/L	0.50	0.50	<0.50	<0.50
1,3-Dichlorobenzene	ug/L	0.50	0.50	<0.50	<0.50
1,4-Dichlorobenzene	ug/L	0.50	0.50	<0.50	<0.50
2-Hexanone	ug/L	20	20	<20	<20
Acetone	ug/L	20	20	30	<20
Benzene	ug/L	0.50	0.50	<0.50	<0.50
Bromodichloromethane	ug/L	0.50	0.50	<0.50	<0.50
Bromoform	ug/L	0.50	0.50	<0.50	<0.50
Bromomethane	ug/L	1.0	1.0	<1.0	<1.0
Carbon Disulfide	ug/L	0.50	0.50	0.59	<0.50
Carbon tetrachloride	ug/L	0.50	0.50	<0.50	<0.50
Chlorobenzene	ug/L	0.50	0.50	<0.50	<0.50
Chloroethane	ug/L	1.0	1.0	<1.0	<1.0
Chloroform	ug/L	0.50	0.50	4.07	<0.50
Chloromethane	ug/L	1.0	1.0	<1.0	<1.0
cis-1,2-Dichloroethylene	ug/L	0.50	0.50	<0.50	<0.50
cis-1,3-Dichloropropene	ug/L	0.50	0.50	<0.50	<0.50
Dibromochloromethane	ug/L	0.50	0.50	<0.50	<0.50
Dichlorodifluoromethane	ug/L	1.0	1.0	<1.0	<1.0
Dichloromethane	ug/L	0.50	0.50	0.52	<0.50
Ethyl Benzene	ug/L	0.50	0.50	<0.50	<0.50
m+p-Xylenes	ug/L	1.0	1.0	<1.0	<1.0
Methyl Ethyl Ketone	ug/L	20	20	<20	<20
Methyl Isobutyl Ketone	ug/L	20	20	<20	<20

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3'rd Quarter Sampling Parameter	August 14, 2012			WEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
MTBE	ug/L	0.50	0.50	<0.50	<0.50
o-Xylene	ug/L	0.50	0.50	<0.50	<0.50
Styrene	ug/L	0.50	0.50	1.41	<0.50
Tetrachloroethylene	ug/L	0.50	0.50	<0.50	<0.50
Toluene	ug/L	0.50	0.50	2.53	<0.50
trans-1,2-Dichloroethylene	ug/L	0.50	0.50	<0.50	<0.50
trans-1,3-Dichloropropene	ug/L	0.50	0.50	<0.50	<0.50
Trichloroethylene	ug/L	0.50	0.50	<0.50	<0.50
Trichlorofluoromethane	ug/L	1.0	1.0	<1.0	<1.0
Trihalomethanes (total)	ug/L	2.0	2.0	4.1	<2.0
Vinyl chloride	ug/L	0.50	0.50	<0.50	<0.50
Xylenes (Total)	ug/L	1.5	1.5	<1.5	<1.5
Surrogate: 1,2-Dichloroethane d4	%			107.8	106.4
Surrogate: Toluene-d8	%			105.5	104.8
Surrogate: 4-Bromofluorobenzene	%			99.6	101.9

**NOTES:**

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

*All parameters were analyzed by contract laboratory.*

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4'th Quarter Sampling	November 14, 2012			WEWPCC	
Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
<b>Miscellaneous</b>					
Chromium, Hexavalent	mg/L	1.0	1.0	<1.0	<1.0
Phenols (4AAP)	mg/L	0.0010	0.0010	0.0060	<0.0010
Tetraethyl Lead	ug/L	0.0070	0.00070	<0.0070	<0.00070
Total Oil and Grease	mg/L	1.0	1.0	15.9	<1.0
Toxaphene	ug/L	1.5	1.5	<1.5	<1.5
Tributyltin	ug/L	0.050	0.050	<0.050	<0.050
Trout Bioassay	Pass/Fail			NA	Pass
Surrogate: 2-Fluorobiphenyl	%			77.1	100.8
Surrogate: Decachlorobiphenyl	%			110.2	110.4
Surrogate: Tetrachloro-m-xylene	%			95.9	97.8
Surrogate: Tri-n-propyltin	%			113	78
<b>Total Metals by ICP-MS</b>					
Arsenic (As)-Total	mg/L	0.00020	0.00020	0.00124	0.00122
Cadmium (Cd)-Total	mg/L	0.000010	0.000010	0.000193	0.000084
Chromium (Cr)-Total	mg/L	0.0010	0.0010	0.0031	<0.0010
Copper (Cu)-Total	mg/L	0.00020	0.00020	0.105	0.00862
Lead (Pb)-Total	mg/L	0.000090	0.000090	0.00306	0.000351
Mercury (Hg)-Total	ng/L	1.0	1.0	78.0	1.4
Molybdenum (Mo)-Total	mg/L	0.00020	0.00020	0.0230	0.0115
Nickel (Ni)-Total	mg/L	0.0020	0.0020	0.0062	0.0040
Selenium (Se)-Total	mg/L	0.0010	0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	mg/L	0.0050	0.0050	0.107	0.0182
<b>Dioxins and Furans</b>					
2378 TCDD	pg/L	0.68	1.1	<0.68	<1.1
12378 PeCDD	pg/L	0.90	0.86	<0.90	<0.86
123478 HxCDD	pg/L	0.30	0.31	0.87	<0.31
123678 HxCDD	pg/L	0.37	0.37	2.65	<0.37
123789 HxCDD	pg/L	0.33	0.34	0.96	<0.34
1234678 HpCDD	pg/L	0.42	0.39	45.1	0.70
OCDD	pg/L	0.53	0.44	391	4.30
Total TCDD	pg/L	0.68	1.1	<0.68	<1.1
Total PeCDD	pg/L	0.90	0.86	<0.90	<0.86
Total HxCDD	pg/L	0.37	0.37	8.00	<0.37
Total HpCDD	pg/L	0.42	0.39	45.1	0.81
2378 TCDF	pg/L	0.38	0.33	<0.38	<0.33
12378 PeCDF	pg/L	0.58	0.50	<0.58	<0.50
23478 PeCDF	pg/L	0.50	0.45	0.66	<0.45
123478 HxCDF	pg/L	0.21	0.22	<0.21	<0.22
123678 HxCDF	pg/L	0.21	0.21	0.32	<0.21
123789 HxCDF	pg/L	0.23	0.24	<0.23	<0.24
234678 HxCDF	pg/L	0.21	0.21	0.53	<0.21
1234678 HpCDF	pg/L	0.29	0.28	3.03	<0.28
1234789 HpCDF	pg/L	0.37	0.35	0.55	<0.35
OCDF	pg/L	0.37	0.31	6.40	<0.31
Total TCDF	pg/L	0.38	0.33	0.58	<0.33
Total PeCDF	pg/L	0.58	0.50	1.87	<0.50
Total HxCDF	pg/L	0.23	0.24	2.96	<0.24
Total HpCDF	pg/L	0.37	0.35	6.96	<0.35

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4'th Quarter Sampling Parameter	November 14, 2012			WEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Lower Bound PCDD/F TEQ (WHO 2005)	pg/L			1.05	0.00
Mid Point PCDD/F TEQ (WHO 2005)	pg/L			2.18	1.18
Upper Bound PCDD/F TEQ (WHO 2005)	pg/L			3.02	2.35
Surrogate: 13C12 2378 TCDD	%			65.0	40.0
Surrogate: 13C12 12378 PeCDD	%			51.0	55.0
Surrogate: 13C12 123478 HxCDD	%			72.0	82.0
Surrogate: 13C12 123678 HxCDD	%			57.0	74.0
Surrogate: 13C12 1234678 HpCDD	%			52.0	69.0
Surrogate: 13C12 OCDD	%			43.0	66.0
Surrogate: 13C12 2378 TCDF	%			71.0	86.0
Surrogate: 13C12 12378 PeCDF	%			53.0	61.0
Surrogate: 13C12 23478 PeCDF	%			55.0	62.0
Surrogate: 13C12 123478 HxCDF	%			64.0	78.0
Surrogate: 13C12 123678 HxCDF	%			63.0	78.0
Surrogate: 13C12 234678 HxCDF	%			68.0	80.0
Surrogate: 13C12 123789 HxCDF	%			67.0	82.0
Surrogate: 13C12 1234678 HpCDF	%			59.0	78.0
Surrogate: 13C12 1234789 HpCDF	%			57.0	76.0
Surrogate: 37C14 2378 TCDD	%			61.0	37.0
<b>EPA 8270 Extractables</b>					
1,2,3-Trichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,2,4-Trichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,2-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,3-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,4-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1-Chloronaphthalene	ug/L	4.0	0.40	<4.0	<0.40
1-Methylnaphthalene	ug/L	4.0	0.40	<4.0	<0.40
2,3,4,5-Tetrachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,4,6-Tetrachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,4-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,5,6-Tetrachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,5-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,4,5-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,4,6-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,4-Dichlorophenol	ug/L	3.0	0.30	<3.0	<0.30
2,4-Dimethylphenol	ug/L	5.0	0.50	<5.0	<0.50
2,4-Dinitrophenol	ug/L	100	1.0	<100	<1.0
2,4-Dinitrotoluene	ug/L	4.0	0.40	<4.0	<0.40
2,6-Dichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,6-Dinitrotoluene	ug/L	4.0	0.40	<4.0	<0.40
2-Chloronaphthalene	ug/L	4.0	0.40	<4.0	<0.40
2-Chlorophenol	ug/L	3.0	0.30	<3.0	<0.30
2-Methylnaphthalene	ug/L	4.0	0.40	<4.0	<0.40
2-Methylphenol	ug/L	5.0	0.50	<5.0	<0.50
2-Nitrophenol	ug/L	5.0	0.50	<5.0	<0.50
3&4-Methylphenol	ug/L	5.0	0.50	164	<0.50
3,3'-Dichlorobenzidine	ug/L	4.0	0.40	<4.0	<0.40
4,6-Dinitro-2-methylphenol	ug/L	20	2.0	<20	<2.0
4-Bromophenyl phenyl ether	ug/L	4.0	0.40	<4.0	<0.40
4-Chloro-3-methylphenol	ug/L	5.0	0.50	<5.0	<0.50
4-Chloroaniline	ug/L	4.0	0.40	<4.0	<0.40

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4'th Quarter Sampling Parameter	November 14, 2012			WEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
4-Chlorophenyl phenyl ether	ug/L	4.0	0.40	<4.0	<0.40
4-Nitrophenol	ug/L	5.0	0.50	<5.0	<0.50
5-Nitroacenaphthene	ug/L	4.0	0.40	<4.0	<0.40
Acenaphthene	ug/L	2.0	0.20	<2.0	<0.20
Acenaphthylene	ug/L	2.0	0.20	<2.0	<0.20
Anthracene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(a)anthracene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(a)pyrene	ug/L	0.50	0.050	<0.50	<0.050
Benzo(b)fluoranthene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(ghi)perylene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(k)fluoranthene	ug/L	2.0	0.20	<2.0	<0.20
Biphenyl	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-chloroethoxy)methane	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-chloroethyl)ether	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-chloroisopropyl)ether	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-ethylhexyl)phthalate	ug/L	20	2.0	<20	<2.0
Butylbenzyl phthalate	ug/L	4.0	0.40	<4.0	<0.40
Camphene	ug/L	4.0	0.40	<4.0	<0.40
Chrysene	ug/L	2.0	0.20	<2.0	<0.20
Cresols (total)	ug/L	5.5	1.0	166	<1.0
Dibenzo(a,h)anthracene	ug/L	2.0	0.20	<2.0	<0.20
Dibenzofuran	ug/L	2.0	0.20	<2.0	<0.20
Diethylphthalate	ug/L	2.0	0.20	3.9	<0.20
Dimethylphthalate	ug/L	2.0	0.20	<2.0	<0.20
Di-n-butylphthalate	ug/L	20	2.0	<20	<2.0
Di-n-octylphthalate	ug/L	4.0	0.40	<4.0	<0.40
Diphenyl ether	ug/L	4.0	0.40	<4.0	<0.40
Diphenylamine	ug/L	4.0	0.40	<4.0	<0.40
Fluoranthene	ug/L	2.0	0.20	<2.0	<0.20
Fluorene	ug/L	2.0	0.20	<2.0	<0.20
Hexachlorobenzene	ug/L	0.40	0.040	<0.40	<0.040
Hexachlorobutadiene	ug/L	2.0	0.20	<2.0	<0.20
Hexachlorocyclopentadiene	ug/L	4.0	0.40	<4.0	<0.40
Hexachloroethane	ug/L	4.0	0.40	<4.0	<0.40
Indeno(1,2,3-cd)pyrene	ug/L	2.0	0.20	<2.0	<0.20
Indole	ug/L	4.0	0.40	12.8	<0.40
Isophorone	ug/L	4.0	0.40	<4.0	<0.40
Naphthalene	ug/L	2.0	0.20	<2.0	<0.20
Nitrobenzene	ug/L	4.0	0.40	<4.0	<0.40
N-Nitroso-di-n-propylamine	ug/L	4.0	0.40	<4.0	<0.40
Pentachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
Perylene	ug/L	2.0	0.20	<2.0	<0.20
Phenanthrene	ug/L	2.0	0.20	<2.0	<0.20
Phenol	ug/L	5.0	0.50	33.4	<0.50
Pyrene	ug/L	2.0	0.20	<2.0	<0.20
Surrogate: 2-Fluorobiphenyl	%			96.2	84.9
Surrogate: 2,4,6-Tribromophenol	%			0.0	122.0
Surrogate: Nitrobenzene d5	%			119.8	100.1
Surrogate: p-Terphenyl d14	%			94.4	95.9
Surrogate: Phenol d5	%			61.5	65.0

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4'th Quarter Sampling Parameter	November 14, 2012			WEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
<b>Low Level Nonylphenols and Ethoxylates</b>					
Bisphenol A	ug/L	0.20	0.20	0.21	<0.20
Nonylphenols	ug/L	1.0	1.0	1.1	<1.0
Nonylphenol Monoethoxylates	ug/L	2.0	2.0	7.9	<2.0
Nonylphenol Diethoxylates	ug/L	0.10	0.10	2.83	<0.10
Total Nonylphenol Ethoxylates	ug/L	2.0	2.0	10.7	<2.0
Octylphenol	ug/L	1.0	1.0	<1.0	<1.0
Octylphenol Monoethoxylate	ug/L	2.0	2.0	<2.0	<2.0
Octylphenol Diethoxylate	ug/L	0.10	0.10	0.17	<0.10
Total Octylphenol Ethoxylates	ug/L	2.0	2.0	<2.0	<2.0
<b>Octachlorostyrene</b>					
Octachlorostyrene	ug/L	0.50	0.050	<0.50	<0.050
Surrogate: 2-Fluorobiphenyl	%			182.1	88.5
Surrogate: p-Terphenyl d14	%			118.0	110.9
<b>PCB</b>					
Aroclor 1016	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1221	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1232	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1242	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1248	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1254	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1260	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1262	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1268	mg/L	0.00010	0.00010	<0.00010	<0.00010
Total PCBs	mg/L	0.00030	0.00030	<0.00030	<0.00030
Surrogate: Decachlorobiphenyl	%			93.0	106.0
<b>Pesticides, Organochlorine</b>					
a-chlordane	ug/L	10	0.10	<10	<0.10
Aldrin	ug/L	10	0.10	<10	<0.10
alpha-BHC	ug/L	10	0.10	<10	<0.10
alpha-Endosulfan	ug/L	10	0.10	<10	<0.10
beta-BHC	ug/L	10	0.10	<10	<0.10
beta-Endosulfan	ug/L	10	0.10	<10	<0.10
delta-BHC	ug/L	10	0.10	<10	<0.10
Dieldrin	ug/L	10	0.10	<10	<0.10
Endosulfan Sulfate	ug/L	10	0.10	<10	<0.10
Endrin	ug/L	10	0.10	<10	<0.10
Endrin Aldehyde	ug/L	10	0.10	<10	<0.10
g-chlordane	ug/L	10	0.10	<10	<0.10
Heptachlor	ug/L	10	0.10	<10	<0.10
Heptachlor Epoxide	ug/L	10	0.10	<10	<0.10
Lindane	ug/L	10	0.10	<10	<0.10
Methoxychlor	ug/L	10	0.10	<10	<0.10
Mirex	ug/L	10	0.10	<10	<0.10
o,p-DDE	ug/L	10	0.10	<10	<0.10
op-DDD	ug/L	10	0.10	<10	<0.10
op-DDT	ug/L	10	0.10	<10	<0.10
Oxychlordane	ug/L	10	0.10	<10	<0.10
pp-DDD	ug/L	10	0.10	<10	<0.10
pp-DDE	ug/L	10	0.10	<10	<0.10

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4'th Quarter Sampling Parameter	November 14, 2012			WEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
pp-DDT	ug/L	10	0.10	<10	<0.10
Surrogate: 2-Fluorobiphenyl	%			0.0	94.0
Surrogate: d14-Terphenyl	%			0.0	93.6
<b>Phenoxyacid Herbicides by GC/MS</b>					
2,4,5-T	ug/L	0.50	0.50	<0.50	<0.50
2,4,5-TP	ug/L	0.50	0.50	<0.50	<0.50
2,4-D	ug/L	0.50	0.50	<0.50	<0.50
2,4-DP	ug/L	0.50	0.50	<0.50	<0.50
Bromoxynil	ug/L	0.50	0.50	<0.50	<0.50
Dicamba	ug/L	0.50	0.50	<0.50	<0.50
Dinoseb	ug/L	0.50	0.50	<0.50	<0.50
MCPA	ug/L	0.50	0.50	<0.50	<0.50
Mecoprop	ug/L	0.50	0.50	<0.50	<0.50
Picloram	ug/L	0.50	0.50	<0.50	<0.50
Surrogate: 2,4-Dichlorophenylacetic Acid	%			84.8	99.7
<b>Volatile Organics</b>					
1,1,1,2-Tetrachloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,1,1-Trichloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,1-Dichloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/L	0.50	0.50	<0.50	<0.50
1,2-Dibromoethane	ug/L	0.50	0.50	<0.50	<0.50
1,2-Dichlorobenzene	ug/L	0.50	0.50	<0.50	<0.50
1,2-Dichloroethane	ug/L	0.50	0.50	<0.50	<0.50
1,2-Dichloropropane	ug/L	0.50	0.50	<0.50	<0.50
1,3-Dichlorobenzene	ug/L	0.50	0.50	<0.50	<0.50
1,4-Dichlorobenzene	ug/L	0.50	0.50	<0.50	<0.50
2-Hexanone	ug/L	20	20	<20	<20
Acetone	ug/L	20	20	63	<20
Benzene	ug/L	0.50	0.50	<0.50	<0.50
Bromodichloromethane	ug/L	0.50	0.50	<0.50	<0.50
Bromoform	ug/L	0.50	0.50	<0.50	<0.50
Bromomethane	ug/L	1.0	1.0	<1.0	<1.0
Carbon Disulfide	ug/L	0.50	0.50	2.40	<0.50
Carbon tetrachloride	ug/L	0.50	0.50	<0.50	<0.50
Chlorobenzene	ug/L	0.50	0.50	<0.50	<0.50
Chloroethane	ug/L	1.0	1.0	<1.0	<1.0
Chloroform	ug/L	0.50	0.50	2.54	<0.50
Chloromethane	ug/L	1.0	1.0	<1.0	<1.0
cis-1,2-Dichloroethylene	ug/L	0.50	0.50	<0.50	<0.50
cis-1,3-Dichloropropene	ug/L	0.50	0.50	<0.50	<0.50
Dibromochloromethane	ug/L	0.50	0.50	<0.50	<0.50
Dichlorodifluoromethane	ug/L	1.0	1.0	<1.0	<1.0
Dichloromethane	ug/L	0.50	0.50	<0.50	<0.50
Ethyl Benzene	ug/L	0.50	0.50	<0.50	<0.50
m+p-Xylenes	ug/L	1.0	1.0	<1.0	<1.0
Methyl Ethyl Ketone	ug/L	20	20	<20	<20
Methyl Isobutyl Ketone	ug/L	20	20	<20	<20

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4'th Quarter Sampling Parameter	November 14, 2012			WEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
MTBE	ug/L	0.50	0.50	<0.50	<0.50
o-Xylene	ug/L	0.50	0.50	<0.50	<0.50
Styrene	ug/L	0.50	0.50	<0.50	<0.50
Tetrachloroethylene	ug/L	0.50	0.50	<0.50	<0.50
Toluene	ug/L	0.50	0.50	4.09	<0.50
trans-1,2-Dichloroethylene	ug/L	0.50	0.50	<0.50	<0.50
trans-1,3-Dichloropropene	ug/L	0.50	0.50	<0.50	<0.50
Trichloroethylene	ug/L	0.50	0.50	<0.50	<0.50
Trichlorofluoromethane	ug/L	1.0	1.0	<1.0	<1.0
Trihalomethanes (total)	ug/L	2.0	2.0	2.5	<2.0
Vinyl chloride	ug/L	0.50	0.50	<0.50	<0.50
Xylenes (Total)	ug/L	1.5	1.5	<1.5	<1.5
Surrogate: 1,2-Dichloroethane d4	%			113.4	102.3
Surrogate: Toluene-d8	%			94.6	95.6
Surrogate: 4-Bromofluorobenzene	%			99.0	105.0

**NOTES:**

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

*All parameters were analyzed by contract laboratory.*