

**City Of Winnipeg
Water Waste Department**

West End Water Pollution Control Centre Quarterly Monitoring Report

1'st Quarter Sampling Parameter	February 12, 2013			WEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Miscellaneous					
Ammonia, Total (as N)	mg/L		0.10	NA	3.71
Ammonia, Un-ionized (as N)	mg/L		0.010	NA	0.019
Chlorine, Total	mg/L		0.10	NA	<0.10
Chromium, Hexavalent	mg/L	1.0	1.0	<1.0	<1.0
Phenols (4AAP)	mg/L	0.0010	0.0010	0.0270	<0.0010
Tetraethyl Lead	ug/L	0.0070	0.00070	<0.0070	<0.00070
Toxaphene	ug/L	1.5	1.5	<1.5	<1.5
Tri-n-butyltin Cation	ug/L	0.050	0.050	<0.050	<0.050
Hydrocarbons, Recoverable (I.R.)	mg/L	1.0	1.0	6.2	<1.0
Trout Bioassay	Pass/Fail			NA	Pass
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	76.8	74.4
Surrogate: Decachlorobiphenyl	%	50-150	50-150	111.3	107.7
Surrogate: Tetrachloro-m-xylene	%	50-150	50-150	99.9	91.2
Surrogate: Tri-n-propyltin	%	31-137	31-137	117	89
Total Metals by ICP-MS					
Arsenic (As)-Total	mg/L	0.00020	0.00020	0.00089	0.00103
Cadmium (Cd)-Total	mg/L	0.000010	0.000010	0.000134	0.000051
Chromium (Cr)-Total	mg/L	0.0010	0.0010	0.0013	<0.0010
Copper (Cu)-Total	mg/L	0.00020	0.00020	0.08390	0.00608
Lead (Pb)-Total	mg/L	0.000090	0.000090	0.001810	0.000463
Mercury (Hg)-Total	ng/L	1.0	1.0	117	2.4
Molybdenum (Mo)-Total	mg/L	0.00020	0.00020	0.01900	0.01420
Nickel (Ni)-Total	mg/L	0.0020	0.0020	0.0044	0.0049
Selenium (Se)-Total	mg/L	0.0010	0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	mg/L	0.0050	0.0050	0.0906	0.0336
Dioxins and Furans					
2378 TCDD	pg/L	0.70	0.54	<0.70	<0.54
12378 PeCDD	pg/L	2.6	2.7	<2.6	<2.7
123478 HxCDD	pg/L	1.5	0.91	<1.5	<0.91
123678 HxCDD	pg/L	1.8	1.1	<1.8	<1.1
123789 HxCDD	pg/L	1.6	0.98	<1.6	<0.98
1234678 HpCDD	pg/L	2.2	1.3	6.7	<1.3
OCDD	pg/L	4.1	3.3	45.9	<3.3
Total TCDD	pg/L	0.70	0.54	<0.70	<0.54
Total PeCDD	pg/L	2.6	2.7	3.0	<2.7
Total HxCDD	pg/L	1.8	1.1	<1.8	<1.1
Total HpCDD	pg/L	2.2	1.3	6.7	<1.3
2378 TCDF	pg/L	0.47	0.40	<0.47	<0.40
12378 PeCDF	pg/L	0.96	1.1	<0.96	<1.1
23478 PeCDF	pg/L	0.86	1.0	<0.86	<1.0
123478 HxCDF	pg/L	2.1	0.66	<2.1	<0.66
123678 HxCDF	pg/L	2.6	0.63	<2.6	<0.63
123789 HxCDF	pg/L	3.0	0.80	<3.0	<0.80
234678 HxCDF	pg/L	2.4	0.67	<2.4	<0.67
1234678 HpCDF	pg/L	1.1	0.73	<1.1	<0.73
1234789 HpCDF	pg/L	1.7	1.3	<1.7	<1.3
OCDF	pg/L	3.0	2.4	3.1	<2.4
Total TCDF	pg/L	0.47	0.40	<0.47	<0.40
Total PeCDF	pg/L	0.96	1.1	<0.96	<1.1
Total HxCDF	pg/L	3.0	0.80	<3.0	<0.80

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Total HpCDF	pg/L	1.7	1.3	<1.7	<1.3
Lower Bound PCDD/F TEQ (WHO 2005)	pg/L			0.0814	0.00
Mid Point PCDD/F TEQ (WHO 2005)	pg/L			2.66	2.11
Upper Bound PCDD/F TEQ (WHO 2005)	pg/L			5.24	4.22
Surrogate: 13C12 2378 TCDD	%	20-175	20-175	87.0	81.0
Surrogate: 13C12 12378 PeCDD	%	21-227	21-227	78.0	117.0
Surrogate: 13C12 123478 HxCDD	%	21-193	21-193	89.0	84.0
Surrogate: 13C12 123678 HxCDD	%	25-163	25-163	68.0	68.0
Surrogate: 13C12 1234678 HpCDD	%	23-166	23-166	74.0	73.0
Surrogate: 13C12 OCDD	%	13-138	13-138	99.0	88.0
Surrogate: 13C12 2378 TCDF	%	22-152	22-152	88.0	79.0
Surrogate: 13C12 12378 PeCDF	%	24-185	24-185	64.0	88.0
Surrogate: 13C12 23478 PeCDF	%	21-178	21-178	73.0	105.0
Surrogate: 13C12 123478 HxCDF	%	26-152	26-152	78.0	68.0
Surrogate: 13C12 123678 HxCDF	%	21-159	21-159	62.0	67.0
Surrogate: 13C12 234678 HxCDF	%	17-205	17-205	74.0	71.0
Surrogate: 13C12 123789 HxCDF	%	28-136	28-136	55.0	56.0
Surrogate: 13C12 1234678 HpCDF	%	21-158	21-158	73.0	75.0
Surrogate: 13C12 1234789 HpCDF	%	20-186	20-186	79.0	71.0
Surrogate: 37C14 2378 TCDD	%	31-191	31-191	85.0	85.0
EPA 8270 Extractables					
1,2,3-Trichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,2,4-Trichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,2-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,3-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,4-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1-Chloronaphthalene	ug/L	4.0	0.40	<4.0	<0.40
1-Methylnaphthalene	ug/L	4.0	0.40	<4.0	<0.40
2,3,4,5-Tetrachlorophenol	ug/L	10	0.50	<10	<0.50
2,3,4,6-Tetrachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,4-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,5,6-Tetrachlorophenol	ug/L	10	0.50	<10	<0.50
2,3,5-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,4,5-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,4,6-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,4-Dichlorophenol	ug/L	3.0	0.30	<3.0	<0.30
2,4-Dimethylphenol	ug/L	5.0	0.50	<5.0	<0.50
2,4-Dinitrophenol	ug/L	100	1.0	<100	<1.0
2,4-Dinitrotoluene	ug/L	4.0	0.40	<4.0	<0.40
2,6-Dichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,6-Dinitrotoluene	ug/L	4.0	0.40	<4.0	<0.40
2-Chloronaphthalene	ug/L	4.0	0.40	<4.0	<0.40
2-Chlorophenol	ug/L	3.0	0.30	<3.0	<0.30
2-Methylnaphthalene	ug/L	4.0	0.40	<4.0	<0.40
2-Methylphenol	ug/L	5.0	0.50	<5.0	<0.50
2-Nitrophenol	ug/L	5.0	0.50	<5.0	<0.50
3&4-Methylphenol	ug/L	50	0.50	198	<0.50
3,3'-Dichlorobenzidine	ug/L	4.0	0.40	<4.0	<0.40
4,6-Dinitro-2-methylphenol	ug/L	200	2.0	<200	<2.0
4-Bromophenyl phenyl ether	ug/L	4.0	0.40	<4.0	<0.40
4-Chloro-3-methylphenol	ug/L	5.0	0.50	<5.0	<0.50
4-Chloroaniline	ug/L	4.0	0.40	<4.0	<0.40

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				Grab	Grab
4-Chlorophenyl phenyl ether	ug/L	4.0	0.40	<4.0	<0.40
4-Nitrophenol	ug/L	5.0	0.50	<5.0	<0.50
5-Nitroacenaphthene	ug/L	4.0	0.40	<4.0	<0.40
Acenaphthene	ug/L	2.0	0.20	<2.0	<0.20
Acenaphthylene	ug/L	2.0	0.20	<2.0	<0.20
Anthracene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(a)anthracene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(a)pyrene	ug/L	0.50	0.050	<0.50	<0.050
Benzo(b)fluoranthene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(ghi)perylene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(k)fluoranthene	ug/L	2.0	0.20	<2.0	<0.20
Biphenyl	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-chloroethoxy)methane	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-chloroethyl)ether	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-chloroisopropyl)ether	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-ethylhexyl)phthalate	ug/L	20	2.0	<20	<2.0
Butylbenzyl phthalate	ug/L	4.0	0.40	<4.0	<0.40
Camphene	ug/L	4.0	0.40	<4.0	<0.40
Chrysene	ug/L	2.0	0.20	<2.0	<0.20
Dibenzo(a,h)anthracene	ug/L	2.0	0.20	<2.0	<0.20
Dibenzofuran	ug/L	2.0	0.20	<2.0	<0.20
Diethylphthalate	ug/L	2.0	0.20	3.0	<0.20
Dimethylphthalate	ug/L	2.0	0.20	<2.0	<0.20
Di-n-butylphthalate	ug/L	20	2.0	<20	<2.0
Di-n-octylphthalate	ug/L	4.0	0.40	<4.0	<0.40
Diphenyl ether	ug/L	4.0	0.40	<4.0	<0.40
Diphenylamine	ug/L	4.0	0.40	<4.0	<0.40
Fluoranthene	ug/L	2.0	0.20	<2.0	<0.20
Fluorene	ug/L	2.0	0.20	<2.0	<0.20
Hexachlorobenzene	ug/L	0.40	0.040	<0.40	<0.040
Hexachlorobutadiene	ug/L	2.0	0.20	<2.0	<0.20
Hexachlorocyclopentadiene	ug/L	4.0	0.40	<4.0	<0.40
Hexachloroethane	ug/L	4.0	0.40	<4.0	<0.40
Indeno(1,2,3-cd)pyrene	ug/L	2.0	0.20	<2.0	<0.20
Indole	ug/L	4.0	0.40	29.5	<0.40
Isophorone	ug/L	4.0	0.40	<4.0	<0.40
Naphthalene	ug/L	2.0	0.20	<2.0	<0.20
Nitrobenzene	ug/L	4.0	0.40	<4.0	<0.40
N-Nitroso-di-n-propylamine	ug/L	4.0	0.40	<4.0	<0.40
Pentachlorophenol	ug/L	10	0.50	<10	<0.50
Perylene	ug/L	2.0	0.20	<2.0	<0.20
Phenanthrene	ug/L	2.0	0.20	<2.0	<0.20
Phenol	ug/L	5.0	0.50	46.6	<0.50
Pyrene	ug/L	2.0	0.20	<2.0	<0.20
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	NR*	93.6
Surrogate: 2,4,6-Tribromophenol	%	40-150	40-150	132.5	139.1
Surrogate: Nitrobenzene d5	%	50-130	50-130	135.2	124.4
Surrogate: p-Terphenyl d14	%	50-150	50-150	60.3	104.8
Surrogate: Phenol d5	%	30-130	30-130	62.6	64.1

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Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Low Level Nonylphenols and Ethoxylates					
Bisphenol A	ug/L	0.20	0.20	<0.20	<0.20
Nonylphenols	ug/L	1.0	1.0	<1.0	<1.0
Nonylphenol Monoethoxylates	ug/L	2.0	2.0	23.0	<2.0
Nonylphenol Diethoxylates	ug/L	0.10	0.10	1.22	0.57
Total Nonylphenol Ethoxylates	ug/L	2.0	2.0	24.2	<2.0
Octylphenol	ug/L	1.0	1.0	<1.0	<1.0
Octylphenol Monoethoxylate	ug/L	2.0	2.0	<2.0	<2.0
Octylphenol Diethoxylate	ug/L	0.10	0.10	0.12	<0.10
Total Octylphenol Ethoxylate	ug/L	2.0	2.0	<2.0	<2.0
Octachlorostyrene					
Octachlorostyrene	ug/L	0.50	0.050	<0.50	<0.050
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	105.2	94.1
Surrogate: p-Terphenyl d14	%	50-150	50-150	53.6	94.4
PCB					
Aroclor 1016	mg/L	0.00010	0.000050	<0.00010	<0.000050
Aroclor 1221	mg/L	0.00010	0.000050	<0.00010	<0.000050
Aroclor 1232	mg/L	0.00010	0.000050	<0.00010	<0.000050
Aroclor 1242	mg/L	0.00010	0.000050	<0.00010	<0.000050
Aroclor 1248	mg/L	0.00010	0.000050	<0.00010	<0.000050
Aroclor 1254	mg/L	0.00010	0.000050	<0.00010	<0.000050
Aroclor 1260	mg/L	0.00010	0.000050	<0.00010	<0.000050
Aroclor 1262	mg/L	0.00010	0.000050	<0.00010	<0.000050
Aroclor 1268	mg/L	0.00010	0.000050	<0.00010	<0.000050
Total PCBs	mg/L	0.00030	0.00015	<0.00030	<0.00015
Surrogate: Decachlorobiphenyl	%	50-150	50-150	78.0	96.0
Pesticides, Organochlorine					
a-chlordane	ug/L	10	1.0	<10	<1.0
Aldrin	ug/L	10	1.0	<10	<1.0
alpha-BHC	ug/L	10	1.0	<10	<1.0
alpha-Endosulfan	ug/L	10	1.0	<10	<1.0
beta-BHC	ug/L	10	1.0	<10	<1.0
beta-Endosulfan	ug/L	10	1.0	<10	<1.0
delta-BHC	ug/L	10	1.0	<10	<1.0
Dieldrin	ug/L	10	1.0	<10	<1.0
Endosulfan Sulfate	ug/L	10	1.0	<10	<1.0
Endrin	ug/L	10	1.0	<10	<1.0
Endrin Aldehyde	ug/L	10	1.0	<10	<1.0
g-chlordane	ug/L	10	1.0	<10	<1.0
Heptachlor	ug/L	10	1.0	<10	<1.0
Heptachlor Epoxide	ug/L	10	1.0	<10	<1.0
Hexachlorobenzene	ug/L	10	1.0	<10	<1.0
Lindane	ug/L	10	1.0	<10	<1.0
Methoxychlor	ug/L	10	1.0	<10	<1.0
Mirex	ug/L	10	1.0	<10	<1.0
o,p-DDE	ug/L	10	1.0	<10	<1.0
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

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pp-DDE	ug/L	10	1.0	<10	<1.0
pp-DDT	ug/L	10	1.0	<10	<1.0
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	NA	75.1
Surrogate: d14-Terphenyl	%	50-150	50-150	NA	106.9
Phenoxyacid Herbicides by GC/MS					
2,4,5-T	ug/L	5.0	0.50	<5.0	<0.50
2,4,5-TP	ug/L	5.0	0.50	<5.0	<0.50
2,4-D	ug/L	5.0	0.50	<5.0	<0.50
2,4-DP	ug/L	5.0	0.50	<5.0	<0.50
Bromoxynil	ug/L	5.0	0.50	<5.0	<0.50
Dicamba	ug/L	5.0	0.50	<5.0	<0.50
Dinoseb	ug/L	5.0	0.50	<5.0	<0.50
MCPA	ug/L	5.0	0.50	<5.0	<0.50
Mecoprop	ug/L	5.0	0.50	<5.0	<0.50
Picloram	ug/L	5.0	0.50	<5.0	<0.50
Surrogate: 2,4-Dichlorophenylacetic Acid	%	50-130	50-130	108.6	125.3
Volatile Organics plus F1					
1,1,1,2-Tetrachloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,1-Trichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,2,2-Tetrachloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,2-Trichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1-Dichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1-Dichloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dibromo-3-chloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dibromoethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,3-Trichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,3-Trichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,4-Trichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,4-Trimethylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3,5-Trimethylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,4-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
2-Chlorotoluene	mg/L	0.020	0.020	<0.020	<0.020
2-Hexanone	mg/L	0.020	0.020	<0.020	<0.020
2,2-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
4-Chlorotoluene	mg/L	0.00050	0.00050	<0.00050	<0.00050
4-Isopropyltoluene	mg/L	0.00050	0.00050	0.00054	<0.00050
Acetone	mg/L	0.25	0.020	<0.25	<0.020
Benzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromochloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromodichloromethane	mg/L	0.00050	0.00050	0.00096	<0.00050
Bromoform	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromomethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
Carbon Disulfide	mg/L	0.0010	0.00050	<0.0010	<0.00050
Carbon tetrachloride	mg/L	0.00050	0.00050	<0.00050	<0.00050

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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	0.00589	<0.00050
Chloromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
cis-1,2-Dichloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
cis-1,3-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dibromochloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dibromomethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dichlorodifluoromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
Dichloromethane	mg/L	0.00050	0.0015	0.00223	<0.0015
Ethyl Benzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
F1	mg/L	0.10	0.10	<0.10	<0.10
Hexachlorobutadiene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Hexane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Isopropylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
m+p-Xylenes	mg/L	0.00050	0.00050	<0.00050	<0.00050
Methyl Ethyl Ketone	mg/L	0.030	0.020	<0.030	<0.020
Methyl Isobutyl Ketone	mg/L	0.020	0.020	<0.020	<0.020
MTBE	mg/L	0.00050	0.00050	<0.00050	<0.00050
n-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Naphthalene	mg/L	0.00050	0.00050	<0.00050	<0.00050
o-Xylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
sec-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Styrene	mg/L	0.00050	0.00050	<0.00050	<0.00050
tert-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Tetrachloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Toluene	mg/L	0.00050	0.00050	0.00295	<0.00050
trans-1,2-Dichloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
trans-1,3-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Trichloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Trichlorofluoromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
Trihalomethanes (total)	mg/L	0.0010	0.0010	0.0068	0.0010
Vinyl chloride	mg/L	0.00050	0.00050	<0.00050	<0.00050
Xylenes (Total)	mg/L	0.00070	0.00070	<0.00070	<0.00070
Surrogate: 1,4-Difluorobenzene	%	70-130	70-130	99.8	99.6
Surrogate: 4-Bromofluorobenzene	%	70-130	70-130	106.6	91.5

NOTES:

MDL- Method detection limit

mg/L- milligrams/Litre

ug/L- micrograms/Litre

ng/L- nanograms/Litre

pg/L- picograms/Litre

<- less than

NA- not analyzed

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

All parameters were analyzed by contract laboratory.

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2'nd Quarter Sampling Parameter	May 14, 2013		WEWPCC		
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Miscellaneous					
Ammonia, Total (as N)	mg/L		0.010	NA	0.043
Ammonia, Un-ionized (as N)	mg/L		0.010	NA	0.010
Chlorine, Total	mg/L		0.10	NA	<0.10
Chromium, Hexavalent	mg/L	1.0	1.0	<1.0	<1.0
Phenols (4AAP)	mg/L	0.0010	0.0010	0.0380	0.0017
Tetraethyl Lead	ug/L	0.0070	0.00700	<0.0070	<0.0070
Toxaphene	ug/L	1.5	1.5	<1.5	<1.5
Tri-n-butyltin Cation	ug/L	0.050	0.050	<0.050	<0.050
Hydrocarbons, Recoverable (I.R.)	mg/L	1.0	1.0	22.6	<1.0
Trout Bioassay	Pass/Fail			NA	Pass
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	57.3	54.8
Surrogate: Decachlorobiphenyl	%	50-150	50-150	85.5	94.3
Surrogate: Tetrachloro-m-xylene	%	50-150	50-150	89.7	86.6
Surrogate: Tri-n-propyltin	%	31-137	31-137	108.0	90.0
Total Metals by ICP-MS					
Arsenic (As)-Total	mg/L	0.00020	0.00020	0.00151	0.00075
Cadmium (Cd)-Total	mg/L	0.000010	0.000010	0.000131	0.000052
Chromium (Cr)-Total	mg/L	0.0010	0.0010	0.0013	0.0012
Copper (Cu)-Total	mg/L	0.00020	0.00020	0.068200	0.00891
Lead (Pb)-Total	mg/L	0.000090	0.000090	0.001640	0.000906
Mercury (Hg)-Total	ng/L	0.000020	0.000020	0.000024	0.000055
Molybdenum (Mo)-Total	mg/L	0.00020	0.00020	0.01740	0.00629
Nickel (Ni)-Total	mg/L	0.0020	0.0020	0.0054	0.0026
Selenium (Se)-Total	mg/L	0.0010	0.0010	0.0013	<0.0010
Zinc (Zn)-Total	mg/L	0.0050	0.0050	0.1040	0.0158
Dioxins and Furans					
2378 TCDD	pg/L	0.079	0.82	<0.079	<0.82
12378 PeCDD	pg/L	0.059	0.36	<0.059	<0.36
123478 HxCDD	pg/L	0.086	0.094	0.350	<0.094
123678 HxCDD	pg/L	0.10	0.11	0.54	<0.11
123789 HxCDD	pg/L	0.094	0.10	<0.094	<0.10
1234678 HpCDD	pg/L	0.15	0.53	3.60	9.00
OCDD	pg/L	0.58	0.94	25.0	74.1
Total TCDD	pg/L	0.079	0.82	<0.079	<0.82
Total PeCDD	pg/L	0.059	0.36	<0.059	<0.36
Total HxCDD	pg/L	0.10	0.11	<0.10	<0.11
Total HpCDD	pg/L	0.15	0.53	3.34	<0.53
2378 TCDF	pg/L	0.092	0.21	<0.092	0.34
12378 PeCDF	pg/L	0.14	0.24	<0.14	0.62
23478 PeCDF	pg/L	0.13	0.22	<0.13	<0.22
123478 HxCDF	pg/L	0.15	0.098	0.36	0.399
123678 HxCDF	pg/L	0.15	0.095	0.96	0.304
123789 HxCDF	pg/L	0.17	0.11	0.81	0.22
234678 HxCDF	pg/L	0.16	0.098	0.64	0.200
1234678 HpCDF	pg/L	0.091	0.15	1.10	1.90
1234789 HpCDF	pg/L	0.11	0.18	0.57	0.28
OCDF	pg/L	0.12	0.41	1.90	12.0
Total TCDF	pg/L	0.092	0.21	<0.092	0.91
Total PeCDF	pg/L	0.14	0.24	<0.14	<0.24
Total HxCDF	pg/L	0.17	0.11	1.61	0.92

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	Units	MDL-Raw	MDL-Final	Raw Sewage	Final Effluent
				Grab	Grab
Total HpCDF	pg/L	0.11	0.18	<0.11	0.45
Lower Bound PCDD/F TEQ (WHO 2005)	pg/L			0.0958	0.155
Mid Point PCDD/F TEQ (WHO 2005)	pg/L			0.526	0.941
Upper Bound PCDD/F TEQ (WHO 2005)	pg/L			0.626	1.58
Surrogate: 13C12 2378 TCDD	%	20-175	20-175	63.0	71.0
Surrogate: 13C12 12378 PeCDD	%	21-227	21-227	82.0	86.0
Surrogate: 13C12 123478 HxCDD	%	21-193	21-193	63.0	71.0
Surrogate: 13C12 123678 HxCDD	%	25-163	25-163	53.0	64.0
Surrogate: 13C12 1234678 HpCDD	%	23-166	23-166	48.0	67.0
Surrogate: 13C12 OCDD	%	13-138	13-138	50.0	66.0
Surrogate: 13C12 2378 TCDF	%	22-152	22.152	67.0	69.0
Surrogate: 13C12 12378 PeCDF	%	24-185	24-185	73.0	63.0
Surrogate: 13C12 23478 PeCDF	%	21-178	21-178	73.0	62.0
Surrogate: 13C12 123478 HxCDF	%	26-152	26-152	50.0	53.0
Surrogate: 13C12 123678 HxCDF	%	21-159	21-159	48.0	53.0
Surrogate: 13C12 234678 HxCDF	%	17-205	17-205	47.0	53.0
Surrogate: 13C12 123789 HxCDF	%	28-136	28-136	54.0	58.0
Surrogate: 13C12 1234678 HpCDF	%	21-158	21-158	46.0	59.0
Surrogate: 13C12 1234789 HpCDF	%	20-186	20-186	47.0	65.0
Surrogate: 37C14 2378 TCDD	%	31-191	31-191	67.0	73.0
EPA 8270 Extractables					
1,2,3-Trichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,2,4-Trichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,2-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,3-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,4-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1-Chloronaphthalene	ug/L	4.0	0.40	<4.0	<0.40
1-Methylnaphthalene	ug/L	4.0	0.40	<4.0	<0.40
2,3,4,5-Tetrachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,4,6-Tetrachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,4-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,5,6-Tetrachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,5-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,4,5-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,4,6-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,4-Dichlorophenol	ug/L	3.0	0.30	<3.0	<0.30
2,4-Dimethylphenol	ug/L	5.0	0.50	<5.0	<0.50
2,4-Dinitrophenol	ug/L	10	1.0	<10	<1.0
2,4-Dinitrotoluene	ug/L	4.0	0.40	<4.0	<0.40
2,6-Dichlorophenol	ug/L	3.0	0.30	<3.0	<0.30
2,6-Dinitrotoluene	ug/L	4.0	0.40	<4.0	<0.40
2-Chloronaphthalene	ug/L	4.0	0.40	<4.0	<0.40
2-Chlorophenol	ug/L	3.0	0.30	<3.0	<0.30
2-Methylnaphthalene	ug/L	4.0	0.40	<4.0	<0.40
2-Methylphenol	ug/L	5.0	0.50	<5.0	<0.50
2-Nitrophenol	ug/L	5.0	0.50	<5.0	<0.50
3&4-Methylphenol	ug/L	50.0	0.50	143	<0.50
3,3'-Dichlorobenzidine	ug/L	4.0	0.40	<4.0	<0.40
4,6-Dinitro-2-methylphenol	ug/L	20	2.0	<20	<0.20
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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2'nd Quarter Sampling Parameter	May 14, 2013			WEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage	Final Effluent
				Grab	Grab
4-Chlorophenyl phenyl ether	ug/L	4.0	0.40	<4.0	<0.40
4-Nitrophenol	ug/L	5.0	0.50	<5.0	<0.50
5-Nitroacenaphthene	ug/L	4.0	0.40	<4.0	<0.40
Acenaphthene	ug/L	2.0	0.20	<2.0	<0.20
Acenaphthylene	ug/L	2.0	0.20	<2.0	<0.20
Anthracene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(a)anthracene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(a)pyrene	ug/L	0.50	0.050	<0.50	<0.050
Benzo(b)fluoranthene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(ghi)perylene	ug/L	2.0	0.20	<2.0	<0.20
Benzo(k)fluoranthene	ug/L	2.0	0.20	<2.0	<0.20
Biphenyl	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-chloroethoxy)methane	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-chloroethyl)ether	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-chloroisopropyl)ether	ug/L	4.0	0.40	<4.0	<0.40
Bis(2-ethylhexyl)phthalate	ug/L	20	2.0	<20	<2.0
Butylbenzyl phthalate	ug/L	4.0	0.40	5.0	<0.40
Camphene	ug/L	4.0	0.40	<4.0	<0.40
Chrysene	ug/L	2.0	0.20	<2.0	<0.20
Dibenzo(a,h)anthracene	ug/L	2.0	0.20	<2.0	<0.20
Dibenzofuran	ug/L	2.0	0.20	<2.0	<0.20
Diethylphthalate	ug/L	2.0	0.20	2.3	<0.20
Dimethylphthalate	ug/L	2.0	0.20	<2.0	<0.20
Di-n-butylphthalate	ug/L	20	2.0	<20	<2.0
Di-n-octylphthalate	ug/L	4.0	0.40	<4.0	<0.40
Diphenyl ether	ug/L	4.0	0.40	<4.0	<0.40
Diphenylamine	ug/L	4.0	0.40	<4.0	<0.40
Fluoranthene	ug/L	2.0	0.20	<2.0	<0.20
Fluorene	ug/L	2.0	0.20	<2.0	<0.20
Hexachlorobenzene	ug/L	0.40	0.040	<0.40	<0.040
Hexachlorobutadiene	ug/L	2.0	0.20	<2.0	<0.20
Hexachlorocyclopentadiene	ug/L	4.0	0.40	<4.0	<0.40
Hexachloroethane	ug/L	4.0	0.40	<4.0	<0.40
Indeno(1,2,3-cd)pyrene	ug/L	2.0	0.20	<2.0	<0.20
Indole	ug/L	4.0	0.40	18.6	<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	27.3	<0.50
Pyrene	ug/L	2.0	0.20	<2.0	<0.20
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	90.3	102.4
Surrogate: 2,4,6-Tribromophenol	%	40-150	40-150	180.6	108.6
Surrogate: Nitrobenzene d5	%	50-130	50-130	123.4	110.8
Surrogate: p-Terphenyl d14	%	50-150	50-150	73.8	114.7
Surrogate: Phenol d5	%	30-130	30-130	69.2	67.4

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	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Low Level Nonylphenols and Ethoxylates					
Bisphenol A	ug/L	0.20	0.20	<0.20	<0.20
Nonylphenols	ug/L	1.0	1.0	<1.0	<1.0
Nonylphenol Monoethoxylates	ug/L	2.0	2.0	14.0	<2.0
Nonylphenol Diethoxylates	ug/L	0.10	0.10	1.62	0.75
Total Nonylphenol Ethoxylates	ug/L	2.0	2.0	15.6	<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 Ethoxylate	ug/L	2.0	2.0	<2.0	<2.0
Octachlorostyrene					
Octachlorostyrene	ug/L	0.050	0.50	<0.050	<0.50
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	111.4	71.6
Surrogate: p-Terphenyl d14	%	50-150	50-150	118.8	92.5
PCB					
Aroclor 1016	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1221	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1232	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1242	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1248	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1254	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1260	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1262	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1268	mg/L	0.00010	0.00010	<0.00010	<0.00010
Total PCBs	mg/L	0.00010	0.00010	<0.00010	<0.00010
Surrogate: Decachlorobiphenyl	%	50-150	50-150	66.0	114.0
Pesticides, Organochlorine					
a-chlordane	ug/L	1.0	0.10	<1.0	<0.10
Aldrin	ug/L	1.0	0.10	<1.0	<0.10
alpha-BHC	ug/L	1.0	0.10	<1.0	<0.10
alpha-Endosulfan	ug/L	2.6	0.10	<2.6	<0.10
beta-BHC	ug/L	1.0	0.10	<1.0	<0.10
beta-Endosulfan	ug/L	1.0	0.10	<1.0	<0.10
delta-BHC	ug/L	1.0	0.10	<1.0	<0.10
Dieldrin	ug/L	1.0	0.10	<1.0	<0.10
Endosulfan Sulfate	ug/L	1.0	0.10	<1.0	<0.10
Endrin	ug/L	1.0	0.10	<1.0	<0.10
Endrin Aldehyde	ug/L	1.0	0.10	<1.0	<0.10
g-chlordane	ug/L	1.0	0.10	<1.0	<0.10
Heptachlor	ug/L	1.0	0.10	<1.0	<0.10
Heptachlor Epoxide	ug/L	1.0	0.10	<1.0	<0.10
Hexachlorobenzene	ug/L	1.0	0.10	<1.0	<0.10
Lindane	ug/L	1.0	0.10	<1.0	<0.10
Methoxychlor	ug/L	1.0	0.10	<1.0	<0.10
Mirex	ug/L	1.0	0.10	<1.0	<0.10
o,p-DDE	ug/L	1.0	0.10	<1.0	<0.10
op-DDD	ug/L	1.0	0.10	<1.0	<0.10
op-DDT	ug/L	1.0	0.10	<1.0	<0.10
Oxychlordane	ug/L	1.0	0.10	<1.0	<0.10
pp-DDD	ug/L	1.0	0.10	<1.0	<0.10

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	Units	MDL-Raw	MDL-Final	Raw Sewage	Final Effluent
				Grab	Grab
pp-DDE	ug/L	1.0	0.10	<1.0	<0.10
pp-DDT	ug/L	1.0	0.10	<1.0	<0.10
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	70.9	77.5
Surrogate: d14-Terphenyl	%	50-150	50-150	79.3	85.1
Phenoxyacid Herbicides by GC/MS					
2,4,5-T	ug/L	5.0	0.50	<5.0	<0.50
2,4,5-TP	ug/L	5.0	0.50	<5.0	<0.50
2,4-D	ug/L	5.0	0.50	<5.0	<0.50
2,4-DP	ug/L	5.0	0.50	<5.0	<0.50
Bromoxynil	ug/L	5.0	0.50	<5.0	<0.50
Dicamba	ug/L	5.0	0.50	<5.0	<0.50
Dinoseb	ug/L	5.0	0.50	<5.0	<0.50
MCPA	ug/L	5.0	0.50	<5.0	<0.50
Mecoprop	ug/L	5.0	0.50	<5.0	<0.50
Picloram	ug/L	5.0	0.50	<5.0	<0.50
Surrogate: 2,4-Dichlorophenylacetic Acid	%	50-130	50-130	70.7	86.8
Volatile Organics plus F1					
1,1,1,2-Tetrachloroethane	mg/L			NS	NS
1,1,1-Trichloroethane	mg/L			NS	NS
1,1,2,2-Tetrachloroethane	mg/L			NS	NS
1,1,2-Trichloroethane	mg/L			NS	NS
1,1-Dichloroethane	mg/L			NS	NS
1,1-Dichloroethylene	mg/L			NS	NS
1,1-Dichloropropene	mg/L			NS	NS
1,2-Dibromo-3-chloropropane	mg/L			NS	NS
1,2-Dibromoethane	mg/L			NS	NS
1,2-Dichlorobenzene	mg/L			NS	NS
1,2-Dichloroethane	mg/L			NS	NS
1,2-Dichloropropane	mg/L			NS	NS
1,2,3-Trichlorobenzene	mg/L			NS	NS
1,2,3-Trichloropropane	mg/L			NS	NS
1,2,4-Trichlorobenzene	mg/L			NS	NS
1,2,4-Trimethylbenzene	mg/L			NS	NS
1,3-Dichlorobenzene	mg/L			NS	NS
1,3-Dichloropropane	mg/L			NS	NS
1,3,5-Trimethylbenzene	mg/L			NS	NS
1,4-Dichlorobenzene	mg/L			NS	NS
2-Chlorotoluene	mg/L			NS	NS
2-Hexanone	mg/L			NS	NS
2,2-Dichloropropane	mg/L			NS	NS
4-Chlorotoluene	mg/L			NS	NS
4-Isopropyltoluene	mg/L			NS	NS
Acetone	mg/L			NS	NS
Benzene	mg/L			NS	NS
Bromobenzene	mg/L			NS	NS
Bromochloromethane	mg/L			NS	NS
Bromodichloromethane	mg/L			NS	NS
Bromoform	mg/L			NS	NS
Bromomethane	mg/L			NS	NS
Carbon Disulfide	mg/L			NS	NS
Carbon tetrachloride	mg/L			NS	NS

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

NOTES:

MDL- Method detection limit

mg/L- milligrams/Litre

ug/L- micrograms/Litre

ng/L- nanograms/Litre

pg/L- picograms/Litre

< - less than

NA- not analyzed

NS- No sample due to technician error

All parameters were analyzed by contract laboratory.

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3'rd Quarter Sampling Parameter	August 13, 2013			WEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Miscellaneous					
Ammonia, Total (as N)	mg/L		0.010	NA	0.036
Ammonia, Un-ionized (as N)	mg/L		0.010	NA	0.014
Chlorine, Total	mg/L		0.10	NA	<0.10
Chromium, Hexavalent	mg/L	1.0	1.0	<1.0	<1.0
Phenols (4AAP)	mg/L	0.0010	0.0010	0.0440	<0.0010
Tetraethyl Lead	ug/L	0.070	0.00700	<0.070	<0.0070
Toxaphene	ug/L	1.5	1.5	<1.5	<1.5
Tri-n-butyltin Cation	ug/L	0.0550	0.053	<0.055	<0.053
Hydrocarbons, Recoverable (I.R.)	mg/L	1.0	1.0	16.7	<1.0
Trout Bioassay	Pass/Fail			NA	Pass
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	100.0	85.0
Surrogate: Decachlorobiphenyl	%	50-150	50-150	83.9	100.7
Surrogate: Tetrachloro-m-xylene	%	50-150	50-150	88.2	88.6
Surrogate: Tri-n-propyltin	%	31-137	31-137	120.0	116.0
Total Metals by ICP-MS					
Arsenic (As)-Total	mg/L	0.00020	0.00020	0.00128	0.00183
Cadmium (Cd)-Total	mg/L	0.000010	0.000010	0.000084	0.000032
Chromium (Cr)-Total	mg/L	0.0010	0.0010	0.0013	<0.0010
Copper (Cu)-Total	mg/L	0.00020	0.00020	0.06610	0.00238
Lead (Pb)-Total	mg/L	0.000090	0.000090	0.001260	0.000248
Mercury (Hg)-Total	ng/L	1.0	1.0	55.7	6.6
Molybdenum (Mo)-Total	mg/L	0.00020	0.00020	0.00382	0.00749
Nickel (Ni)-Total	mg/L	0.0020	0.0020	0.0038	0.0038
Selenium (Se)-Total	mg/L	0.0010	0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	mg/L	0.0050	0.0050	0.1030	0.0139
Dioxins and Furans					
2378 TCDD	pg/L	1.2	1.1	<1.2	<1.1
12378 PeCDD	pg/L	0.58	0.52	<0.58	<0.52
123478 HxCDD	pg/L	0.37	0.35	<0.37	<0.35
123678 HxCDD	pg/L	0.4	0.37	<0.40	<0.37
123789 HxCDD	pg/L	0.37	0.34	<0.37	<0.34
1234678 HpCDD	pg/L	0.57	0.55	3.62	<0.55
OCDD	pg/L	0.72	0.58	53.5	2.35
Total TCDD	pg/L	1.2	1.1	<1.2	<1.1
Total PeCDD	pg/L	0.58	0.52	<0.58	<0.52
Total HxCDD	pg/L	0.40	0.37	1.38	<0.37
Total HpCDD	pg/L	0.57	0.55	8.82	<0.55
2378 TCDF	pg/L	0.99	1.7	<0.99	<1.7
12378 PeCDF	pg/L	0.39	0.51	<0.39	<0.51
23478 PeCDF	pg/L	0.33	0.44	<0.33	<0.44
123478 HxCDF	pg/L	0.49	0.32	<0.49	<0.32
123678 HxCDF	pg/L	0.47	0.30	<0.47	<0.30
123789 HxCDF	pg/L	0.61	0.40	<0.61	<0.40
234678 HxCDF	pg/L	0.48	0.32	<0.48	<0.32
1234678 HpCDF	pg/L	0.28	0.25	0.75	<0.25
1234789 HpCDF	pg/L	0.38	0.34	<0.38	<0.34
OCDF	pg/L	0.69	0.8	1.30	<0.84
Total TCDF	pg/L	0.99	1.7	<0.99	<1.7
Total PeCDF	pg/L	0.39	0.51	<0.39	<0.51
Total HxCDF	pg/L	0.61	0.40	<0.61	<0.40

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3'rd Quarter Sampling Parameter	August 13, 2013			WEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Total HpCDF	pg/L	0.38	0.34	0.75	<0.34
Lower Bound PCDD/F TEQ (WHO 2005)	pg/L			0.0598	0.000705
Mid Point PCDD/F TEQ (WHO 2005)	pg/L			1.22	1.10
Upper Bound PCDD/F TEQ (WHO 2005)	pg/L			2.37	2.19
Surrogate: 13C12 2378 TCDD	%	20-175	20-175	91.0	92.0
Surrogate: 13C12 12378 PeCDD	%	21-227	21-227	111.0	105.0
Surrogate: 13C12 123478 HxCDD	%	21-193	21-193	98.0	97.0
Surrogate: 13C12 123678 HxCDD	%	25-163	25-163	88.0	86.0
Surrogate: 13C12 1234678 HpCDD	%	23-166	23-166	94.0	92.0
Surrogate: 13C12 OCDD	%	13-138	13-138	82.0	79.0
Surrogate: 13C12 2378 TCDF	%	22-152	22-152	86.0	90.0
Surrogate: 13C12 12378 PeCDF	%	24-185	24-185	104.0	99.0
Surrogate: 13C12 23478 PeCDF	%	21-178	21-178	111.0	103.0
Surrogate: 13C12 123478 HxCDF	%	26-152	26-152	76.0	72.0
Surrogate: 13C12 123678 HxCDF	%	21-159	21-159	82.0	84.0
Surrogate: 13C12 234678 HxCDF	%	17-205	17-205	84.0	83.0
Surrogate: 13C12 123789 HxCDF	%	28-136	28-136	83.0	83.0
Surrogate: 13C12 1234678 HpCDF	%	21-158	21-158	84.0	84.0
Surrogate: 13C12 1234789 HpCDF	%	20-186	20-186	88.0	87.0
Surrogate: 37C14 2378 TCDD	%	31-191	31-191	84.0	84.0
EPA 8270 Extractables					
1,2,3-Trichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,2,4-Trichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,2-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,3-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,4-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1-Chloronaphthalene	ug/L	4.0	0.40	<4.0	<0.40
1-Methylnaphthalene	ug/L	4.0	0.40	<4.0	<0.40
2,3,4,5-Tetrachlorophenol	ug/L	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	148	<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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3'rd Quarter Sampling	August 13, 2013			WEWPCC		
	Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage	Final Effluent
					Grab	Grab
4-Chlorophenyl phenyl ether	ug/L	4.0	0.40	<4.0	<0.40	
4-Nitrophenol	ug/L	5.0	0.50	<5.0	<0.50	
5-Nitroacenaphthene	ug/L	4.0	0.40	<4.0	<0.40	
Acenaphthene	ug/L	2.0	0.20	<2.0	<0.20	
Acenaphthylene	ug/L	2.0	0.20	<2.0	<0.20	
Anthracene	ug/L	2.0	0.20	<2.0	<0.20	
Benzo(a)anthracene	ug/L	2.0	0.20	<2.0	<0.20	
Benzo(a)pyrene	ug/L	0.5	0.050	<0.5	<0.050	
Benzo(b)fluoranthene	ug/L	2.0	0.20	<2.0	<0.20	
Benzo(ghi)perylene	ug/L	2.0	0.20	<2.0	<0.20	
Benzo(k)fluoranthene	ug/L	2.0	0.20	<2.0	<0.20	
Biphenyl	ug/L	4.0	0.40	<4.0	<0.40	
Bis(2-chloroethoxy)methane	ug/L	4.0	0.40	<4.0	<0.40	
Bis(2-chloroethyl)ether	ug/L	4.0	0.40	<4.0	<0.40	
Bis(2-chloroisopropyl)ether	ug/L	4.0	0.40	<4.0	<0.40	
Bis(2-ethylhexyl)phthalate	ug/L	20	2.0	<20	<2.0	
Butylbenzyl phthalate	ug/L	4.0	0.40	<4.0	<0.40	
Camphene	ug/L	4.0	0.40	<4.0	<0.40	
Chrysene	ug/L	2.0	0.20	<2.0	<0.20	
Dibenzo(a,h)anthracene	ug/L	2.0	0.20	<2.0	<0.20	
Dibenzofuran	ug/L	2.0	0.20	<2.0	<0.20	
Diethylphthalate	ug/L	2.0	0.20	2.4	<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	0.4	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	14.7	<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	31.3	<0.50	
Pyrene	ug/L	2.0	0.20	<2.0	<0.20	
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	107.6	98.5	
Surrogate: 2,4,6-Tribromophenol	%	40-150	40-150	125.5	107.2	
Surrogate: Nitrobenzene d5	%	50-130	50-130	112.6	108.0	
Surrogate: p-Terphenyl d14	%	50-150	50-150	89.4	109.9	
Surrogate: Phenol d5	%	30-130	30-130	78.8	73.4	

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3'rd Quarter Sampling	August 13, 2013			WEWPCC	
Parameter	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Low Level Nonylphenols and Ethoxylates					
Bisphenol A	ug/L	0.20	0.20	<0.20	<0.20
Nonylphenols	ug/L	1.0	1.0	<1.0	<1.0
Nonylphenol Monoethoxylates	ug/L	2.0	2.0	27.1	<2.0
Nonylphenol Diethoxylates	ug/L	0.10	0.10	2.78	<0.10
Total Nonylphenol Ethoxylates	ug/L	2.0	2.0	29.9	<2.0
Octylphenol	ug/L	1.0	1.0	<1.0	<1.0
Octylphenol Monoethoxylate	ug/L	2.0	2.0	<2.0	<2.0
Octylphenol Diethoxylate	ug/L	0.10	0.10	0.12	<0.10
Total Octylphenol Ethoxylate	ug/L	2.0	2.0	<2.0	<2.0
Octachlorostyrene					
Octachlorostyrene	ug/L	0.50	0.050	<0.50	<0.050
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	97.7	101.4
Surrogate: p-Terphenyl d14	%	50-150	50-150	123.2	99.4
PCB					
Aroclor 1016	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1221	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1232	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1242	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1248	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1254	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1260	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1262	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1268	mg/L	0.00010	0.00010	<0.00010	<0.00010
Total PCBs	mg/L	0.00030	0.00030	<0.00030	<0.00030
Surrogate: Decachlorobiphenyl	%	50-150	50-150	68.0	103.0
Pesticides, Organochlorine					
a-chlordane	ug/L	1.0	0.10	<1.0	<0.10
Aldrin	ug/L	1.0	0.10	<1.0	<0.10
alpha-BHC	ug/L	1.0	0.10	<1.0	<0.10
alpha-Endosulfan	ug/L	1.0	0.10	<1.0	<0.10
beta-BHC	ug/L	1.0	0.10	<1.0	<0.10
beta-Endosulfan	ug/L	1.0	0.10	<1.0	<0.10
delta-BHC	ug/L	1.0	0.10	<1.0	<0.10
Dieldrin	ug/L	8.73	0.10	<8.73	<0.10
Endosulfan Sulfate	ug/L	6.93	0.10	<6.93	<0.10
Endrin	ug/L	1.0	0.10	<1.0	<0.10
Endrin Aldehyde	ug/L	1.0	0.10	<1.0	<0.10
g-chlordane	ug/L	1.0	0.10	<1.0	<0.10
Heptachlor	ug/L	1.0	0.10	<1.0	<0.10
Heptachlor Epoxide	ug/L	1.0	0.10	<1.0	<0.10
Hexachlorobenzene	ug/L	1.0	0.10	<1.0	<0.10
Lindane	ug/L	1.0	0.10	<1.0	<0.10
Methoxychlor	ug/L	1.0	0.10	<1.0	<0.10
Mirex	ug/L	1.0	0.10	<1.0	<0.10
o,p-DDE	ug/L	1.0	0.10	<1.0	<0.10
op-DDD	ug/L	1.0	0.10	<1.0	<0.10
op-DDT	ug/L	1.0	0.10	<1.0	<0.10
Oxychlordane	ug/L	1.0	0.10	<1.0	<0.10
pp-DDD	ug/L	1.0	0.10	<1.0	<0.10

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3'rd Quarter Sampling Parameter	August 13, 2013			WEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
pp-DDE	ug/L	1.0	0.10	<1.0	<0.10
pp-DDT	ug/L	1.0	0.10	<1.0	<0.10
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	91.7	95.2
Surrogate: d14-Terphenyl	%	50-150	50-150	124.0	112.1
Phenoxyacid Herbicides by GC/MS					
2,4,5-T	ug/L	5.0	0.50	<5.0	<0.50
2,4,5-TP	ug/L	5.0	0.50	<5.0	<0.50
2,4-D	ug/L	5.0	0.50	<5.0	<0.50
2,4-DP	ug/L	5.0	0.50	<5.0	<0.50
Bromoxynil	ug/L	5.0	0.50	<5.0	<0.50
Dicamba	ug/L	5.0	0.50	<5.0	<0.50
Dinoseb	ug/L	5.0	0.50	<5.0	<0.50
MCPA	ug/L	5.0	0.50	<5.0	<0.50
Mecoprop	ug/L	5.0	0.50	<5.0	<0.50
Picloram	ug/L	5.0	0.50	<5.0	<0.50
Surrogate: 2,4-Dichlorophenylacetic Acid	%	50-130	50-130	129.5	126.9
Volatile Organics plus F1					
1,1,1,2-Tetrachloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,1-Trichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,2,2-Tetrachloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,2-Trichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1-Dichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1-Dichloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dibromo-3-chloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dibromoethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,3-Trichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,3-Trichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,4-Trichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,4-Trimethylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3,5-Trimethylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,4-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
2-Chlorotoluene	mg/L	0.020	0.020	<0.020	<0.020
2-Hexanone	mg/L	0.020	0.020	<0.020	<0.020
2,2-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
4-Chlorotoluene	mg/L	0.00050	0.00050	<0.00050	<0.00050
4-Isopropyltoluene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Acetone	mg/L	0.020	0.020	0.053	<0.020
Benzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromochloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromodichloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromoform	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromomethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
Carbon Disulfide	mg/L	0.00050	0.00050	0.00057	<0.00050
Carbon tetrachloride	mg/L	0.00050	0.00050	<0.00050	<0.00050

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3'rd Quarter Sampling Parameter	August 13, 2013			WEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Chlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Chloroethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
Chloroform	mg/L	0.00050	0.00050	0.00291	<0.00050
Chloromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
cis-1,2-Dichloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
cis-1,3-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dibromochloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dibromomethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dichlorodifluoromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
Dichloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Ethyl Benzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
F1	mg/L	0.10	0.10	<0.10	<0.10
Hexachlorobutadiene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Hexane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Isopropylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
m+p-Xylenes	mg/L	0.00050	0.00050	<0.00050	<0.00050
Methyl Ethyl Ketone	mg/L	0.020	0.020	<0.020	<0.020
Methyl Isobutyl Ketone	mg/L	0.020	0.020	<0.020	<0.020
MTBE	mg/L	0.00050	0.00050	<0.00050	<0.00050
n-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Naphthalene	mg/L	0.00050	0.00050	<0.00050	<0.00050
o-Xylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
sec-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Styrene	mg/L	0.00050	0.00050	<0.00050	<0.00050
tert-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Tetrachloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Toluene	mg/L	0.00050	0.0010	0.00194	<0.0010
trans-1,2-Dichloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
trans-1,3-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Trichloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Trichlorofluoromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
Trihalomethanes (total)	mg/L	0.0010	0.0010	0.0029	<0.0010
Vinyl chloride	mg/L	0.00050	0.00050	<0.00050	<0.00050
Xylenes (Total)	mg/L	0.00050	0.00050	<0.00050	<0.00050
Surrogate: 1,4-Difluorobenzene	%	70-130	70-130	102.0	101.8
Surrogate: 4-Bromofluorobenzene	%	70-130	70-130	82.5	84.2

NOTES:

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

All parameters were analyzed by contract laboratory.

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4'th Quarter Sampling Parameter	November 26, 2013			WEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Miscellaneous					
Ammonia, Total (as N)	mg/L		1.0	NA	4.9
Ammonia, Un-ionized (as N)	mg/L		0.010	NA	0.010
Chlorine, Total	mg/L		0.10	NA	<0.10
Chromium, Hexavalent	mg/L	1.0	1.0	<1.0	<1.0
Phenols (4AAP)	mg/L	0.0010	0.0010	0.0664	<0.0010
Tetraethyl Lead	ug/L	0.0070	0.0070	<0.0070	<0.0070
Toxaphene	ug/L	1.5	1.5	<1.5	<1.5
Tri-n-butyltin Cation	ug/L	0.053	0.054	<0.053	<0.054
Hydrocarbons, Recoverable (I.R.)	mg/L	1.0	1.0	4.1	<1.0
Trout Bioassay ¹	Pass/Fail			NA	Pass
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	101.9	41.3
Surrogate: Decachlorobiphenyl	%	50-150	50-150	83.3	115.7
Surrogate: Tetrachloro-m-xylene	%	50-150	50-150	87.1	92.9
Surrogate: Tri-n-propyltin	%	31-137	31-137	128	119
Total Metals by ICP-MS					
Arsenic (As)-Total	mg/L	0.00020	0.00020	0.00090	0.00081
Cadmium (Cd)-Total	mg/L	0.000010	0.000010	0.000127	0.000023
Chromium (Cr)-Total	mg/L	0.0010	0.0010	<0.0010	<0.0010
Copper (Cu)-Total	mg/L	0.00020	0.00020	0.1100	0.00463
Lead (Pb)-Total	mg/L	0.000090	0.000090	0.001830	0.000379
Mercury (Hg)-Total	ng/L	1.0	1.0	57.7	2.4
Molybdenum (Mo)-Total	mg/L	0.00020	0.00020	0.02510	0.00701
Nickel (Ni)-Total	mg/L	0.0020	0.0020	0.0043	0.0054
Selenium (Se)-Total	mg/L	0.0010	0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	mg/L	0.0050	0.0050	0.0938	0.0093
Dioxins and Furans					
2378 TCDD	pg/L	0.74	0.94	<0.74	<0.94
12378 PeCDD	pg/L	0.49	0.66	<0.49	<0.66
123478 HxCDD	pg/L	0.39	0.64	<0.39	<0.64
123678 HxCDD	pg/L	0.35	0.55	<0.35	<0.55
123789 HxCDD	pg/L	0.33	0.52	<0.33	<0.52
1234678 HpCDD	pg/L	0.98	0.80	3.3	<0.80
OCDD	pg/L	0.69	0.53	28.1	3.3
Total TCDD	pg/L	0.74	0.94	<0.74	<0.94
Total PeCDD	pg/L	0.49	0.66	<0.49	<0.66
Total HxCDD	pg/L	0.39	0.64	0.65	<0.64
Total HpCDD	pg/L	0.98	0.80	<0.98	<0.80
2378 TCDF	pg/L	0.72	1.10	<0.72	<1.10
12378 PeCDF	pg/L	0.34	0.56	<0.34	<0.56
23478 PeCDF	pg/L	0.29	0.49	<0.29	<0.49
123478 HxCDF	pg/L	0.46	0.44	<0.46	<0.44
123678 HxCDF	pg/L	0.39	0.36	<0.39	<0.36
123789 HxCDF	pg/L	0.66	0.68	<0.66	<0.68
234678 HxCDF	pg/L	0.52	0.43	<0.52	<0.43
1234678 HpCDF	pg/L	0.31	0.55	0.71	<0.55
1234789 HpCDF	pg/L	0.52	0.97	<0.52	<0.97
OCDF	pg/L	0.67	0.88	1.84	<0.88
Total TCDF	pg/L	0.72	1.10	<0.72	<1.1
Total PeCDF	pg/L	0.34	0.56	<0.34	<0.56
Total HxCDF	pg/L	0.66	0.68	<0.66	<0.68

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4'th Quarter Sampling Parameter	November 26, 2013			WEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Total HpCDF	pg/L	0.52	0.97	<0.52	<0.97
Lower Bound PCDD/F TEQ (WHO 2005)	pg/L			0.00898	0.00099
Mid Point PCDD/F TEQ (WHO 2005)	pg/L			0.906	1.13
Upper Bound PCDD/F TEQ (WHO 2005)	pg/L			1.76	2.26
Surrogate: 13C12 2378 TCDD	%	20-175	20-175	72.0	69.0
Surrogate: 13C12 12378 PeCDD	%	21-227	21-227	101.0	72.0
Surrogate: 13C12 123478 HxCDD	%	21-193	21-193	90.0	65.0
Surrogate: 13C12 123678 HxCDD	%	25-163	25-163	86.0	77.0
Surrogate: 13C12 1234678 HpCDD	%	23-166	23-166	89.0	74.0
Surrogate: 13C12 OCDD	%	13-138	13-138	82.0	82.0
Surrogate: 13C12 2378 TCDF	%	22-152	22-152	66.0	72.0
Surrogate: 13C12 12378 PeCDF	%	24-185	24-185	96.0	73.0
Surrogate: 13C12 23478 PeCDF	%	21-178	21-178	103.0	75.0
Surrogate: 13C12 123478 HxCDF	%	26-152	26-152	90.0	68.0
Surrogate: 13C12 123678 HxCDF	%	21-159	21-159	96.0	80.0
Surrogate: 13C12 234678 HxCDF	%	17-205	17-205	90.0	75.0
Surrogate: 13C12 123789 HxCDF	%	28-136	28-136	97.0	76.0
Surrogate: 13C12 1234678 HpCDF	%	21-158	21-158	91.0	73.0
Surrogate: 13C12 1234789 HpCDF	%	20-186	20-186	90.0	75.0
Surrogate: 37C14 2378 TCDD	%	31-191	31-191	66.0	69.0
EPA 8270 Extractables					
1,2,3-Trichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,2,4-Trichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,2-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,3-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1,4-Dichlorobenzene	ug/L	4.0	0.40	<4.0	<0.40
1-Chloronaphthalene	ug/L	4.0	0.40	<4.0	<0.40
1-Methylnaphthalene	ug/L	4.0	0.40	<4.0	<0.40
2,3,4,5-Tetrachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,4,6-Tetrachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,4-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,5,6-Tetrachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,3,5-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,4,5-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,4,6-Trichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,4-Dichlorophenol	ug/L	3.0	0.30	<3.0	<0.30
2,4-Dimethylphenol	ug/L	5.0	0.50	<5.0	<0.50
2,4-Dinitrophenol	ug/L	10	1.0	<10	<1.0
2,4-Dinitrotoluene	ug/L	4.0	0.40	<4.0	<0.40
2,6-Dichlorophenol	ug/L	5.0	0.50	<5.0	<0.50
2,6-Dinitrotoluene	ug/L	4.0	0.40	<4.0	<0.40
2-Chloronaphthalene	ug/L	4.0	0.40	<4.0	<0.40
2-Chlorophenol	ug/L	3.0	0.30	<3.0	<0.30
2-Methylnaphthalene	ug/L	4.0	0.40	<4.0	<0.40
2-Methylphenol	ug/L	5.0	0.50	<5.0	<0.50
2-Nitrophenol	ug/L	5.0	0.50	<5.0	<0.50
3&4-Methylphenol	ug/L	50	0.50	267	<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 26, 2013			WEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage	Final Effluent
				Grab	Grab
4-Chlorophenyl phenyl ether	ug/L	5.0	0.40	<5.0	<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	4.1	<0.40
Camphene	ug/L	4.0	0.40	<4.0	<0.40
Chrysene	ug/L	2.0	0.20	<2.0	<0.20
Dibenzo(a,h)anthracene	ug/L	2.0	0.20	<2.0	<0.20
Dibenzofuran	ug/L	2.0	0.20	<2.0	<0.20
Diethylphthalate	ug/L	2.0	0.20	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	26.5	<0.40
Isophorone	ug/L	4.0	0.40	<4.0	<0.40
Naphthalene	ug/L	2.0	0.20	<2.0	<0.20
Nitrobenzene	ug/L	4.0	0.40	<4.0	<0.40
N-Nitroso-di-n-propylamine	ug/L	4.0	0.40	<4.0	<0.40
Pentachlorophenol	ug/L	5.0	0.50	<5.0	<0.50
Perylene	ug/L	2.0	0.20	<2.0	<0.20
Phenanthrene	ug/L	2.0	0.20	<2.0	<0.20
Phenol	ug/L	5.0	0.50	40.3	<0.50
Pyrene	ug/L	2.0	0.20	<2.0	<0.20
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	80.9	79.8
Surrogate: 2,4,6-Tribromophenol	%	40-150	40-150	114.4	91.4
Surrogate: Nitrobenzene d5	%	50-130	50-130	105.2	86.8
Surrogate: p-Terphenyl d14	%	50-150	50-150	60.6	101.7
Surrogate: Phenol d5	%	30-130	30-130	83.4	57.5

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4'th Quarter Sampling Parameter	November 26, 2013			WEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Low Level Nonylphenols and Ethoxylates					
Bisphenol A	ug/L	0.20	0.20	0.21	<0.20
Nonylphenols	ug/L	1.0	1.0	<1.0	<1.0
Nonylphenol Monoethoxylates	ug/L	2.0	2.0	8.5	<2.0
Nonylphenol Diethoxylates	ug/L	0.10	0.10	3.05	<0.10
Total Nonylphenol Ethoxylates	ug/L	2.0	2.0	11.5	<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 Ethoxylate	ug/L	2.0	2.0	<2.0	<2.0
Octachlorostyrene					
Octachlorostyrene	ug/L	0.50	0.50	<0.50	<0.50
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	93.5	89.2
Surrogate: p-Terphenyl d14	%	50-150	50-150	84.7	88.1
PCB					
Aroclor 1016	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1221	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1232	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1242	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1248	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1254	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1260	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1262	mg/L	0.00010	0.00010	<0.00010	<0.00010
Aroclor 1268	mg/L	0.00010	0.00010	<0.00010	<0.00010
Total PCBs	mg/L	0.00030	0.00030	<0.00030	<0.00030
Surrogate: Decachlorobiphenyl	%	50-150	50-150	41.0	29.0
Pesticides, Organochlorine					
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	1.8	1.0	<1.8	<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	1.8	1.1	<1.8	<1.1
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
Hexachlorobenzene	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

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West End Water Pollution Control Centre Quarterly Monitoring Report

4'th Quarter Sampling Parameter	November 26, 2013			WEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
pp-DDE	ug/L	1.0	1.0	<1.0	<1.0
pp-DDT	ug/L	1.0	1.0	<1.0	<1.0
Surrogate: 2-Fluorobiphenyl	%	30-130	30-130	105.6	82.9
Surrogate: d14-Terphenyl	%	50-150	50-150	95.2	105.8
Phenoxyacid Herbicides by GC/MS					
2,4,5-T	ug/L	5.0	0.50	<5.0	<0.50
2,4,5-TP	ug/L	5.0	0.50	<5.0	<0.50
2,4-D	ug/L	5.0	0.50	<5.0	<0.50
2,4-DP	ug/L	5.0	0.50	<5.0	<0.50
Bromoxynil	ug/L	5.0	0.50	<5.0	<0.50
Dicamba	ug/L	5.0	0.50	<5.0	<0.50
Dinoseb	ug/L	5.0	0.50	<5.0	<0.50
MCPA	ug/L	5.0	0.50	<5.0	<0.50
Mecoprop	ug/L	5.0	0.50	<5.0	<0.50
Picloram	ug/L	5.0	0.50	<5.0	<0.50
Surrogate: 2,4-Dichlorophenylacetic Acid	%	50-130	50-130	112.3	117
Volatile Organics plus F1					
1,1,1,2-Tetrachloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,1-Trichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,2,2-Tetrachloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1,2-Trichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1-Dichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1-Dichloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,1-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dibromo-3-chloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dibromoethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichloroethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,3-Trichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,3-Trichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,4-Trichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,2,4-Trimethylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,3,5-Trimethylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
1,4-Dichlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
2-Chlorotoluene	mg/L	0.020	0.020	<0.020	<0.020
2-Hexanone	mg/L	0.020	0.020	<0.020	<0.020
2,2-Dichloropropane	mg/L	0.00050	0.00050	<0.00050	<0.00050
4-Chlorotoluene	mg/L	0.00050	0.00050	<0.00050	<0.00050
4-Isopropyltoluene	mg/L	0.00050	0.00050	0.00051	<0.00050
Acetone	mg/L	0.020	0.020	0.032	<0.020
Benzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromochloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromodichloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromoform	mg/L	0.00050	0.00050	<0.00050	<0.00050
Bromomethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
Carbon Disulfide	mg/L	0.0015	0.00050	<0.0015	<0.00050
Carbon tetrachloride	mg/L	0.00050	0.00050	<0.00050	<0.00050

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4'th Quarter Sampling Parameter	November 26, 2013			WEWPCC	
	Units	MDL-Raw	MDL-Final	Raw Sewage Grab	Final Effluent Grab
Chlorobenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Chloroethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
Chloroform	mg/L	0.00050	0.00050	0.00185	<0.00050
Chloromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
cis-1,2-Dichloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
cis-1,3-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dibromochloromethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dibromomethane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Dichlorodifluoromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
Dichloromethane	mg/L	0.0015	0.0015	<0.0015	<0.0015
Ethyl Benzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
F1	mg/L	0.10	0.10	<0.10	<0.10
Hexachlorobutadiene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Hexane	mg/L	0.00050	0.00050	<0.00050	<0.00050
Isopropylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
m+p-Xylenes	mg/L	0.00050	0.00050	<0.00050	<0.00050
Methyl Ethyl Ketone	mg/L	0.020	0.020	<0.020	<0.020
Methyl Isobutyl Ketone	mg/L	0.020	0.020	<0.020	<0.020
MTBE	mg/L	0.00050	0.00050	<0.00050	<0.00050
n-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Naphthalene	mg/L	0.00050	0.00050	<0.00050	<0.00050
o-Xylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
sec-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Styrene	mg/L	0.00050	0.00050	<0.00050	<0.00050
tert-Butylbenzene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Tetrachloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Toluene	mg/L	0.00050	0.00050	0.00337	<0.00050
trans-1,2-Dichloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
trans-1,3-Dichloropropene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Trichloroethylene	mg/L	0.00050	0.00050	<0.00050	<0.00050
Trichlorofluoromethane	mg/L	0.0010	0.0010	<0.0010	<0.0010
Trihalomethanes (total)	mg/L	0.0010	0.0010	0.0	<0.0010
Vinyl chloride	mg/L	0.00050	0.00050	<0.00050	<0.00050
Xylenes (Total)	mg/L	0.00070	0.00070	<0.00070	<0.00070
Surrogate: 1,4-Difluorobenzene	%	70-130	70-130	99.8	99.6
Surrogate: 4-Bromofluorobenzene	%	70-130	70-130	91.7	93.5

NOTES:

MDL- Method detection limit

mg/L- milligrams/Litre

ug/L- micrograms/Litre

ng/L- nanograms/Litre

pg/L- picograms/Litre

<- less than

NA- not analyzed

¹- sampled on November 20th

All parameters were analyzed by contract laboratory.