

The City of Winnipeg
Water and Waste Department
West End Water Pollution Control Center Quarterly Monitoring

Sample Location:			WEWPCC Raw Sewage Grab	WEWPCC Final Effluent (Lagoon) Grab
Date Sampled:			7-Mar-2005	7-Mar-2005
Parameter	MDL	Units		
Miscellaneous				
Mercury (Hg)-Total	0.5	ng/L	49	7.9
Chromium, Hexavalent	0.001	mg/L	<0.001	<0.001
Toxaphene	0.001	mg/L	<0.001	<0.001
Phenols (4AAP)	0.002	mg/L	0.071	0.006
Tetraethyllead (Pb)	0.00004	mg/L	<0.00004	<0.00004
Tributyl Tin	0.00004	mg/L	<0.00004	<0.00004
Total Oil and Grease	1	mg/L	53	<1
Trout Bioassay	Pass/Fail		NA	Fail
Total Metals**				
Arsenic, Total	0.001	mg/L	0.002	0.002
Cadmium, Total	0.001	mg/L	0.002	<0.001
Chromium, Total	0.001	mg/L	0.015	0.006
Copper, Total	0.001	mg/L	0.182	0.025
Molybdenum, Total	NA	mg/L	NA	NA
Nickel, Total	0.001	mg/L	0.028	0.008
Lead, Total	0.001	mg/L	0.010	0.002
Selenium, Total	NA	mg/L	NA	NA
Zinc, Total	0.003	mg/L	0.303	0.068
Volatile Organics				
1,1,1,2-Tetrachloroethane	0.5	µg/L	<0.5	<0.5
1,1,2,2-Tetrachloroethane	0.5	µg/L	<0.5	<0.5
1,1,1-Trichloroethane	0.5	µg/L	<0.5	<0.5
1,1,2-Trichloroethane	0.5	µg/L	<0.5	<0.5
1,2-Dibromoethane	0.5	µg/L	<0.5	<0.5
1,1-Dichloroethane	0.5	µg/L	<0.5	<0.5
1,1-Dichloroethylene	0.5	µg/L	<0.5	<0.5
1,2-Dichlorobenzene	0.5	µg/L	<0.5	<0.5
1,2-Dichloroethane	0.5	µg/L	<0.5	<0.5
1,2-Dichloropropane	0.5	µg/L	<0.5	<0.5
1,3-Dichlorobenzene	0.5	µg/L	<0.5	<0.5
1,4-Dichlorobenzene	0.5	µg/L	1.1	<0.5
2-Chloroethylvinyl Ether	20	µg/L	<20	<20
2-Hexanone	20	µg/L	<20	<20
Acetone	20	µg/L	30	<20
Benzene	0.5	µg/L	<0.5	<0.5
Bromodichloromethane	0.5	µg/L	<0.5	<0.5
Bromoform	0.5	µg/L	<0.5	<0.5
Bromomethane	1	µg/L	<1	<1
Carbon Disulfide	0.5	µg/L	<0.5	<0.5
Carbon tetrachloride	0.5	µg/L	<0.5	<0.5
Chlorobenzene	0.5	µg/L	<0.5	<0.5
Chloroethane	1	µg/L	<1	<1
Chloroform	0.5	µg/L	24.5	9.1
Chloromethane	1	µg/L	<1	<1
cis-1,2-Dichloroethylene	0.5	µg/L	<0.5	<0.5
cis-1,3-Dichloropropene	0.5	µg/L	<0.5	<0.5

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Dibromochloromethane	0.5	µg/L	<0.5	<0.5
Dichlorodifluoromethane	1	µg/L	<1	<1
Dichloromethane	0.5	µg/L	<0.5	<0.5
Ethyl Benzene	0.5	µg/L	<0.5	<0.5
m+p-Xylenes	1	µg/L	<1	<1
Methyl Ethyl Ketone	20	µg/L	<20	<20
Methyl Isobutyl Ketone	20	µg/L	<20	<20
MTBE	0.5	µg/L	<0.5	<0.5
o-Xylene	0.5	µg/L	<0.5	<0.5
Styrene	0.5	µg/L	<0.5	<0.5
Tetrachloroethylene	0.5	µg/L	<0.5	<0.5
Toluene	0.5	µg/L	6.9	<0.5
trans-1,2-Dichloroethylene	0.5	µg/L	<0.5	<0.5
trans-1,3-Dichloropropene	0.5	µg/L	<0.5	<0.5
Trichloroethylene	0.5	µg/L	<0.5	<0.5
Trichlorofluoromethane	1	µg/L	<1	<1
Trihalomethanes (total)	2	µg/L	24.5	9.1
Vinyl chloride	0.5	µg/L	<0.5	<0.5
Xylenes (Total)	1.5	µg/L	<1.5	<1.5
Target Compounds by GC/MS				
Octachlorostyrene	0.0005	mg/L	<0.0005	<0.0005
4,4-Methylenebis(2-chloroaniline)	0.0005	mg/L	<0.0005	<0.0005
Dinitropyrene	0.02	mg/L	<0.02	<0.02
Phenoxyacid Herbicides by GC/MS				
2,4,5-TP	5	µg/L	<5	<5
MCPA	5	µg/L	<5	<5
2,4,5-T	5	µg/L	<5	<5
2,4-D	5	µg/L	<5	<5
Bromoxynil	5	µg/L	<5	<5
Dicamba	5	µg/L	<5	<5
Picloram	5	µg/L	<5	<5
Pesticides, Organochlorine				
op-DDT	1	µg/L	<1	<1
pp-DDD	1	µg/L	<1	<1
pp-DDE	1	µg/L	<1	<1
pp-DDT	1	µg/L	<1	<1
Heptachlor	1	µg/L	<1	<1
Heptachlor Epoxide	1	µg/L	<1	<1
a-chlordane	1	µg/L	<1	<1
g-chlordane	1	µg/L	<1	<1
Aldrin	0.2	µg/L	<0.2	<0.2
Dieldrin	0.2	µg/L	<0.2	<0.2
Lindane	1	µg/L	<1	<1
Methoxychlor	1	µg/L	<1	<1
alpha-BHC	1	µg/L	<1	<1
beta-BHC	1	µg/L	<1	<1
delta-BHC	1	µg/L	<1	<1
Oxychlordane	1	µg/L	<1	<1
Endrin	1	µg/L	<1	<1
beta-Endosulfan	1	µg/L	<1	<1
alpha-Endosulfan	1	µg/L	<1	<1
o,p-DDE	1	µg/L	<1	<1
Endrin Aldehyde	1	µg/L	<1	<1
Endosulfan Sulfate	1	µg/L	<1	<1

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Mirex	1	µg/L	<1	<1
op-DDD	1	µg/L	<1	<1
PCB				
Aroclor 1016	0.0001	mg/L	<0.0001	<0.0001
Aroclor 1221	0.0001	mg/L	<0.0001	<0.0001
Aroclor 1232	0.0001	mg/L	<0.0001	<0.0001
Aroclor 1242	0.0001	mg/L	<0.0001	<0.0001
Aroclor 1248	0.0001	mg/L	<0.0001	<0.0001
Aroclor 1254	0.0001	mg/L	<0.0001	<0.0001
Aroclor 1260	0.0001	mg/L	<0.0001	<0.0001
Aroclor 1262	0.0001	mg/L	<0.0001	<0.0001
Aroclor 1268	0.0001	mg/L	<0.0001	<0.0001
Total PCBs	0.0001	mg/L	<0.0001	<0.0001
Dioxins and Furans				
2378 TeCDD	0.1	pg/L	<0.10	<0.10
12378 PeCDD	0.2	pg/L	0.84	1.8
123478 HxCDD	0.1	pg/L	1.0	0.89
123678 HxCDD	0.1	pg/L	0.89	1.0
123789 HxCDD	0.1	pg/L	0.7	1.1
1234678 HpCDD	0.3	pg/L	9.8	2.2
OCDD	0.5	pg/L	83	7.6
Total TCDD	0.1	pg/L	<0.10	<0.10
Total PeCDD	0.1/0.2*	pg/L	<0.10	1.2
Total HxCDD	0.1	pg/L	4.4	2.3
Total HpCDD	0.1	pg/L	9.8	1.8
Total PCDDs	0.1	pg/L	14	5.3
2378 TeCDF	0.1	pg/L	<0.10	<0.10
12378 PeCDF	0.2/0.1*	pg/L	1.0	1.5
23478 PeCDF	0.1	pg/L	1.1	1.1
123478 HxCDF	0.1	pg/L	1.7	1.6
123678 HxCDF	0.1	pg/L	1.0	1.1
123789 HxCDF	0.1	pg/L	0.91	1.2
234678 HxCDF	0.1	pg/L	0.78	1.1
1234678 HpCDF	0.1	pg/L	<0.10	1.9
1234789 HpCDF	0.2	pg/L	0.95	0.68
OCDF	0.3	pg/L	13	2.9
Total TCDF	0.1	pg/L	0.77	<0.10
Total PeCDF	0.1	pg/L	1.1	2.7
Total HxCDF	0.1	pg/L	3.8	2.3
Total HpCDF	0.1	pg/L	<0.10	<0.10
Total PCDFs	0.1	pg/L	5.7	5
Total TEQ (ND=0)	0.1	pg/L	1.9	2.4
Total TEQ (ND=0.5DL)	0.1	pg/L	2	2.4
Total TEQ (ND=DL)	0.1	pg/L	2	2.5
EPA 8270 Extractables				
1,2,4-Trichlorobenzene	0.4	µg/L	<0.4	<0.4
1,2-Dichlorobenzene	0.4	µg/L	<0.4	<0.4
1,3-Dichlorobenzene	0.4	µg/L	0.8	<0.4
1,4-Dichlorobenzene	0.4	µg/L	<0.4	<0.4
1-Chloronaphthalene	0.4	µg/L	<0.4	<0.4
1-Methylnaphthalene	0.4	µg/L	<0.4	<0.4
2,3,4,5-Tetrachlorophenol	0.5	µg/L	<0.5	<0.5
2,3,4,6-Tetrachlorophenol	0.5	µg/L	<0.5	<0.5
2,3,4-Trichlorophenol	0.5	µg/L	<0.5	<0.5

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2,3,5,6-Tetrachlorophenol	0.5	µg/L	<0.5	<0.5
2,3,5-Trichlorophenol	0.5	µg/L	<0.5	<0.5
2,4,5-Trichlorophenol	0.5	µg/L	<0.5	<0.5
2,4,6-Trichlorophenol	0.5	µg/L	<0.5	<0.5
2,4-Dichlorophenol	0.5	µg/L	<0.5	<0.5
2,4-Dimethylphenol	0.5	µg/L	<0.5	<0.5
2,4-Dinitrophenol	0.5	µg/L	<0.5	<0.5
2,4-Dinitrotoluene	0.4	µg/L	<0.4	<0.4
2,6-Dichlorophenol	0.5	µg/L	<0.5	<0.5
2,6-Dinitrotoluene	0.4	µg/L	<0.4	<0.4
2-Chloronaphthalene	0.4	µg/L	<0.4	<0.4
2-Chlorophenol	0.5	µg/L	<0.5	<0.5
2-Methylnaphthalene	0.4	µg/L	<0.4	<0.4
2-Methylphenol	0.5	µg/L	0.9	<0.5
2-Nitrophenol	0.5	µg/L	<0.5	<0.5
3,3'-Dichlorobenzidine	4	µg/L	<4	<0.4
3&4-Methylphenol	0.5	µg/L	123	0.5
EPA 8270 Extractables				
4,6-Dinitro-2-methylphenol	2	µg/L	<2	<2
4-Bromophenyl phenyl ether	0.4	µg/L	<0.4	<0.4
4-Chloro-3-methylphenol	0.5	µg/L	<0.5	<0.5
4-Chlorophenyl phenyl ether	0.4	µg/L	<0.4	<0.4
4-Nitrophenol	0.5	µg/L	<0.5	<0.5
5-Nitroacenaphthene	4/0.4*	µg/L	<4	<0.4
Acenaphthene	0.2	µg/L	<0.2	<0.2
Acenaphylene	0.2	µg/L	<0.2	<0.2
Anthracene	0.2	µg/L	<0.2	<0.2
Benzo(a)anthracene	2/0.2*	µg/L	<2	<0.2
Benzo(a)pyrene	0.1/0.01*	µg/L	<0.1	<0.01
Benzo(b)fluoranthene	2/0.2*	µg/L	<2	<0.2
Benzo(ghi)perylene	2/0.2*	µg/L	<2	<0.2
Benzo(k)fluoranthene	2/0.2*	µg/L	<2	<0.2
Biphenyl	0.4	µg/L	<0.4	<0.4
Bis(2-chloroethoxy)methane	0.4	µg/L	<0.4	<0.4
Bis(2-chloroethyl)ether	0.4	µg/L	<0.4	<0.4
Bis(2-chloroisopropyl)ether	0.4	µg/L	<0.4	<0.4
Bis(2-ethylhexyl)phthalate	0.4	µg/L	0.6	<0.4
Butylbenzyl phthalate	0.4	µg/L	<0.4	<0.4
Camphene	0.4	µg/L	<0.4	<0.4
Chrysene	2/0.2*	µg/L	<2	<0.2
Dibenzo(a,h)anthracene	2/0.2*	µg/L	<2	<0.2
Diethylphthalate	0.4	µg/L	<0.4	<0.4
Dimethylphthalate	0.4	µg/L	<0.4	<0.4
Di-n-butylphthalate	0.4	µg/L	0.6	0.4
Di-n-octylphthalate	0.4	µg/L	<0.4	<0.4
Diphenylamine	0.4	µg/L	<0.4	<0.4
Fluoranthene	2/0.2*	µg/L	<2	<0.2
Fluorene	0.2	µg/L	<0.2	<0.2
Hexachlorobenzene	0.4	µg/L	<0.4	<0.4
Hexachlorobutadiene	0.4	µg/L	<0.4	<0.4
Hexachlorocyclopentadiene	0.4	µg/L	<0.4	<0.4
Hexachloroethane	0.4	µg/L	<0.4	<0.4
Indeno(1,2,3-cd)pyrene	2/0.2*	µg/L	<2	<0.2
Indole	0.4	µg/L	10.4	<0.4
Isophorone	0.4	µg/L	<0.4	<0.4
Naphthalene	0.2	µg/L	<0.2	<0.2

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Nitrobenzene	0.4	µg/L	<0.4	<0.4
N-Nitrosodi-n-propylamine	0.4	µg/L	<0.4	<0.4
Pentachlorophenol	0.5	µg/L	<0.5	<0.5
Perylene	2/0.2*	µg/L	<2	<0.2
Phenanthrene	0.2	µg/L	<0.2	<0.2
Phenol	0.5	µg/L	14.7	<0.5
Diphenyl ether	0.4	µg/L	<0.4	<0.4
Pyrene	2/0.2*	µg/L	<2	<0.2
Cresols (total)	1	µg/L	78	<1
Nonylphenols and Nonylphenol Ethoxylates				
Nonylphenols	0.01	mg/L	0.0207	<0.01
Nonylphenol monoethoxylates	0.05	mg/L	<0.05	<0.05
Nonylphenol diethoxylates	0.12	mg/L	<0.12	<0.12
Nonylphenol triethoxylates	0.2	mg/L	<0.2	<0.2

NOTES:

MDL- Method detection limit

mg/L- milligrams/Litre

µg/L- micrograms/Litre

ng/L- nanograms/Litre

pg/L- picograms/Litre

*- two detection limits, matrix related

<- less than

NA- not analyzed

*** Total Metals were analyzed in-house on biweekly composite samples, and the reported results are quarterly averages.*

All other parameters were analyzed by contract laboratory.

This report was revised February 17, 2010 to include Total Metals data.

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Sample Location:			WEWPCC Raw Sewage Grab	WEWPCC Final Effluent (Lagoon) Grab
Date Sampled:			6-Jun-2005	6-Jun-2005
Parameter	MDL	Units		
Miscellaneous				
Mercury (Hg)-Total	0.5	ng/L	44	42
Chromium, Hexavalent	0.001	mg/L	<0.001	<0.001
Toxaphene	0.001	mg/L	<0.001	<0.001
Phenols (4AAP)	0.002	mg/L	0.041	0.004
Tetraethyllead (Pb)	0.00004	mg/L	<0.00004	<0.00004
Tributyl Tin	0.00004	mg/L	<0.00004	<0.00004
Total Oil and Grease	1	mg/L	31	<1
Trout Bioassay	Pass/Fail		NA	Fail
Total Metals**				
Arsenic, Total	0.001	mg/L	0.004	0.001
Cadmium, Total	0.001	mg/L	0.001	<0.001
Chromium, Total	0.001	mg/L	0.011	0.007
Copper, Total	0.001	mg/L	0.127	0.017
Molybdenum, Total	NA	mg/L	NA	NA
Nickel, Total	0.001	mg/L	0.024	0.006
Lead, Total	0.001	mg/L	0.010	0.002
Selenium, Total	NA	mg/L	NA	NA
Zinc, Total	0.003	mg/L	0.287	0.056
Volatile Organics				
1,1,1,2-Tetrachloroethane	0.5	µg/L	<0.5	<0.5
1,1,2,2-Tetrachloroethane	0.5	µg/L	<0.5	<0.5
1,1,1-Trichloroethane	0.5	µg/L	<0.5	<0.5
1,1,2-Trichloroethane	0.5	µg/L	<0.5	<0.5
1,2-Dibromoethane	0.5	µg/L	<0.5	<0.5
1,1-Dichloroethane	0.5	µg/L	<0.5	<0.5
1,1-Dichloroethylene	0.5	µg/L	<0.5	<0.5
1,2-Dichlorobenzene	0.5	µg/L	<0.5	<0.5
1,2-Dichloroethane	0.5	µg/L	<0.5	<0.5
1,2-Dichloropropane	0.5	µg/L	<0.5	<0.5
1,3-Dichlorobenzene	0.5	µg/L	<0.5	<0.5
1,4-Dichlorobenzene	0.5	µg/L	0.6	<0.5
2-Chloroethylvinyl Ether	20	µg/L	<20	<20
2-Hexanone	20	µg/L	<20	<20
Acetone	20	µg/L	<20	<20
Benzene	0.5	µg/L	<0.5	<0.5
Bromodichloromethane	0.5	µg/L	<0.5	<0.5
Bromoform	0.5	µg/L	<0.5	<0.5
Bromomethane	1	µg/L	<1	<1
Carbon Disulfide	0.5	µg/L	<0.5	<0.5
Carbon tetrachloride	0.5	µg/L	<0.5	<0.5
Chlorobenzene	0.5	µg/L	<0.5	<0.5
Chloroethane	1	µg/L	<1	<1
Chloroform	0.5	µg/L	10.5	<0.5
Chloromethane	1	µg/L	<1	<1
cis-1,2-Dichloroethylene	0.5	µg/L	<0.5	<0.5
cis-1,3-Dichloropropene	0.5	µg/L	<0.5	<0.5

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Dibromochloromethane	0.5	µg/L	<0.5	<0.5
Dichlorodifluoromethane	1	µg/L	<1	<1
Dichloromethane	0.5	µg/L	<0.5	<0.5
Ethyl Benzene	0.5	µg/L	<0.5	<0.5
m+p-Xylenes	1	µg/L	<1	<1
Methyl Ethyl Ketone	20	µg/L	<20	<20
Methyl Isobutyl Ketone	20	µg/L	<20	<20
MTBE	0.5	µg/L	<0.5	<0.5
o-Xylene	0.5	µg/L	<0.5	<0.5
Styrene	0.5	µg/L	<0.5	<0.5
Tetrachloroethylene	0.5	µg/L	<0.5	<0.5
Toluene	0.5	µg/L	2.0	<0.5
trans-1,2-Dichloroethylene	0.5	µg/L	<0.5	<0.5
trans-1,3-Dichloropropene	0.5	µg/L	<0.5	<0.5
Trichloroethylene	0.5	µg/L	<0.5	<0.5
Trichlorofluoromethane	1	µg/L	<1	<1
Trihalomethanes (total)	2	µg/L	10.5	<2.0
Vinyl chloride	0.5	µg/L	<0.5	<0.5
Xylenes (Total)	1.5	µg/L	<1.5	<1.5
Target Compounds by GC/MS				
Octachlorostyrene	0.0005	mg/L	<0.0005	<0.0005
4,4'-Methylenebis(2-chloroaniline)	0.0005	mg/L	<0.0005	<0.0005
Dinitropyrene	0.02	mg/L	<0.02	<0.02
Phenoxyacid Herbicides by GC/MS				
2,4,5-TP	0.5	µg/L	<0.5	<0.5
MCPA	0.5	µg/L	<0.5	<0.5
2,4,5-T	0.5	µg/L	<0.5	<0.5
2,4-D	0.5	µg/L	<0.5	<0.5
Bromoxynil	0.5	µg/L	<0.5	<0.5
Dicamba	0.5	µg/L	<0.5	<0.5
Picloram	0.5	µg/L	<0.5	<0.5
Pesticides, Organochlorine				
op-DDT	0.1	µg/L	<0.1	<0.1
pp-DDD	0.1	µg/L	<0.1	<0.1
pp-DDE	0.1	µg/L	<0.1	<0.1
pp-DDT	0.1	µg/L	<0.1	<0.1
Heptachlor	0.1	µg/L	<0.1	<0.1
Heptachlor Epoxide	0.1	µg/L	<0.1	<0.1
a-chlordane	0.1	µg/L	<0.1	<0.1
g-chlordane	0.1	µg/L	<0.1	<0.1
Aldrin	0.02	µg/L	<0.02	<0.02
Dieldrin	0.02	µg/L	<0.02	<0.02
Lindane	0.1	µg/L	<0.1	<0.1
Methoxychlor	0.1	µg/L	<0.1	<0.1
alpha-BHC	0.1	µg/L	<0.1	<0.1
beta-BHC	0.1	µg/L	<0.1	<0.1
delta-BHC	0.1	µg/L	<0.1	<0.1
Oxychlordane	0.1	µg/L	<0.1	<0.1
Endrin	0.1	µg/L	<0.1	<0.1
beta-Endosulfan	0.1	µg/L	<0.1	<0.1
alpha-Endosulfan	0.1	µg/L	<0.1	<0.1
o,p-DDE	0.1	µg/L	<0.1	<0.1
Endrin Aldehyde	0.1	µg/L	<0.1	<0.1
Endosulfan Sulfate	0.1	µg/L	<0.1	<0.1

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Mirex	0.1	µg/L	<0.1	<0.1
op-DDD	0.1	µg/L	<0.1	<0.1
PCB				
Aroclor 1016	0.0001	mg/L	<0.0001	<0.0001
Aroclor 1221	0.0001	mg/L	<0.0001	<0.0001
Aroclor 1232	0.0001	mg/L	<0.0001	<0.0001
Aroclor 1242	0.0001	mg/L	<0.0001	<0.0001
Aroclor 1248	0.0001	mg/L	<0.0001	<0.0001
Aroclor 1254	0.0001	mg/L	<0.0001	<0.0001
Aroclor 1260	0.0001	mg/L	<0.0001	<0.0001
Aroclor 1262	0.0001	mg/L	<0.0001	<0.0001
Aroclor 1268	0.0001	mg/L	<0.0001	<0.0001
Total PCBs	0.0001	mg/L	<0.0001	<0.0001
Dioxins and Furans				
2378 TeCDD	0.28/0.24*	pg/L	<0.28	<0.24
12378 PeCDD	0.19/0.15*	pg/L	<0.19	<0.15
123478 HxCDD	0.25/0.17*	pg/L	0.4	0.46
123678 HxCDD	0.22/0.19*	pg/L	<0.22	0.8
123789 HxCDD	0.22/0.19*	pg/L	<0.22	0.79
1234678 HpCDD	0.44/0.3*	pg/L	6.1	6.4
OCDD	1.47/1*	pg/L	51	41
Total TCDD	0.28/0.24*	pg/L	<0.28	<0.24
Total PeCDD	0.19/0.15*	pg/L	<0.19	<0.15
Total HxCDD	0.25/0.19*	pg/L	<0.25	2.1
Total HpCDD	0.44/0.3*	pg/L	13	16
Total PCDDs	0.44/0.3*	pg/L	65	59
2378 TeCDF	0.24/0.19*	pg/L	<0.24	0.63
12378 PeCDF	0.18/0.16*	pg/L	<0.18	0.89
23478 PeCDF	0.14/0.11*	pg/L	<0.14	0.68
123478 HxCDF	0.21/0.14*	pg/L	0.92	1.2
123678 HxCDF	0.2/0.13*	pg/L	<0.20	0.57
123789 HxCDF	0.23/0.15*	pg/L	<0.23	<0.15
234678 HxCDF	0.32/0.19*	pg/L	<0.32	0.47
1234678 HpCDF	0.3/0.19*	pg/L	2	<0.19
1234789 HpCDF	0.48/0.3*	pg/L	<0.48	<0.30
OCDF	0.67/0.46*	pg/L	5.9	2.8
Total TCDF	0.24/0.19*	pg/L	<0.24	0.63
Total PeCDF	0.18/0.16*	pg/L	<0.18	2
Total HxCDF	0.32/0.19*	pg/L	<0.32	2.9
Total HpCDF	0.48/0.3*	pg/L	<0.48	<0.30
Total PCDFs	0.48/0.3*	pg/L	5.9	8.3
Total TEQ (ND=0)	0.1	pg/L	0.3	1
Total TEQ (ND=0.5DL)	0.1	pg/L	0.6	1.2
Total TEQ (ND=DL)	0.1	pg/L	0.9	1.3
EPA 8270 Extractables				
1,2,4-Trichlorobenzene	0.4	µg/L	<0.4	<0.4
1,2-Dichlorobenzene	0.4	µg/L	<0.4	<0.4
1,3-Dichlorobenzene	0.4	µg/L	<0.4	<0.4
1,4-Dichlorobenzene	0.4	µg/L	0.5	<0.4
1-Chloronaphthalene	0.4	µg/L	<0.4	<0.4
1-Methylnaphthalene	0.4	µg/L	<0.4	<0.4
2,3,4,5-Tetrachlorophenol	0.5	µg/L	<0.5	<0.5
2,3,4,6-Tetrachlorophenol	0.5	µg/L	<0.5	<0.5
2,3,4-Trichlorophenol	0.5	µg/L	<0.5	<0.5

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2,3,5,6-Tetrachlorophenol	0.5	µg/L	<0.5	<0.5
2,3,5-Trichlorophenol	0.5	µg/L	<0.5	<0.5
2,4,5-Trichlorophenol	0.5	µg/L	<0.5	<0.5
2,4,6-Trichlorophenol	0.5	µg/L	<0.5	<0.5
2,4-Dichlorophenol	0.5	µg/L	<0.5	<0.5
2,4-Dimethylphenol	0.5	µg/L	<0.5	<0.5
2,4-Dinitrophenol	0.5	µg/L	<0.5	<0.5
2,4-Dinitrotoluene	0.4	µg/L	<0.4	<0.4
2,6-Dichlorophenol	0.5	µg/L	<0.5	<0.5
2,6-Dinitrotoluene	0.4	µg/L	<0.4	<0.4
2-Chloronaphthalene	0.4	µg/L	<0.4	<0.4
2-Chlorophenol	0.5	µg/L	<0.5	<0.5
2-Methylnaphthalene	0.4	µg/L	<0.4	<0.4
2-Methylphenol	0.5	µg/L	<0.5	<0.5
2-Nitrophenol	0.5	µg/L	<0.5	<0.5
3,3'-Dichlorobenzidine	0.4	µg/L	<0.4	<0.4
3&4-Methylphenol	0.5	µg/L	79.1	<0.5
EPA 8270 Extractables				
4,6-Dinitro-2-methylphenol	2	µg/L	<2	<2
4-Bromophenyl phenyl ether	0.4	µg/L	<0.4	<0.4
4-Chloro-3-methylphenol	0.5	µg/L	<0.5	<0.5
4-Chlorophenyl phenyl ether	0.4	µg/L	<0.4	<0.4
4-Nitrophenol	0.5	µg/L	<0.5	<0.5
5-Nitroacenaphthene	0.4	µg/L	<0.4	<0.4
Acenaphthene	0.2	µg/L	<0.2	<0.2
Acenaphylene	0.2	µg/L	<0.2	<0.2
Anthracene	0.2	µg/L	<0.2	<0.2
Benzo(a)anthracene	0.2	µg/L	<0.2	<0.2
Benzo(a)pyrene	0.01	µg/L	<0.01	0.02
Benzo(b)fluoranthene	0.2	µg/L	<0.2	<0.2
Benzo(ghi)perylene	0.2	µg/L	<0.2	<0.2
Benzo(k)fluoranthene	0.2	µg/L	<0.2	<0.2
Biphenyl	0.4	µg/L	<0.4	<0.4
Bis(2-chloroethoxy)methane	0.4	µg/L	<0.4	<0.4
Bis(2-chloroethyl)ether	0.4	µg/L	<0.4	<0.4
Bis(2-chloroisopropyl)ether	0.4	µg/L	<0.4	<0.4
Bis(2-ethylhexyl)phthalate	2	µg/L	6	<2
Butylbenzyl phthalate	0.4	µg/L	2.0	<0.4
Camphene	0.4	µg/L	<0.4	<0.4
Chrysene	0.2	µg/L	<0.2	<0.2
Dibenzo(a,h)anthracene	0.2	µg/L	<0.2	<0.2
Diethylphthalate	0.4	µg/L	6.6	<0.4
Dimethylphthalate	0.4	µg/L	<0.4	<0.4
Di-n-butylphthalate	2	µg/L	2	<2
Di-n-octylphthalate	0.4	µg/L	<0.4	<0.4
Diphenylamine	0.4	µg/L	<0.4	<0.4
Fluoranthene	0.2	µg/L	<0.2	<0.2
Fluorene	0.2	µg/L	<0.2	<0.2
Hexachlorobenzene	0.4	µg/L	<0.4	<0.4
Hexachlorobutadiene	0.4	µg/L	<0.4	<0.4
Hexachlorocyclopentadiene	0.4	µg/L	<0.4	<0.4
Hexachloroethane	0.4	µg/L	<0.4	<0.4
Indeno(1,2,3-cd)pyrene	0.2	µg/L	<0.2	<0.2
Indole	0.4	µg/L	7.3	<0.4
Isophorone	0.4	µg/L	<0.4	<0.4
Naphthalene	0.2	µg/L	<0.2	<0.2

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Nitrobenzene	0.4	µg/L	<0.4	<0.4
N-Nitrosodi-n-propylamine	0.4	µg/L	<0.4	<0.4
Pentachlorophenol	0.5	µg/L	<0.5	<0.5
Perylene	0.2	µg/L	<0.2	<0.2
Phenanthrene	0.2	µg/L	<0.2	<0.2
Phenol	0.5	µg/L	8.4	<0.5
Diphenyl ether	0.4	µg/L	<0.4	<0.4
Pyrene	0.2	µg/L	<0.2	<0.2
Cresols (total)	1	µg/L	75	<1
Nonylphenols and Nonylphenol Ethoxylates				
Nonylphenols	0.1	mg/L	<0.1	<0.1
Nonylphenol monoethoxylates	0.5	mg/L	<0.5	<0.5
Nonylphenol diethoxylates	1.2	mg/L	<1.2	<1.2
Nonylphenol triethoxylates	2.0	mg/L	<2.0	<2.0
t-Octylphenol	0.002	mg/L	<0.002	<0.002
t-Octylphenol Monoethoxylate	0.01	mg/L	<0.01	<0.01
t-Octylphenol Diethoxylate	0.05	mg/L	<0.05	<0.05
t-Octylphenol Triethoxylate	0.2	mg/L	<0.2	<0.2

NOTES:

MDL- Method detection limit

mg/L- milligrams/Litre

µg/L- micrograms/Litre

ng/L- nanograms/Litre

pg/L- picograms/Litre

*- two detection limits, matrix related

<- less than

NA- not analyzed

*** Total Metals were analyzed in-house on biweekly composite samples, and the reported results are quarterly averages.
All other parameters were analyzed by contract laboratory.*

This report was revised February 17, 2010 to include Total Metals data.

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Sample Location:			WEWPCC Raw Sewage Grab	WEWPCC Final Effluent (Lagoon) Grab
Date Sampled:			9-Sep-2005	9-Sep-2005
Parameter	MDL	Units		
Miscellaneous				
Mercury (Hg)-Total	0.5	ng/L	190	16
Chromium, Hexavalent	0.001	mg/L	<0.001	<0.001
Toxaphene	0.001	mg/L	<0.001	<0.001
Phenols (4AAP)	0.002	mg/L	0.056	0.004
Tetraethyllead (Pb)	0.00004	mg/L	<0.00004	<0.00004
Tributyl Tin	0.00004	mg/L	<0.00004	<0.00004
Total Oil and Grease	1	mg/L	57	<1
Trout Bioassay	Pass/Fail		NA	Pass
Total Metals**				
Arsenic, Total	0.001	mg/L	0.004	0.001
Cadmium, Total	0.001	mg/L	0.001	<0.001
Chromium, Total	0.001	mg/L	0.011	0.007
Copper, Total	0.001	mg/L	0.127	0.017
Molybdenum, Total	NA	mg/L	NA	NA
Nickel, Total	0.001	mg/L	0.024	0.006
Lead, Total	0.001	mg/L	0.010	0.002
Selenium, Total	NA	mg/L	NA	NA
Zinc, Total	0.003	mg/L	0.287	0.056
Volatile Organics				
1,1,1,2-Tetrachloroethane	0.5	µg/L	<0.5	<0.5
1,1,2,2-Tetrachloroethane	0.5	µg/L	<0.5	<0.5
1,1,1-Trichloroethane	0.5	µg/L	<0.5	<0.5
1,1,2-Trichloroethane	0.5	µg/L	<0.5	<0.5
1,2-Dibromoethane	0.5	µg/L	<0.5	<0.5
1,1-Dichloroethane	0.5	µg/L	<0.5	<0.5
1,1-Dichloroethylene	0.5	µg/L	<0.5	<0.5
1,2-Dichlorobenzene	0.5	µg/L	<0.5	<0.5
1,2-Dichloroethane	0.5	µg/L	<0.5	<0.5
1,2-Dichloropropane	0.5	µg/L	<0.5	<0.5
1,3-Dichlorobenzene	0.5	µg/L	<0.5	<0.5
1,4-Dichlorobenzene	0.5	µg/L	1.3	<0.5
2-Chloroethylvinyl Ether	20	µg/L	<20	<20
2-Hexanone	20	µg/L	<20	<20
Acetone	20	µg/L	<20	<20
Benzene	0.5	µg/L	<0.5	<0.5
Bromodichloromethane	0.5	µg/L	<0.5	<0.5
Bromoform	0.5	µg/L	<0.5	<0.5
Bromomethane	1	µg/L	<1	<1
Carbon Disulfide	0.5	µg/L	0.6	1.1
Carbon tetrachloride	0.5	µg/L	<0.5	<0.5
Chlorobenzene	0.5	µg/L	<0.5	<0.5
Chloroethane	1	µg/L	<1	<1
Chloroform	0.5	µg/L	9.2	<0.5
Chloromethane	1	µg/L	<1	<1
cis-1,2-Dichloroethylene	0.5	µg/L	<0.5	<0.5
cis-1,3-Dichloropropene	0.5	µg/L	<0.5	<0.5

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Dibromochloromethane	0.5	µg/L	<0.5	<0.5
Dichlorodifluoromethane	1	µg/L	<1	<1
Dichloromethane	0.5	µg/L	0.7	<0.5
Ethyl Benzene	0.5	µg/L	<0.5	<0.5
m+p-Xylenes	1	µg/L	1	<1
Methyl Ethyl Ketone	20	µg/L	<20	<20
Methyl Isobutyl Ketone	20	µg/L	<20	<20
MTBE	0.5	µg/L	<0.5	<0.5
o-Xylene	0.5	µg/L	<0.5	<0.5
Styrene	0.5	µg/L	<0.5	<0.5
Tetrachloroethylene	0.5	µg/L	<0.5	<0.5
Toluene	0.5	µg/L	4.6	<0.5
trans-1,2-Dichloroethylene	0.5	µg/L	<0.5	<0.5
trans-1,3-Dichloropropene	0.5	µg/L	<0.5	<0.5
Trichloroethylene	0.5	µg/L	<0.5	<0.5
Trichlorofluoromethane	1	µg/L	<1	<1
Trihalomethanes (total)	2	µg/L	9.2	<2.0
Vinyl chloride	0.5	µg/L	<0.5	<0.5
Xylenes (Total)	1.5	µg/L	<1.5	<1.5
Target Compounds by GC/MS				
Octachlorostyrene	0.0005	mg/L	<0.0005	<0.0005
4,4'-Methylenebis(2-chloroaniline)	0.0005	mg/L	<0.0005	<0.0005
Dinitropyrene	0.02	mg/L	<0.02	<0.02
Phenoxyacid Herbicides by GC/MS				
2,4,5-TP	0.5	µg/L	<0.5	<0.5
MCPA	0.5	µg/L	<0.5	<0.5
2,4,5-T	0.5	µg/L	<0.5	<0.5
2,4-D	0.5	µg/L	<0.5	<0.5
Bromoxynil	0.5	µg/L	<0.5	<0.5
Dicamba	0.5	µg/L	<0.5	<0.5
Picloram	0.5	µg/L	<0.5	<0.5
Pesticides, Organochlorine				
op-DDT	0.1	µg/L	<0.1	<0.1
pp-DDD	0.1	µg/L	<0.1	<0.1
pp-DDE	0.1	µg/L	<0.1	<0.1
pp-DDT	0.1	µg/L	<0.1	<0.1
Heptachlor	0.1	µg/L	<0.1	<0.1
Heptachlor Epoxide	0.1	µg/L	<0.1	<0.1
a-chlordane	0.1	µg/L	<0.1	<0.1
g-chlordane	0.1	µg/L	<0.1	<0.1
Aldrin	0.02	µg/L	<0.02	<0.02
Dieldrin	0.02	µg/L	<0.02	<0.02
Lindane	0.1	µg/L	<0.1	<0.1
Methoxychlor	0.1	µg/L	<0.1	<0.1
alpha-BHC	0.1	µg/L	<0.1	<0.1
beta-BHC	0.1	µg/L	<0.1	<0.1
delta-BHC	0.1	µg/L	<0.1	<0.1
Oxychlordane	0.1	µg/L	<0.1	<0.1
Endrin	0.1	µg/L	<0.1	<0.1
beta-Endosulfan	0.1	µg/L	<0.1	<0.1
alpha-Endosulfan	0.1	µg/L	<0.1	<0.1
o,p-DDE	0.1	µg/L	<0.1	<0.1
Endrin Aldehyde	0.1	µg/L	<0.1	<0.1
Endosulfan Sulfate	0.1	µg/L	<0.1	<0.1

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Mirex	0.1	µg/L	<0.1	<0.1
op-DDD	0.1	µg/L	<0.1	<0.1
PCB				
Aroclor 1016	0.00005	mg/L	<0.00005	<0.00005
Aroclor 1221	0.00005	mg/L	<0.00005	<0.00005
Aroclor 1232	0.00005	mg/L	<0.00005	<0.00005
Aroclor 1242	0.00005	mg/L	<0.00005	<0.00005
Aroclor 1248	0.00005	mg/L	<0.00005	<0.00005
Aroclor 1254	0.00005	mg/L	<0.00005	<0.00005
Aroclor 1260	0.00005	mg/L	<0.00005	<0.00005
Aroclor 1262	0.00005	mg/L	<0.00005	<0.00005
Aroclor 1268	0.00005	mg/L	<0.00005	<0.00005
Total PCBs	0.0001	mg/L	<0.0001	<0.0001
Dioxins and Furans				
2378 TeCDD	0.12/0.12*	pg/L	<0.12	<0.12
12378 PeCDD	0.1	pg/L	<0.10	<0.10
123478 HxCDD	0.1	pg/L	<0.10	<0.10
123678 HxCDD	0.1	pg/L	0.85	0.52
123789 HxCDD	0.1	pg/L	0.53	0.34
1234678 HpCDD	0.13/0.1*	pg/L	11	3.0
OCDD	0.27/0.24*	pg/L	110	25
Total TCDD	0.12	pg/L	<0.12	4.4
Total PeCDD	0.1	pg/L	<0.10	<0.10
Total HxCDD	0.1	pg/L	2.1	1.2
Total HpCDD	0.13/0.1*	pg/L	21	6.4
Total PCDDs	0.27/0.24*	pg/L	130	37
2378 TeCDF	0.1	pg/L	<0.10	<0.10
12378 PeCDF	0.1	pg/L	<0.10	0.81
23478 PeCDF	0.1	pg/L	0.37	0.75
123478 HxCDF	0.1	pg/L	0.5	0.59
123678 HxCDF	0.1	pg/L	<0.10	0.38
123789 HxCDF	0.1	pg/L	<0.10	<0.10
234678 HxCDF	0.1	pg/L	<0.10	<0.10
1234678 HpCDF	0.1	pg/L	3.6	<0.10
1234789 HpCDF	0.11/0.1*	pg/L	<0.11	<0.10
OCDF	0.23/0.21*	pg/L	13	1.6
Total TCDF	0.1	pg/L	<0.10	0.55
Total PeCDF	0.1	pg/L	0.37	1.4
Total HxCDF	0.1	pg/L	2.6	1.5
Total HpCDF	0.11/0.1*	pg/L	7.4	<0.10
Total PCDFs	0.23/0.21*	pg/L	23	5.1
Total TEQ (ND=0)	-	pg/L	0.64	0.65
Total TEQ (ND=0.5DL)	-	pg/L	0.75	0.76
Total TEQ (ND=DL)	-	pg/L	0.86	0.86
EPA 8270 Extractables				
1,2,4-Trichlorobenzene	4/0.4*	µg/L	<4	<0.4
1,2-Dichlorobenzene	4/0.4*	µg/L	<4	<0.4
1,3-Dichlorobenzene	4/0.4*	µg/L	<4	<0.4
1,4-Dichlorobenzene	4/0.4*	µg/L	<4	<0.4
1-Chloronaphthalene	4/0.4*	µg/L	<4	<0.4
1-Methylnaphthalene	4/0.4*	µg/L	<4	<0.4
2,3,4,5-Tetrachlorophenol	5/0.5*	µg/L	<5	<0.5
2,3,4,6-Tetrachlorophenol	5/0.5*	µg/L	<5	<0.5
2,3,4-Trichlorophenol	5/0.5*	µg/L	<5	<0.5

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2,3,5,6-Tetrachlorophenol	5/0.5*	µg/L	<5	<0.5
2,3,5-Trichlorophenol	5/0.5*	µg/L	<5	<0.5
2,4,5-Trichlorophenol	5/0.5*	µg/L	<5	<0.5
2,4,6-Trichlorophenol	5/0.5*	µg/L	<5	<0.5
2,4-Dichlorophenol	5/0.5*	µg/L	<5	<0.5
2,4-Dimethylphenol	5/0.5*	µg/L	<5	<0.5
2,4-Dinitrophenol	10/1*	µg/L	<10	<1
2,4-Dinitrotoluene	4/0.4*	µg/L	<4	<0.4
2,6-Dichlorophenol	5/0.5*	µg/L	<5	<0.5
2,6-Dinitrotoluene	4/0.4*	µg/L	<4	<0.4
2-Chloronaphthalene	4/0.4*	µg/L	<4	<0.4
2-Chlorophenol	5/0.5*	µg/L	<5	<0.5
2-Methylnaphthalene	4/0.4*	µg/L	<4	<0.4
2-Methylphenol	5/0.5*	µg/L	<5	<0.5
2-Nitrophenol	5/0.5*	µg/L	<5	<0.5
3,3'-Dichlorobenzidine	4/0.4*	µg/L	<4	<0.4
3&4-Methylphenol	5/0.5*	µg/L	113	<0.5
EPA 8270 Extractables				
4,6-Dinitro-2-methylphenol	20/2*	µg/L	<20	<2
4-Bromophenyl phenyl ether	4/0.4*	µg/L	<4	<0.4
4-Chloroaniline	4/0.4*	µg/L	<4	<0.4
4-Chloro-3-methylphenol	5/0.5*	µg/L	<5	<0.5
4-Chlorophenyl phenyl ether	4/0.4*	µg/L	<4	<0.4
4-Nitrophenol	5/0.5*	µg/L	<5	<0.5
5-Nitroacenaphthene	4/0.4*	µg/L	<4	<0.4
Acenaphthene	2/0.2*	µg/L	<2	<0.2
Acenaphylene	2/0.2*	µg/L	<2	<0.2
Anthracene	2/0.2*	µg/L	<2	<0.2
Benzo(a)anthracene	2/0.2*	µg/L	<2	<0.2
Benzo(a)pyrene	0.1/0.01*	µg/L	0.3	<0.01
Benzo(b)fluoranthene	2/0.2*	µg/L	<2	<0.2
Benzo(ghi)perylene	2/0.2*	µg/L	<2	<0.2
Benzo(k)fluoranthene	2/0.2*	µg/L	<2	<0.2
Biphenyl	4/0.4*	µg/L	<4	<0.4
Bis(2-chloroethoxy)methane	4/0.4*	µg/L	<4	<0.4
Bis(2-chloroethyl)ether	4/0.4*	µg/L	<4	<0.4
Bis(2-chloroisopropyl)ether	4/0.4*	µg/L	<4	<0.4
Bis(2-ethylhexyl)phthalate	20/2*	µg/L	20	<2
Butylbenzyl phthalate	4/0.4*	µg/L	<4	<0.4
Camphene	4/0.4*	µg/L	<4	<0.4
Chrysene	2/0.2*	µg/L	<2	<0.2
Dibenzo(a,h)anthracene	2/0.2*	µg/L	<2	<0.2
Diethylphthalate	4/0.4*	µg/L	6	<0.4
Dimethylphthalate	4/0.4*	µg/L	<4	<0.4
Di-n-butylphthalate	20/2*	µg/L	<20	4
Di-n-octylphthalate	4/0.4*	µg/L	<4	<0.4
Diphenylamine	4/0.4*	µg/L	<4	<0.4
Fluoranthene	2/0.2*	µg/L	<2	<0.2
Fluorene	2/0.2*	µg/L	<2	<0.2
Hexachlorobenzene	4/0.4*	µg/L	<4	<0.4
Hexachlorobutadiene	4/0.4*	µg/L	<4	<0.4
Hexachlorocyclopentadiene	4/0.4*	µg/L	<4	<0.4
Hexachloroethane	4/0.4*	µg/L	<4	<0.4
Indeno(1,2,3-cd)pyrene	2/0.2*	µg/L	<2	<0.2
Indole	4/0.4*	µg/L	34	<0.4

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Isophorone	4/0.4*	µg/L	<4	<0.4
Naphthalene	2/0.2*	µg/L	<2	<0.2
Nitrobenzene	4/0.4*	µg/L	<4	<0.4
N-Nitrosodi-n-propylamine	4/0.4*	µg/L	<4	<0.4
Pentachlorophenol	5/0.5*	µg/L	<5	<0.5
Perylene	2/0.2*	µg/L	<2	<0.2
Phenanthrene	2/0.2*	µg/L	<2	<0.2
Phenol	5/0.5*	µg/L	13	<0.5
Diphenyl ether	4/0.4*	µg/L	<4	<0.4
Pyrene	2/0.2*	µg/L	<2	<0.2
Cresols (total)	10/1*	µg/L	110	<1
Nonylphenols and Nonylphenol Ethoxylates				
Nonylphenols	10	µg/L	10.2	<10.0
Nonylphenol Monoethoxylates	20	µg/L	<50.0	<50.0
Nonylphenol Diethoxylates	120	µg/L	<120	<120
Nonylphenol Triethoxylates	200	µg/L	<200	<200
t-Octylphenol	2	µg/L	<2.00	<2.00
t-Octylphenol Monoethoxylates	10	µg/L	<10.0	<10.0
t-Octylphenol Diethoxylates	50	µg/L	<50.0	<50.0
t-Octylphenol Triethoxylates	200	µg/L	<200	<200

NOTES:

MDL- Method detection limit

mg/L- milligrams/Litre

µg/L- micrograms/Litre

ng/L- nanograms/Litre

pg/L- picograms/Litre

*- two detection limits, matrix related

<- less than

NA- not analyzed

*** Total Metals were analyzed in-house on biweekly composite samples, and the reported results are quarterly averages.*

All other parameters were analyzed by contract laboratory.

This report was revised February 17, 2010 to include Total Metals data.

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Sample Location:			WEWPCC Raw Sewage Grab	WEWPCC Final Effluent (Lagoon) Grab
Date Sampled:			7-Dec-2005	7-Dec-2005
Parameter	MDL	Units		
Miscellaneous				
Mercury (Hg)-Total	0.5	ng/L	82	4.1
Chromium, Hexavalent	0.001	mg/L	<0.001	<0.001
Toxaphene	0.001	mg/L	<0.001	<0.001
Phenols (4AAP)	0.002	mg/L	0.065	0.005
Tetraethyllead (Pb)	0.00004	mg/L	<0.00004	<0.00004
Tributyl Tin	0.00004	mg/L	<0.00004	<0.00004
Total Oil and Grease	1	mg/L	41	<1
Trout Bioassay	Pass/Fail		NA	Fail
Total Metals**				
Arsenic, Total	0.001	mg/L	0.005	0.002
Cadmium, Total	0.001	mg/L	<0.001	<0.001
Chromium, Total	0.001	mg/L	0.009	0.005
Copper, Total	0.001	mg/L	0.168	0.017
Molybdenum, Total	NA	mg/L	NA	NA
Nickel, Total	0.001	mg/L	0.015	0.006
Lead, Total	0.001	mg/L	0.006	0.001
Selenium, Total	NA	mg/L	NA	NA
Zinc, Total	0.003	mg/L	0.427	0.045
Volatile Organics				
1,1,1,2-Tetrachloroethane	0.5	µg/L	<0.5	<0.5
1,1,2,2-Tetrachloroethane	0.5	µg/L	<0.5	<0.5
1,1,1-Trichloroethane	0.5	µg/L	<0.5	<0.5
1,1,2-Trichloroethane	0.5	µg/L	<0.5	<0.5
1,2-Dibromoethane	0.5	µg/L	<0.5	<0.5
1,1-Dichloroethane	0.5	µg/L	<0.5	<0.5
1,1-Dichloroethylene	0.5	µg/L	<0.5	<0.5
1,2-Dichlorobenzene	0.5	µg/L	<0.5	<0.5
1,2-Dichloroethane	0.5	µg/L	<0.5	<0.5
1,2-Dichloropropane	0.5	µg/L	<0.5	<0.5
1,3-Dichlorobenzene	0.5	µg/L	<0.5	<0.5
1,4-Dichlorobenzene	0.5	µg/L	0.9	<0.5
2-Chloroethylvinyl Ether	20	µg/L	<20	<20
2-Hexanone	20	µg/L	<20	<20
Acetone	20	µg/L	20	<20
Benzene	0.5	µg/L	<0.5	<0.5
Bromodichloromethane	0.5	µg/L	<0.5	<0.5
Bromoform	0.5	µg/L	<0.5	<0.5
Bromomethane	1	µg/L	<1	<1
Carbon Disulfide	0.5	µg/L	0.6	<0.5
Carbon tetrachloride	0.5	µg/L	<0.5	<0.5
Chlorobenzene	0.5	µg/L	<0.5	<0.5
Chloroethane	1	µg/L	<1	<1
Chloroform	0.5	µg/L	16.3	1.5
Chloromethane	1	µg/L	<1	<1
cis-1,2-Dichloroethylene	0.5	µg/L	<0.5	<0.5
cis-1,3-Dichloropropene	0.5	µg/L	<0.5	<0.5

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Dibromochloromethane	0.5	µg/L	<0.5	<0.5
Dichlorodifluoromethane	1	µg/L	<1	<1
Dichloromethane	0.5	µg/L	0.6	<0.5
Ethyl Benzene	0.5	µg/L	<0.5	<0.5
m+p-Xylenes	1	µg/L	<1	<1
Methyl Ethyl Ketone	20	µg/L	<20	<20
Methyl Isobutyl Ketone	20	µg/L	<20	<20
MTBE	0.5	µg/L	<0.5	<0.5
o-Xylene	0.5	µg/L	<0.5	<0.5
Styrene	0.5	µg/L	<0.5	<0.5
Tetrachloroethylene	0.5	µg/L	<0.5	<0.5
Toluene	0.5	µg/L	4.6	<0.5
trans-1,2-Dichloroethylene	0.5	µg/L	<0.5	<0.5
trans-1,3-Dichloropropene	0.5	µg/L	<0.5	<0.5
Trichloroethylene	0.5	µg/L	<0.5	<0.5
Trichlorofluoromethane	1	µg/L	<1	<1
Trihalomethanes (total)	2	µg/L	16.3	<2.0
Vinyl chloride	0.5	µg/L	<0.5	<0.5
Xylenes (Total)	1.5	µg/L	<1.5	<1.5
Target Compounds by GC/MS				
Octachlorostyrene	0.0005	mg/L	<0.0005	<0.0005
4,4'-Methylenebis(2-chloroaniline)	0.0005	mg/L	<0.0005	<0.0005
Dinitropyrene	0.02	mg/L	<0.02	<0.02
Phenoxyacid Herbicides by GC/MS				
2,4,5-TP	0.5	µg/L	<0.5	<0.5
MCPA	0.5	µg/L	<0.5	<0.5
2,4,5-T	0.5	µg/L	<0.5	<0.5
2,4-D	0.5	µg/L	<0.5	<0.5
Bromoxynil	0.5	µg/L	<0.5	<0.5
Dicamba	0.5	µg/L	<0.5	<0.5
Picloram	0.5	µg/L	<0.5	<0.5
Pesticides, Organochlorine				
op-DDT	4/0.04*	µg/L	<4	<0.04
pp-DDD	4/0.04*	µg/L	<4	<0.04
pp-DDE	4/0.04*	µg/L	<4	<0.04
pp-DDT	4/0.04*	µg/L	<4	<0.04
Heptachlor	4/0.04*	µg/L	<4	<0.04
Heptachlor Epoxide	4/0.04*	µg/L	<4	<0.04
a-chlordane	4/0.04*	µg/L	<4	<0.04
g-chlordane	4/0.04*	µg/L	<4	<0.04
Aldrin	1/0.01*	µg/L	<1	<0.01
Dieldrin	1/0.01*	µg/L	<1	<0.01
Lindane	4/0.04*	µg/L	<4	<0.04
Methoxychlor	4/0.04*	µg/L	<4	<0.04
alpha-BHC	4/0.04*	µg/L	<4	<0.04
beta-BHC	4/0.04*	µg/L	<4	<0.04
delta-BHC	4/0.04*	µg/L	<4	<0.04
Oxychlordane	4/0.04*	µg/L	<4	<0.04
Endrin	4/0.04*	µg/L	<4	<0.04
beta-Endosulfan	10/0.1*	µg/L	<10	<0.1
alpha-Endosulfan	10/0.1*	µg/L	<10	<0.1
o,p-DDE	4/0.04*	µg/L	<4	<0.4
Endrin Aldehyde	4/0.04*	µg/L	<4	<0.4
Endosulfan Sulfate	4/0.04*	µg/L	<4	<0.4

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Mirex	4/0.04*	µg/L	<4	<0.4
op-DDD	4/0.04*	µg/L	<4	<0.4
PCB				
Aroclor 1016	0.00005	mg/L	<0.00005	<0.00005
Aroclor 1221	0.00005	mg/L	<0.00005	<0.00005
Aroclor 1232	0.00005	mg/L	<0.00005	<0.00005
Aroclor 1242	0.00005	mg/L	<0.00005	<0.00005
Aroclor 1248	0.00005	mg/L	<0.00005	<0.00005
Aroclor 1254	0.00005	mg/L	<0.00005	<0.00005
Aroclor 1260	0.00005	mg/L	<0.00005	<0.00005
Aroclor 1262	0.00005	mg/L	<0.00005	<0.00005
Aroclor 1268	0.00005	mg/L	<0.00005	<0.00005
Total PCBs	0.00005	mg/L	<0.00005	<0.00005
Dioxins and Furans				
2378 TeCDD	1.16/4.02*	pg/L	<1.2	<4.0
12378 PeCDD	1.33/2.24*	pg/L	<1.3	<2.2
123478 HxCDD	1.39/1.72*	pg/L	<1.4	<1.7
123678 HxCDD	1.36/1.57*	pg/L	<1.4	<1.6
123789 HxCDD	1.26/1.46*	pg/L	<1.3	<1.5
1234678 HpCDD	3.24/4.27*	pg/L	<3.2	<4.3
OCDD	6.95/8.93*	pg/L	90	<8.9
Total TCDD	1.16/4.02*	pg/L	<1.2	<4.0
Total PeCDD	1.33/2.24*	pg/L	<1.3	<2.2
Total HxCDD	1.39/1.72*	pg/L	<1.4	<1.7
Total HpCDD	3.24/4.27*	pg/L	<3.2	<4.3
Total PCDDs	6.95/8.93*	pg/L	90	<8.9
2378 TeCDF	0.83/1.58*	pg/L	<0.83	<1.6
12378 PeCDF	1.07/1.68*	pg/L	<1.1	<1.7
23478 PeCDF	1.13/1.56*	pg/L	<1.1	<1.6
123478 HxCDF	1.05/1.26*	pg/L	17	16
123678 HxCDF	1.01/1.27*	pg/L	<1.0	<1.3
123789 HxCDF	1.68/2.12*	pg/L	<1.7	<2.1
234678 HxCDF	1.3/1.53*	pg/L	<1.3	<1.5
1234678 HpCDF	2.62/3.12*	pg/L	<2.6	<3.1
1234789 HpCDF	4.68/5.81*	pg/L	<4.7	<5.8
OCDF	8.17/9.93*	pg/L	38	<9.9
Total TCDF	0.83/1.58*	pg/L	<0.83	<1.6
Total PeCDF	1.13/1.68*	pg/L	<1.1	<1.7
Total HxCDF	1.68/2.12*	pg/L	31	18
Total HpCDF	4.58/5.81*	pg/L	<4.7	<5.8
Total PCDFs	8.17/9.93*	pg/L	70	18
Total TEQ (ND=0)	-	pg/L	1.8	1.6
Total TEQ (ND=0.5DL)	-	pg/L	3.8	5.8
Total TEQ (ND=DL)	-	pg/L	5.9	10
EPA 8270 Extractables				
1,2,3-Trichlorobenzene	0.4	µg/L	<0.4	<0.4
1,2,4-Trichlorobenzene	0.4	µg/L	<0.4	<0.4
1,2-Dichlorobenzene	0.4	µg/L	<0.4	<0.4
1,3-Dichlorobenzene	0.4	µg/L	<0.4	<0.4
1,4-Dichlorobenzene	0.4	µg/L	0.6	<0.4
1-Chloronaphthalene	0.4	µg/L	<0.4	<0.4
1-Methylnaphthalene	0.4	µg/L	<0.4	<0.4
2,3,4,5-Tetrachlorophenol	0.5	µg/L	<0.5	<0.5
2,3,4,6-Tetrachlorophenol	0.5	µg/L	<0.5	<0.5

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2,3,4-Trichlorophenol	0.5	µg/L	<0.5	<0.5
2,3,5,6-Tetrachlorophenol	0.5	µg/L	<0.5	<0.5
2,3,5-Trichlorophenol	0.5	µg/L	<0.5	<0.5
2,4,5-Trichlorophenol	0.5	µg/L	<0.5	<0.5
2,4,6-Trichlorophenol	0.5	µg/L	<0.5	<0.5
2,4-Dichlorophenol	0.5	µg/L	<0.5	<0.5
2,4-Dimethylphenol	0.5	µg/L	<0.5	<0.5
2,4-Dinitrophenol	1	µg/L	<1	<1
2,4-Dinitrotoluene	0.4	µg/L	<0.4	<0.4
2,6-Dichlorophenol	0.5	µg/L	<0.5	<0.5
2,6-Dinitrotoluene	0.4	µg/L	<0.4	<0.4
2-Chloronaphthalene	0.4	µg/L	<0.4	<0.4
2-Chlorophenol	0.5	µg/L	<0.5	<0.5
2-Methylnaphthalene	0.4	µg/L	<0.4	<0.4
2-Methylphenol	0.5	µg/L	<0.5	<0.5
2-Nitrophenol	0.5	µg/L	<0.5	<0.5
3,3'-Dichlorobenzidine	0.4	µg/L	<0.4	<0.4
3&4-Methylphenol	0.5	µg/L	82.8	<0.5
EPA 8270 Extractables				
4,6-Dinitro-2-methylphenol	2	µg/L	<2	<2
4-Bromophenyl phenyl ether	0.4	µg/L	<0.4	<0.4
4-Chloroaniline	0.4	µg/L	<0.4	<0.4
4-Chloro-3-methylphenol	0.5	µg/L	<0.5	<0.5
4-Chlorophenyl phenyl ether	0.4	µg/L	<0.4	<0.4
4-Nitrophenol	0.5	µg/L	<0.5	<0.5
5-Nitroacenaphthene	0.4	µg/L	<0.4	<0.4
Acenaphthene	0.2	µg/L	<0.2	<0.2
Acenaphylene	0.2	µg/L	<0.2	<0.2
Anthracene	0.2	µg/L	<0.2	<0.2
Benzo(a)anthracene	0.2	µg/L	<0.2	<0.2
Benzo(a)pyrene	0.01	µg/L	<0.01	<0.01
Benzo(b)fluoranthene	0.2	µg/L	<0.2	<0.2
Benzo(ghi)perylene	0.2	µg/L	<0.2	<0.2
Benzo(k)fluoranthene	0.2	µg/L	<0.2	<0.2
Biphenyl	0.4	µg/L	<0.4	<0.4
Bis(2-chloroethoxy)methane	0.4	µg/L	<0.4	<0.4
Bis(2-chloroethyl)ether	0.4	µg/L	<0.4	<0.4
Bis(2-chloroisopropyl)ether	0.4	µg/L	<0.4	<0.4
Bis(2-ethylhexyl)phthalate	0.4	µg/L	<0.4	<2
Butylbenzyl phthalate	0.4	µg/L	3.5	<0.4
Camphene	0.4	µg/L	<0.4	<0.4
Chrysene	0.2	µg/L	<0.2	<0.2
Dibenzo(a,h)anthracene	0.2	µg/L	<0.2	<0.2
Bis(2-ethylhexyl)phthalate	2	µg/L	9	<2
Diethylphthalate	0.4	µg/L	5.1	<0.4
Dimethylphthalate	0.4	µg/L	<0.4	<0.4
Di-n-butylphthalate	2	µg/L	<2	<2
Di-n-octylphthalate	0.4	µg/L	0.4	<0.4
Diphenylamine	0.4	µg/L	<0.4	<0.4
Fluoranthene	0.2	µg/L	<0.2	<0.2
Fluorene	0.2	µg/L	<0.2	<0.2
Hexachlorobenzene	0.4	µg/L	<0.4	<0.4
Hexachlorobutadiene	0.4	µg/L	<0.4	<0.4
Hexachlorocyclopentadiene	0.4	µg/L	<0.4	<0.4
Hexachloroethane	0.4	µg/L	<0.4	<0.4
Indeno(1,2,3-cd)pyrene	0.2	µg/L	<0.2	<0.2

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Indole	0.4	µg/L	11.7	<0.4
Isophorone	0.4	µg/L	<0.4	<0.4
Naphthalene	0.2	µg/L	<0.2	<0.2
Nitrobenzene	0.4	µg/L	<0.4	<0.4
N-Nitrosodi-n-propylamine	0.4	µg/L	<0.4	<0.4
Pentachlorophenol	0.5	µg/L	<0.5	<0.5
Perylene	0.2	µg/L	<0.2	<0.2
Phenanthrene	0.2	µg/L	<0.2	<0.2
Phenol	0.5	µg/L	8.6	<0.5
Diphenyl ether	0.4	µg/L	<0.4	<0.4
Pyrene	0.2	µg/L	<0.2	<0.2
Cresols (total)	1	µg/L	59	<1
Nonylphenols and Nonylphenol Ethoxylates				
Nonylphenols	0.1	µg/L	<0.1	<0.1
Nonylphenol Monoethoxylates	0.5	µg/L	<0.5	<0.5
Nonylphenol Diethoxylates	1.2	µg/L	<1	<1
Nonylphenol Triethoxylates	2	µg/L	<2	<2
t-Octylphenol	0.02	µg/L	<0.02	<0.02
t-Octylphenol Monoethoxylates	0.1	µg/L	<0.1	<0.1
t-Octylphenol Diethoxylates	0.2	µg/L	<0.2	<0.2
t-Octylphenol Triethoxylates	0.5	µg/L	<0.5	<0.5

NOTES:

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mg/L- milligrams/Litre

µg/L- micrograms/Litre

ng/L- nanograms/Litre

pg/L- picograms/Litre

*- two detection limits, matrix related

<- less than

NA- not analyzed

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