

CITY OF WINNIPEG
WATER & WASTE DEPARTMENT
LABORATORY SERVICES DIVISION

WEST-END WATER POLLUTION CONTROL CENTRE

7740 Wilkes Avenue

1997

STATISTICAL SUMMARY OF ANALYTICAL DATA (MONTHLY MEANS)

1997 MONTH	RAW SEWAGE FLOWS		BIOCHEMICAL OXYGEN DEMAND					TOTAL ORGANIC CARBON			TOTAL SUSPENDED SOLIDS			TOTAL KJELDAHL NITROGEN				TOTAL AMMONIA				NITRATE-NITRITE				TOTAL PHOSPHORUS			
	DAILY MEAN	MONTHLY TOTAL	Raw Sewage	Final Effluent		Conv. Lagoon Eff.		Raw Sewage	Final Effluent	Conv. Lag. Eff.	Raw Sewage	Final Effluent	Conv. Lag. Eff.	Raw Sewage	Final Effluent	Conv. Lag. Eff.	Primary Sludge	Raw Sewage	Final Effluent	Conv. Lag. Eff.	Primary Sludge	Raw Sewage	Final Effluent	Conv. Lag. Eff.	Raw Sewage	Final Effluent	Conv. Lag. Eff.	Primary Sludge	
	(ML/D)	(ML)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L N)	(mg/L N)	mg/Kg N	(mg/L N)	(mg/L N)	(mg/L N)	mg/Kg N	(mg/L N)	(mg/L N)	(mg/L N)	(mg/L P)	(mg/L P)	(mg/L P)	mg/Kg P	
JANUARY	25.0	774.3	198	<10	<10	22	<10	127	19	27	208	12	11	41.6	19.0	30.6		28.9	15.6	29.3		<0.04	6.31	0.00	6.9	3.6	5.1		
FEBRUARY	25.6	717.0	202	19	<10	16	<10	103	27	26	233	9	10	42.2	22.2	37.3		28.8	18.7	29.8		<0.04	10.27	0.26	6.9	4.2	5.0		
MARCH	29.3	909.7	194	20	0	17	0	124	23	27	236	14	12	39.8	20.9	35.5		26.8	16.8	31.3		<0.04	10.97	0.07	6.3	4.2	5.9		
APRIL	58.1	1,743.9	100	19	14	16	<10	63	25	26	217	12	15	19.5	12.1	20.0		10.8	6.0	15.1		1.63	6.01	0.68	3.1	2.1	3.1		
MAY	37.6	1,164.2	145	42	16	28	20	106	37	36	186	11	30	30.7	17.3	12.1		18.5	11.1	5.3		0.69	5.57	2.12	5.3	3.4	2.4		
JUNE	32.8	984.7	142	21	15	23	0	96	40	37	221	16	29	24.9	14.2	10.2		19.9	12.2	9.1		0.00	6.81	0.00	4.4	2.9	3.3		
JULY	35.2	1,091.5	133	28	15	30	<10	89	37	25	216	16	19	29.7	14.9	15.8		19.5	10.6	8.5		<0.04	8.76	2.17	5.0	3.1	4.2		
AUGUST	30.7	952.4	151	26	13	59	25	82	24	31	208	15	44	34.2	17.7	16.4		24.1	11.6	4.6		1.30	7.34	2.88	5.3	3.4	5.0		
SEPTEMBER	28.8	862.7	177	38	24	41	<10	85	27	21	220	51	23	38.9	28.1	21.1		23.9	18.1	13.7		<0.04	3.44	2.36	5.7	4.1	4.2		
OCTOBER	30.9	957.4	188	21	13	41	<10	120	28	25	247	18	18	37.2	25.3	17.9		24.6	12.5	4.7		<0.04	4.29	2.97	5.5	3.8	2.3		
NOVEMBER	29.1	872.3	170	33	15	18	<10	104	34	31	238	21	22	38.3	23.9	17.9		26.9	13.8	6.3		<0.04	7.94	6.02	5.8	4.3	2.5		
DECEMBER	27.0	838.3	223	41	17	NS	NS	100	36	NS	244	33	NS	42.5	28.4	NS		27.7	19.4	NS		0.12	6.55	NS	6.5	5.0	NS		
MEAN	32.5	989.0	168	28	14	28	11	100	30	28	223	19	21	34.9	20.3	21.3		23.4	13.9	14.3		0.75	7.02	1.77	5.6	3.7	3.9		

TOTAL 1997 FLOW (ML): 11,868

NS - NO SAMPLE

CBOD - Carbonaceous Biochemical Oxygen Demand