

Hawthorne

Set 1: 30-Apr-15

Sample ID	Unit	1	2	3	4	5
Ammonia	mg/L N	13.30	11.00	7.00	4.84	4.18
BOD	mg/L	317	320	309	313	302
Nitrate-N	mg/L N	0.020	0.020	0.020	0.020	0.020
Nitrate + Nitrite	mg/L N	0.070	0.070	0.070	0.070	0.070
Nitrite-N	mg/L N	0.010	0.017	0.010	0.010	0.010
Total Phosphorus	mg/L P	9.66	12.3	14.5	8.2	5.38
Total Kjeldahl Nitrogen	mg/L N	58.5	76.3	74.0	40.0	28.6
Total Nitrogen	mg/L N	58.5	76.3	74.0	40.0	28.6
Total Suspended Solids	mg/L	1360	2250	2400	1800	1070
E. Coli	MPN/100 mL	6,870,000	4,880,000	10,500,000	2,850,000	3,260,000
Fecal Coliform	MPN/100 mL	24,200,000	6,130,000	6,870,000	4,880,000	3,080,000
Temperature	°C	12.1	12.2	12.4	12.6	12.6
pH	units	7.52	7.05	7.1	7.15	7.2
Conductivity	mS/cm	526	439	490	400	375

Set 2: 6-May-15

Sample ID	Unit	1	2	3	4
Ammonia	mg/L N	3.51	3.60	2.54	2.39
BOD	mg/L	188	214	290	161
Nitrate-N	mg/L N	0.058	0.027	0.020	0.227
Nitrate + Nitrite	mg/L N	0.129	0.120	0.070	0.270
Nitrite-N	mg/L N	0.071	0.094	0.010	0.043
Total Phosphorus	mg/L P	2.21	2.08	2.05	1.06
Total Kjeldahl Nitrogen	mg/L N	12.2	10.2	9.9	5.5
Total Nitrogen	mg/L N	12.3	10.3	9.9	5.8
Total Suspended Solids	mg/L	1100	940	950	645
E. Coli	MPN/100 mL	2,610,000	1,010,000	1,410,000	1,250,000
Fecal Coliform	MPN/100 mL	3,260,000	3,080,000	4,110,000	1,850,000
Temperature	°C	13.2	13.2	13.2	13.2
pH	units	7.82	7.74	7.74	7.71
Conductivity	mS/cm	302	305	259	268

Set 3: 14-May-15

Sample ID	Unit	1	2
Ammonia	mg/L N	17.80	11.50
BOD	mg/L	440	250
Nitrate-N	mg/L N	0.020	0.020
Nitrate + Nitrite	mg/L N	0.070	0.070
Nitrite-N	mg/L N	0.010	0.010
Total Phosphorus	mg/L P	3.82	4.9
Total Kjeldahl Nitrogen	mg/L N	23.9	26.4
Total Nitrogen	mg/L N	23.9	26.4
Total Suspended Solids	mg/L	1220	740
E. Coli	MPN/100 mL	6,840,000	2,600,000
Fecal Coliform	MPN/100 mL	13,000,000	8,150,000
Temperature	°C	10.4	10.4
pH	units	7.66	7.68
Conductivity	mS/cm	600	580

Set 4: 14-May-15

Sample ID	Unit	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Ammonia	mg/L N	6.40	4.80	4.35	4.36	3.83	3.75	3.68	4.24	3.96	3.12	3.17	2.86	2.46	2.41	2.08	2.28	1.99	2.24	2.32	2.29
BOD	mg/L	216	173	155	89	91	74	62	24	26.8	28.1	30.3	26.4	22	25	20	23	20	20	43	20
Nitrate-N	mg/L N	0.020	0.020	0.020	0.194	0.231	0.270	0.309	0.451	0.483	0.466	0.471	0.478	0.492	0.481	0.476	0.506	0.534	0.555	0.601	0.714
Nitrate + Nitrite	mg/L N	0.070	0.070	0.175	0.241	0.261	0.301	0.342	0.488	0.521	0.505	0.509	0.516	0.528	0.517	0.512	0.543	0.571	0.594	0.642	0.760
Nitrite-N	mg/L N	0.010	0.010	0.101	0.047	0.030	0.031	0.032	0.037	0.038	0.038	0.039	0.038	0.036	0.036	0.037	0.038	0.037	0.039	0.040	0.046
Total Phosphorus	mg/L P	3.61	3.34	1.59	2.15	1.67	0.713	1.29	0.932	0.802	0.9	0.878	0.816	0.838	0.822	0.706	0.766	0.666	0.65	0.664	0.688
Total Kjeldahl Nitrogen	mg/L N	20.8	19.1	9.4	12.7	11.4	9.0	7.9	9.0	6.3	6.5	6.7	5.9	5.9	5.2	4.5	4.7	4.5	4.6	4.6	5.1
Total Nitrogen	mg/L N	20.8	19.1	9.6	12.9	11.6	9.3	8.2	9.4	6.8	7.0	7.2	6.4	6.4	5.7	5.0	5.1	5.2	5.0	5.2	5.8
Total Suspended Solids	mg/L	640	536	556	332	276	228	164	106	103	115	107	160	129	125	126	124	117	115	104	104
E. Coli	MPN/100 mL	1,620,000	2,280,000	1,260,000	1,990,000	1,110,000	857,000	1,330,000	785,000	457,000	638,000	717,000	530,000	583,000	728,000	410,000	399,000	393,000	435,000	464,000	455,000
Fecal Coliform	MPN/100 mL	4,610,000	5,170,000	5,790,000	3,450,000	2,480,000	3,870,000	1,920,000	1,790,000	1,480,000	1,920,000	1,860,000	2,600,000	1,880,000	2,190,000	1,620,000	1,070,000	1,990,000	1,590,000	799,000	3,870,000
Temperature	°C	10.4	10.4	10.4	10.40	10.40	10.40	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.60	10.60
pH	units	7.68	7.69	7.68	7.70	7.69	7.72	7.74	7.75	7.75	7.79	7.79	7.81	7.80	7.87	7.91	7.95	7.88	7.89	7.91	8.00
Conductivity	mS/cm	562	550	523	493	464	414	402	396	365	333	285	290	298	285	287	296	280	274	269	299

Set 5: 27-Jun-15

Sample ID	Unit	1	2	3	4	5	6	7	8	9	10	11
Ammonia	mg/L N	12.60	5.70	2.56	2.81	2.00	2.14	1.54	2.82	2.64	2.71	12.90
BOD	mg/L	181	258	266	170	132	105	90.8	106	78.4	58.8	126
Nitrate-N	mg/L N	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
Nitrate + Nitrite	mg/L N	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070
Nitrite-N	mg/L N	0.024	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
Total Phosphorus	mg/L P	2.87	3.66	3.84	2.85	2.83	1.89	1.85	1.89	1.5	1.4	3.1
Total Kjeldahl Nitrogen	mg/L N	18.8	20.6	18.4	13.4	12.3	10.8	8.7	8.6	8.2	7.9	21.9
Total Nitrogen	mg/L N	18.8	20.6	18.4	13.4	12.3	10.8	8.7	8.6	8.2	7.9	21.9
Total Suspended Solids	mg/L	420	764	900	564	452	316	252	215	156	130	230
E. Coli	MPN/100 mL	5,790,000	5,480,000	4,880,000	4,610,000	2,100,000	2,360,000	2,760,000	2,910,000	3,450,000	6,450,000	6,130,000
Fecal Coliform	MPN/100 mL	7,700,000	15,500,000	6,870,000	9,800,000	6,130,000	8,660,000	3,450,000	4,350,000	4,610,000	8,660,000	17,100,000
Temperature	°C	22	22	22	22	22	22	22	22	22	22	22
pH	units	6.8	6.88	6.9	6.93	6.91	6.95	6.95	7.12	7.22	7.20	7.28
Conductivity	mS/cm	810	540	380	330	346	362	381	380	392	388	386

Set 6: 27-Jun-15

Sample ID	Unit	12	13	14	15	16	17	18	19
Ammonia	mg/L N	12.20	1.24	4.51	2.10	3.89	4.31	4.75	4.58
BOD	mg/L	113	52.6	77.9	44	53.2	44	43.6	40.2
Nitrate-N	mg/L N	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
Nitrate + Nitrite	mg/L N	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070
Nitrite-N	mg/L N	0.011	0.010	0.010	0.010	0.010	0.010	0.010	0.010
Total Phosphorus	mg/L P	2.9	1.2	1.74	1.18	1.35	1.31	1.26	1.21
Total Kjeldahl Nitrogen	mg/L N	18.8	5.7	10.1	6.6	8.7	8.4	8.7	8.5
Total Nitrogen	mg/L N	18.8	5.7	10.1	6.6	8.7	8.4	8.7	8.5
Total Suspended Solids	mg/L	322	498	430	262	194	160	116	99
E. Coli	MPN/100 mL	15,500,000	959,000	1,520,000	1,370,000	2,250,000	2,850,000	2,380,000	2,600,000
Fecal Coliform	MPN/100 mL	25,900,000	4,610,000	8,160,000	6,870,000	5,790,000	9,800,000	7,270,000	10,500,000
Temperature	°C	22	22	22	22	22	22	22	22
pH	units	7.28	7.26	7.30	7.28	7.30	7.35	7.34	7.32
Conductivity	mS/cm	390	396	400	396	392	385	401	406

	Less than (minimum detection)
	Greater than (maximum detection)