March - 1985

Bench Sheets

119094

CE0035

Flow 2794500
Air Temp. - F° 30° SNOW! 4.03 1.15 Date 3-31/4-1 - 85

Sample	Before Primary	After Primary	Aeration Basin	Secondary
Temp. F°	78°	87° / 81°	D.O. = 3.4	84° / 78°
pH	8.53	7.69	8.11	8.10
Turbidity JTU	GRAB	GRAB	COMPOSITE	COMPOSITE
Filtered Wt. Original Wt.	202 / 23.8153 147 / 22.4102	66 / 21.6442 52 / 21.9529	503 / 22.1287 963 / 22.3756	56 / 22.5025 90 / 22.0363
Ave. Wt.	49 45 / 47	24 23 / 24	216 207 / 212	31 27 / 29
Ashed Wt. Original Wt.	75 / 23.8153 21 / 22.4102	8 / 21.6442 35 / 21.9529	352 / 22.1287 818 / 22.3756	32 / 22.5025 8 / 22.0363
Ave. Wt.	22 19 / 20.5	6 6 / 6	65 62 / 63.5	7 5 / 6
Solids	PPM #/day	PPM #/day	PPM x2.54	PPM #/day
T.S.S.	471 10949	96 2236	2120 5470	58 1351
T.F.S.	205 4776	24 559	635 1638	12 280
T.V.S.	265 6173	72 1677	1485 3832	46 1071
		TOTAL SOLIDS		
Final Wt. Tare Wt.	2263 / 51.1956	8211 / 53.7955	920 / 51.1183	7070 / 48.6867
PPM	307 / 1228	256 / 102.4	737 / 2948	203 / 812
	10949 - 2236 = 8713 = 79.6 P' T.S.S. % Red.	SET SOLIDS	5470 - 1351 = 4119 = 75.3 S' T.S.S. % Red.	Overall % Red. / T.S.S.
	P' JTU % Red.	48 - 40 = 8 mg/l	Dissolved Solids 754	JTU 10949 - 1351 = 9598 = 87.6
	B.P. Total Solids # Day	Hartman		

S.I. 21.0300 23 23 20.6339 64 25

24

S.II. 23.9102 202 20 23.5103 23 20

20

Sunday

Flow 2636300 403 1.15 Date 3-30/31-85

Air Temp. - F° 32° Rain

Sample	Before Primary	After Primary	Aeration Basin	Secondary
Temp. F°		86° / 80°	D.O. = 3.6	83° / 77°
pH			8.53	8.24
Turbidity JTU			COMPOSITE	COMPOSITE
Filtered Wt. Original Wt.			258 420 21.4447 22.7137	17 15 23.4044 21.7075
Ave. Wt.			211 283 247	23 25 24
Ashed Wt. Original Wt.			122 233 21.4447 22.7137	55 83 23.4644 21.7075
Ave. Wt.			75 94 84	11 8 10
Solids	PPM #/day	PPM #/day	PPM x 2.58	PPM #/day
T.S.S.			2470 6373	48 1058
T.F.S.			860 2219	20 441
T.V.S.			1610 4154	28 617
		TOTAL SOLIDS		
Final Wt. Tare Wt.			8426 50.7664	6149 50.5957
PPM			762 3048	192 76.8
		SET SOLIDS	6373 - 1058 5315 = 83.4	Overall % Red.
	P' T.S.S. % Red.		S' T.S.S. % Red.	T.S.S.
	P' JTU % Red.	46 - 38 8 mg/l	Dissolved Solids 720	JTU
	B.P. Total Solids # Day	Hautman		

S.I. 22.9060 (80, 20) 22.3799 (824, 25)

23

S.II. 22.7218 (32, 14) 21.5423 (46, 23)

19

Saturday

Flow 2006200 4.03 1.15 Date 3-29/30-85

Air Temp. - F° 30°

Sample	Before Primary	After Primary	Aeration Basin	Secondary
Temp. F°		80°/82°	D.O. = 3.7	86°/80°
pH			8.18	8.25
Turbidity JTU			COMPOSITE	COMPOSITE
Filtered Wt. / Original Wt.			854 / 23.4660 — 349 / 22.8145	42 / 22.3429 — 59 / 21.7846
Ave. Wt.			194 — 204 — 199	13 — 13 — 13
Ashed Wt. / Original Wt.			737 / 23.4660 — 227 / 22.8145	38 / 22.3429 — 56 / 21.7846
Ave. Wt.			77 — 82 — 80	9 — 9 — 9
Solids	PPM / #/day	PPM / #/day	PPM x2.58	PPM / #/day
T.S.S.			1990 / 5134	26 / 610
T.F.S.			800 / 2064	18 / 422
T.V.S.			1190 / 3070	8 / 188
		TOTAL SOLIDS		
Final Wt. / Tare Wt.			9051 / 53.8891	639 / 51.9482
PPM			760 / 3040	157 / 628
		SET SOLIDS	5134 − 610 = 4524 = 88.1	Overall % Red.
	P' T.S.S. % Red.		S' T.S.S. % Red.	T.S.S.
	P' JTU % Red.	28 − 14 = 14 mg/l	Dissolved Solids 602	JTU
	B.P. Total Solids # Day	Hartman		

S. I. 21.6373 (83, 10) 22.3372 (90, 18)

14

S. II. 23.4644 (50, 6) 21.7075 (82, 7)

7

Flow 2834600
Air Temp. - F° 38° 4.03 1.15

Date 3-28/29-85

Sample	Before Primary	After Primary	Aeration Basin	Secondary
Temp. F°	76°	89° / 83°	D.O. = 3.1	88° / 82°
pH	8.12	8.09	8.19	8.23
Turbidity JTU	GRAB	GRAB	COMPOSITE	COMPOSITE
Filtered Wt. Original Wt.	8050 / 22.7981 — 762 / 20.0699	50 / 22.7130 — 75 / 21.4053	591 / 22.5385 — 663 / 21.4482	58 / 21.3643 — 67 / 22.6251
Ave. Wt.	69 / 63 — 66	20 / 22 — 21	206 / 181 — 194	15 / 16 — 16
Ashed Wt. Original Wt.	8020 / 22.7981 — 734 / 20.0699	40 / 22.7130 — 67 / 21.4053	451 / 22.5385 — 541 / 21.4482	9 / 21.3643 — 63 / 22.6251
Ave. Wt.	39 / 35 — 37	10 / 14 — 12	66 / 59 — 63	6 / 12 — 9
Solids	PPM / #/day	PPM / #/day	PPM x 2.58	PPM / #/day
T.S.S.	660 / 15651	84 / 1992	1940 / 5005	32 / 759
T.F.S.	370 / 8774	48 / 1138	630 / 1625	18 / 427
T.V.S.	290 / 6877	36 / 854	1310 / 3380	14 / 332
		TOTAL SOLIDS		
Final Wt. Tare Wt.	576 / 51.6266	558 / 49.4320	1059 / 52.0344	240 / 52.7055
PPM	310 / 12.40	238 / 9.52	715 / 2.860	185 / 7.40
	15651 − 1992 = 13659 = 87.3 P' T.S.S. % Red.	SET SOLIDS	5005 − 759 = 4249 = 84.9 S' T.S.S. % Red.	Overall % Red. / T.S.S.
	P' JTU % Red.	44 − 32 = 12 mg/l	Dissolved Solids 708	JTU 15651 − 759 = 14892 = 95.2
	B.P. Total Solids # Day	Hatan		

S.I. 7002 21.0984 18 60 21.3335 25

22

S.II. 503 22.0993 10 220 23.2198 22

16

Flow 2609500
Air Temp. - F° 45' 403 1.15 Date 3.27/28-85

Sample	Before Primary	After Primary	Aeration Basin	Secondary
Temp. F°	80°	90°/84°	D.O. = 3.0	88°/82°
pH	8.57	8.20	8.12	8.24
Turbidity JTU	GRAB	GRAB	COMPOSITE	COMPOSITE
Filtered Wt. Original Wt.	98 172 22.7217 23.5092	35 221 21.8307 23.9182	602 586 22.3378 22.0371	54 64 20.6347 22.7152
Ave. Wt.	81 80 81	28 39 34	224 215 220	7 12 10
Ashed Wt. Original Wt.	52 128 22.7217 23.5092	19 99 21.8307 23.9182	444 434 22.3378 22.0371	8 3 20.6347 22.7152
Ave. Wt.	35 36 36	12 17 15	66 63 65	1 1 1
Solids	PPM #/day	PPM #/day	PPM x2.58	PPM #/day
T.S.S.	810 17653	136 2964	2220 5728	20 436
T.F.S.	360 7846	60 1308	650 1677	2 44
T.V.S.	450 9807	76 1656	1570 4051	18 392
		TOTAL SOLIDS		
Final Wt. Tare Wt.	627 53.2284	4261 55.3996	2.0271 51.9489	851 50.7666
PPM	343 1372	265 1060	782 312.8	185 740
	17653 - 2964 14689 = 83.2 P' T.S.S. % Red.	SET SOLIDS	5728 - 436 5292 = 92.4 S' T.S.S. % Red.	Overall % Red. T.S.S.
	P' JTU % Red.	54 - 42 12 mg/l	Dissolved Solids 720	JTU 17653 - 436 17217 = 97.5
	B.P. Total Solids # Day	[signature]		

	96	48
S I.	21.7067	21.9525
	31	23

27

	53	.62
S.II.	21.3643	22.6251
	20	21

21

Flow 2724200 4.03 1.15 Date 3-30/27-85

Air Temp. - F° 45' Rain

Sample	Before Primary	After Primary	Aeration Basin	Secondary
Temp. F°			D.O. = 3.6	
pH		8.04	7.71	8.02
Turbidity JTU		GRAB	COMPOSITE	COMPOSITE
Filtered Wt. / Original Wt.		64 / 23.4142 — 76 / 22.8151	658 / 22.3434 — 22.5028	91 / 21.6373 — 71 / 21.7864
		22 — 27	304 — 497	18 — 17
Ave. Wt.		25	201	18
Ashed Wt. / Original Wt.		52 / 23.4142 — 65 / 23.8151	504 / 22.3434 — 40 / 22.5028	82 / 21.6373 — 63 / 21.7864
		10 — 14	70 — 68	9 — 9
Ave. Wt.		12	69	9
Solids	PPM — #/day	PPM — #/day	PPM — x2.58	PPM — #/day
T.S.S.		100 — 2280	2010 — 5186	36 — 821
T.F.S.		48 — 1094	690 — 1780	18 — 410
T.V.S.		52 — 1186	1320 — 3406	18 — 411
		TOTAL SOLIDS		
Final Wt. / Tare Wt.		463 / 51.1170	899 / 50.6133	8130 / 53.7935
PPM		293 / 1172	766 / 3064	195 / 780
		SET SOLIDS	5186 - 821 = 4365 = 84.2	Overall % Red.
	P' T.S.S. % Red.		S' T.S.S. % Red.	T.S.S.
	P' JTU % Red.	38 - 18 = 20 mg/l	Dissolved Solids 744	JTU
	B.P. Total Solids # Day	Hartman		

Set. I.	29 23.2306 23	95 22.9181 14

19

II.	6 21.4060 6	503 21.4493 10

9

Tuesday

Flow 2615800
Air Temp. - F° 35°

4.03 1.15

Date 3-25/26-85

Sample	Before Primary	After Primary	Aeration Basin	Secondary
Temp. F°	80°	86°/80°	D.O. = 3.7	78°/72°
pH	8.7	8.6	8.5	8.4
Turbidity JTU	GRAB	GRAB	COMPOSITE	COMPOSITE
Filtered Wt. Original Wt.	537 8076 21.6450 22.7992	90 61 23.6670 21.3344	302 524 22.4098 22.1287	705 21 21.5694 22.3804
Ave. Wt.	87 84 86	20 17 19	204 237 221	11 17 14
Ashed Wt. Original Wt.	94 8033 21.6450 22.7992	5 9 23.6670 21.3344	167 365 22.4098 22.1287	9 12 21.5694 22.3804
Ave. Wt.	44 41 43	5 5 5	69 78 74	5 8 7
Solids	PPM #/day	PPM #/day	PPM x 2.58	PPM #/day
T.S.S.	860 18814	76 1663	2210 5702	28 613
T.F.S.	430 9407	20 438	740 1909	14 306
T.V.S.	430 9407	56 1225	1470 3793	14 307
		TOTAL SOLIDS		
Final Wt. Tare Wt.	2349 51.1947	356 54.4088	7573 48.6849	6153 50.5954
PPM	402 1608	268 1072	724 2896	199 796
	18814 - 1663 17151 = 91.2	SET SOLIDS	5702 - 613 5089 = 89.2	Overall % Red.
	P' T.S.S. % Red.	40 - 24 16 mg/l	S' T.S.S. % Red.	T.S.S.
	P' JTU % Red.		Dissolved Solids 768	JTU 18814 - 613 18201 = 96.7
	B.P. Total Solids # Day	Hartman		

Set. I. 22.5436 57 21 20.0709 27 18

20

II. 22.4851 62 11 21.6987 99 12

12

Flow 1730800
Air Temp. - F° 40°

Monday
Date 3-24/25-85

Sample	Before Primary	After Primary	Aeration Basin	Secondary
Temp. F°			D.O. =	
pH				
Turbidity JTU				
Filtered Wt. Original Wt.	(MILL DOWN)			
Ave. Wt.				
Ashed Wt. Original Wt.				
Ave. Wt.				
Solids	PPM #/day	PPM #/day	PPM	PPM #/day
T.S.S. T.F.S. T.V.S.				
		TOTAL SOLIDS		
Final Wt. Tare Wt.				
PPM				
		SET SOLIDS		Overall % Red.
	P' T.S.S. % Red.		S' T.S.S. % Red.	T.S.S.
			Dissolved Solids	JTU
	P' JTU % Red.			
	B.P. Total Solids # Day	Hartman		

Sunday

Flow 1859500
Air Temp. - F° 40°

4.03 1.15

Date 3-23/24-85

Sample	Before Primary	After Primary	Aeration Basin	Secondary
Temp. F°		88°	D.O. =	82°
pH				
Turbidity JTU			COMPOSITE	COMPOSITE
Filtered Wt. Original Wt.				
Ave. Wt.				
Ashed Wt. Original Wt.	(MILL DOWN)			
Ave. Wt.				
Solids	PPM #/day	PPM #/day	PPM x2.58	PPM #/day
T.S.S. T.F.S. T.V.S.				
		TOTAL SOLIDS		
Final Wt. Tare Wt.				
PPM				
		SET SOLIDS		Overall % Red.
	P' T.S.S. % Red.		S' T.S.S. % Red.	T.S.S.
	P' JTU % Red.	mg/l	Dissolved Solids	JTU
	B.P. Total Solids # Day	Hartman		

S. I.

S. II.

Saturday

Flow 2790800
Air Temp. - F° 34°

4.03 1.15

Date 3-22/23-85

Sample	Before Primary	After Primary	Aeration Basin	Secondary
Temp. F°		87°/81°	D.O. = 3.8	85°/79°
pH			8.29	8.3
Turbidity JTU			COMPOSITE	GRAB
Filtered Wt. Original Wt.			988 331 22.6791 22.7126	53 98 23.8147 23.5093
Ave. Wt.			197 205 201	6 5 6
Ashed Wt. Original Wt.			865 99 22.6791 22.7126	52 5 23.8147 23.5093
Ave. Wt.			74 73 74	5 2 4
Solids	PPM #/day	PPM #/day	PPM x2.58	PPM #/day
T.S.S.			2010 5186	12 281
T.F.S.			740 1909	8 187
T.V.S.			1270 3277	4 94
		TOTAL SOLIDS		
Final Wt. Tare Wt.			892 50.6141	1.0117 50.9953
PPM			751 3004	164 656
		SET SOLIDS	5186 - 281 4905 = 94.6	Overall % Red.
	P' T.S.S. % Red.		S' T.S.S. % Red.	T.S.S.
	P' JTU % Red.	14 - 4 10 mg/l	Dissolved Solids 644	JTU
	B.P. Total Solids # Day	Hartman		Secondary sampler was turned OFF.

Set. I.	21.3450	21.4059
	5	8
	7	
Set. II.	22.5395	21.4491
	3	1
	2	

Flow 2087600 403 115 Date 3-21/22-85

Air Temp. - F° 32°

Sample	Before Primary	After Primary	Aeration Basin	Secondary
Temp. F°	81°	91°/85°	D.O. = 3.5	88°/82°
pH	8.46	7.69	8.22	8.26
Turbidity JTU	GRAB	GRAB	COMPOSITE	COMPOSITE
Filtered Wt. / Original Wt.	60 / 22.0507; 825 / 22.3770	78 / 22.0266; 62 / 21.9540	9892 / 20.9928; 333 / 22.9196	8 / 21.7185; 32 / 22.7225
	53; 55	12; 12	124; 137	3; 7
Ave. Wt.	54	12	131	5
Ashed Wt. / Original Wt.	16 / 22.0507; 80 / 22.3770	22.6266; 21.9540	168 / 20.9928; 256 / 22.9196	21.7185; 22.7225
	9; 10		40; 39	
Ave. Wt.	10	0	40	0
Solids	PPM / #/day	PPM / #/day	PPM / x2.58	PPM / #/day
T.S.S.	540 / 13031	48 / 1158	1310 / 3380	10 / 241
T.F.S.	100 / 2422	0 / 0	400 / 1032	0 / 0
T.V.S.	440 / 10609	48 / 1158	910 / 2348	10 / 241
		TOTAL SOLIDS		
Final Wt. / Tare Wt.	332 / 47.6040	9121 / 53.8814	974 / 51.6266	846 / 50.7659
PPM	282 / 1168	227 / 768	768 / 2832	187 / 743
	13031 - 1158 = 11873 = 91.1 P' T.S.S. % Red.	SET SOLIDS	3380 - 241 = 3139 = 92.9 S' T.S.S. % Red.	Overall % Red. T.S.S.
	P' JTU % Red.	36 - 0 = 36 mg/l	Dissolved Solids 738	JTU 13031 - 241 = 12790 = 98.2
	B.P. Total Solids # Day	Hartman		

S. I.	402 21.0366 16	85 21.7865 20

18

S. II.	22.3915 —	0 21.5662 —

0

Flow 2899300 4.03 115 Date 3-20/21-85

Air Temp. - F° 25°

Sample	Before Primary	After Primary	Aeration Basin	Secondary
Temp. F°	80°	71° / 85°	D.O. = 3.4	88° / 82°
pH	8.00	7.95	8.22	8.13
Turbidity JTU	GRAB	GRAB	COMPOSITE	COMPOSITE
Filtered Wt. / Original Wt.	633 / 21.4548; 183 / 21.4081	401 / 22.5441; 12 / 21.8311	344 / 22.7158; 652 / 22.3451	8 / 22.0374; 8 / 23.2215
Ave. Wt.	85, 102 → 94	0, 1 → 1	186, 201 → 194	4, 3 → 4
Ashed Wt. / Original Wt.	61 / 21.4548; 101 / 21.4081	22.5441; 21.8311	211 / 22.7158; 509 / 22.3451	67 / 22.0374; 11 / 23.2215
Ave. Wt.	13, 20 → 17	— , — → 0	53, 58 → 56	—
Solids	PPM / #/day	PPM / #/day	PPM / x2.50	PPM / #/day
T.S.S.	940 / 22762	4 / 97	1940 / 5005	8 / 194
T.F.S.	170 / 4117	0 / 0	560 / 1445	0 / 0
T.V.S.	770 / 18645	4 / 97	1380 / 3560	8 / 194
		TOTAL SOLIDS		
Final Wt. / Tare Wt.	6292 / 50.5826	475 / 52.1307	4823 / 52.3999	2348 / 52.2160
PPM	406 (1864)	268 (1072)	824 (3296)	186 (744)
	22762 − 97 = 22665 = 99.6 P' T.S.S. % Red.	SET SOLIDS	5005 − 194 = 4811 = 96.1 S' T.S.S. % Red.	Overall % Red. T.S.S.
	P' JTU % Red.	16 − 0 = 16 mg/l	Dissolved Solids (736)	JTU 22762 − 194 = 22560 = 99.1
	B.P. Total Solids # Day	Fantom		

S I.	801 22. 4791 10	17 21. 5711 6
	8	
S II.	3 21. 3667 —	39 22. 5044 —
	0	

Flow 2817600
Air Temp. - F° 35°

4.03 1.15

Date 3-17/20-85

Sample	Before Primary	After Primary	Aeration Basin	Secondary
Temp. F°	79°	91°/85°	D.O. = 3.0	80°/86°
pH	8.16	7.86	8.10	8.17
Turbidity JTU	GRAB	GRAB	COMPOSITE	COMPOSITE
Filtered Wt. / Original Wt.	852 / 20.0706; 8144 / 22.7983	10 / 22.0800; 144 / 22.7134	686 / 21.6454; 341 / 22.4103	29 / 23.5014; 57 / 23.8195
Ave. Wt.	146; 161; 154	10; 10; 10	281; 244; 236	15; 12; 14
Ashed Wt. / Original Wt.	45 / 20.0706; 8124 / 22.7983	6 / 22.0800; 43 / 22.7134	544 / 21.6454; 199 / 22.4103	7 / 23.5014; 52 / 23.8195
Ave. Wt.	39; 41; 40	6; 9; 8	90; 96; 93	3; 7; 5
Solids	PPM / #/day	PPM / #/day	PPM / X2.58	PPM / #/day
T.S.S.	1540 / 30262	250 / 5887	2350 / 6140	28 / 659
T.F.S.	942 / 22181	32 / 754	930 / 2399	10 / 235
T.V.S.	598 / 14081	218 / 5133	1450 / 3741	18 / 424
		TOTAL SOLIDS		
Final Wt. / Tare Wt.	8482 / 53.7933	536 / 53.2277	2.0316 / 51.9478	227 / 52.7051
PPM	549 / 2196	259 / 1036	838 / 3352	176 / 704
	30262 - 5887 = 30375 = 83.8 P' T.S.S. % Red.	SET SOLIDS	6140 - 659 = 5481 = 89.3 S' T.S.S. % Red.	Overall % Red. T.S.S.
	P' JTU % Red.	28 - 0 = 28 mg/l	Dissolved Solids 676	JTU 30262 - 659 = 35603 = 98.2
	B.P. Total Solids # Day	autan		* Gradow would not drain in Before Primary sample.

CC3C8

SI.	20.6344 (60)	23.6672 (83)
	16	11
	14	
SII.	23.5214 (1)	22.6132 (0)
	–	–
	0	

Flow 2834000
Air Temp. - F° 30°

4.03 1.15

Tuesday
Date 3-19-85

Sample	Before Primary	After Primary	Aeration Basin	Secondary
Temp. F°		90° / 84°	D.O. = 3.8	87° / 81°
pH	6.54	8.07	8.05	8.21
Turbidity JTU	GRAB	GRAB	COMPOSITE	COMPOSITE
Filtered Wt. / Original Wt.	404 / 21.3361 — 501 / 22.5451	76 / 21.4066 — 43 / 22.3835	190 / 21.1300 — 847 / 23.4654	63 / 22.9072 — 9 / 22.3301
Ave. Wt.	93 — 90 — 47	10 — 8 — 9	190 — 193 — 192	11 — 8 — 10
Ashed Wt. / Original Wt.	6 / 21.3361 — 7 / 22.5451	- / 21.4066 — - / 22.3835	62 / 21.1300 — 716 / 23.4654	- / 22.9072 — - / 22.3301
Ave. Wt.	5 — 6	0	62 — 62 — 62	0
Solids	PPM / #/day	PPM / #/day	PPM / x 2.58	PPM / #/day
T.S.S.	470 / 11106	36 / 851	1920 / 4954	70 / 473
T.F.S.	60 / 1418	0 / 0	620 / 1600	0 / 0
T.V.S.	410 / 9688	36 / 851	1300 / 3354	20 / 473
Final Wt. / Tare Wt.	589 / 49.4314	TOTAL SOLIDS 565 / 52.0345	4675 / 55.3908	346 / 51.1178
PPM	275 / 1100	220 / 880	767 / 3068	168 / 672
	11106 - 851 = 10255 = 92.3 P' T.S.S. % Red.	SET SOLIDS	4954 - 473 = 4481 = 90.5 S' T.S.S. % Red.	Overall % Red. T.S.S.
	P' JTU % Red.	16 - 0 = 16 mg/l	Dissolved Solids 652	JTU 11106 - 473 = 10633 = 95.7
	B.P. Total Solids # Day	Hartman		

Set. I. 22.6181 21.4521

8 7

8

II. 21.7003 22.7861

0 57

0

D.O.
Pipe to River
5.9 mg/L

Monday

Flow 2825600 4.03 1.15 Date 3-17/18-85

Air Temp. - F° 18°

Sample	Before Primary	After Primary	Aeration Basin	Secondary
Temp. F°	81°	90° / 84°	D.O. = 4.1	85° / 79°
pH	8.12	8.24	8.38	8.26
Turbidity JTU	GRAB	GRAB	COMPOSITE	GRAB
Filtered Wt. Original Wt.	(10) 126 96 21.7079 21.3652	(25) 17 8002 22.6500 22.7988	(10) 413 8031 22.7217 21.7855	(50) 58 8 20.6349 23.8150
Ave. Wt.	47 44 46	17 14 16	196 182 189	9 8 9
Ashed Wt. Original Wt.	100 74 21.7079 21.3652	13 8000 22.6500 22.7988	300 932 22.7217 21.7855	59 3 20.6349 23.8150
Ave. Wt.	21 22 22	13 12 13	83 77 80	10 3 7
Solids	PPM #/day	PPM #/day	PPM x 2.58	PPM #/day
T.S.S.	460 10870	64 1512	1890 4876	18 425
T.F.S.	220 5199	52 1229	800 2064	14 331
T.V.S.	240 5671	12 283	1090 2812	4 94
		TOTAL SOLIDS		
Final Wt. Tare Wt.	6593 50.5819	399 51.1200	2084 51.1947	641 51.9484
PPM	774 3096	199 796	737 2748	157 628
	10870 - 1512 = 9358 = 86.1 P' T.S.S. % Red.	SET SOLIDS	4876 - 425 = 4451 = 91.3 S' T.S.S. % Red.	Overall % Red. T.S.S.
	P' JTU % Red.	16 - 0 = 16 mg/l	Dissolved Solids 610	JTU 10870 - 425 = 10445 = 96.1
	B.P. Total Solids # Day	[signature]		* Secondary Sampler Not Working - Took Grab Sample

Set. I.	23.4052 (62, 10)	22.3392 (8, 6)
	8	
II.	22.6831 (26, —)	23.2212 (12, —)
	6	

Flow 2811300
Air Temp. - F° 30°

4.03 1.15

Date Sunday 3-16/17-85

Sample	Before Primary	After Primary	Aeration Basin	Secondary
Temp. F°		80°/82°	D.O. = 3.4	85°/79°
pH			8.19	8.37
Turbidity JTU			COMPOSITE	COMPOSITE
Filtered Wt. Original Wt.			488 572 22.6255 22.5395	64 65 22.5036 22.3443
Ave. Wt.			235 177 201	28 22 25
Ashed Wt. Original Wt.			551 468 22.6255 22.5395	49 56 22.5036 22.3443
Ave. Wt.			96 73 85	13 13 13
Solids	PPM #/day	PPM #/day	PPM x 2.58	PPM #/day
T.S.S.			2010 5186	50 1173
T.F.S.			850 2193	24 614
T.V.S.			1160 2993	24 559
		TOTAL SOLIDS	(24)	(35)
Final Wt. Tare Wt.			8359 50.7641	4177 52.3983
PPM			318 2872	174 770
	P' T.S.S. % Red.	SET SOLIDS	5186 1173 4013 = 77.4	Overall % Red. T.S.S.
	P' JTU % Red.	48 28 20 mg/l	Dissolved Solids 926	JTU
	B.P. Total Solids # Day	Hartman		

I. 22.9645 (70, 25) 21.0308 (31, 23)

24

II. 21.6474 (91, 17) 21.4088 (98, 10)

14

Flow 2853100
Air Temp. - F° 35'

4.03 1.15

Date Saturday 3-15/16-85

Sample	Before Primary	After Primary	Aeration Basin	Secondary
Temp. F°		89°/83°	D.O. = 3.1	88°/82°
pH			6.26	8.3
Turbidity JTU			COMPOSITE	COMPOSITE
Filtered Wt. Original Wt.			(10) 910 682 22.4784 21.9533	(50) 58 113 22.7144 22.4098
Ave. Wt.			126 149 138	14 15 15
Ashed Wt. Original Wt.			831 93 22.4784 21.9533	53 112 22.7144 22.4098
Ave. Wt.			47 60 54	9 14 12
Solids	PPM #/day	PPM #/day	PPM x2.58	PPM #/day
T.S.S.			1380 3560	30 714
T.F.S.			540 1393	24 571
T.V.S.			840 2167	6 143
		TOTAL SOLIDS	(25)	(25)
Final Wt. Tare Wt.			589 52.7043	430 51.6246
PPM			546 2184	184 736
		SET SOLIDS	3560 - 714 = 2846 = 80.0	Overall % Red.
	P' T.S.S. % Red.		S' T.S.S. % Red.	T.S.S.
	P' JTU % Red.	24 - 16 = 8 mg/l	Dissolved Solids 706	JTU
	B.P. Total Solids # Day	Hentman		

C53402

I. 22.3754 (67, 13) 22.0308 (79, 11)

12

II. 23.9196 (207, 11) 22.1292 (7, 5)

8

Friday

Flow 2754400 4.03 1.15 Date 3-14/15-85

Air Temp. - F° 30°

Sample	Before Primary	After Primary	Aeration Basin	Secondary
Temp. F°	78°	85° / 79°	D.O. = 3.8	82° / 76°
pH	8.26	8.04	8.16	8.15
Turbidity JTU	GRAB	GRAB	COMPOSITE	COMPOSITE
Filtered Wt. Original Wt.	(15) 79 23.5112 83 20.8922	(25) 25 21.5711 83 22.9071	(10) 471 21.4578 595 21.6392	(50) 55 22.7144 34 20.0724
Ave. Wt.	67 61 64	14 12 13	193 203 198	11 10 11
Ashed Wt. Original Wt.	44 23.5112 51 20.8922	21 21.5711 82 22.9071	463 21.4578 475 21.6392	7 22.7144 9 20.0724
Ave. Wt.	32 29 31	10 11 11	85 81 83	3 5 4
Solids	PPM #/day	PPM #/day	PPM X 2.58	PPM #/day
T.S.S.	640 14696	52 1194	1980 5108	22 505
T.F.S.	310 7118	44 1010	830 2141	8 184
T.V.S.	330 7578	8 184	1150 2967	14 321
		TOTAL SOLIDS		
Final Wt. Tare Wt.	703 49.6076	1660 53.1248	3393 52.2154	9244 53.8886
PPM	697 1394	412 824	1239 2478	358 716
	14696 - 1194 13502 = 91.9 P' T.S.S. % Red.	SET SOLIDS	5108 - 505 4603 = 90.1 S' T.S.S. % Red.	Overall % Red. T.S.S.
	P' JTU % Red.	34 - 0 34 mg/l	Dissolved Solids 690	JTU 14696 - 505 14464 = 98.4
	B.P. Total Solids # Day	Hartman		

C53403

Set. I 21. 3381 (94, 13) 22. 5466 (93, 27)

17

Set II 21. 4569 (7) 22. 0189 (8)

Thursday

Flow 2050300

Air Temp. - F° 40°

Date 3-13/14-85

Sample	Before Primary	After Primary	Aeration Basin	Secondary
Temp. F°	74°	65°/79°	D.O. = 4.1	84°/78°
pH	8.76	8.52	8.08	8.54
Turbidity JTU	GRAB	GRAB	COMPOSITE	COMPOSITE
Filtered Wt.	(10)	(25)	(20)	50
Original Wt.	8007 235 21.7884 21.7100	705 408 21.3685 20.6387	30005 844 22.9872 23.6716	5 9 22.8014 22.6523
Ave. Wt.	123 135 129	20 21 21	133 128 131	5 6 6
Ashed Wt. Original Wt.	930 46 21.7884 21.7100	96 401 21.3685 20.6387	929 47 22.9872 23.6716	4 3 22.8014 22.6523
Ave. Wt.	46 46 46	11 14 13	57 51 54	— — 1
Solids	PPM #/day	PPM #/day	PPM ×2.59	PPM #/day
T.S.S.	1290 28544	84 1859	1310 3380	12 266
T.F.S.	460 10179	52 1151	540 1393	1 0
T.V.S.	830 18365	32 708	770 1987	12 266
		TOTAL SOLIDS		
Final Wt. Tare Wt.	7210 50.6128	570 54.4085	8084 48.6842	10302 50.9947
PPM	1082 2164	485 970	1242 2484	355 710
	28544 - 1859 26685 = 93.5 P' T.S.S. % Red.	SET SOLIDS	3380 266 3114 = 92.1 S' T.S.S. % Red.	Overall % Red. T.S.S.
	P' JTU % Red.	8 - 0 8 mg/l	Dissolved Solids 698	JTU 28544 - 266 28278 = 99.1
	B.P. Total Solids # Day	Hartman		

Set. I. 22.7176^{7} 22.5095^{5}

7 −

4

II. 22.7247^{2} 23.8179^{2}

− −

Wednesday

Flow 2752800 4.03 1.15 Date 3-12/13-85

Air Temp. - F° 35°

Sample	Before Primary	After Primary	Aeration Basin	Secondary
Temp. F°	65°	80°/82°	D.O. = 3.7	85°/79°
pH	8.22		8.33	8.29
Turbidity JTU	GRAB	GRAB	COMPOSITE	COMPOSITE
Filtered Wt. Original Wt.	(10) 82 22.6300 / 503 22.5419	(5) 321 23.0282 / 742 23.4688	(10) 463 22.1326 / 501 21.8345	(50) 43 22.4737 / 21.4101
Ave. Wt.	82 / 84 — 83	65 / 55 — 60	137 / 156 — 147	6 / 7 — 7
Ashed Wt. Original Wt.	45 22.6300 / 46 22.5419	311 23.0282 / 727 23.4688	72 22.1326 / 97 21.8345	30 22.4737 / 96 21.4101
Ave. Wt.	45 / 47 — 46	49 / 39 — 44	46 / 52 — 49	- / - — 0
Solids	PPM / #/day	PPM / #/day	PPM x 258	PPM / #/day
T.S.S.	830 / 19059	240 / 5511	1470 / 3790	14 / 321
T.F.S.	460 / 10563	176 / 4041	490 / 1264	0 / 0
T.V.S.	370 / 8496	64 / 1470	980 / 2526	14 / 321
Final Wt. Tare Wt.	6565 / 50.5828	TOTAL SOLIDS 625 / 49.4032	5407 / 55.4000	717 / 52.0330
PPM	737 / 1474	593 / 1186	1407 / 2814	387 / 774
	19059 - 5511 = 13548 : 71.1 P' T.S.S. % Red.	SET SOLIDS	3790 - 321 = 3469 : 91.5 S' T.S.S. % Red.	Overall % Red. T.S.S.
	P' JTU % Red.	12 - 0 = 12 MA/l	Dissolved Solids 760	JTU 19059 - 321 = 18738 : 98.3
	B.P. Total Solids # Day	Hartman		

Set. I.	22.3449 (56, 7)		22.0794 (99, 5)
		6	
II.	22.5314 (11, –)		22.0401 (399, –)
		0	

Tuesday

Flow 2716100 4.03 · 1.15 Date 3-11/12-85

Air Temp. - F° 36°

Sample	Before Primary	After Primary	Aeration Basin	Secondary
Temp. F°	78°	88°/82°	D.O. = 3.2	85°/79°
pH	8.72	8.00	8.25	8.28
Turbidity JTU	GRAB	GRAB	COMPOSITE	COMPOSITE
Filtered Wt.	(10)	(25)	(10)	(50)
Original Wt.	732 684 21.9562 21.6532	35 50 21.4119 23.2240	279 159 22.4146 21.7023	91 02 22.3875 23.9245
Ave. Wt.	170 152 161	13 10 13	119 136 128	16 17 17
Ashed Wt.				
Original Wt.	98 68 21.9562 21.6532	23 2 21.4119 23.2240	93 72 22.4146 21.7023	6 7 22.3875 23.9245
Ave. Wt.	36 36 36	4 2 3	47 49 48	1 2 2
Solids	PPM #/day	PPM #/day	PPM ×2.58	PPM #/day
T.S.S.	1610 36566	52 1181	1280 3302	34 772
T.F.S.	360 8176	12 273	480 1238	4 91
T.V.S.	1250 28390	40 908	800 2064	30 681
		TOTAL SOLIDS		
Final Wt.	3066	8405	3641	657
Tare Wt.	51.1948	53.7942	53.2289	51.6264
PPM	1118 2236	403 926	1352 2704	393 786
	36566 - 1181 35385 = 97.0 P' T.S.S. % Red.	SET SOLIDS	3302 - 772 2530 = 76.6 S' T.S.S. % Red.	Overall % Red. T.S.S.
	P' JTU % Red.	32 - 12 20 mg/l.	Dissolved Solids 752	JTU 34566 - 772 35794 = 98.0
	B.P. Total Solids # Day	Hartman		

Set. I 22.0528^{44}_{16} 22.9102^{18}_{16}

16

II 22.3423^{8}_{5} 21.0473^{80}_{7}

6

Flow 2726100 4.03 1.15 Date Monday 3-10/11-85

Air Temp. - F° 42° Rain

Sample	Before Primary	After Primary	Aeration Basin	Secondary
Temp. F°	74°	90°	D.O. = 2.1	89°
pH	8.16	7.97	8.17	8.22
Turbidity JTU	GRAB	GRAB	COMPOSITE	COMPOSITE
Filtered Wt. Original Wt.	(10) 267 257 23.8200 22.7186	(25) 31 413 20.6413 21.3396	(10) 7001 342 22.6832 22.8217	(50) 69 98 20.0750 21.4687
Ave. Wt.	67 71 69	18 17 18	169 125 147	19 11 15
Ashed Wt. Original Wt.	38 225 23.8200 22.7186	9 403 20.6413 21.3396	93 61 22.6832 22.8217	6 93 20.0750 21.4687
Ave. Wt.	38 39 39	9 7 8	61 44 53	6 6 6
Solids	PPM #/day	PPM #/day	PPM x 2.58	PPM #/day
T.S.S.	690 15729	72 1641	1470 3793	30 684
T.F.S.	390 8890	32 729	530 1367	12 274
T.V.S.	300 6839	40 912	940 2426	18 410
		TOTAL SOLIDS		
Final Wt. Tare Wt.	5011 49.4322	469 52.4001	2327 51.1181	6357 50.5954
PPM	689 1378	468 936	1146 2292	403 806
	15729 - 1641 14088 = 90.0 P' T.S.S. % Red.	SET SOLIDS 33 - 12 21 mg/l	3793 - 684 3109 = 82.0 S' T.S.S. % Red.	Overall % Red. T.S.S.
	P' JTU % Red.		Dissolved Solids 776	JTU 15729 - 684 15045 = 96.0
	B.P. Total Solids # Day	Haitman		

Set. I

49
22.8035
14

207
22.7108
19

17

II

6
22.1892
4

12
22.7285
7

6

Sun

Flow 2621000 4.03 1.15 Date 3-9/10-85

Air Temp. - F° 24°

Sample	Before Primary	After Primary	Aeration ~~Basin~~ I	Secondary
Temp. F°	86°	74°	D.O. = 3.1	74°
pH	8.6	7.9	8.4	8.4
Turbidity JTU	Grab (10)	Grab (25)	Composite (10)	Composite (50)
Filtered Wt. Original Wt.	339 680 22.4186 23.8512 153 168	24 85 22.4516 22.0276 8 9	649 339 21.5522 22.6215 127 124	7 6 23.4581 20.6152 6 4
Ave. Wt.	160.5	8.5	125.5	5
Ashed Wt. Original Wt.	244 76 2.4186 3.8512 58 64	– 7 2.4516 2.0276 0 1	71 59 1.5522 2.6215 49 44	– – 3.4581 0.6152
Ave. Wt.	61	.5	46.5	0
Solids	PPM #/day	PPM #/day	PPM x 2.58	PPM #/day
T.S.S.	1605 35113	34 744	1255 3238	10 219
T.F.S.	610 13345	2 44	465 1200	– –
T.V.S.	995 21768	32 700	790 2038	10 219
	(25)	TOTAL SOLIDS (25)	(25)	(25)
Final Wt. Tare Wt.	797 51.3258	656 51.1403	829 51.7281	886 51.4715
PPM	539 2156	253 1012	548 2192	171 684
	35113 -744 34369 = 97.9 P' T.S.S. % Red.	SET SOLIDS 15 – 2 13 mg/l	3238 -219 3019 = 93.2 S' T.S.S. % Red.	Overall % Red. T.S.S.
	P' JTU % Red.		Dissolved Solids 674	~~JTU~~ 35113 -219 34894 = 99.4
	B.P. Total Solids # Day	Kemeyon		*Sec. Clarifier starting to get cloudy again

903

22. 4896
7

9

22. 1161
8

7.5 X2=15

6

22. 3614
2

-

22. 1913
0

1 X2=2

Flow 2702200 4.03 1.15 Date 3 - 8/9 -85

Air Temp. - F° 310

Sample	Before Primary		After Primary		Aeration Basin I		Secondary	
Temp. F°	87°		75°		D.O. = 2.9		75°	
pH	8.4		7.9		8.3		8.3	
Turbidity JTU	Grab		Grab		Composite		Composite	
Filtered Wt.	(10)		(25)		(10)		(5)	
Original Wt.	680 22.5503	779 21.4548	7 21.7110	8 21.7893	9083 20.8954	817 21.3699	7 22.5093	40 21.5737
	177	181	7	5	129	118	4	3
Ave. Wt.	179		4		123.5		3.5	
Ashed Wt.								
Original Wt.	63 2.5503	666 1.4598	– 1.7110	– 1.7893	99 0.8954	737 1.3699	– 2.5093	– 1.5737
	60	68			45	38		
Ave. Wt.	64		0		41.5		0	
Solids	PPM	#/day	PPM	#/day	PPM	X2.58	PPM	#/day
T.S.S.	1790	40356	24	541	1235	3186	7	158
T.F.S.	640	14429	–	–	415	1071	–	–
T.V.S.	1150	25927	24	541	820	2115	7	158
	(25)		TOTAL SOLIDS (25)		(25)		(25)	
Final Wt.	602		735		8210		365	
Tare Wt.	52.7058		51.9486		50.7656		52.1200	
PPM	544 1088		249 996		554 1108		165 660	
	40356 - 541 = 39815 = 98.7		SET SOLIDS		3186 - 158 = 3028 = 95.0		Overall % Red.	
	P' T.S.S. % Red.		- 6 0 = 6 mg/l		S' T.S.S. % Red.		T.S.S.	
	P' JTU % Red.				Dissolved Solids 653		40356 - 158 = 40198 = 99.6	
	B.P. Total Solids # Day		Kenyon					

(5c

$$21.\overset{21}{\underline{6418}}_{3} \qquad\qquad 23.\overset{3}{\underline{5140}}_{3}$$

$3 \times 2 = 6$

$$\overset{-}{21.2794} \qquad\qquad \overset{-}{23.4028}$$

0

Flow 2715100 4.03 1.15 Date 3-7/8-85

Air Temp. - F° 38°

Sample	Before Primary	After Primary	Aeration Basin I	Secondary
Temp. F°	86°	70°	D.O. = 3.0	70°
pH	8.4	8.0	8.2	8.2
Turbidity JTU	Grab	Grab	Composite	Composite
Filtered Wt. Original Wt.	(16) 61 20.6417 / 77 22.6838	(25) 703 21.4698 / 5 22.8221	(20) 231 21.4095 / 885 22.4754	(20) 66 20.0757 / 61 23.9250
	44 / 39	5 / 4	136 / 131	9 / 11
Ave. Wt.	41.5	4.5	133.5	10
Ashed Wt. Original Wt.	29 0.6417 / 46 2.6838	— 1.4698 / — 2.8221	136 1.4095 / 92 2.9754	— 0.0757 / — 3.9250
	12 / 8		41 / 38	
Ave. Wt.	10	0	39.5	0
Solids	PPM / #/day	PPM / #/day	PPM X2.58	PPM / #/day
T.S.S.	415 / 9425	18 / 409	1335 / 3444	20 / 454
T.F.S.	100 / 2271	—	395 / 1019	—
T.V.S.	315 / 7154	18 / 409	940 / 2425	20 / 454
	(25)	TOTAL SOLIDS (25)	(26)	(25)
Final Wt. Tare Wt.	6274 50.5958	2181 51.1953	775 51.1176	518 52.0334
PPM	316 1264	228 912	599 2396	184 736
	9425 - 409 = 9016 = 95.7	SET SOLIDS	3444 - 454 = 2990 = 86.8	Overall % Red.
	P' T.S.S. % Red.	17 - 2 = 15 mg/l	S' T.S.S. % Red.	T.S.S.
	P' JTU % Red.		Dissolved Solids 716	9425 - 454 = 8971 = 95.2
	B.P. Total Solids # Day	Kenyon		

21. 7028 (36) / 8

22. 4152 (61) / 9

8.5 X 2 = 17

22. 3797 (9) / 2

20. 6235 (5) / 0

1 X 2 = 2

Flow 2659000
Air Temp. - F° 30°

4.03 1.15

Date 3-6/7-85

Sample	Before Primary	After Primary	Aeration Basin I	Secondary
Temp. F°	82°	69°	D.O. = 4.0	69°
pH	8.8	8.1	8.3	8.3
Turbidity JTU	Grab (10)	Grab (25)	Composite (10)	Composite (50)
Filtered Wt. / Original Wt.	923 / 22.9898 / 25 — 91 / 21.8467 / 24	81 / 22.7175 / 6 — 9 / 23.8204 / 5	541 / 21.3393 / 148 — 577 / 22.3420 / 150	32 / 22.8020 / 12 — 91 / 22.7178 / 13
Ave. Wt.	24.5	5.5	149	12.5
Ashed Wt. / Original Wt.	— / 2.9898 — — / 1.8467	— / 2.7175 — — / 3.8204	433 / 1.3393 / 40 — 64 / 2.3420 / 44	— / 2.8020 — — / 2.7178
Ave. Wt.	0	0	42	0
Solids	PPM / #/day	PPM / #/day	PPM X 2.58	PPM / #/day
T.S.S.	245 / 5442	22 / 489	1490 / 3844	25 / 555
T.F.S.	— / —	— / —	420 / 1084	— / —
T.V.S.	245 / 5442	22 / 489	1070 / 2760	25 / 555
	(25)	TOTAL SOLIDS (25)	(25)	(25)
Final Wt. / Tare Wt.	4282 / 52.3993	552 / 49.4315	874 / 51.6260	477 / 53.2280
PPM	289 / 1156	237 / 948	614 / 2456	197 / 788
	5442 - 489 = 4953 = 91.0 P' T.S.S. % Red.	SET SOLIDS - 21 5 = 16 mg/l	3844 - 555 = 3289 = 85.6 S' T.S.S. % Red.	Overall % Red. T.S.S.
	P' JTU % Red.		Dissolved Solids 763	[illegible] 5442 - 555 = 4887 = 89.8
	B.P. Total Solids # Day	Benyon		

$$22.\ \underset{11}{\underline{1318}}^{29} \qquad\qquad 23.\ \underset{10}{\underline{4679}}^{89}$$

$10.5 \times 2 = 21$

$$21.\ 11\underset{2}{\underline{52}}^{4} \qquad\qquad 21.\ 68\underset{3}{\underline{34}}^{7}$$

$2.5 \times 2 = 5$

Flow 2698500 4.03 1.15 Date 3-5/6-85

Air Temp. - F° 15°

Sample	Before Primary	After Primary	Aeration Basin I	Secondary
Temp. F°		70°	D.O. = 3.5	70°
pH		8.1	8.2	8.2
Turbidity JTU		Grab	Composite	Composite
Filtered Wt. Original Wt.	*To much steam couldn't see to get sample	(20) 85 7 / 22.3876 21.3702	(10) 8063 9112 / 21.7885 20.8946	(50) 114 66 / 22.5094 21.5742
		9 5	178 166	20 24
Ave. Wt.		7	172	22
Ashed Wt. Original Wt.		— — / 2.3876 1.3702	94 97 / 1.7885 0.8946	— — / 2.5094 1.5742
			56 51	
Ave. Wt.		0	53.5	0
Solids	PPM #/day	PPM #/day	PPM X2.58	PPM #/day
T.S.S.		28 631	1720 4438	44 992
T.F.S.		— —	535 1380	— —
T.V.S.		28 631	1185 3058	44 992
		TOTAL SOLIDS (30)	(20)	(50)
Final Wt. Tare Wt.		500 / 51.6263	915 / 53.2284	233 / 49.6028
PPM		237 / 948	631 / 1262	205 / 820
	P' T.S.S. % Red.	SET SOLIDS 29 − 14 = 15 mg/l	4438 − 992 = 3446 = 77.6 S' T.S.S. % Red.	Overall % Red. T.S.S.
	P' JTU % Red.		Dissolved Solids 776	JTU
	B.P. Total Solids # Day	Y Genyon		

$$21.\underset{14}{\overset{59}{\underline{8345}}} \qquad 23.2\underset{15}{\overset{43}{\underline{228}}}$$

$14.5 \times 2 = 29$

$$23.5\underset{10}{\overset{53}{\underline{143}}} \qquad 23.0\underset{4}{\overset{80}{\underline{276}}}$$

$7 \times 2 = 14$

Flow 2604200 4.03 1.15 Date 3-4/5-85
Air Temp. - F° 26°

Sample	Before Primary	After Primary	Aeration Basin I	Secondary
Temp. F°	85°	69°	D.O. = 2.9	69°
pH	8.6	8.3	8.4	8.4
Turbidity JTU	Grab	Grab	Composite	Composite
Filtered Wt. Original Wt.	(10) 330 867 / 22.7260 22.3790 / 70 77	(25) 38 67 / 21.7117 21.6548 / 21 19	(10) 772 674 / 21.4593 22.5486 / 179 188	(50) 52 92 / 21.6446 21.9560 / 36 32
Ave. Wt.	73.5	20	183.5	34
Ashed Wt. Original Wt.	70 8 / 2.7260 2.3790 / 10 8	— — / 1.7117 1.6548	657 553 / 1.4593 2.5486 / 64 67	25 5 / 1.6446 1.9560 / 9 5
Ave. Wt.	9	0	65.5	7
Solids	PPM #/day	PPM #/day	PPM ×2.58	PPM #/day
T.S.S.	735 15957	80 1737	1835 4734	68 1476
T.F.S.	90 1954	— —	655 1690	14 304
T.V.S.	645 14003	80 1737	1180 3044	54 1172
	(95)	TOTAL SOLIDS (35)	(25)	(2)
Final Wt. Tare Wt.	8066 / 50.7659	458 / 51.1175	839 / 52.1204	567 / 52.0346
PPM	407 / 1628	283 / 1132	635 / 2540	221 / 884
	15957 -1737 / 14220 = 89.1 P' T.S.S. % Red.	SET SOLIDS - 67 27 / 40 mg/l	4734 -1476 / 3258 = 68.8 S' T.S.S. % Red.	Overall % Red. T.S.S.
	P' JTU % Red.		Dissolved Solids 816	15957 -1476 / 14481 = 90.8
	B.P. Total Solids # Day	Y Genyon		

$$23.\overset{226}{\underset{35}{\underline{8191}}} \qquad 22.\overset{94}{\underset{32}{\underline{7162}}}$$

$$33.5 \times 2 = 67$$

$$21.7\overset{407}{\underset{12}{\underline{395}}} \qquad 22.4\overset{47}{\underset{15}{\underline{832}}}$$

$$13.5 \times 2 = 27$$

Flow 2539100 4.03 1.15 Date 3-3/4-85

Air Temp. - F° 31°

Sample	Before Primary	After Primary	Aeration Basin I	Secondary
Temp. F°			D.O. = 3.0	70°
pH			8.6	8.6
Turbidity JTU			Composite	Composite
Filtered Wt. Original Wt.	* Didn't get samples Hard freezing rain & Snow. Had to walk & get rest of samples		(10) 729 20.5581 467 22.7311	(50) 23 22.7109 9: 22.2684
Ave. Wt.	Lots of fun!		148 156 152	14 11 12.5
Ashed Wt. Original Wt.			629 0.5581 65 2.7311	13 2.7109 6 2.2684
Ave. Wt.			48 54 51	4 2 3
Solids	PPM #/day	PPM #/day	PPM X 2.58	PPM #/day
T.S.S.			1520 3922	25 530
T.F.S.			510 1316	6 127
T.V.S.			1010 2606	19 403
		TOTAL SOLIDS	(25)	(25)
Final Wt. Tare Wt.			966 49.2467	328 50.8162
PPM			499 1996	166 664
	P' T.S.S. % Red.	SET SOLIDS 24 - 6 18 mg/l	3922 - 530 3392 = 86.5 S' T.S.S. % Red.	Overall % Red. T.S.S.
	P' JTU % Red.		Dissolved Solids 639	JTU
	B.P. Total Solids # Day	Kenyon		

$$21.\ 8\overset{16}{\underline{807}}_{9}$$

$$22.\ 2\overset{29}{\underline{414}}_{15}$$

$12 \times 2 = 24$

$$22.\ 86\overset{6}{\underline{73}}_{3}$$

$$21.\ 36\overset{5}{\underline{92}}_{3}$$

$3 \times 2 = 6$

Sew 2603500

Flow 4.03 1.15

Air Temp. - F° 30°

Date 3-13-85

Sample	Before Primary	After Primary	Aeration Basin I	Secondary
Temp. F°	82°	70°	D.O. = 2.7	70°
pH	8.4	8.0	8.2	8.2
Turbidity JTU	Grab (10)	Grab (25)	Composite (50)	Composite (50)
Filtered Wt. / Original Wt.	6053 / 20.5986 — 120 / 22.9048	51 / 22.0728 — 69 / 23.6753	211 / 21.2082 — 741 / 23.0619	56 / 22.2441 — 97 / 21.1683
	67 — 72	23 — 16	129 — 122	15 — 14
Ave. Wt.	69.5	19.5	125.5	14.5
Ashed Wt. / Original Wt.	6006 / 0.5986 — 72 / 2.9048	35 / 2.0728 — 7 / 3.6753	133 / 1.2082 — 67 / 3.0619	4 / 2.2441 — 6 / 1.1683
	20 — 24	7 — 4	51 — 48	3 — 3
Ave. Wt.	22	5.5	49.5	3
Solids	PPM / #/day	PPM / #/day	PPM / X 2.58	PPM / #/day
T.S.S.	695 / 15088	78 / 1694	125.5 / 3238	29 / 630
T.F.S.	220 / 4776	22 / 478	495 / 1277	12 / 261
T.V.S.	475 / 10312	56 / 1216	760 / 1961	17 / 369
	(25)	TOTAL SOLIDS (25)	(25)	(25)
Final Wt. / Tare Wt.	676 / 54.6327	426 / 53.2192	889 / 49.2408	458 / 50.8299
PPM	349 / 1396	234 / 936	481 / 1924	156 / 624
	15088 - 1694 = 13394: P' T.S.S. % Red.	SET SOLIDS 27 - 8 = 19 mg/l	3238 - 630 = 2608: S' T.S.S. % Red.	Overall % Red. T.S.S.
	P' JTU % Red.		Dissolved Solids 595	15088 - 630 = 14458: 95.8
	B.P. Total Solids # Day	Kenyon		

$$21.2\overset{98}{\underline{787}}_{11} \qquad 23.1\overset{52}{\underline{236}}_{16}$$

$13.5 \times 2 = 27$

$$23.78\overset{22}{\underline{19}}_{3} \qquad 22.72\overset{9}{\underline{14}}_{5}$$

$4 \times 2 = 8$

Flow 2604500 4.03 1.15 Date 3-½-85

Air Temp. - F° 29°

Sample	Before Primary	After Primary	Aeration Basin I	Secondary
Temp. F°	84°	71°	D.O. = 1.3	71°
pH	8.5	8.1	8.3	8.3
Turbidity JTU	Grab	Grab	Composite	Composite
Filtered Wt. Original Wt.	(10) 70 22.9118 / 812 21.5753	(25) 44 21.7029 / 67 22.4151	(10) 881 20.0757 / 997 22.3878	(38) 45 22.8034 / 18 21.3406
	52 / 59	15 / 16	124 / 119	11 / 12
Ave. Wt.	55.5	15.5	121.5	11.5
Ashed Wt. Original Wt.	34 2.9118 / 72 1.5753	32 1.7029 / 6 2.4151	804 0.0757 / 922 2.3878	6 2.8034 / 9 1.3406
	16 / 19	3 / 5	47 / 44	2 / 3
Ave. Wt.	17.5	4	45.5	2.5
Solids	PPM / #/day	PPM / #/day	PPM / X 2.58	PPM / #/day
T.S.S.	555 / 12049	62 / 1346	1265 / 3264	23 / 499
T.F.S.	175 / 3799	16 / 347	455 / 1174	5 / 109
T.V.S.	380 / 8250	46 / 999	810 / 2090	18 / 390
	(25)	TOTAL SOLIDS (25)	(25)	(25)
Final Wt.	51.0337	6055	527	464
Tare Wt.	50.9959	50.5827	49.6051	49.4323
PPM	378 / 1512	228 / 912	476 / 1904	141 / 541
	12049 - 1346 = 10403 : 86.3 P' T.S.S. % Red.	SET SOLIDS - 20 5 15 mg/l	3264 - 499 = 2765 : 84.7 S' T.S.S. % Red.	Overall % Red. T.S.S.
	P' JTU % Red.		Dissolved Solids 518	~~JTU~~ 12049 - 499 = 11550 : 96.0
	B.P. Total Solids # Day	Y Genyon		

$$22.6\underline{537}^{49}_{12}$$

$$22.1\underline{323}^{31}_{8}$$

$10 \times 2 = 20$

$$22.26\underline{34}^{7}_{3}$$

$$20.62\underline{71}^{3}_{2}$$

$2.5 \times 2 = 5$

Pipeline
D.O.
4.3 mg/L