Bench Sheets
December -1985

179093

070509

Mill Down 12-31-85
Date 1-1-86
Mill Starting 1-½-86

Flow
Air Temp. - F° 32°

Sample	Before Primary	After Primary	Aeration I Tank	Secondary
Temp. F°			D.O. = 7.9	
pH				
Turbidity JTU				
Filtered Wt. Original Wt.				
Ave. Wt.				
Ashed Wt. Original Wt.				
Ave. Wt.				
Solids	PPM #/day	PPM #/day	PPM X 2.58	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.
		_____ mg/L	Dissolved Solids	
	P' JTU % Red.			
	B.P. Total Solids # Day			

Flow 2828600 4.03 1.15 Date 12 - 30/31 - 85
Air Temp. - F° 35°

Sample	Before Primary	After Primary	Aeration I Tank	Secondary
Temp. F°		77°	D.O. = 1.0	77°
pH		6.0	7.5	7.5
Turbidity JTU	Mill Down New Year's	Grab	Composite	Composite
Filtered Wt. Original Wt.		(25) 22.9185 20.7029 51	(10) 525 20.8411 22.2189 310	(50) 18 21.7602 21.4537 48
Ave. Wt.		18 22 20	114 121 117.5	16 11 13.5
Ashed Wt. Original Wt.		90 2.9185 0.7029 35	51 0.8411 2.2189 233	6 1.7602 1.4537 8
Ave. Wt.		5 6 5.5	40 44 42	4 1 2.5
Solids	PPM #/day	PPM #/day	PPM X 2.58	PPM #/day
T.S.S.		80 1890	1175 3032	27 638
T.F.S.		22 520	420 1084	5 118
T.V.S.		58 1370	755 1948	22 520
Final Wt. Tare Wt.		TOTAL SOLIDS (25) 490 52.6204	(25) 9197 51.8719	(25) 702 50.2488
PPM		286 1144	478 1912	214 856
	P' T.S.S. % Red.	SET SOLIDS 34 − 15 = 19 mg/L	3032 − 638 = 2394 : 79.0 S' T.S.S. % Red.	Overall % Red. T.S.S.
	P' JTU % Red.	Y Genyon	Dissolved Solids 829	
	B.P. Total Solids # Day			

$$22.3\overset{47}{\underset{19}{\underline{628}}} \qquad 23.68\overset{71}{\underset{15}{\underline{56}}}$$

$17 \times 2 = 34$

$$22.5\overset{9}{\underset{8}{\underline{691}}} \qquad 21.18\overset{55}{\underset{7}{\underline{48}}}$$

$7.5 \times 2 = 15$

Flow 2596000 4.03 1.15 Date 12-29/30-85
Air Temp. - F° 19°

Sample	Before Primary	After Primary	Aeration I Tank	Secondary
Temp. F°	88°	76°	D.O. = 2.8	86°
pH	7.9	6.1	7.4	7.4
Turbidity JTU	Grab	Grab	Composite	Composite
Filtered Wt. Original Wt.	(10) 323 238 / 21.9265 23.1176	(25) 99 34 / 23.7689 22.7021	(10) 944 297 / 22.4810 22.9169	(50) 63 83 / 21.8754 22.4176
	58 62	10 13	134 128	9 7
Ave. Wt.	60	11.5	131	8
Ashed Wt. Original Wt.	84 99 / 1.9265 3.1176	91 4 / 3.7689 2.7021	55 209 / 2.4810 2.9169	6 7 / 1.8754 2.4176
	19 23	2 3	45 40	2 1
Ave. Wt.	21	2.5	42.5	1.5
Solids	PPM / #/day	PPM / #/day	PPM / X 2.58	PPM / #/day
T.S.S.	600 / 13026	46 / 999	1310 / 3380	16 / 347
T.F.S.	210 / 4559	10 / 217	425 / 1097	3 / 65
T.V.S.	390 / 8467	36 / 782	885 / 2283	13 / 282
	(25)	TOTAL SOLIDS (25)	(25)	(25)
Final Wt. Tare Wt.	2263 / 53.1899	868 / 53.9612	3295 / 49.2749	798 / 48.8597
PPM	364 / 1456	256 / 1024	546 / 2184	201 / 804
	13026 - 999 = 12027 = 92.3	SET SOLIDS	3380 - 347 = 3033 : 89.7	Overall % Red.
	P' T.S.S. % Red.	22 − 10 = 12 mg/L	S' T.S.S. % Red.	T.S.S.
	P' JTU % Red.		Dissolved Solids 788	13026 - 347 = 12679 = 97.3
	B.P. Total Solids # Day	Kenyon		

703

23.2691

12

92

22.8782

10

11 X 2 = 22

52

22.7846

6

401

22.8397

4

5 X 2 = 10

Flow 2600300 4.03 1.15 Date 12-28/29-85

Air Temp. - F° 20°

Sample	Before Primary	After Primary	Aeration I Tank	Secondary
Temp. F°	86°	71°	D.O. = 2.6	72°
pH	7.9	6.0	7.4	7.4
Turbidity JTU	Grab (10)	Grab (25)	Composite (10)	Composite (10)
Filtered Wt. Original Wt.	94 185 20.1600 21.7089 94 96	76 46 23.5066 20.5838 10 8	263 455 23.2114 23.8312 149 143	20 72 21.7715 21.7265 5 7
Ave. Wt.	95		146	6
Ashed Wt. Original Wt.	38 128 0.1600 1.7089 38 39	9 9 3.5066 0.5838 3 1	61 57 3.2114 3.8312 47 45	— — 1.7715 1.7265
Ave. Wt.	38.5	2	46	0
Solids	PPM / #/day	PPM / #/day	PPM / X 2.58	PPM / #/day
T.S.S.	950 / 20625	36 / 782	1460 / 3767	12 / 261
T.F.S.	385 / 8358	8 / 174	460 / 1187	— / —
T.V.S.	565 / 12267	28 / 608	1000 / 2580	12 / 261
	(40)	TOTAL SOLIDS (50)	(30)	(35)
Final Wt. Tare Wt.	955 50.7266	822 48.1455	8414 50.7328	936 51.8614
PPM	689 1378	367 734	1086 2172	322 644
	20625 - 782 = 19843 = 96.2 P' T.S.S. % Red.	SET SOLIDS 14 3 11 mg/L	3767 - 261 = 3506 = 93.1 S' T.S.S. % Red.	Overall % Red. T.S.S.
	P' JTU % Red.		Dissolved Solids 632	20625 - 261 = 20364 = 98.7
	B.P. Total Solids # Day	Y Genyon		

$$21.8\overset{84}{\underset{6}{\cancel{778}}} \qquad 21.5\overset{71}{\underset{8}{\cancel{463}}}$$

$7 \times 2 = 14$

$$21.6\overset{6}{\underset{2}{\cancel{804}}} \qquad 23.5\overset{2}{\underset{1}{\cancel{781}}}$$

$1.5 \times 2 = 3$

Flow 2441500 4.03 1.15 Date 12-27/28-85

Air Temp. - F° 8°

Sample	Before Primary	After Primary	Aeration I Tank	Secondary
Temp. F°	86°	73°	D.O. = 2.8	73°
pH	8.1	6.2	7.5	7.5
Turbidity JTU	Grab	Grab	Composite	Composite
Filtered Wt. Original Wt.	(10) 268 23.8177 / 514 22.0406	(25) 3005 23.2999 / 75 21.7869	(10) 281 22.7140 / 608 21.4464	(50) 9 21.4533 / 12 22.5403
Ave. Wt.	91 / 108 — 99.5	6 / 6 — 6	141 / 144 — 142.5	6 / 9 — 7.5
Ashed Wt. Original Wt.	206 3.8177 / 43 2.0406	- 3.2999 / - 1.7869	90 2.7140 / 517 1.4464	- 1.4533 / 5 2.5403
Ave. Wt.	29 / 37 — 33	0	50 / 53 — 51.5	2 — 1
Solids	PPM / #/day	PPM / #/day	PPM / X 2.58	PPM / #/day
T.S.S.	995 / 20272	24 / 489	1425 / 3677	15 / 306
T.F.S.	330 / 6723	— / —	515 / 1329	2 / 41
T.V.S.	665 / 13549	24 / 489	910 / 2348	13 / 265
	(50)	TOTAL SOLIDS (50)	(50)	(50)
Final Wt. Tare Wt.	6509 / 50.5809	- / 7006 / 48.6651	9016 / 53.7946	445 / 54.4130
PPM	700 / 1400	355 / 710	1070 / 2140	315 / 630
	20272 - 489 = 19783 = 97.6 P' T.S.S. % Red.	SET SOLIDS - 13 / 1 = 12 mg/L	3677 - 306 = 3371 = 91.7 S' T.S.S. % Red.	Overall % Red. T.S.S.
	P' JTU % Red.		Dissolved Solids 615	20272 - 306 = 19966 = 94.5
	B.P. Total Solids # Day	Kenyon		

22.9751^{8} $\quad$ 22.3443^{9}

7 $\quad$ 6

$6.5 \times 2 = 13$

22.3801^{2} $\quad$ 22.0529

1 $\quad$ 0

$.5 \times 2 = 1$

Flow 2451300 4.03 1.15 Date 12-24/27-85

Air Temp. - F° 10°

Sample	Before Primary	After Primary	Aeration I Tank	Secondary
Temp. F°	86°	72°	D.O. = 4.0.	72°
pH	8.1	6.9	7.6	7.6
Turbidity JTU	Snow + Wind Door Blocked	Grab	Composite	Composite
Filtered Wt. Original Wt.		(25) 81 61 21.0376 22.6552	982 814 22.3831 23.6668	(50) 45 67 23.2229 21.5954
		5 9	151 146	16 13
Ave. Wt.		7	148.5	14.5
Ashed Wt. Original Wt.		— — 1.0376 2.6552	86 722 2.3831 3.6668	30 — 3.2229 1.5954
			55 54	1 0.
Ave. Wt.		0	54.5	.5
Solids	PPM #/day	PPM #/day	PPM X 2.58	PPM #/day
T.S.S.		28 573	1485 3831	29 593
T.F.S.		— —	545 1406	1 20
T.V.S.		28 573	940 2425	28 573
		TOTAL SOLIDS (25)	(25)	(25)
Final Wt. Tare Wt.		50.0070 49.9841	728 50.6146	2144 51.1958
PPM		229 916	582 2328	186 744
		SET SOLIDS	3831 - 593 3238 : 84.5	Overall % Red.
	P' T.S.S. % Red.	24 - 8	S' T.S.S. % Red.	T.S.S.
	P' JTU % Red.	16 mg/L	Dissolved Solids 715	
	B.P. Total Solids # Day	Y Genegon		

$$21.6\overset{56}{\underline{145}}_{11} \qquad 21.33\overset{23}{\underline{10}}_{13}$$

$12 \times 2 = 24$

$$22.2\overset{5}{\underline{691}}_{4} \qquad 21.68\overset{8}{\underline{94}}_{4}$$

$4 \times 2 = 8$

Mill Dam 24/25

Date 12 - 25

Mill Sterling 25/26

Flow
Air Temp. - F°

Sample	Before Primary	After Primary	Aeration I Tank	Secondary
Temp. F°			D.O. =	
pH				
Turbidity JTU				
Filtered Wt. Original Wt.				
Ave. Wt.				
Ashed Wt. Original Wt.				
Ave. Wt.				
Solids	PPM #/day	PPM #/day	PPM X 2.58	PPM #/day
T.S.S. T.F.S. T.V.S.				
Final Wt. Tare Wt.		TOTAL SOLIDS		
PPM				
	P' T.S.S. % Red.	SET SOLIDS	S' T.S.S. % Red.	Overall % Red. T.S.S.
	P' JTU % Red.	_____ mg/L	Dissolved Solids	
	B.P. Total Solids # Day			

C[illegible]16

Flow 2819600 4.03 1.15 Date 12-23/24-85
Air Temp. - F° 13°

Sample	Before Primary	After Primary	Aeration I Tank	Secondary
Temp. F°		79°	D.O. = 2.7	78°
pH		6.2	7.7	7.7
Turbidity JTU	Grab	Grab	Composite	Composite
Filtered Wt. Original Wt.	Mill Down 4:00 A.M.	(25) 79 21.7658 / 23.2679 703 21 / 24	(1) 191 20.6035 / 22.1824 977 156 / 153	(50) 207 22.7195 / 22.8352 67 12 / 15
Ave. Wt.	Merry Christmas	22.5	154.5	13.5
Ashed Wt. Original Wt.		65 1.7658 / 3.2679 88 7 / 9	87 0.6035 / 2.1824 70 52 / 46	201 2.7195 / 2.8352 6 6 / 4
Ave. Wt.		8	49	5
Solids	PPM / #/day	PPM / #/day	PPM / X 2.58	PPM / #/day
T.S.S.		90 / 2119	1545 / 3986	27 / 636
T.F.S.		32 / 754	490 / 1264	10 / 235
T.V.S.		58 / 1365	1055 / 2722	17 / 401
		TOTAL SOLIDS (25)	(25)	(25)
Final Wt. Tare Wt.		668 50.8431	854 53.2280	8181 50.7993
PPM		237 (948)	574 (2296)	188 (752)
	P' T.S.S. % Red.	SET SOLIDS 33 − 17 = 16 mg/L	3986 − 636 = 3350 : 84.0 S' T.S.S. % Red.	Overall % Red. T.S.S.
	P' JTU % Red.		Dissolved Solids (725)	
	B.P. Total Solids # Day	Y Zenyon		

$$23.98\overset{59}{41}/18 \qquad 20.8\overset{82}{46}/15$$

16.5 X 2 : 33

$$21.41\overset{93}{83}/10 \qquad 21.32\overset{22}{15}/7$$

8.5 X 2 = 17

Flow 2606300 4.03 1.15 Date 12-22/23-85

Air Temp. - F° 30°

Sample	Before Primary	After Primary	Aeration I Tank	Secondary
Temp. F°	87°	80°	D.O. = 3.0	79°
pH	7.8	6.1	7.5	7.5
Turbidity JTU	Grab (10)	Grab (25)	Composite (10)	Composite (50)
Filtered Wt. Original Wt.	854 371 22.3762 21.8273	41 55 22.7223 20.9937	163 2093 22.5009 21.1952	51 80 21.4042 21.9472
Ave. Wt.	92 98 95	18 18 18	154 141 147.5	9 8 8.5
Ashed Wt. Original Wt.	82 92 2.3762 1.8273	31 45 2.7223 0.9937	70 2008 2.5009 1.1952	5 — 1.4042 1.9472
Ave. Wt.	20 19 20.5	8 8 8	61 56 58.5	3 0 1.5
Solids	PPM #/day	PPM #/day	PPM X 2.58	PPM #/day
T.S.S.	950 20704	72 1569	1475 3806	17 370
T.F.S.	205 4468	32 697	585 1509	3 65
T.V.S.	745 16236	40 872	890 2297	14 305
	(25)	TOTAL SOLIDS (25)	(25)	(25)
Final Wt. Tare Wt.	697 52.1227	408 49.4175	782 53.1245	371 51.1188
PPM	470 1880	233 932	537 2148	183 732
	20704 - 1569 = 19135 : 92.4 P' T.S.S. % Red.	SET SOLIDS 30 − 7 = 23 mg/L	3806 - 370 = 3436 : 90.3 S' T.S.S. % Red.	Overall % Red. T.S.S.
	P' JTU % Red.		Dissolved Solids 715	20704 - 370 = 20334 : 98.2
	B.P. Total Solids # Day	Y Genyon		

$$22.13\overset{28}{\underline{13}}_{15} \qquad 21.92\overset{68}{\underline{53}}_{15}$$

15X2:30.

$$21.18\overset{30}{\underline{27}}_{3} \qquad 21.38\overset{5}{\underline{51}}_{4}$$

3.5X2:7

Flow 2642600 4.03-1.15

Air Temp. - F° 19°

Date 12-21/22-85

Sample	Before Primary	After Primary	Aeration I Tank	Secondary
Temp. F°	87°	78°	D.O. = 4.0	76°
pH	8.1	5.9	7.5	7.5
Turbidity JTU	Grab (10)	Grab (25)	Composite (10)	Composite (50)
Filtered Wt. / Original Wt.	97 / 21.4815 / 82; 6051 / 22.5962 / 89	903 / 23.2891 / 12; 99 / 21.2684 / 15	259 / 23.9112 / 147; 769 / 23.0629 / 140	23 / 22.5017 / 6; 42 / 21.2138 / 4
Ave. Wt.	85.5	13.5	143.5	5
Ashed Wt. / Original Wt.	44 / 1.4815 / 29; 97 / 2.5962 / 35	2 / 3.2891 / 1; 7 / 1.2684 / 3	60 / 3.9112 / 48; 73 / 3.0629 / 44	8 / 2.5017 / 1; – / 1.2138 / 0
Ave. Wt.	32	2	46	.5
Solids	PPM / #/day	PPM / #/day	PPM / X 2.58	PPM / #/day
T.S.S.	855 / 18848	54 / 1190	1435 / 3702	10 / 220
T.F.S.	320 / 7054	8 / 176	460 / 1084	1 / 22
T.V.S.	535 / 11794	46 / 1014	975 / 2618	9 / 198
	(25)	TOTAL SOLIDS (25)	(25)	(25)
Final Wt. / Tare Wt.	657 / 49.0266	925 / 51.2691	3012 / 50.2385	423 / 52.9254
PPM	391 / 1564	234 / 936	627 / 2508	169 / 676
	18848 - 1190 = 17658 : 93.7 P' T.S.S. % Red.	SET SOLIDS 13 − 1 = 12 mg/L	3702 - 220 = 3482 : 94.1 S' T.S.S. % Red.	Overall % Red. T.S.S.
	P' JTU % Red.		Dissolved Solids 666	18848 - 220 = 18628 : 98.8
	B.P. Total Solids # Day	Kenyon		

22.6120 (7) 7

21.8428 (34) 6

6.5X2=13

22.0355 (6) 1

21.4263 (−) 0

.5X2=1

Flow 2492100 4.03 1.15 Date 12 - 24/21 - 85

Air Temp. - F° 17°

Sample	Before Primary	After Primary	Aeration I Tank	Secondary
Temp. F°	88°	79°	D.O. = 3.8	77°
pH	8.0	5.6	7.6	7.6
Turbidity JTU	Grab	Grab	Composite	Composite
Filtered Wt. Original Wt.	(10) 697 420 / 20.7291 22.8009	(25) 8 56 / 22.7162 20.8947	(10) 162 444 / 22.6024 22.6299	(50) 7 9 / 22.8515 22.3466
Ave. Wt.	406 411 / 205.5	6 9 / 7.5	138 145 / 141.5	2 3 / 2.5
Ashed Wt. Original Wt.	490 221 / 0.7291 2.8009	3 9 / 2.7162 0.8947	75 353 / 2.6024 2.6299	- - / 2.8515 2.3466
Ave. Wt.	199 212	1 2 / 1.5	51 54 / 52.5	0
Solids	PPM / #/day	PPM / #/day	PPM / X 2.58	PPM / #/day
T.S.S.	4085 / 84933	30 / 624	1415 / 3651	5 / 104
T.F.S.	2055 / 42727	6 / 125	525 / 1355	- / -
T.V.S.	2030 / 42206	24 / 499	890 / 2296	5 / 104
	(25)	TOTAL SOLIDS (25)	(25)	(25)
Final Wt. Tare Wt.	7420 / 50.6143	6036 / 50.5807	740 / 54.4127	807 / 48.6641
PPM	1277 / 5108	229 / 916	613 / 2452	166 / 664
	5108 - 624 = 4484 = 87.8	SET SOLIDS	3661 - 104 = 3557 = 97.2	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 659	5108 - 104 = 5004 = 98.0
	B.P. Total Solids # Day	Y Genyon		

$$22.65\overset{5}{\underline{42}}_{3} \qquad 20.07\overset{40}{\underline{37}}_{3}$$

$3 \times 2 = 6.$

$$22.3809 \qquad 22.7143$$

0

Flow 2634100 4/03 1.15 Date 12-19/20-85
Air Temp. - F° 8°

Sample	Before Primary	After Primary	Aeration I Tank	Secondary
Temp. F°	90°	86°	D.O. = 4.5	78°
pH	8.0	6.1	8.1	8.1
Turbidity JTU	GRAB	GRAB	COMPOSITE	COMPOSITE
Filtered Wt. Original Wt.	(10) 95 224118 / 91 223009	(25) 701 213653 / 618 219568	(10) 249 229107 / 872 218722	(50) 45 22.5424 / 84 23.4675
Ave. Wt.	77 / 82 — 80	48 / 50 — 49	142 / 150 — 146	21 / 9 — 10
Ashed Wt. Original Wt.	41 224118 / 32 223009	63 213653 / 87 219568	48 229107 / 75 218722	30 22.5424 / 71 23.4675
Ave. Wt.	23 / 23 — 23	10 / 19 — 15	41 / 53 — 47	6 / — — 6
Solids	PPM / #/day	PPM / #/day	PPM / X 2.58	PPM / #/day
T.S.S.	800 / 17568	196 / 4304	1460 / 3767	20 / 439
T.F.S.	230 / 5050	60 / 1318	470 / ~~32062~~	12 / 264
T.V.S.	570 / 12518	136 / 2986	990 / ~~1213~~ ~~31849~~	8 / 175
Final Wt. Tare Wt.	(25) 2325 / 51.1945	TOTAL SOLIDS (25) 536 / 53.2296	(25) 8161 / 50.7630	(25) 8094 / 53.7938
PPM	380 / 1520	240 / 960	531 / 2124	156 / 624
	17568 − 4304 = 13264 — 75.5% P' T.S.S. % Red.	SET SOLIDS 40 − 26 = 14 mg/L	32,062 − 175 = 31887 — 99.5% S' T.S.S. % Red.	Overall % Red. T.S.S.
	P' JTU % Red.		Dissolved Solids 604	17568 − 175 = 17393 — 99%
	B.P. Total Solids # Day	Weaver Kenyon		

50 ml

Settleable Solids

I

$$\frac{239154}{15} \qquad \frac{235573}{25}$$

$20 \times 2 = 40$

II

$$\frac{21.7087}{17} \qquad \frac{21.7040}{9}$$

$13 \times 2 = 26$

Flow 2661200 4.03 1.15 Date 12-18/19-85

Air Temp. - F° 10°

Sample	Before Primary	After Primary	Aeration I Tank	Secondary
Temp. F°	83°	81°	D.O. = 4.2	76°
pH	7.9	6.1	7.9	7.9
Turbidity JTU	GRAB	GRAB	COMPOSITE	COMPOSITE
Filtered Wt. Original Wt.	1 2012 21.1979 / 9522 21.9486	25 330 22.1324 / 973 20.9967	1 193 22.5037 / 401 21.9276	50 56 22.7154 / 48 23.2245
Ave. Wt.	33 36 34	6 6 6	156 125 140	2 3 2.5
Ashed Wt. Original Wt.	90 21.1979 / 92 21.9486	10 22.1324 / 54 20.9967	83 22.5037 / 9313 21.9276	22.7146 22.7154 / 29 23.2245
Ave. Wt.	11 6 8	0 0 0	46 37 42	0 0 0
Solids	PPM / #/day	PPM / #/day	PPM / X 2.58	PPM / #/day
T.S.S.	340 / 7551	24 / 533	1400 / 31,095	5 / 111
T.F.S.	80 / 1776	0 / —	420 / 9328	0 / —
T.V.S.	260 / 5775	24 / 533	980 / 21767	5 / 111
Final Wt. Tare Wt.	25 805 51.9532	TOTAL SOLIDS 25 463 49.4167	25 754 52.1212	25 362 51.1176
PPM	273 1092	296 1184	542 2168	186 744
	7551 − 533 = 7018 99.9% P' T.S.S. % Red.	SET SOLIDS 6 − 0 = 6 mg/L	31,095 − 111 = 30984 99.6% S' T.S.S. % Red.	Overall % Red. T.S.S.
	P' JTU % Red.		Dissolved Solids 739	7551 − 111 = 7440 98.5
	B.P. Total Solids # Day	Weaver Kenyon		

50ml
Settleable Solids

I

22.3861 4

3

22.5435 8

3

3×2 = 6

II

21.3333

0

0×0 = 0

22.3780

0

Flow 2550300 4.03 1.15 Date 12-17/18-85

Air Temp. - F° - 7°

Sample	Before Primary	After Primary	Aeration I Tank	Secondary
Temp. F°	84°	76°	D.O. = 3.5	74°
pH	7.8	6.3	7.5	7.5
Turbidity JTU	Grab (10)	Grab (30)	Composite (10)	Composite (50)
Filtered Wt. Original Wt.	8819 / 21.8723 4830 / 23.4676	3719 / 21.3655 7149 / 21.7100	3270 / 22.307 9785 / 21.9570	9124 / 22.9114 5449 / 22.5439
Ave. Wt.	96 154 125	64 49 57	253 215 234	10 10 10
Ashed Wt. Original Wt.	43 / 21.8723 763 / 23.4676	681 / 21.3655 133 / 21.7100	107 / 22.307 9662 / 21.9570	— / 22.9114 — / 22.5439
Ave. Wt.	20 87 53	26 33 29	90 92 91	0
Solids	PPM / #/day	PPM / #/day	PPM / X 2.58	PPM / #/day
T.S.S.	1250 / 26,615	228 / 4854	2340 / 6037	20 / 425
T.F.S.	530 / 11,285	116 / 2469	910 / 2347	— / —
T.V.S.	720 / 15330	112 / 2385	1430 / 3690	20 / 425
	(20)	TOTAL SOLIDS (20)	(20)	(25) ml
Final Wt. Tare Wt.	8524 / 53.7929	6097 / 50.5808	7243 / 48.6636	2473 / 53.2300
PPM	595 / 2380	289 / 1156	607 / 2428	173 / 692
	26615 − 4854 = 21741 81.7% P' T.S.S. % Red.	SET SOLIDS 10 − 6 = 4 mg/L	6037 − 425 = 5612 93% S' T.S.S. % Red.	Overall % Red. T.S.S. 26615 − 425 = 26190 98%
	P' JTU % Red.		Dissolved Solids 672	
	B.P. Total Solids # Day	Weaver / Kenyon		

50 ml

Settleable Solids

I

$22.85\underset{3}{\underline{20}}^{3}$ $22.41\underset{7}{\underline{41}}^{8}$

$5 \times 2 = 10$

II

$23.81\underset{3}{\underline{71}}^{73}$ $21.70\underset{3}{\underline{45}}^{48}$

$3 \times 2 = 6$

Flow 2777000 4.03 1.15 Date 12-16/17-85

Air Temp. - F° 12°

Sample	Before Primary	After Primary	Aeration I Tank	Secondary
Temp. F°	86°	78°	D.O. = 2.9	78°
pH	8.0	6.1	7.5	7.5
Turbidity JTU	Grab (10)	Grab (25)	Composite (10)	Composite (33)
Filtered Wt. Original Wt.	402 675 22.6302 23.5580	502 55 22.3475 22.6027	680 871 22.6541 20.0733	405 62 22.0397 23.9153
	100 95	27 28	139 138	8 9
Ave. Wt.	97.5	27.5	138.5	8.5
Ashed Wt. Original Wt.	39 614 2.6302 3.5580	82 31 2.3475 2.6027	84 76 2.6541 0.0733	— — 2.0397 3.9153
	37 34	7 4	43 43	
Ave. Wt.	35.5	5.5	43	0
Solids	PPM #/day	PPM #/day	PPM X 2.58	PPM #/day
T.S.S.	975 22633	110 2553	1385 3573	17 395
T.F.S.	355 8241	22 511	430 1109	— —
T.V.S.	620 14392	88 2042	955 2464	17 395
	(25)	TOTAL SOLIDS (25)	(28)	(25)
Final Wt. Tare Wt.	2457 51.1966	382 54.4131	8182 50.7633	419 53.1252
PPM	491 1964	251 1004	549 2196	167 668
	22633 -2553 20080 = 88.7 P' T.S.S. % Red.	SET SOLIDS 18 9 9 mg/L	3573 -395 3178 = 88.9 S' T.S.S. % Red.	Overall % Red. T.S.S.
	P' JTU % Red.		Dissolved Solids 651	22633 -395 22238 = 98.3
	B.P. Total Solids # Day	Y Genyon		

$$22.1\overset{54}{\underset{9}{\underline{845}}} \qquad 22.6\overset{40}{\underset{9}{\underline{831}}}$$

$9 \times 2 = 18$

$$23:47\overset{31}{\underset{5}{\underline{26}}} \qquad 22.5\overset{5}{\underset{4}{\underline{8911}}}$$

$4.5 \times 2 = 9$

Flow 2547200 4.03 1.15 Date 12-15/16-85

Air Temp. - F° 19°

Sample	Before Primary	After Primary	Aeration I Tank	Secondary
Temp. F°	80°	78°	D.O. = 2.6	79°
pH	8.0	6.0	7.9	7.9
Turbidity JTU	Grab	Grab	Composite	Composite
Filtered Wt. Original Wt.	(10) 103 21.4065 / 66 22.8526	(25) 92 21.5965 / 60 20.0733	(10) 375 22.7244 / 271 22.4134	(50) 7 22.6535 / 8 21.7095
Ave. Wt.	38 / 40 — 39	27 / 27 — 27	131 / 137 — 134	2 / 3 — 2.5
Ashed Wt. Original Wt.	74 1.4065 / 34 2.8526	73 1.5965 / 42 0.0733	93 2.7244 / 80 2.4134	– / – 2.6535 / 1.7095
Ave. Wt.	9 / 8 — 8.5	8 / 9 — 8.5	49 / 46 — 47.5	0
Solids	PPM / #/day	PPM / #/day	PPM / X 2.58	PPM / #/day
T.S.S.	390 / 8304	108 / 2300	1340 / 3457	5 / 106
T.F.S.	85 / 1810	34 / 724	475 / 1226	– / –
T.V.S.	305 / 6494	74 / 1576	865 / 2231	5 / 106
Final Wt. Tare Wt.	(25) 950 48.6644	TOTAL SOLIDS (25) 587 53.2305	(25) 8470 53.7947	(25) 354 51.1191
PPM	306 1224	281 1128	523 2092	163 652
	8304 - 2300 = 6004 : 72.3 P' T.S.S. % Red.	SET SOLIDS 23 − 8 = 15 mg/L	3457 - 106 = 3351 : 96.9 S' T.S.S. % Red.	Overall % Red. T.S.S.
	P' JTU % Red.		Dissolved Solids 647	8304 - 106 = 8198 : 98.7
	B.P. Total Solids # Day	K Kenyon		

$$21.70\overset{54}{\underset{11}{\underline{43}}} \qquad 23.81\overset{85}{\underset{12}{\underline{73}}}$$

$$11.5 \times 2 = 23$$

$$22.71\overset{9}{\underset{4}{\underline{95}}} \qquad 22.61\overset{82}{\underset{4}{\underline{78}}}$$

$$4 \times 2 = 8$$

Flow 2653400
Air Temp. - F° 22

Date 12- 14/15-85

Sample	Before Primary	After Primary	Aeration I Tank	Secondary
Temp. F°			D.O. = 2.4	81°
pH			7.6	8.2
Turbidity JTU			COMPOSITE	COMPOSITE
Filtered Wt. / Original Wt.			(10) 3138 / 233002 ; 8870 / 218717	(50) 901 / 217886 ; 65 / 239152
Ave. Wt.			136 ; 153 ; 144.5	15 ; 10 ; 12.5
Ashed Wt. / Original Wt.			63 / 233002 ; 84 / 218717	9 / 217886 ; 4 / 239152
Ave. Wt.			61 ; 67 ; 64	3 ; 2 ; 2.5
Solids	PPM / #/day	PPM / #/day	PPM / X 2.58	PPM / #/day
T.S.S.			1445 / 3728	25 / 553
T.F.S.			640 / 1651	5 / 111
T.V.S.			805 / 2077	20 / 442
		TOTAL SOLIDS		
Final Wt. / Tare Wt.			6677 / 506142	5991 / 505808
PPM			535 ; (2140)	183 ; (732)
	P' T.S.S. % Red.	SET SOLIDS 24 / 7 / 17 mg/L	3728 - 553 / 3175 = 85.2 S' T.S.S. % Red.	Overall % Red. / T.S.S.
	P' JTU % Red.		Dissolved Solids 732 - 25 (707)	
	B.P. Total Solids # Day			

Gifferty

I

$$\frac{2257\overset{445}{33}}{12} \qquad \frac{218\overset{304}{292}}{12}$$

$$12 \times 2 = 24$$

II

$$\frac{229\overset{05}{102}}{3} \qquad \frac{2203\overset{402}{98}}{4}$$

$$3.5 \times 2 = 7$$

Flow 2628400
Air Temp. - F° 13

Date 12-13/14-85

Sample	Before Primary	After Primary	Aeration I Tank	Secondary
Temp. F°			D.O. = 4.9	80°
pH			7.7	8.1
Turbidity JTU			(10) COMPOSITE	(50) COMPOSITE
Filtered Wt. Original Wt.			676 816 219563 236686	484 89 214472 213684
Ave. Wt.			113 130 121.5	12 5 8.5
Ashed Wt. Original Wt.			9613 6750 219563 236686	68 79 214472 213684
Ave. Wt.			50 64 57	4 0 2
Solids	PPM #/day	PPM #/day	PPM X 2.58	PPM #/day
T.S.S.			1215 3135	17 373
T.F.S.			570 1471	4 88
T.V.S.			645 1664	13 285
		TOTAL SOLIDS		
Final Wt. Tare Wt.			1802 5212 15	347 4944168
PPM			587 (2348)	179 (716)
	P' T.S.S. % Red.	SET SOLIDS 11 6 5 mg/L	3135 373 2762 = 88.1 S' T.S.S. % Red.	Overall % Red. T.S.S.
	P' JTU % Red.		Dissolved Solids 716 17 (699)	
	B.P. Total Solids # Day			* Rechecked sec. because #/day was 0

I

$$\begin{array}{r} 78 \\ 2346\underline{72} \\ 6 \end{array} \qquad \begin{array}{r} 68 \\ 2355\underline{63} \\ 5 \end{array}$$

$5.5 \times 2 = 11$

II

$$\begin{array}{r} 10 \\ 233\underline{008} \\ 2 \end{array} \qquad \begin{array}{r} 51 \\ 2145\underline{47} \\ 4 \end{array}$$

$3 \times 2 = 6$

Flow 2535500
Air Temp. - F° 20

Date 12 - 12/13 - 85

Sample	Before Primary	After Primary	Aeration I Tank	Secondary
Temp. F°	84°	80	D.O. = 3.1	82°
pH	9.1	6.2	7.9	7.9
Turbidity JTU	Grab	Grab	Composite	Composite
Filtered Wt.	(10)	(25)	(10)	(50)
Original Wt.	872 4134 228523 223789	310 83 219286 223461	152 286 217039 238169	36 41 225034 226540
Ave. Wt.	349 350 349.5	24 22 23	113 117 115	2 1 1.5
Ashed Wt.				
Original Wt.	658 228523 223789	93 65 219286 223461	66 8200 217039 238169	28 30 225034 226540
Ave. Wt.	135 135 135	7 4 5.5	27 31 29	0 0 0
Solids	PPM #/day	PPM #/day	PPM X 2.58	PPM #/day
T.S.S.	3495 74019	92 1951	1150 2967	3 64
T.F.S.	1350 28632	22 466	290 748	0 0
T.V.S.	2145 45387	70 1485	860 2219	3 64
		TOTAL SOLIDS		
Final Wt.	5394	1504	8120	2117
Tare Wt.	544123	531249	507626	511963
PPM	1526 6104	255 1020	494 1976	154 616
	74019 - 1951 = 72068 = 97.4 %	SET SOLIDS	2967 - 64 = 2963 : 99.9	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 616 - 3 = 613	74019 - 64 = 73955 - 99.9%
	B.P. Total Solids # Day			

$$\begin{array}{r} 89 \\ 214056 \\ 3 \end{array} \qquad \begin{array}{r} 50 \\ 213347 \\ 3 \end{array}$$

$$3 \times 2 = 6$$

$$\begin{array}{r} 970 \\ 213477 \\ \hline 0 \end{array} \qquad \begin{array}{r} 989 \\ 211998 \\ \hline 0 \end{array}$$

$$0$$

Flow 2,783,600
Air Temp. - F° 30

Date 12 - 11/12 - 85

Sample	Before Primary	After Primary	Aeration I Tank	Secondary
Temp. F°	86°	80°	D.O. = 3.2	82°
pH	7.9	6.3	7.5	7.5
Turbidity JTU	GRAB	GRAB	COMPOSITE	COMPOSITE
Filtered Wt.	10	25	10	50
Original Wt.	92 / 208 225428 / 227165	57 / 31 224139 / 218720	568 / 333 214477 / 227241	39 / 6 200735 / 232261
Ave. Wt.	64 / 43 53.5	12 / 11 11.5	91 / 92 91.5	4 / 2 3
Ashed Wt.	432 / 164	37 / 17	499 / 269	733 / 255
Original Wt.	225428 / 227165	224139 / 218720	214477 / 227241	200735 / 232261
Ave. Wt.	4 / 0 2	0 / 0 0	22 / 28 25	0 / 0 0
Solids	PPM / #/day	PPM / #/day	PPM / X 2.58	PPM / #/day
T.S.S.	535 / 12419	46 / 1068	915 / 2361	6 / 139
T.F.S.	20 / 464	0 / 0	250 / 645	0 / 0
T.V.S.	515 / 11955	46 / 1068	765 / 1716	6 / 139
		TOTAL SOLIDS		
Final Wt.	6997	9263	7093	2460
Tare Wt.	516736	539058	486637	532301
PPM	261 1044	205 820	456 1824	159 636
	12419 - 1068 = 11351 = 91.4%	SET SOLIDS 45 - 4 = 41 mg/L	2361 - 139 = 2222 = 94.1 %	Overall % Red.
	P' T.S.S. % Red.		S' T.S.S. % Red.	T.S.S.
			Dissolved Solids 636 - 6 = 630 = 99.0 %	12419 - 139 = 12280 = 98.9%
	P' JTU % Red.	G. Offering		
	B.P. Total Solids # Day			

$$\frac{239150^{73}}{23} \qquad \frac{218291^{313}}{22}$$

$22.5 \times 2 = 45$

$$\frac{213648^{51}}{3} \qquad \frac{232958^{99}}{1}$$

$2 \times 2 = 4$

Flow 2679100
Air Temp. - F° 34

Date 12 - 10/11 - 85

Sample	Before Primary	After Primary	Aeration I Tank	Secondary
Temp. F°	83°	80°	D.O. = 2.7	85°
pH	7.9	5.5	7.9	7.9
Turbidity JTU	GRAB	GRAB	COMPOSITE	COMPOSITE
Filtered Wt.	(10)	(25)	(10)	50
Original Wt.	664 420 214539 221327	64 72 226301 235570	3105 9224 223014 229109	697 409 236680 220394
Ave. Wt.	105 93 99	3 2 2.5	91 115 103	17 15 16
Ashed Wt.				
Original Wt.	570 348 214539 221327	03 68 226301 235570	30 32 223014 229109	677 389 236680 220394
Ave. Wt.	11 15 13	2 0 1	16 23 19.5	0 0 0
Solids	PPM / #/day	PPM / #/day	PPM / X 2.58	PPM / #/day
T.S.S.	990 / 22154	10 / 224	1030 / 2657	32 / 716
T.F.S.	130 / 2909	4 / 90	195 / 503	0 / 0
T.V.S.	860 / 19379	6 / 134	835 / 2154	32 / 716
		TOTAL SOLIDS		
Final Wt.	736	9058	20004	6145
Tare Wt.	516269	538843	519533	505968
PPM	467 (1868)	215 (860)	471 (1884)	177 (708)
	22154 224 21930 = 99.%	SET SOLIDS 35 - 8 27 mg/L	2657 - 716 1941 = 73.0	Overall % Red. T.S.S. 22154 716 21438 = 96.8 %
	P' T.S.S. % Red.		S' T.S.S. % Red.	
	P' JTU % Red.		Dissolved Solids 708 32 676 = 95.5 %	
	B.P. Total Solids # Day			

```
     571
21 95 53
   18
```

```
     901
217884
    17
```

17.5 × 2 = 35

```
     83
234675
    8
```

```
     016
226018
     0
```

4 × 2 = 8

Flow 2779700
Air Temp. - F° 33

Date 12 - 9/10 - 85

Sample	Before Primary	After Primary	Aeration I Tank	Secondary
Temp. F°	84°	82°	D.O. = 2.4	86°
pH	8.0	5.5	8.0	8.0
Turbidity JTU	Grab	Grab	Composite	Composite
Filtered Wt.	(10)	(25)	(10)	(50)
Original Wt.	514 / 153 219301 / 217048	95 / 85 238178 / 213365	3908 / 6666 223809 / 226565	46 / 22 228531 / 217108
Ave. Wt.	213 / 105 159	17 / 20 18.5	99 / 101 100	15 / 14 145
Ashed Wt.				
Original Wt.	87 / 85 219301 / 217048	82 / 67 238178 / 213365	41 / 98 223809 / 226565	34 / 12 228531 / 217108
Ave. Wt.	86 / 37 61.5	4 / 2 3	32 / 34 33	3 / 4 3.5
Solids	PPM / #/day	PPM / #/day	PPM / X 2.58	PPM / #/day
T.S.S.	1590 / 36909	74 / 1718	1000 / 2580	29 / 673
T.F.S.	615 / 14285	12 / 278	330 / 851	7 / 162
T.V.S.	975 / 22634	62 / 1440	670 / 1731	22 / 511
		TOTAL SOLIDS		
Final Wt.	775	967	570	518169
Tare Wt.	494147	507638	544124	511959
PPM	628 (2512)	329 (1316)	446 (1784)	210 (840)
	36909 - 1718 = 35191 = 95.3%	SET SOLIDS 21 12 9 mg/L	2580 - 673 = 1907 = 73.9%	Overall % Red.
	P' T.S.S. % Red.		S' T.S.S. % Red.	T.S.S.
	P' JTU % Red.		Dissolved Solids 840 - 29 (811) = 96.5%	36909 - 673 = 36236 = 98.2%
	B.P. Total Solids # Day			

C5E531

$$\frac{239198}{12}\ 9210 \qquad \frac{228026}{9}\ 35$$

$105 \times 2 = 21$

$$\frac{214504}{6}\ 10 \qquad \frac{285460}{6}\ 66$$

$6 \times 2 = 12$

Flow 2699800
Air Temp. - F° 33

Date 12 - 8/9 - 85

Sample	Before Primary	After Primary	Aeration I Tank	Secondary
Temp. F°	88°	80°	D.O. = 1.9	80°
pH	8.0	6.2	7.1	8.0
Turbidity JTU	GRAB	GRAB	COMPOSITE	COMPOSITE
Filtered Wt.	(10)	(25)	(10)	(50)
Original Wt.	7360 / 207288 — 6257 / 216195	58 / 227250 — 04 / 209003	4234 / 214112 — 2532 / 222403	87 / 223476 — 68 / 225054
Ave. Wt.	72 — 61 — 66.5	3 — 1 — 2	122 — 129 — 125.5	11 — 14 — 12.5
Ashed Wt.				
Original Wt.	7300 / 207288 — 6202 / 216195	243 / 227250 — 8997 / 209003	157 / 214112 — 440 / 222403	3468 / 223476 — 5049 / 225054
Ave. Wt.	12 — 9 — 10.5	0 — 0 — 0	39 — 37 — 38	0 — 0 — 0
Solids	PPM / #/day	PPM / #/day	PPM / X 2.58	PPM / #/day
T.S.S.	665 / 14996	8 / 180	1255 / 3238	25 / 564
T.F.S.	-105 / -2368	0 / 0	380 / 980	0 / 0
T.V.S.	560 / 12628	8 / 180	875 / 2258	25 / 564
		TOTAL SOLIDS		
Final Wt. / Tare Wt.	69 64 / 4866 42	8153 / 537939	2785 / 532295	1345 / 511188
PPM	322 / (1288)	214 / (856)	490 / (1960)	157 / (628)
	14996 − 180 = 14816 — 99% P' T.S.S. % Red.	SET SOLIDS 37 − 6 = 31 mg/L	3238 − 564 = 2674 = 82.6% S' T.S.S. % Red.	Overall % Red. T.S.S. 14996 − 564 = 14432 = 96.2%
	P' JTU % Red.		Dissolved Solids 628 − 25 = (603) = 96%	
	B.P. Total Solids # Day			

63
233045
18

703
216684
19

18.5×2 = 37

320
218316
4

180
227178
2

3×2 = 6

Flow 2658100 4.03 1.15 Date 12-7/8-85
Air Temp. - F° 25°

Sample	Before Primary	After Primary	Aeration I Tank	Secondary
Temp. F°	86°	78°	D.O. = 2.8	79°
pH	7.9	6.2	7.5	7.5
Turbidity JTU	Grab	Grab	Composite	Composite
Filtered Wt. Original Wt.	(10) 90 224 / 22.5226 22.8164	(25) 9 58 / 20.3612 23.8749	(10) 6028 378 / 21.5873 22.7227	(50) 47 801 / 22.8736 22.1792
Ave. Wt.	64 60 / 62	9 9 / 8	155 151 / 153	11 9 / 10
Ashed Wt. Original Wt.	38 74 / 2.5226 2.8164	3 51 / 0.3612 3.8749	936 89 / 1.5873 2.7227	– – / 2.8736 2.1792
Ave. Wt.	12 10 / 11	1 2 / 1.5	63 62 / 62.5	0
Solids	PPM / #/day	PPM / #/day	PPM / X 2.58	PPM / #/day
T.S.S.	620 / 13771	32 / 711	1530 / 3947	20 / 444
T.F.S.	110 / 2443	6 / 133	625 / 1613	– / —
T.V.S.	510 / 16214	26 / 578	905 / 2334	20 / 444
	(25)	TOTAL SOLIDS (26)	(25)	(26)
Final Wt. Tare Wt.	874 / 52.6493	758 / 50.8531	6429 / 51.5841	193 / 49.6025
PPM	381 / 1524	227 / 908	588 / 2352	168 / 672
	13771 - 711 = 13060 = 94.8 P' T.S.S. % Red.	SET SOLIDS 24 − 3 = 21 mg/L	3947 - 444 = 3503 = 88.8 S' T.S.S. % Red.	Overall % Red. T.S.S.
	P' JTU % Red.		Dissolved Solids 652	13771 - 444 = 13327 = 96.8
	B.P. Total Solids # Day	Y Genyon		

$$22.46\overset{46}{\underset{14}{32}} \qquad 22.9\overset{66}{\underset{10}{45}}$$

$$12 \times 2 = 24$$

$$22.62\overset{9}{\underset{1}{98}} \qquad 22.72\overset{6}{\underset{2}{84}}$$

$$1.5 \times 2 = 3$$

Flow 2605300 4.03 1.15 Date 12 - 6/7-85

Air Temp. - F° 30°

Sample	Before Primary	After Primary	Aeration I Tank	Secondary
Temp. F°	87°	79°	D.O. = 3.0	79°
pH	7.8	6.0	7.4	7.4
Turbidity JTU	Grab (10)	Grab (25)	Composite (10)	Composite (5)
Filtered Wt. Original Wt.	318 / 23.2262 — 81 / 22.8533	9 / 21.4510 — 208 / 23.9194	438 / 21.9289 — 515 / 21.3364	77 / 22.6567 — 10 / 22.0403
	56 — 48	9 — 14	149 — 151	10 — 7
Ave. Wt.	52	11.5	150	8.5
Ashed Wt. Original Wt.	76 / 3.2262 — 44 / 2.8533	1 / 1.4510 — 7 / 3.9194	351 / 1.9289 — 431 / 1.3364	8 / 2.6567 — – / 2.0403
	14 — 11	1 — 3	62 — 67	1 — 0
Ave. Wt.	12.5	2	64.5	.5
Solids	PPM — #/day	PPM — #/day	PPM — X 2.58	PPM — #/day
T.S.S.	520 — 11333	46 — 1003	1500 — 3870	17 — 370
T.F.S.	50 — 1090	8 — 174	645 — 1664	1 — 22
T.V.S.	470 — 10243	38 — 829	855 — 2206	16 — 348
	(25)	TOTAL SOLIDS (25)	(25)	(25)
Final Wt. Tare Wt.	4366 / 52.3992	2186 / 51.1955	8221 / 50.7635	287 / 54.4123
PPM	374 / 1496	231 / 924	586 / 2344	164 / 656
	11333 - 1003 = 10330 : 91.1	SET SOLIDS	3870 - 370 = 3500 = 90.4	Overall % Red.
	P' T.S.S. % Red.	- 19 / 3 / 16 mg/L	S' T.S.S. % Red.	T.S.S.
	P' JTU % Red.		Dissolved Solids 639	11333 - 370 = 10963 : 96.7
	B.P. Total Solids # Day	Kenyon		

$22.8\overset{21}{\underline{010}}_{11}$ $21.7\overset{9}{\underline{031}}_{8}$

9.5 X2=19

$23.1\overset{4}{\underline{711}}_{3}$ $21.7\overset{-}{\underline{814}}_{0}$

1.5 X2=3

Flow 2666200 403 1.15 Date 12-5/6-85

Air Temp. - F°

Sample	Before Primary	After Primary	Aeration I Tank	Secondary
Temp. F°	86°	79°	D.O. = 3.5	79°
pH	8.3	6.5	7.5	7.5
Turbidity JTU	Grab (10)	Grab (25)	Composite (10)	Composite (5)
Filtered Wt.	88 743	307 47	264 337	9 20
Original Wt.	20.0730 23.6684	22.6296 22.5457	21.7103 23.8173	22.4135 21.8314
	58 59	11 10	161 164	4 6
Ave. Wt.	58.5	10.5	162.5	5
Ashed Wt.	55 708	301 61	82 261	– –
Original Wt.	0.0730 3.6684	2.6296 2.5457	1.7103 3.8173	2.4135 1.8314
	25 24	5 4	79 88	
Ave. Wt.	24.5	4.5	83.5	0

Solids	PPM	#/day	PPM	#/day	PPM	X 2.58	PPM	#/day
T.S.S.	585	13042	42	936	1625	4193	10	223
T.F.S.	245	5462	18	401	835	2154	–	–
T.V.S.	340	7580	24	535	790	2039	10	223

TOTAL SOLIDS

Final Wt.	9189	8194	6462	343
Tare Wt.	53.8844	53.7941	50.5805	52.1208
	345	253	657	155
PPM	1380	1012	2628	620

13042 - 936 = 12106 : 92.8	SET SOLIDS	4193 - 223 = 3970 : 94.7	Overall % Red.
P' T.S.S. % Red.	17 – 5 = 12 mg/L	S' T.S.S. % Red.	T.S.S.
P' JTU % Red.		Dissolved Solids 610	13042 - 223 = 12819 = 98.3
B.P. Total Solids # Day	Y Genyon		

$$22.\underset{7}{\underline{7163}}^{70} \qquad 22.\underset{10}{\underline{3469}}^{79}$$

$8.5 \times 2 = 17$

$$22.\underset{2}{\underline{8261}}^{3} \qquad 21.5\underset{3}{\underline{269}}^{72}$$

$2.5 \times 2 = 5$

Flow 2666600 4.03 1.15 Date 11-4/5-85

Air Temp. - F° 24°

Sample	Before Primary	After Primary	Aeration I Tank	Secondary
Temp. F°	85°	78°	D.O. = 2.7	78°
pH	8.0	6.0	7.6	7.6
Turbidity JTU	Grab	Grab	Composite	Composite
Filtered Wt.	(10)	(25)	(10)	(50)
Original Wt.	9510 523 20.8952 23.3013	39 83 21.0624 22.7361	601 751 22.6437 20.1592	22 7 20.7618 22.4811
	558 510	15 22	164 159	4 6
Ave. Wt.	534	18.5	161.5	5
Ashed Wt.				
Original Wt.	9397 430 0.8952 3.3013	31 71 1.0624 2.7361	516 663 2.6437 0.1592	– – 0.7618 2.4811
	445 417	7 10	79 71	
Ave. Wt.	431	8.5	75	0
Solids	PPM #/day	PPM #/day	PPM X 2.58	PPM #/day
T.S.S.	5340 119053	74 1650	1615 4167	10 223
T.F.S.	4310 96089	34 758	750 1935	–
T.V.S.	1030 22964	40 892	865 2233	10
	(20)	TOTAL SOLIDS (35)	(35)	(40)
Final Wt.	7561	520	679	444
Tare Wt.	50.5964	51.2253	53.4080	53.7286
	1597	267	599	158
PPM	6388	1068	2396	632
	119053 -1650 117403 = 98.6 P' T.S.S. % Red.	SET SOLIDS 13 - 3 10 mg/L	4167 -223 3944 = 94.6 S' T.S.S. % Red.	Overall % Red. T.S.S.
	P' JTU % Red.		Dissolved Solids 622	119053 -223 118830 = 99.8
	B.P. Total Solids # Day	Kenyon		

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$21.\overset{86}{\underline{3678}}_{8}$ $\qquad$ $21.\overset{7}{\underline{4112}}_{5}$

$6.5 \times 2 = 13$

$22.\overset{8}{\underline{4926}}_{2}$ $\qquad$ $20.\overset{3}{\underline{3742}}_{1}$

$1.5 \times 2 = 3$

Flow 2701800 4.03 1.15 Date 12-3/4-85

Air Temp. - F° 23°

Sample	Before Primary	After Primary	Aeration I Tank	Secondary
Temp. F°	84°	78°	D.O.= 3.5	77°
pH	8.1	6.6	7.5	7.5
Turbidity JTU	Grab	Grab	Composite	Composite
Filtered Wt.	(10)	(25)	(10)	(50)
Original Wt.	97 2048 22.5036 21.1985	3015 114 22.2995 22.9098	21.0102 330 20.9950 22.7168	9 6 23.5576 22.6304
	61 63	20 16	152 162	3 2
Ave. Wt.	62	18	157	2.5
Ashed Wt.				
Original Wt.	51 2004 2.5036 1.1985	3003 102 2.2995 2.9098	1.0022 248 0.9950 2.7168	— — 3.5576 2.6304
	15 19	8 4	72 80	
Ave. Wt.	17	6	76	0
Solids	PPM #/day	PPM #/day	PPM X 2.58	PPM #/day
T.S.S.	620 13978	72 1623	1570 4051	5 113
T.F.S.	170 3833	24 541	760 1961	— —
T.V.S.	450 10145	48 1082	810 2090	5 113
	(26)	TOTAL SOLIDS (25)	(26)	(25)
Final Wt.	52.0217	532	734	790
Tare Wt.	51.9852	51.6270	50.6142	48.6640
PPM	365 1460	262 1048	592 2368	150 600
	13978 -1623 12355 = 88.4 P' T.S.S. % Red.	SET SOLIDS 11 - 1 10 mg/L	4051 -113 3938 = 97.2 S' T.S.S. % Red.	Overall % Red. T.S.S.
	P' JTU % Red.		Dissolved Solids 595	13978 -113 13865 = 99.2
	B.P. Total Solids # Day	Y Kenyon		

$21.4\overset{61}{\underset{6}{\underline{555}}}$ $21.6\overset{7}{\underset{5}{\underline{182}}}$

$5.5 \times 2 = 11$

$22.75\overset{2}{\underset{1}{\underline{31}}}$ $22.6\underset{0}{\underline{024}}$

$.5 \times 2 = 1$

12-½-Mill Starting

Flow 2396000 4.03 1.15 Date 12-2/3-85

Air Temp. - F° 23°

Sample	Before Primary	After Primary	Aeration I Tank	Secondary
Temp. F°	84°	75°	D.O. = 6.5	75°
pH	8.2	7.4	7.6	7.6
Turbidity JTU	Grab	Grab	Composite	Composite
Filtered Wt. Original Wt.	(10) 462 563 20.7298 22.2395	(25) 76 64 22.7256 20.0740	(10) 489 628 21.8320 22.5458	(50) 51 7 21.3346 21.4103
	164 168	20 24	169 170	5 4
Ave. Wt.	166	22	169.5	4.5
Ashed Wt. Original Wt.	409 507 0.7298 2.2395	66 52 2.7256 0.0740	413 548 1.8320 2.5458	– – 1.3346 1.4103
	111 112	10 12	93 90	
Ave. Wt.	111.5	11	91.5	0
Solids	PPM #/day	PPM #/day	PPM X 2.58	PPM #/day
T.S.S.	1660 33266	88 1764	1695 4373	9 180
T.F.S.	1115 22345	44 882	915 2361	– –
T.V.S.	545 10921	44 883	780 2012	9 180
	(25)	TOTAL SOLIDS (25)	(25)	(25)
Final Wt. Tare Wt.	8540 53.7940	9060 53.8839	824 52.1203	947 50.5803
PPM	600 2400	221 884	621 2484	144 576
	33266 -1764 31502 : 94.7	SET SOLIDS	4374 -180 4194 : 95.9	Overall % Red.
	P' T.S.S. % Red.	– 8 0 8 mg/L	S' T.S.S. % Red.	T.S.S.
	P' JTU % Red.		Dissolved Solids 567	33266 -180 33086 : 99.5
	B.P. Total Solids # Day	Y Kenyon		

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$22.4\overset{43}{\underset{3}{\overline{)39}}}$ $23.6\overset{6}{\underset{5}{\overline{)91}}}$

$4 \times 2 = 8$

22.7439 21.0148

0