



Practical Applications for WIMS Custom Data Entry Forms

Elizabeth Rideout

**Gwinnett County
Department of Water
Resources**

Introduction



Elizabeth Rideout

Data Analyst at Gwinnett County Department of Water Resources

Elizabeth.Rideout@gwinnettcounty.com

[Elizabeth Rideout - Data Analyst - Gwinnett County Government | LinkedIn](#)

Gwinnett County Facilities

- F. Wayne Hill WRF: 60 MGD
- Yellow River WRF: 22 MGD
- Crooked Creek WRF: 16 MGD
- Lanier Filter Plant & Shoal Creek Filter Plant: 200 MGD Combined Production Capacity
- 1 Million Residents

Benefits of Custom Data Entry Forms

- Consolidate number of entry sheets required
- Encapsulate complex processes
- Customize by facility
- Perform real-time calculations
- Monitor plant performance

Water Production Use Cases

LANIER FILTER PLANT

Laboratory Bench Sheet

Monday, August 28, 2023

	RAW WATER			OZONATED RAW WATER				POST FLOC	FILTERED WATER				FINISHED WATER										RECYCLED WATER																					
TIME	Alkalinity	Fe	Mn	Conductivity	pH		Turbidity	Raw Pre Cl2 Residual	Turbidity	pH	Combined Turbidity	Combined Turbidity	pH		CHLORINE RESIDUAL				Alkalinity	Fe	Mn	Conductivity	Phosphate	Fluoride	pH	Turbidity	OPERATOR INITIALS	SHIFT SUPERVISOR INITIALS	TIME															
					BENCH	TEMP (C)							BENCH	BENCH	BENCH	IN-LINE	BENCH	CHANNEL												OVERFLOW	IN-LINE MIN	PRIMARY	BENCH	BENCH	BENCH									
1:AM											0.03		6.85		3.25		2.32	2.47									JR		1:AM															
2:AM					6.49	21.00	0.498		1.08	6.39	0.03	0.050	6.86	7.25			2.33	2.33					0.93	0.76			JR		2:AM															
3:AM	14	0.02	0.00								0.03		6.89		3.14	2.40	2.32	2.35	23	0.01	0.006				6.97	0.48	RV		3:AM															
4:AM											0.03		6.90				2.31	2.33									RV		4:AM															
5:AM							0.438				0.03	0.061	6.91		3.04		2.31	2.34									RV		5:AM															
6:AM											0.03		6.92				2.31	2.34									RV		6:AM															
7:AM				51.8							0.03		6.93		2.99		2.30	2.30				85.2					LO	MT	7:AM															
8:AM					6.34	21.00	0.454		0.91	6.27	0.03	0.044	6.96	7.17			2.30	2.32					0.97	0.81			LO		8:AM															
9:AM	14	0.03	0.00								0.03		6.96		3.12	2.40	2.30	2.31	24	0.02	0.007				6.63	0.36	LO		9:AM															
10:AM											0.03		6.95				2.31	2.34									LO		10:AM															
11:AM							0.456				0.03	0.049	6.94		2.95		2.32	2.40									MC / ZH		11:AM															
12:N											0.03		6.93				2.33	2.22									ZH		12:N															
1:PM											0.03		6.91		2.81		2.31	2.31									ZH		1:PM															
2:PM					6.36	22.00	0.435		1.02	6.29	0.03	0.043	6.89	7.16			2.31	2.28					0.94	0.77			ZH		2:PM															
3:PM	13	0.03	0.00								0.03		6.88		2.96	2.41	2.31	2.32	23	0.01	0.009				6.89	1.01	SS		3:PM															
4:PM											0.03		6.88				2.30	2.41									SS		4:PM															
5:PM							0.441				0.03	0.052	6.88		2.88		2.29	2.33									SS		5:PM															
6:PM											0.03		6.88				2.29	2.38									SS		6:PM															
7:PM											0.03		6.85		2.96		2.28	2.19									RV	SS	7:PM															
8:PM					6.43	21.00	0.433		0.89	6.42	0.03	0.059	6.84	7.12			2.28	2.30					0.96	0.80			RV		8:PM															
9:PM	14	0.02	0.00								0.03		6.85		2.78	2.34	2.27	2.27	24	0.01	0.005				7.02	0.60	RV		9:PM															
10:PM											0.03		6.90				2.28	2.30									RV		10:PM															
11:PM							0.465				0.03	0.076	6.94		2.85		2.31	2.33									JWW		11:PM															
12:M											0.03		6.97				2.31	2.36									JWW		12:M															
RAINFALL @ 12 MIDNIGHT:																																												
0.66																																												

GWINNETT COUNTY DWR		
Water Production Division		
State Report - Lanier Filter Plant		
Monday, August 28, 2023		
Description	Units	Value
Quantity Withdrawn From Permitted Source:		
Lanier	MG	32.90
To Shoal Creek		0.00
Combined		32.90
Water Usage		
Processed or Treated thru Plant	MG	33.33
Treated Water Pumped to Dist. System	MG	81.41
Raw Water Quality		
pH		6.41
Alkalinity	mg/L	14
Temp	° C	21
Fe	mg/L	0.03
Mn	mg/L	0.00
Maximum Turbidity	NTU	0.50
Minimum Turbidity	NTU	0.43
Plant Operation		
Total Hours Plant Operated	hrs	24.00
Number of Filters Actually in Use		12
Maximum Settled Water Turbidity	NTU	1.08
Combined Filtered Water Quality		
pH		6.34
Maximum Turbidity	NTU	0.03
Minimum Turbidity	NTU	0.03
Average Turbidity	NTU	0.03
Total Number of Turbidity Measurements Performed		96.00
Maximum Filtered Particles (in 3-15 micron range)	particles/100ml	39.73
Parameters At Entry Point To Distribution System		
Fe	mg/L	0.01
Mn	mg/L	0.01
Fluoride	mg/L	0.79
Maximum pH		7.25
Minimum pH		7.12
Chlorine Minimum Free Available	mg/L	2.19
Chlorite (if ClO2 used)	mg/L	Left Blank Intentionally
Chlorine Dioxide (if ClO2 used)	mg/L	Left Blank Intentionally
Measurements At Peak Hourly Flow		
Peak Hourly Flow (PHF)	MGD	98.64
Chlorine Free Available at PHF	mg/L	2.34
Giardia log Inactivation		30.59
Virus log Inactivation (if ozone or chloramine used)		905.41
Minimum Free Chlorine Backup Data		

Ferric Chloride Usage

TIME	PLANT RATE (MGD)	DAY TANK LEVEL (ft)			
		START HR	BEF FILL	AFT FILL	USED
12 am	34.65	3.723			0.013
1 am	34.84	3.710			0.005
2 am	35.49	3.705			0.017
3 am	35.26	3.688			0.004
4 am	34.95	3.684			0.012
5 am	35.48	3.672			0.009
6 am	34.31	3.663			0.011
7 am	34.73	3.652			0.010
8 am	34.75	3.642			0.010
9 am	35.15	3.632			0.012
10 am	35.32	3.620			0.008
11 am	35.33	3.612			0.008
Noon	35.01	3.604			0.012
1 pm	35.08	3.592			0.009
2 pm	34.51	3.583			0.012
3 pm	34.52	3.571			0.007
4 pm	34.92	3.564			0.006
5 pm	35.45	3.558			0.005
6 pm	35.36	3.553			0.019
7 pm	35.32	3.534			0.008
8 pm	35.29	3.526			0.007
9 pm	35.22	3.519			0.005
10 pm	34.46	3.514			0.011
11 pm	34.78	3.503			0.009
		0.229 ft soln used			
		33.64 gal soln used			
		393 lb soln used			

Chlorine Gas Usage

SOUTH BANK SCALES WEIGHT (lb)								
1			2			3		
MIN	MAX	END	MIN	MAX	END	MIN	MAX	END
644	660	646	2629	2659	2631	3590	3607	3593
632	646	634	2602	2631	2603	3578	3595	3581
620	634	620	2572	2605	2575	3564	3581	3565
606	620	606	2545	2575	2547	3549	3567	3551
592	608	592	2516	2547	2519	3536	3552	3537
582	594	584	2494	2519	2495	3525	3539	3527
568	584	570	2467	2497	2469	3510	3527	3512
556	570	556	2440	2469	2443	3494	3512	3497
542	558	542	2408	2443	2410	3474	3499	3476
530	544	530	2382	2411	2384	3460	3476	3461
518	532	518	2356	2384	2357	3444	3463	3444
506	520	506	2329	2359	2331	3425	3447	3429
494	508	494	2304	2333	2305	3413	3431	3415
480	494	482	2275	2305	2277	3394	3415	3397
470	482	472	2254	2277	2256	3382	3399	3384
458	472	458	2228	2256	2229	3363	3385	3367
446	460	448	2202	2231	2203	3350	3369	3351
434	448	436	2176	2205	2177	3332	3353	3335
422	436	424	2151	2179	2153	3317	3335	3319
412	424	412	2126	2159	2127	3301	3319	3303
400	414	400	2100	2127	2102	3286	3305	3287
388	402	390	2074	2102	2076	3270	3289	3270
378	390	378	2048	2076	2050	3252	3272	3256
366	380	366	2024	2050	2024	3238	3256	3240
294 lb Cl2 gas used			635 lb Cl2 gas used			365 lb Cl2 gas used		

LFP Chemical Reorder Trigger Report

8/28/2023

Variable Name	Variable Number	Current Value	Reorder Point	Needs Reordered?
LFP Ferric Chlor Soln Bulk Tank 1 Level End Day	406333	6.55	4.25	No
LFP Ferric Chlor Soln Bulk Tank 1 Level End Day	406333	6.64	4.25	No
LFP Cat Polymer Bulk Tank 1 Level End Day	406205	4.03	3.00	No
LFP Cat Polymer Bulk Tank 2 Level End Day	406212	7.24	3.00	No
LFP Ortho-P Soln Bulk Tank 1 Lvl End Day	406116	5.33	4.25	No
LFP Ortho-P Soln Bulk Tank 2 Lvl End Day	406117	5.42	4.25	No
LFP Ortho-P Soln Bulk Tank 3 Lvl End Day	406119	5.33	4.25	No
LFP Ortho-P Soln Bulk Tank 4 Lvl End Day	406120	5.26	4.25	Yes
LFP Fluoride Soln Bulk Tank 3 Level End Day	406424	3.04	4.25	Yes
LFP LOX Storage Tank Level End Day	406510	233.25	180.00	No
LFP Nitrogen Tank % Full @ End of Day	406701	16.14	35.00	Yes
LFP Lime Feed Tank Level End Day	400675	16.77	10.00	No
LFP Lime Storage Tank Level End Day	400715	2.95	10.00	Yes

Lanier Filter Plant: Residuals Building Bench Sheet

Monday, August 28, 2023

Batch Conditioning

Time	Batch #	Pre-Clarifier #	Gravity Thickener #	CT #1 Level Start (Ft)	CT #1 Level Finish (Ft)	CT #2 Level Start (Ft)
7:00 AM						
9:00 AM						
11:00 AM						
1:00 PM						
3:00 PM						
5:00 PM						
7:00 PM						

Pre-Clarification Basin Lab Bench Sheet

Basin #	TSS (mg/L)		pH (SU)		Turbidity (NTU)	
	Influent	Effluent	Influent	Effluent	Influent	Effluent

Filter Press Operations

Time	Press #1 Run #	Press #2 Run #	Feed Cycle End Setpoint (GPM)	Feed Cycle Total Time (Mins)	Feed Cycle Total Volume (Gals)	Cake Solids (%)
7:00 AM						
9:00 AM						
11:00 AM						
1:00 PM						
3:00 PM						
5:00 PM						
7:00 PM						

Sludge Blanket Log

Time	Pre-Clarifier #	Gravity Thickener #	Center Level (ft)	Side Level (ft)	Operator Initials
7:00 AM					
9:00 AM					
11:00 AM					
1:00 PM					
3:00 PM					
5:00 PM					
7:00 PM					

Residuals Daily Operations

Quantity of Runs	Pressed Sludge (qals)	Average Cake % Solids	Dumpsters Emptied	Dumpster Weight (Wet Tons)	Dumpster Weight (Dry Tons)	Preclarifier Withdrawal Volume (qals)
------------------	-----------------------	-----------------------	-------------------	----------------------------	----------------------------	---------------------------------------

Water Reclamation Use Cases

CC WRF Wasting Calculator									
8/28/2023									
Target Aerobic SRT	7.0		Entered by Plant Staff					Calculated Aerated Volume	
MLSS	3113		Lab Data			BRB 1		2.25 MG	
Aerobic Vol	4.50		Pe-Set for 2 Bios			BRB 2		2.25 MG	
RAS TSS	13455		Lab Data			BRB 3		0.00 MG	
WAS Flow, MGD	0.15		Calculated Value			BRB 4		0.00 MG	
WAS Flow, gpm	103		Plant target for wasting						
								2.25 with AER1-7 aerobic	
								2.45 with AX3 also aerobic	
3-day Moving Avg SRT								2.65 with AX2, AX3 also aerobic	
3-day Aerobic SRT	7.0		Entered by Plant Staff						
MLSS	3083		Lab Data						
Aerobic Vol	4.50		Pe-Set for 2 Bios						
RAS TSS	12647		Lab Data						
WAS Flow, MGD	0.16		Calculated Value						
3-day Mov Avg WAS Flow, gpm	109		Plant target for wasting						

Ostara Reactor 1 Effluent Lab Data			
	Day	Night	
Reactor 1 Effluent OP			mg/L
Reactor 1 Effluent TP			mg/L
Reactor 1 Effluent Mg			mg/L
Reactor 1 Effluent pH			mg/L
Reactor 1 Effluent N			mg/L
Reactor 1 Effluent TSS			mg/L
Reactor 1 OP Removal Efficiency		%	
Reactor 1 TP Removal Efficiency		%	
Reactor 1 Mg Removal Efficiency	100	%	
Reactor 1 Ca Removal Efficiency	100	%	
Reactor 1 NH3 Removal Efficiency	100	%	
Reactor 1 TSS Removal Efficiency	100	%	
Reactor 1 Ortho P Load	186	kg/d	
FWH Reactor 1 Fines Loss		%	
FWH Reactor 1 % Yield		%	

Entries from Pearl Ostara Program		
P Loading Rate (Same across both reactors)	158.00	
Centrate PO4 (Same across both reactors)	83.00	
Filtrate PO4 (Same across both reactors)	88.00	
Ratio (Same across both reactors)	2	
Struvite Growth Ostara	2760	
Combined Influent PO4 (Same across both reactors)	86	
Reactor #1 Efficiency		
Reactor #2 Efficiency	0.61	
Calculated Seed Amount (Based on Entries Above)		
Calculated Seed Amount for Reactor #1		
Calculated Seed Amount for Reactor #2	201	
Operator Entries Based on Seed Type and Weight		
Type of Seed for Reactor #1		▼
Type of Seed for Reactor #2	45 SGN	▼
Actual Seed Weight Delivered to Reactor #1		
Actual Seed Weight Delivered to Reactor #2		

Ozone Residuals

Tuesday, August 29, 2023

Pre Ozone Residuals

	12:00am	4:00am	8:00am	12:00pm	4:00pm	8:00pm	AVG Daily Dosage
Contactor #1 Sample Port #1			0.34				
Contactor #1 Sample Port #2			0.22				
Contactor #2 Sample Port #1			0.29				
Contactor #2 Sample Port #2			0.18				
Contactor #3 Sample Port #1							
Contactor #3 Sample Port #2							
Contactor #4 Sample Port #1							
Contactor #4 Sample Port #2							

Post Ozone Residuals

	12:00am	4:00am	8:00am	12:00pm	4:00pm	8:00pm	AVG Daily Dosage
Contactor #1 Sample Port #0							
Contactor #1 Sample Port #1							
Contactor #1 Sample Port #2							
Contactor #2 Sample Port #0		0.20	0.49		0.32		
Contactor #2 Sample Port #1							
Contactor #2 Sample Port #2		0.10	0.19		0.16		
Contactor #4 Sample Port #0		0.21	0.40		0.18		
Contactor #4 Sample Port #1							
Contactor #4 Sample Port #2		0.04	0.23		0.22		
Contactor #5 Sample Port #0							
Contactor #5 Sample Port #1							
Contactor #5 Sample Port #2							

Solids Concentrations

Monday, August 28, 2023

	2:00am	8:00am	2:00pm	8:00pm					
	Primary Sludge Solids, % TS					TSS, mg/L			
Pri Clar #1					Influent		252		
Pri Clar #2		2.68			Primary Influent		160.00		
Pri Clar #3					Primary Effluent		56.00		
Pri Clar #4		2.16							
Pri Clar #5									
Pri Clar #6		2.63							
Pri Clar #7					RAS/WAS, RDT Feed				
Pri Clar #8		2.33			Combined Feed @ RDT, % TS		1.42		
Pri Clar #9		2.29			Primary Sludge, Avg % TS		2.42		
Pri Clar #10		2.42			RAS/ WAS TSS, mg/L		11379		
	2:00am	8:00am	2:00pm	8:00pm		Settleometers			SVI, mL/g
	Bioreactors MLSS, mg/L					5 min	30 min	60 min	30 min
Bio #1					Bio #1				
Bio #2		4215			Bio #2				
Bio #3		4502			Bio #3				
Bio #4		4292			Bio #4				
Bio #5		4167			Bio #5				
Bio #6					Bio #6				
Bio #7		4385			Bio #7				
Bio #8					Bio #8				
Bio #9					Bio #9				
Bio #10		4274			Bio #10				
					Target SVI Range (mL/g) - 80-120				

ROTATING DRUM THICKENERS

Tuesday, August 29, 2023

Centrate TSS Target < 200 mg/L, TWAS Target: 7.5% - 8.5 %

	Night AM	Day AM	Day PM	Night PM		Night AM	Day AM	Day PM	Night PM
RDT #1					RDT #2				
Time	1230	0730			Time	1230	0730	1249	
Centrate TSS	51	58			Centrate TSS	89	12	28	
TWAS %TS	7.63	7.54			TWAS %TS	7.02	6.83	6.74	
WAS GPM	291.00	291.00			WAS GPM	302.00	297.00	297.00	
PS GPM					PS GPM				
Polymer Ratio	27.00	27.00			Polymer Ratio	22.00	23.00	23.00	
Polymer GPM*	TBD	TBD	TBD	TBD	Polymer GPM*	TBD	TBD	TBD	TBD
Polymer, lb/DT*	TBD	TBD	TBD	TBD	Polymer, lb/DT*	TBD	TBD	TBD	TBD
Solids Loading Rate lb/hr	1893	1893			Solids Loading Rate lb/hr	1965	1932	1932	
Solids Capture Rate %	99.67	99.63			Solids Capture Rate %	99.44	99.93	99.83	
Drum Speed	25.00	25.00			Drum Speed	25.00	25.00	25.00	
Grease Can. %	79.00	77.00			Grease Can. %	79.00	77.00	76.00	
RDT #3					RDT #4				
Time					Time				
Centrate TSS					Centrate TSS				
TWAS %TS					TWAS %TS				
WAS GPM					WAS GPM				
PS GPM					PS GPM				
Polymer Ratio					Polymer Ratio				
Polymer GPM*	TBD	TBD	TBD	TBD	Polymer GPM*	TBD	TBD	TBD	TBD
Polymer, lb/DT*	TBD	TBD	TBD	TBD	Polymer, lb/DT*	TBD	TBD	TBD	TBD
Solids Loading Rate lb/hr					Solids Loading Rate lb/hr				



Gwinnett

Operations Process Control lab

Tuesday, August 29, 2023

Temperature				
	2am	8am	2pm	8pm
Influent	23.00	22.60	28.00	23.00
Primary Inf	23.60	23.30	28.50	23.60
Primary Eff	23.50	23.20	28.40	24.30
Bio #1 Eff				
Bio #2 Eff	24.10	23.80	27.80	25.10
Bio #3 Eff	24.10	23.80	28.00	25.00
Bio #4 Eff	24.20	24.00	28.00	25.00
Bio #5 Eff	24.10	24.20	27.60	24.90
Bio #6 Eff				
Bio #7 Eff	24.10	24.10	27.90	24.80
Bio #8 Eff				
Bio #9 Eff				
Bio #10 Eff	23.90	24.20	28.20	24.90
Secondary Eff	23.80	24.20	28.50	25.20
Secondary Eff - Duplicate	23.80			
Membrane Inf	24.60	23.90	30.00	25.00
Pre-Ozone Inf	24.90	23.80	29.60	25.20
Final Effluent	25.00	24.10	28.60	25.40

Ammonia NH3-N				
	2am	8am	2pm	8pm
Influent	32.20	33.60	43.00	50.80
Primary Inf	41.80	35.80	45.00	42.80
Primary Eff	21.20	16.80	28.20	29.60
Bio #1 Eff				
Bio #2 Eff	0.34	0.22	0.25	0.21
Bio #3 Eff	0.36	0.23	0.24	0.24

pH				
	2am	8am	2pm	8pm
Influent	6.99	7.18	7.16	7.31
Primary Inf	7.13	6.95	7.28	7.39
Primary Eff	7.09	7.29	7.28	7.22
Bio #1 Eff				
Bio #2 Eff	6.61	6.77	6.67	6.64
Bio #3 Eff	6.59	6.78	6.60	6.65
Bio #4 Eff	6.58	6.71	6.60	6.63
Bio #5 Eff	6.55	6.70	6.63	6.59
Bio #6 Eff				
Bio #7 Eff	6.56	6.76	6.63	6.63
Bio #8 Eff				
Bio #9 Eff				
Bio #10 Eff	6.57	6.67	6.61	6.60
Secondary Eff	7.03	7.09	7.10	6.91
Secondary Eff - Duplicate	7.03			
Membrane Inf	6.96	7.02	7.07	6.93
Pre-Ozone Inf	6.96	7.05	7.06	7.09

Alkalinity				
	2am	8am	2pm	8pm
Influent		178.00		270.00
Primary Eff		190.00		200.00
Secondary Eff		112.00		110.00
Final Effluent		84.00		102.00

Orthophosphate PO4-P				
	2am	8am	2pm	8pm
Influent	3.20	4.20	12.60	6.40
Primary Inf	4.40	4.20	13.60	5.80
Primary Eff	4.80	4.20	7.20	5.40
Bio #1 Eff				
Bio #2 Eff	0.08	0.04	0.07	0.07
Bio #3 Eff	0.07	0.04	0.06	0.07
Bio #4 Eff	0.08	0.04	0.06	0.08
Bio #5 Eff	0.09	0.04	0.06	0.09
Bio #6 Eff				
Bio #7 Eff	0.08	0.04	0.08	0.07
Bio #8 Eff				
Bio #9 Eff				
Bio #10 Eff	0.09	0.04	0.06	0.08
Secondary Eff	0.08	0.07	0.09	0.07
Secondary Eff - Duplicate	0.08	0.08	0.09	0.08
Membrane Inf	0.02	0.02	0.04	0.03
Pre-Ozone Inf	0.02	0.01	0.02	0.03
Final Effluent	0.01	0.01	0.02	0.03

Nitrate				
	2am	8am	2pm	8pm
Influent		0.62		
Prim Eff		2.84		
Bio #1 Eff				
Bio #2 Eff		6.00		
Bio #3 Eff		5.11		
Bio #4 Eff		7.15		

ZeeWeed Recovery Clean Operator Log

Tuesday, August 29, 2023

Please collect all data; do not leave blanks

	Cleaning Chemical	Am't Used	Before Clean			CI Residual or pH			After Clean			Soak Time	Feed Water Temp when Back in Operation
			Flow	TMP	# Modules Isolated	Start (30 min after Mix)	Middle	End	Flow	TMP	# Modules Isolated		
Train 1													
First Cleaning	<div style="background-color: #0070C0; color: white; padding: 2px;">▼</div>												
Second Cleaning	Citric Hypo												
Train 2													
First Cleaning	<div style="background-color: #0070C0; color: white; padding: 2px;">▼</div>												
Second Cleaning	<div style="background-color: #0070C0; color: white; padding: 2px;">▼</div>												
Train 3													
First Cleaning	<div style="background-color: #0070C0; color: white; padding: 2px;">▼</div>												
Second Cleaning	<div style="background-color: #0070C0; color: white; padding: 2px;">▼</div>												
Train 4													
First Cleaning	<div style="background-color: #0070C0; color: white; padding: 2px;">▼</div>												
Second Cleaning	<div style="background-color: #0070C0; color: white; padding: 2px;">▼</div>												
Train 5													
First Cleaning	<div style="background-color: #0070C0; color: white; padding: 2px;">▼</div>												
Second Cleaning	<div style="background-color: #0070C0; color: white; padding: 2px;">▼</div>												
Train 6													
First Cleaning	<div style="background-color: #0070C0; color: white; padding: 2px;">▼</div>												
Second Cleaning	<div style="background-color: #0070C0; color: white; padding: 2px;">▼</div>												

		Belt Filter Press #1		Belt Filter Press #2		Belt Filter Press #3		Belt Filter Press #4	
	Mon, Aug 28	Sludge Feed Rate gpm	Dilution Water gph	Sludge Feed Rate gpm	Dilution Water gph	Sludge Feed Rate gpm	Dilution Water gph	Sludge Feed Rate gpm	Dilution Water gph
	7 am								
	8 am								
	9 am								
	10 am								
	11 am								
	Noon								
	1 pm								
	2 pm								
	3 pm								
	4 pm								
	5 pm								
	6 pm								
	7 pm	201	224.63	193	0.00			150	167.14
	8 pm	218	252.97	217	0.00			229	255.03
	9 pm	219	250.02	217	0.00			229	256.64
	10 pm	219	247.97	218	0.00			229	254.69
	11 pm	219	257.56	218	0.00			230	251.15
	Tue, Aug 29	220	251.86	217	0.00			231	257.07
	1 am								
	2 am								
	3 am								
	4 am								
	5 am								
	6 -7 am								
Run Time Total (AM Shift)									hr
Run Time Total (PM Shift)		6.50		6.50				6.00	hr
Total Sludge Feed		74039		126594		0		130601	gal

Sludge Blanket Levels	
1	100
2	100
3	100
4	100
5	100
6	100
7	100
8	100
9	100
10	100
11	100
12	100
13	100
14	100
15	100
16	100
17	100
18	100
19	100
20	100
21	100
22	100
23	100
24	100
25	100
26	100
27	100
28	100
29	100
30	100
31	100
32	100
33	100
34	100
35	100
36	100
37	100
38	100
39	100
40	100
41	100
42	100
43	100
44	100
45	100
46	100
47	100
48	100
49	100
50	100
51	100
52	100
53	100
54	100
55	100
56	100
57	100
58	100
59	100
60	100
61	100
62	100
63	100
64	100
65	100
66	100
67	100
68	100
69	100
70	100
71	100
72	100
73	100
74	100
75	100
76	100
77	100
78	100
79	100
80	100
81	100
82	100
83	100
84	100
85	100
86	100
87	100
88	100
89	100
90	100
91	100
92	100
93	100
94	100
95	100
96	100
97	100
98	100
99	100
100	100

Tuesday, August 29, 2023

[illegible]

Q&A

Feel free to contact me at Elizabeth.Rideout@gwinnettcountry.com