Monthly WWTP Report

Barnhardt Manufacturing Company

247 Main Road

Colrain,Ma. 01340

Griswoldviile WWTP Monthly State Report

Month: April 2019

DAY	Monday	Tuesday	Wed	Thursday	Friday	Saturday	Sunday	Average	Total
DATE	04/08/19	04/09/19	04/10/19	04/11/19	04/12/19	04/13/19	04/14/19		
FLOW									
Effluent Flow (gal/day)	375,751	355,614	320,287	358,188	387,793	352,242	104,780	322,094	2,254,655
Return Sludge Flow (gal/day)	377,031	364,551	373,160	369,322	381,320	425,548	327,544	374,068	
Belt Press Feed (gal/day)	40,850	40,525	20,086	41,000	40,600			36,612	183,061
Water From River (gal/day)	519,640	440,892	417,651	477,824	490,052	328,986	252,291	418,191	2,927,336
Water To Bleachery (gal/day)	363,930	295,503	285,530	329,560	342,625	201,605	109,677	275,490	1,928,430
Effluent - River (gal/day)	(143,889)	(85,278)	(97,364)	(119,636)	(102,259)	23,256	(147,511)	(96,097)	(672,681)
COD									
Influent COD (mg/L)									
Effluent COD (mg/L)									
Effluent COD (lb)									
% COD Reduction									
	LBS = mg/L*MGD*8.34								
BOD5									
Final Effluent (mg/L)									
Final Effluent (lb)									
	LBS = mg/L*MGD*8.34								
SUSPENDED SOLIDS									
MLSS, North Lagoon (mg/L)	1,000	1,264	1,208	1,068	1,088			1,126	
MLVSS, North Lagoon (mg/L)			1,108					1,108	
MLSS, South Lagoon (mg/L)								#DIV/0!	
MLVSS, South Lagoon (mg/L)								#DIV/0!	
MLSS, Return Sludge (mg/L)	2,992	4,000	3,800	1,920	2,010			2,944	
MLVSS, Return Sludge (mg/L)			3,600					3,600	
Influent TSS (mg/L)		2						2	
Effluent TSS (mg/L)		1						1	
Effluent TSS (lb)		3						3	
% TSS Reduction		50						50	
	LBS = mg/L*MGD*8.34								
SETTLEABILITY									
North Lagoon (mL/L)	170	150	160	160	160			160	
South Lagoon (mL/L)								#DIV/0!	
SLUDGE BLANKET									
North Clarifier (ft)	3	3	4.0	4.0	3.0			3.4	
South Clarifier (ft)	0	0	0.0	0.0	0.0			0.0	
SULFIDE									
Effluent Sulfide (mg/L)									
Effluent Sulfide (lb/day)									
	LBS = mg/L*MGD*8.34								
WEATHER									
Rainfall (inches)	0.20	0.25	0.40	0.00	0.00	0.28	0.00		1.13
Air Temperature (deg F)	46	38	40	28	39	50	48	41	

Maximum Effluent Daily Flow: 387,793 gal.

Maximum Effluent Temperature: 84

Per 314 CMR Chapter 12.07 (2)

Send to:

Department of Environmental Protection

Attention: Industrial Wastewater Compliance

436 Dwight Street

Springfield, Ma. 01103

DAY	Monday	Tuesday	Wed	Thursday	Friday	Saturday	Sunday	Average	Total
DATE	04/08/19	04/09/19	04/10/19	04/11/19	04/12/19	04/13/19	04/14/19		
WATER TEMPERATURE									
Raw Influent (deg. F)	112	106	103	103	106			106	
North Lagoon (deg. F)	85	86	86	85	86			86	
South Lagoon (deg. F)								#DIV/0!	
Effluent Temp(deg F)	84	84	83	84	84			84	
N. River Downstream (deg.F)								#DIV/0!	
DISSOLVED OXYGEN									
North Lagoon (mg/L)	6.03	6.52	5.56	5.31	4.19	5.76	6.73	5.73	
South Lagoon (mg/L)								#DIV/0!	
PH									
Raw Influent	11.47	11.37	11.36	11.33	11.37			11.4	
North Lagoon	8.29	8.22	8.41	8.50	8.36	8.45	8.44	8.38	
South Lagoon								#DIV/0!	
Final Effluent	8.41	8.43	8.38	8.53	8.02	8.38	8.52	8.38	
NITROGEN,COPPER, PHOS									
Effluent Total Phoshorus (mg/L)									
Effluent Total Copper (mg/L)									
Effluent Nitrite - N (mg/L)									
Effluent Nitrate - N (mg/L)									
Effluent Nitrogen Tot Kjeldahl (mg/L)									
Effluent Ammonia (mg/L -N)									
Effluent Ammonia (lb)									
BELT PRESS									
Hours Run	7.0	6.0	4.0	6.0	6.0			5.8	29.0
Polymer Used (lb)	70.0	60.0	40.0	60.0	60.0			58.0	290.0
Total Solids, % Cake	11.0	11.0	11.0	11.0	11.0			11.0	
Cubic Yards of Sludge Wasted	6.0	6.0	3.0	6.0	6.0			5.4	27.0
Dry Tons	0.4	0.40	0.2	0.4	0.4			0.4	1.8
	DRY TONS = Cubic yds sludge * 1120 lbs/yd * % Solids/2000								
E. COLIFORM (#/100 mL)									
cfu/100 ml			<10						
MICROSCOPIC EVALUATION									
Floc Size (S/M/L)	**s/m**	**s/m**	**s/m**	**s/m**	**s/m**				
Filamentous Extending (Y/N)	**y**	**y**	**y**	**y**	**y**				
Filamentous Bridging (Y/N)	**y**	**y**	**y**	**y**	**y**				
Higher Life (Y/N)	**y**	**y**	**y**	**y**	**y**				
Pin Floc (Y/N)	**y**	**y**	**y**	**y**	**y**				

Average weekly effluent: 322,094 PH Max: 8.5 PH Min: 8.0

I certify that this information is true and accurate to the best of my knowledge: Name:Keith Gammell Operator Grade 5C FULL

Signature: Date: Per 314 CMR Chapter 12.07 (2)