Monthly WWTP Report

Barnhardt Manufacturing Company

247 Main Road

Colrain,Ma. 01340

Griswoldviile WWTP Monthly State Report

Month: May 2020

DAY	Monday	Tuesday	Wed	Thursday	Friday	Saturday	Sunday	Average	Total
DATE	05/25/20	05/26/20	05/27/20	05/28/20	05/29/20	05/30/20	05/31/20		
FLOW									
Effluent Flow (gal/day)	36,609	274,139	272,357	279,807	330,967	33,473	116,472	191,975	1,343,824
Return Sludge Flow (gal/day)	356,250	351,281	342,765	319,079	317,720	333,606	303,914	332,088	
Belt Press Feed (gal/day)	n/f	54,108	46,586	52,580	45,170			49,611	198,444
Water From River (gal/day)	177,136	382,088	356,200	375,601	299,538	108,126	237,648	276,620	1,936,337
Water To Bleachery (gal/day)	76,260	241,965	214,306	228,962	175,694	7,402	80,999	146,513	1,025,588
Effluent - River (gal/day)	(140,527)	(107,949)	(83,843)	(95,794)	31,429	(74,653)	(121,176)	(84,645)	(592,513)
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)	n/d	1,080	1,080	1,320	1,280			1,190	
MLVSS, North Lagoon (mg/L)			976					976	
MLSS, South Lagoon (mg/L)								#DIV/0!	
MLVSS, South Lagoon (mg/L)								#DIV/0!	
MLSS, Return Sludge (mg/L)	n/d	4,100	600	5,640	4,000			3,585	
MLVSS, Return Sludge (mg/L)			530					530	
Influent TSS (mg/L)		10						10	
Effluent TSS (mg/L)		10						10	
Effluent TSS (lb)		3						3	
% TSS Reduction		100						100	
	LBS = mg/L*MGD*8.34								
SETTLEABILITY									
North Lagoon (mL/L)	n/d	300	350	360	370			345	
South Lagoon (mL/L)								#DIV/0!	
SLUDGE BLANKET									
North Clarifier (ft)	n/d	3	0.0	3.0	3.0			2.3	
South Clarifier (ft)	n/d	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)	0.00	0.00	0.00	0.00	0.00	0.06	0.00		0.06
Air Temperature (deg F)	52	56	64	66	72	65	56	62	

Maximum Effluent Daily Flow: 330,967 gal.

Maximum Effluent Temperature: 96

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	05/25/20	05/26/20	05/27/20	05/28/20	05/29/20	05/30/20	05/31/20		
WATER TEMPERATURE									
Raw Influent (deg. F)	n/d	94	108	110	108			105	
North Lagoon (deg. F)	n/d	86	90	94	96			92	
South Lagoon (deg. F)								#DIV/0!	
Effluent Temp(deg F)	n/d	88	90	92	96			92	
N. River Downstream (deg.F)								#DIV/0!	
DISSOLVED OXYGEN									
North Lagoon (mg/L)	7.22	6.40	0.86	3.32	4.03	5.15	7.06	4.86	
South Lagoon (mg/L)								#DIV/0!	
PH									
Raw Influent	n/d	11.98	12.03	11.73	11.90			11.9	
North Lagoon	8.13	8.52	8.87	8.72	8.61	7.95	8.10	8.41	
South Lagoon								#DIV/0!	
Final Effluent	8.13	8.38	8.89	8.71	8.64	8.21	8.13	8.44	
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	n/f	7.0	7.0	7.0	7.0			7.0	28.0
Polymer Used (lb)	n/f	80.0	80.0	80.0	80.0			80.0	320.0
Total Solids, % Cake	n/f	13.0	13.0	13.0	12.0			12.8	
Cubic Yards of Sludge Wasted	n/f	10.0	10.0	9.0	10.0			9.8	39.0
Dry Tons	n/f	1.20	1.2	1.1	1.2			1.2	4.7
	DRY TONS = Cubic yds sludge * 1120 lbs/yd * % Solids/2000								
E. COLIFORM (#/100 mL)									
cfu/100 ml			41.0						
MICROSCOPIC EVALUATION									
Floc Size (S/M/L)	**n/d**	**s/m**	**s/m**	**s/m**	**s/m**				
Filamentous Extending (Y/N)	**n/d**	**y**	**y**	**y**	**y**				
Filamentous Bridging (Y/N)	**n/d**	**y**	**y**	**y**	**y**				
Higher Life (Y/N)	**n/d**	**y**	**y**	**y**	**y**				
Pin Floc (Y/N)	**n/d**	**y**	**y**	**y**	**y**				

Average weekly effluent: 191,975 PH Max: 8.9 PH Min: 8.1

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

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