Monthly WWTP Report

Barnhardt Manufacturing Company

247 Main Road

Colrain,Ma. 01340

Griswoldviile WWTP Monthly State Report

Month:August 2021

DAY	Monday	Tuesday	Wed	Thursday	Friday	Saturday	Sunday	Average	Total
DATE	08/16/21	08/17/21	08/18/21	08/19/21	08/20/21	08/21/21	08/22/21		
FLOW									
Effluent Flow (gal/day)	182,677	222,130	244,377	215,073	213,002	106,906	72,390	179,508	1,256,555
Return Sludge Flow (gal/day)	72,033	62,164	60,270	160,652	167,130	163,200	133,828	117,040	
Belt Press Feed (gal/day)	n-f	22,894	20,002	n-f	n-f			21,448	42,896
Water From River (gal/day)	328,412	339,658	313,246	325,340	259,500	139,700	34,734	248,656	1,740,590
									0
Effluent - River (gal/day)	(145,735)	(117,528)	(68,869)	(110,267)	(46,498)	(32,794)	37,656	(69,148)	(484,035)
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)	1,200	1,200	1,116	1,200	1,200			1,183	
MLVSS, North Lagoon (mg/L)			950					950	
MLSS, South Lagoon (mg/L)								#DIV/0!	
MLVSS, South Lagoon (mg/L)								#DIV/0!	
MLSS, Return Sludge (mg/L)	5,000	2,800	4,500	4,200	3,860			4,072	
MLVSS, Return Sludge (mg/L)			3,750					3,750	
Influent TSS (mg/L)		12						12	
Effluent TSS (mg/L)		2						2	
Effluent TSS (lb)		3						3	
% TSS Reduction		83						83	
	LBS = mg/L*MGD*8.34								
SETTLEABILITY									
North Lagoon (mL/L)	180	160	180	160	200			176	
South Lagoon (mL/L)								#DIV/0!	
SLUDGE BLANKET									
North Clarifier (ft)	1	1	1.0	1.0	1.0			1.0	
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)	0.00	0.00	0.00	0.44	1.38	0.00	0.00		1.82
Air Temperature (deg F)	54	58	70	70	70	72	74	67	

Maximum Effluent Daily Flow: 244,377 gal.

Maximum Effluent Temperature: 94

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	08/16/21	08/17/21	08/18/21	08/19/21	08/20/21	08/21/21	08/22/21		
WATER TEMPERATURE									
Raw Influent (deg. F)	98	101	112	110	110			106	
North Lagoon (deg. F)	84	86	90	93	96			90	
South Lagoon (deg. F)								#DIV/0!	
Effluent Temp(deg F)	90	86	90	90	94			90	
N. River Downstream (deg.F)								#DIV/0!	
DISSOLVED OXYGEN									
North Lagoon (mg/L)	7.04	5.72	6.21	6.01	5.18	5.73	5.96	5.98	
South Lagoon (mg/L)								#DIV/0!	
PH									
Raw Influent	10.93	11.27	11.03	11.01	10.67			11.0	
North Lagoon	8.37	8.32	8.26	8.36	8.32	7.63	7.76	8.15	
South Lagoon								#DIV/0!	
Final Effluent	8.33	8.26	8.19	8.23	8.21	7.07	7.11	7.91	
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	4.0	4.0	n-f	n-f			4.0	8.0
Polymer Used (lb)	n-f	50.0	50.0	n-f	n-f			50.0	100.0
Total Solids, % Cake	n-f	13.0	13.0	n-f	n-f			13.0	
Cubic Yards of Sludge Wasted	n-f	3.0	3.0	n-f	n-f			3.0	6.0
Dry Tons	n-f	0.25	0.3	n-f	n-f			0.3	0.5
	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	s	ss	s	s				
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: 179,508 PH Max: 8.3 PH Min: 7.1

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)