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	08/09/21	08/10/21	08/11/21	08/12/21	08/13/21	08/14/21	08/15/21		
FLOW									
Effluent Flow (gal/day)	155,344	62,491	112,406	216,853	167,197	106,623	70,676	127,370	891,590
Return Sludge Flow (gal/day)	74,775	88,216	58,823	33,687	169,740	205,176	202,932	119,050	
Belt Press Feed (gal/day)	n-f	n-f	n-f	n-f	21,777			21,777	21,777
Water From River (gal/day)	158,280	142,979	250,963	292,240	244,414	138,205	220,627	206,815	1,447,708
									0
Effluent - River (gal/day)	(2,936)	(80,488)	(138,557)	(75,387)	(77,217)	(31,582)	(149,951)	(79,445)	(556,118)
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)	1,056	1,080	1,320	1,120	1,040			1,123	
MLVSS, North Lagoon (mg/L)			1,000					1,000	
MLSS, South Lagoon (mg/L)								#DIV/0!	
MLVSS, South Lagoon (mg/L)								#DIV/0!	
MLSS, Return Sludge (mg/L)	9,180	5,200	4,750	5,600	8,210			6,588	
MLVSS, Return Sludge (mg/L)			3,750					3,750	
Influent TSS (mg/L)		1						1	
Effluent TSS (mg/L)		1						1	
Effluent TSS (lb)		1						1	
% TSS Reduction		100						100	
	LBS = mg/L*MGD*8.34								
SETTLEABILITY									
North Lagoon (mL/L)	170	170	180	200	200			184	
South Lagoon (mL/L)								#DIV/0!	
SLUDGE BLANKET									
North Clarifier (ft)	0	1	1.0	1.0	1.0			0.8	
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	0.00	0.04	0.00	0.03		0.07
Air Temperature (deg F)	68	70	72	76	72	74	58	70	

Maximum Effluent Daily Flow: 216,853 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	08/09/21	08/10/21	08/11/21	08/12/21	08/13/21	08/14/21	08/15/21		
WATER TEMPERATURE									
Raw Influent (deg. F)	120	80	80	95	97			94	
North Lagoon (deg. F)	90	90	90	91	95			91	
South Lagoon (deg. F)								#DIV/0!	
Effluent Temp(deg F)	90	90	90	91	94			91	
N. River Downstream (deg.F)								#DIV/0!	
DISSOLVED OXYGEN									
North Lagoon (mg/L)	5.62	7.62	7.96	7.06	6.07	6.00	6.25	6.65	
South Lagoon (mg/L)								#DIV/0!	
PH									
Raw Influent	11.95	9.31	9.64	11.16	10.33			10.5	
North Lagoon	8.45	8.30	8.35	8.38	8.06	7.63	7.74	8.13	
South Lagoon								#DIV/0!	
Final Effluent	8.18	8.27	8.26	8.33	8.15	7.65	7.55	8.06	
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	n-f	n-f	n-f	5.0			5.0	5.0
Polymer Used (lb)	n-f	n-f	n-f	n-f	60.0			60.0	60.0
Total Solids, % Cake	n-f	n-f	n-f	n-f	13.0			13.0	
Cubic Yards of Sludge Wasted	n-f	n-f	n-f	n-f	3.0			3.0	3.0
Dry Tons	n-f	n-f	n-f	n-f	0.2			0.2	0.2
	DRY TONS = Cubic yds sludge * 1120 lbs/yd * % Solids/2000								
E. COLIFORM (#/100 mL)									
cfu/100 ml			30.0						
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: 127,370 PH Max: PH Min: 7.6

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)