Monthly WWTP Report

Barnhardt Manufacturing Company

247 Main Road

Colrain,Ma. 01340

Griswoldviile WWTP Monthly State Report

month : September, 2017

DAY	Monday	Tuesday	Wed	Thursday	Friday	Saturday	Sunday	Average	Total
DATE					09/01/17	09/02/17	09/03/17		
FLOW									
Effluent Flow (gal/day)					243,006	32,803	143,280	139,696	419,089
Return Sludge Flow (gal/day)					408,390	376,910	386,400	390,567	
Belt Press Feed (gal/day)					74,900			74,900	74,900
Water From River (gal/day)					293,777	76,276	163,212	177,755	533,265
Water To Bleachery (gal/day)								#DIV/0!	0
Effluent - River (gal/day)	0	0	0	0	(50,771)	(43,473)	(19,932)	(16,311)	(114,176)
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)					1,900			1,900	
MLVSS, North Lagoon (mg/L)								#DIV/0!	
MLSS, South Lagoon (mg/L)					1,920			1,920	
MLVSS, South Lagoon (mg/L)								#DIV/0!	
MLSS, Return Sludge (mg/L)					7,120			7,120	
MLVSS, Return Sludge (mg/L)								#DIV/0!	
Influent TSS (mg/L)								#DIV/0!	
Effluent TSS (mg/L)								#DIV/0!	
Effluent TSS (lb)								#DIV/0!	
% TSS Reduction								#DIV/0!	
	LBS = mg/L*MGD*8.34								
SETTLEABILITY									
North Lagoon (mL/L)					270			270	
South Lagoon (mL/L)					280			280	
SLUDGE BLANKET									
North Clarifier (ft)					4.0			4.0	
South Clarifier (ft)					1.0			1.0	
SULFIDE									
Effluent Sulfide (mg/L)									
Effluent Sulfide (lb/day)									
	LBS = mg/L*MGD*8.34								
WEATHER									
Rainfall (inches)					0.00	0.00	0.08		0.08
Air Temperature (deg F)					44	44	54	47	

Maximum Effluent Daily Flow: 243,006 gal.

Maximum Effluent Temperature: 89

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					09/01/17	09/02/17	09/03/17		
WATER TEMPERATURE									
Raw Influent (deg. F)					105			105	
North Lagoon (deg. F)					90			90	
South Lagoon (deg. F)					89			89	
Effluent Temp(deg F)					89			89	
N. River Downstream (deg.F)								#DIV/0!	
DISSOLVED OXYGEN									
North Lagoon (mg/L)					4.13	7.42	7.60	6.38	
South Lagoon (mg/L)					4.43	6.74	6.93	6.03	
PH									
Raw Influent					11.14			11.1	
North Lagoon					8.39			8.39	
South Lagoon					8.44	8.10	8.18	8.24	
Final Effluent					8.21	8.03	7.99	8.08	
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					24.0			24.0	24.0
Polymer Used (lb)					240.0			240.0	240.0
Total Solids, % Cake					11.0			11.0	
Cubic Yards of Sludge Wasted					18.0			18.0	18.0
Dry Tons					1.2			1.2	1.2
	DRY TONS = Cubic yds sludge * 1120 lbs/yd * % Solids/2000								
E. COLIFORM (#/100 mL)									
cfu/100 ml									
MICROSCOPIC EVALUATION									
Floc Size (S/M/L)					s/m				
Filamentous Extending (Y/N)					y				
Filamentous Bridging (Y/N)					y				
Higher Life (Y/N)					y				
Pin Floc (Y/N)					y				

Average weekly effluent: 139,696 PH Max: 8.2 PH Min: 8.0

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)

Monthly WWTP Report

Barnhardt Manufacturing Company

247 Main Road

Colrain,Ma. 01340

Griswoldviile WWTP Monthly State Report

month : September, 2017

DAY	Monday	Tuesday	Wed	Thursday	Friday	Saturday	Sunday	Average	Total
DATE	09/04/17	09/05/17	09/06/17	09/07/17	09/08/17	09/09/17	09/10/17		
FLOW									
Effluent Flow (gal/day)	161,529	300,365	335,984	309,720	314,649	28,759	35,023	212,290	1,486,029
Return Sludge Flow (gal/day)	390,272	288,034	316,175	329,187	349,670	377,300	373,504	346,306	
Belt Press Feed (gal/day)								#DIV/0!	0
Water From River (gal/day)	185,754	365,872	456,778	401,062	292,280	71,450	205,052	282,607	1,978,248
Water To Bleachery (gal/day)								#DIV/0!	0
Effluent - River (gal/day)	(24,225)	(65,507)	(120,794)	(91,342)	22,369	(42,691)	(170,029)	(70,317)	(492,219)
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)		1,830	1,840	1,820	1,810			1,825	
MLVSS, North Lagoon (mg/L)			1,560					1,560	
MLSS, South Lagoon (mg/L)		1,970	1,950	2,040	1,970			1,983	
MLVSS, South Lagoon (mg/L)			1,647					1,647	
MLSS, Return Sludge (mg/L)		7,110	7,215	8,270	7,210			7,451	
MLVSS, Return Sludge (mg/L)			6,395					6,395	
Influent TSS (mg/L)		47						47	
Effluent TSS (mg/L)		37						37	
Effluent TSS (lb)		49						49	
% TSS Reduction		21						21	
	LBS = mg/L*MGD*8.34								
SETTLEABILITY									
North Lagoon (mL/L)		270	280	280	280			278	
South Lagoon (mL/L)		270	290	290	280			283	
SLUDGE BLANKET									
North Clarifier (ft)		1	3.0	3.0	3.0			2.5	
South Clarifier (ft)		0	1.0	1.0	1.0			0.8	
SULFIDE									
Effluent Sulfide (mg/L)									
Effluent Sulfide (lb/day)									
	LBS = mg/L*MGD*8.34								
WEATHER									
Rainfall (inches)	1.26	0.05	0.12	0.88	0.05	0.00	0.00		2.36
Air Temperature (deg F)	58	60	64	60	51	47	46	55	

Maximum Effluent Daily Flow: 335,984 gal.

Maximum Effluent Temperature: 83

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	09/04/17	09/05/17	09/06/17	09/07/17	09/08/17	09/09/17	09/10/17		
WATER TEMPERATURE									
Raw Influent (deg. F)		106	90	104	102			101	
North Lagoon (deg. F)		81	82	84	85			83	
South Lagoon (deg. F)		80	81	83	84			82	
Effluent Temp(deg F)		80	81	83	83			82	
N. River Downstream (deg.F)								#DIV/0!	
DISSOLVED OXYGEN									
North Lagoon (mg/L)	7.81	6.18	6.36	4.70	4.55	7.43	7.65	6.38	
South Lagoon (mg/L)	7.15	6.45	6.87	4.83	4.63	6.86	7.04	6.26	
PH									
Raw Influent		9.35	9.87	10.16	10.17			9.9	
North Lagoon		8.17	8.15	8.30	8.31			8.23	
South Lagoon	8.27	8.15	8.13	8.29	8.29	8.12	8.23	8.21	
Final Effluent	8.03	8.23	7.95	8.09	8.02	7.94	7.93	8.03	
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								#DIV/0!	0.0
Polymer Used (lb)								#DIV/0!	0.0
Total Solids, % Cake								#DIV/0!	
Cubic Yards of Sludge Wasted								#DIV/0!	0.0
Dry Tons								#DIV/0!	0.0
	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				
Filamentous Extending (Y/N)		y	y	y	y				
Filamentous Bridging (Y/N)		y	y	y	y				
Higher Life (Y/N)		y	y	y	y				
Pin Floc (Y/N)		y	y	y	y				

Average weekly effluent: 212,290 PH Max: 8.2 PH Min: 7.9

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)

Monthly WWTP Report

Barnhardt Manufacturing Company

247 Main Road

Colrain,Ma. 01340

Griswoldviile WWTP Monthly State Report

month : September, 2017

DAY	Monday	Tuesday	Wed	Thursday	Friday	Saturday	Sunday	Average	Total
DATE	09/11/17	09/12/17	09/13/17	09/14/17	09/15/17	09/16/17	09/17/17		
FLOW									
Effluent Flow (gal/day)	282,304	285,777	283,862	270,049	34,674	19,628	390,722	223,859	1,567,016
Return Sludge Flow (gal/day)	312,510	311,605	311,301	393,504	413,807	311,440	320,729	339,271	
Belt Press Feed (gal/day)			68,324					68,324	68,324
Water From River (gal/day)	418,756	363,060	360,838	262,456	76,715	55,650	510,099	292,511	2,047,574
Water To Bleachery (gal/day)								#DIV/0!	0
Effluent - River (gal/day)	(136,452)	(77,283)	(76,976)	7,593	(42,041)	(36,022)	(119,377)	(68,651)	(480,558)
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)	1,800	1,830	1,850	1,690	1,705			1,775	
MLVSS, North Lagoon (mg/L)			1,660					1,660	
MLSS, South Lagoon (mg/L)	2,100	2,010	2,010	1,960	1,920			2,000	
MLVSS, South Lagoon (mg/L)			1,790					1,790	
MLSS, Return Sludge (mg/L)	5,420	5,325	5,270	3,650	3,015			4,536	
MLVSS, Return Sludge (mg/L)			4,750					4,750	
Influent TSS (mg/L)		53						53	
Effluent TSS (mg/L)		32						32	
Effluent TSS (lb)		75						75	
% TSS Reduction		40						40	
	LBS = mg/L*MGD*8.34								
SETTLEABILITY									
North Lagoon (mL/L)	240	250	260	240	250			248	
South Lagoon (mL/L)	240	260	270	240	260			254	
SLUDGE BLANKET									
North Clarifier (ft)	2	2	3.0	3.0	1.0			2.2	
South Clarifier (ft)	0	0	1.0	1.0	1.0			0.6	
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	0.10	0.00	0.00		0.10
Air Temperature (deg F)	45	49	50	65	65	67	60	57	

Maximum Effluent Daily Flow: 390,722 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	09/11/17	09/12/17	09/13/17	09/14/17	09/15/17	09/16/17	09/17/17		
WATER TEMPERATURE									
Raw Influent (deg. F)	101	103	106	109	n/f			105	
North Lagoon (deg. F)	79	81	82	84	84			82	
South Lagoon (deg. F)	80	81	82	85	84			82	
Effluent Temp(deg F)	79	80	81	84	83			81	
N. River Downstream (deg.F)								#DIV/0!	
DISSOLVED OXYGEN									
North Lagoon (mg/L)	6.78	5.85	5.51	5.22	6.27	6.77	7.58	6.28	
South Lagoon (mg/L)	6.71	5.97	5.67	5.50	6.36	7.37	6.97	6.36	
PH									
Raw Influent	10.07	10.19	10.52	10.83	n/f			10.4	
North Lagoon	8.17	8.43	8.46	8.30	8.26			8.32	
South Lagoon	8.12	8.39	8.44	8.21	8.22	8.14	8.21	8.25	
Final Effluent	8.01	8.01	8.09	8.11	8.03	7.87	7.86	8.00	
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			21.0					21.0	21.0
Polymer Used (lb)			220.0					220.0	220.0
Total Solids, % Cake			11.0					11.0	
Cubic Yards of Sludge Wasted			18.0					18.0	18.0
Dry Tons			1.2					1.2	1.2
	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: 223,859 PH Max: 8.1 PH Min: 7.9

I certify that this information is true and accurate to the best of my knowledge: Name:Keith Gammell Operator Grade: 4 M Full

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

Monthly WWTP Report

Barnhardt Manufacturing Company

247 Main Road

Colrain,Ma. 01340

Griswoldviile WWTP Monthly State Report

month : September, 2017

DAY	Monday	Tuesday	Wed	Thursday	Friday	Saturday	Sunday	Average	Total
DATE	09/18/17	09/19/17	09/20/17	09/21/17	09/22/17	09/23/17	09/24/17		
FLOW									
Effluent Flow (gal/day)	385,450	349,697	314,388	336,912	301,656	31,377	93,977	259,065	1,813,457
Return Sludge Flow (gal/day)	278,844	326,340	310,734	309,303	355,060	356,296	297,579	319,165	
Belt Press Feed (gal/day)								#DIV/0!	0
Water From River (gal/day)	477,989	391,764	426,434	434,428	303,192	78,445	258,938	338,741	2,371,190
Water To Bleachery (gal/day)								#DIV/0!	0
Effluent - River (gal/day)	(92,539)	(42,067)	(112,046)	(97,516)	(1,536)	(47,068)	(164,961)	(79,676)	(557,733)
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)	1,573	1,605	1,630	1,610	1,790			1,642	
MLVSS, North Lagoon (mg/L)			1,460					1,460	
MLSS, South Lagoon (mg/L)	1,780	1,760	1,770	1,720	1,970			1,800	
MLVSS, South Lagoon (mg/L)			1,585					1,585	
MLSS, Return Sludge (mg/L)	6,150	6,220	5,720	5,615	5,990			5,939	
MLVSS, Return Sludge (mg/L)			5,200					5,200	
Influent TSS (mg/L)		53						53	
Effluent TSS (mg/L)		32						32	
Effluent TSS (lb)		101						101	
% TSS Reduction		40						40	
	LBS = mg/L*MGD*8.34								
SETTLEABILITY									
North Lagoon (mL/L)	240	260	270	270	260			260	
South Lagoon (mL/L)	230	270	270	270	250			258	
SLUDGE BLANKET									
North Clarifier (ft)	3	4	3.0	3.0	4.0			3.4	
South Clarifier (ft)	2	1	0.0	0.0	0.0			0.6	
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	0.00	0.00		0.00
Air Temperature (deg F)	65	67	70	62	57	68	60	64	

Maximum Effluent Daily Flow: 385,450 gal.

Maximum Effluent Temperature: 87

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	09/18/17	09/19/17	09/20/17	09/21/17	09/22/17	09/23/17	09/24/17		
WATER TEMPERATURE									
Raw Influent (deg. F)	107	112	115	114	106			111	
North Lagoon (deg. F)	82	86	88	88	88			86	
South Lagoon (deg. F)	82	85	87	87	87			86	
Effluent Temp(deg F)	82	84	86	87	87			85	
N. River Downstream (deg.F)								#DIV/0!	
DISSOLVED OXYGEN									
North Lagoon (mg/L)	6.54	6.19	5.19	5.19	6.48	7.02	7.19	6.26	
South Lagoon (mg/L)	6.67	6.26	5.26	5.36	6.58	7.64	7.81	6.51	
PH									
Raw Influent	10.06	11.17	11.28	11.09	11.22			11.0	
North Lagoon	8.41	8.66	8.67	8.62	8.54			8.58	
South Lagoon	8.39	8.62	8.66	8.65	8.37	8.52	8.45	8.52	
Final Effluent	8.16	8.23	8.35	8.26	8.26	8.24	8.18	8.24	
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								#DIV/0!	0.0
Polymer Used (lb)								#DIV/0!	0.0
Total Solids, % Cake								#DIV/0!	
Cubic Yards of Sludge Wasted								#DIV/0!	0.0
Dry Tons								#DIV/0!	0.0
	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: 259,065 PH Max: 8.4 PH Min: 8.2

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)

Monthly WWTP Report

Barnhardt Manufacturing Company

247 Main Road

Colrain,Ma. 01340

Griswoldviile WWTP Monthly State Report

month : September, 2017

DAY	Monday	Tuesday	Wed	Thursday	Friday	Saturday	Sunday	Average	Total
DATE	09/25/17	09/26/17	09/27/17	09/28/17	09/29/17	09/30/17			
FLOW									
Effluent Flow (gal/day)	285,536	313,714	387,201	348,348	323,785	19,414		279,666	1,677,998
Return Sludge Flow (gal/day)	300,216	351,847	297,741	295,042	368,746	361,962		329,259	
Belt Press Feed (gal/day)		81,300						81,300	81,300
Water From River (gal/day)	397,146	405,214	495,323	512,619	289,979	78,649		363,155	2,178,930
Water To Bleachery (gal/day)								#DIV/0!	0
Effluent - River (gal/day)	(111,610)	(91,500)	(108,122)	(164,271)	33,806	(59,235)	0	(71,562)	(500,932)
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)	1,710	1,720	1,735	1,990	1,970			1,825	
MLVSS, North Lagoon (mg/L)			1,565					1,565	
MLSS, South Lagoon (mg/L)	1,760	1,750	1,740	1,960	1,990			1,840	
MLVSS, South Lagoon (mg/L)			1,555					1,555	
MLSS, Return Sludge (mg/L)	5,130	5,340	5,130	9,610	8,720			6,786	
MLVSS, Return Sludge (mg/L)			4,770					4,770	
Influent TSS (mg/L)		43						43	
Effluent TSS (mg/L)		22						22	
Effluent TSS (lb)		53						53	
% TSS Reduction		49						49	
	LBS = mg/L*MGD*8.34								
SETTLEABILITY									
North Lagoon (mL/L)	270	270	260	290	290			276	
South Lagoon (mL/L)	280	270	270	290	300			282	
SLUDGE BLANKET									
North Clarifier (ft)	3	4	3.0	4.0	4.0			3.6	
South Clarifier (ft)	0	1	0.0	0.0	0.0			0.2	
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	0.10			0.10
Air Temperature (deg F)	63	67	65	65	43	52		59	

Maximum Effluent Daily Flow: 387,201 gal.

Maximum Effluent Temperature: 90

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	09/25/17	09/26/17	09/27/17	09/28/17	09/29/17	09/30/17			
WATER TEMPERATURE									
Raw Influent (deg. F)	112	114	103	115	108			110	
North Lagoon (deg. F)	83	85	86	89	91			87	
South Lagoon (deg. F)	83	84	85	89	92			87	
Effluent Temp(deg F)	83	84	85	88	90			86	
N. River Downstream (deg.F)								#DIV/0!	
DISSOLVED OXYGEN									
North Lagoon (mg/L)	6.31	5.19	5.47	4.80	4.16	6.70		5.44	
South Lagoon (mg/L)	6.65	5.31	5.78	4.82	4.22	7.34		5.69	
PH									
Raw Influent	10.98	11.17	11.23	11.32	11.17			11.2	
North Lagoon	8.49	8.46	8.21	8.49	8.51			8.43	
South Lagoon	8.42	8.40	8.23	8.46	8.48	8.43		8.40	
Final Effluent	8.31	8.11	8.06	8.19	8.17	8.14		8.16	
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		26.0						26.0	26.0
Polymer Used (lb)		260.0						260.0	260.0
Total Solids, % Cake		11.0						11.0	
Cubic Yards of Sludge Wasted		18.0						18.0	18.0
Dry Tons		1.20						1.2	1.2
	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: 279,666 PH Max: 8.3 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)