Monthly WWTP Report

Barnhardt Manufacturing Company

247 Main Road

Colrain,Ma. 01340

Griswoldviile WWTP Monthly State Report

month : April, 2017

DAY	Monday	Tuesday	Wed	Thursday	Friday	Saturday	Sunday	Average	Total
DATE						04/01/17	04/02/17		
FLOW									
Effluent Flow (gal/day)						90,849	55,919	73,384	146,768
Return Sludge Flow (gal/day)						241,380	250,091	245,736	
Belt Press Feed (gal/day)								#DIV/0!	0
Water From River (gal/day)						146,044	172,526	159,285	318,570
Water To Bleachery (gal/day)								#DIV/0!	0
Effluent - River (gal/day)	0	0	0	0	0	(55,195)	(116,607)	(24,543)	(171,802)
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)								#DIV/0!	
MLVSS, North Lagoon (mg/L)								#DIV/0!	
MLSS, South Lagoon (mg/L)								#DIV/0!	
MLVSS, South Lagoon (mg/L)								#DIV/0!	
MLSS, Return Sludge (mg/L)								#DIV/0!	
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)								#DIV/0!	
South Lagoon (mL/L)								#DIV/0!	
SLUDGE BLANKET									
North Clarifier (ft)								#DIV/0!	
South Clarifier (ft)								#DIV/0!	
SULFIDE									
Effluent Sulfide (mg/L)									
Effluent Sulfide (lb/day)									
	LBS = mg/L*MGD*8.34								
WEATHER									
Rainfall (inches)						0.52	0.16		0.68
Air Temperature (deg F)						34	32	33	

Maximum Effluent Daily Flow: 90,849 gal.

Maximum Effluent Temperature:

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						04/01/17	04/02/17		
WATER TEMPERATURE									
Raw Influent (deg. F)								#DIV/0!	
North Lagoon (deg. F)								#DIV/0!	
South Lagoon (deg. F)								#DIV/0!	
Effluent Temp(deg F)								#DIV/0!	
N. River Downstream (deg.F)								#DIV/0!	
DISSOLVED OXYGEN									
North Lagoon (mg/L)						8.22	8.64	8.43	
South Lagoon (mg/L)						8.41	8.50	8.46	
PH									
Raw Influent								#DIV/0!	
North Lagoon								#DIV/0!	
South Lagoon						8.22	8.26	8.24	
Final Effluent						8.17	8.16	8.17	
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									
MICROSCOPIC EVALUATION									
Floc Size (S/M/L)									
Filamentous Extending (Y/N)									
Filamentous Bridging (Y/N)									
Higher Life (Y/N)									
Pin Floc (Y/N)									

Average weekly effluent: 73,384 PH Max: 8.2 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 : April, 2017

DAY	Monday	Tuesday	Wed	Thursday	Friday	Saturday	Sunday	Average	Total
DATE	04/03/17	04/04/17	04/05/17	04/06/17	04/07/17	04/08/17	04/09/17		
FLOW									
Effluent Flow (gal/day)	261,681	405,073	378,450	292,760	174,986	27,271	77,728	231,136	1,617,949
Return Sludge Flow (gal/day)	254,646	238,714	301,172	294,713	225,316	288,613	300,285	271,923	
Belt Press Feed (gal/day)					66,841			66,841	66,841
Water From River (gal/day)	390,998	405,160	392,046	259,966	106,546	86,291	220,745	265,965	1,861,752
Water To Bleachery (gal/day)								#DIV/0!	0
Effluent - River (gal/day)	(129,317)	(87)	(13,596)	32,794	68,440	(59,020)	(143,017)	(34,829)	(243,803)
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)	1,914	1,900	1,920	2,090	2,010			1,967	
MLVSS, North Lagoon (mg/L)			1,785					1,785	
MLSS, South Lagoon (mg/L)	1,877	1,880	1,900	2,030	2,020			1,941	
MLVSS, South Lagoon (mg/L)			1,777					1,777	
MLSS, Return Sludge (mg/L)	7,078	7,820	8,210	7,510	7,650			7,654	
MLVSS, Return Sludge (mg/L)			7,600					7,600	
Influent TSS (mg/L)		62						62	
Effluent TSS (mg/L)		28						28	
Effluent TSS (lb)		61						61	
% TSS Reduction		55						55	
	LBS = mg/L*MGD*8.34								
SETTLEABILITY									
North Lagoon (mL/L)	450	420	410	400	400			416	
South Lagoon (mL/L)	450	440	430	440	420			436	
SLUDGE BLANKET									
North Clarifier (ft)	0	2	3.0	1.0	0.0			1.2	
South Clarifier (ft)	0	0	1.0	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	0.48	0.76	0.00	0.79	0.11	0.00		2.14
Air Temperature (deg F)	30	40	38	41	40	38	32	37	

Maximum Effluent Daily Flow: 405,073 gal. Maximum Effluent Temperature: 68

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	04/03/17	04/04/17	04/05/17	04/06/17	04/07/17	04/08/17	04/09/17		
WATER TEMPERATURE									
Raw Influent (deg. F)	97	102	96	93	n/f			97	
North Lagoon (deg. F)	62	64	66	71	69			66	
South Lagoon (deg. F)	62	63	65	70	69			66	
Effluent Temp(deg F)	61	62	65	68	65			64	
N. River Downstream (deg.F)								#DIV/0!	
DISSOLVED OXYGEN									
North Lagoon (mg/L)	7.43	7.12	6.87	4.72	7.22	7.62	8.05	7.00	
South Lagoon (mg/L)	8.37	7.87	7.22	6.70	7.47	7.76	8.10	7.64	
PH									
Raw Influent	11.26	11.47	11.39	11.53	n/f			11.4	
North Lagoon	8.44	8.51	8.43	8.52	8.10			8.40	
South Lagoon	8.42	8.55	8.40	8.51	8.08	7.97	7.99	8.27	
Final Effluent	8.19	8.36	8.22	8.36	8.18	8.02	7.96	8.18	
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					14.0			14.0	14.0
Polymer Used (lb)					190.0			190.0	190.0
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: 231,136 PH Max: 8.4 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 : April, 2017

DAY	Monday	Tuesday	Wed	Thursday	Friday	Saturday	Sunday	Average	Total
DATE	04/10/17	04/11/17	04/12/17	04/13/17	04/14/17	04/15/17	04/16/17		
FLOW									
Effluent Flow (gal/day)	274,582	297,773	293,764	211,962	39,078	22,339	17,369	165,267	1,156,867
Return Sludge Flow (gal/day)	299,065	276,077	247,320	295,085	327,480	275,348	277,428	285,400	
Belt Press Feed (gal/day)				68,040				68,040	68,040
Water From River (gal/day)	400,357	398,373	373,120	267,241	93,047	47,060	72,095	235,899	1,651,293
Water To Bleachery (gal/day)								#DIV/0!	0
Effluent - River (gal/day)	(125,775)	(100,600)	(79,356)	(55,279)	(53,969)	(24,721)	(54,726)	(70,632)	(494,426)
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)	2,020	2,015	1,994	1,960				1,997	
MLVSS, North Lagoon (mg/L)			1,798					1,798	
MLSS, South Lagoon (mg/L)	1,970	1,980	1,990	1,940				1,970	
MLVSS, South Lagoon (mg/L)			1,780					1,780	
MLSS, Return Sludge (mg/L)	7,400	7,510	5,450	6,110				6,618	
MLVSS, Return Sludge (mg/L)			4,830					4,830	
Influent TSS (mg/L)		48						48	
Effluent TSS (mg/L)		23						23	
Effluent TSS (lb)		52						52	
% TSS Reduction		52						52	
	LBS = mg/L*MGD*8.34								
SETTLEABILITY									
North Lagoon (mL/L)	380	420	290	280				343	
South Lagoon (mL/L)	370	430	300	300				350	
SLUDGE BLANKET									
North Clarifier (ft)	0	1	2.0	2.0	1.0			1.2	
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	0.14	0.00	0.00	0.02		0.16
Air Temperature (deg F)	34	43	52	43	33	32	45	40	

Maximum Effluent Daily Flow: 297,773 gal. Maximum Effluent Temperature: 75

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	04/10/17	04/11/17	04/12/17	04/13/17	04/14/17	04/15/17	04/16/17		
WATER TEMPERATURE									
Raw Influent (deg. F)	93	90	98	96				94	
North Lagoon (deg. F)	66	67	73	77				71	
South Lagoon (deg. F)	66	67	74	76				71	
Effluent Temp(deg F)	65	66	72	75				70	
N. River Downstream (deg.F)								#DIV/0!	
DISSOLVED OXYGEN									
North Lagoon (mg/L)	6.41	5.88	4.39	3.17	7.12	7.43	7.42	5.97	
South Lagoon (mg/L)	7.29	5.91	5.82	3.49	7.33	7.56	7.59	6.43	
PH									
Raw Influent	11.21	11.26	11.43	11.31				11.3	
North Lagoon	8.26	8.05	7.95	7.87				8.03	
South Lagoon	8.24	8.04	7.98	7.89	7.78	7.83	7.83	7.94	
Final Effluent	8.01	7.98	7.71	7.65	7.67	7.68	7.69	7.77	
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				14.0				14.0	14.0
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					
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: 165,267 PH Max: 8.0 PH Min: 7.7

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 : April, 2017

DAY	Monday	Tuesday	Wed	Thursday	Friday	Saturday	Sunday	Average	Total
DATE	04/17/17	04/18/17	04/19/17	04/20/17	04/21/17	04/22/17	04/23/17		
FLOW									
Effluent Flow (gal/day)	80,735	268,288	349,902	415,106	367,410	30,295	77,016	226,965	1,588,752
Return Sludge Flow (gal/day)	241,272	259,722	264,382	354,183	285,350	316,419	276,828	285,451	
Belt Press Feed (gal/day)								#DIV/0!	0
Water From River (gal/day)	237,388	382,889	511,696	531,668	268,360	79,861	238,701	321,509	2,250,563
Water To Bleachery (gal/day)								#DIV/0!	0
Effluent - River (gal/day)	(156,653)	(114,601)	(161,794)	(116,562)	99,050	(49,566)	(161,685)	(94,544)	(661,811)
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)		1,780	1,770	1,920	1,900			1,843	
MLVSS, North Lagoon (mg/L)			1,645					1,645	
MLSS, South Lagoon (mg/L)		1,760	1,780	1,850	1,870			1,815	
MLVSS, South Lagoon (mg/L)			1,650					1,650	
MLSS, Return Sludge (mg/L)		6,370	6,410	9,092	8,098			7,493	
MLVSS, Return Sludge (mg/L)			5,960					5,960	
Influent TSS (mg/L)		56						56	
Effluent TSS (mg/L)		47						47	
Effluent TSS (lb)		31						31	
% TSS Reduction		16						16	
	LBS = mg/L*MGD*8.34								
SETTLEABILITY									
North Lagoon (mL/L)		220	230	190	200			210	
South Lagoon (mL/L)		220	220	200	200			210	
SLUDGE BLANKET									
North Clarifier (ft)	0	1	2.0	2.0	3.0			1.6	
South Clarifier (ft)	0	0	0.0	0.0	1.0			0.2	
SULFIDE									
Effluent Sulfide (mg/L)									
Effluent Sulfide (lb/day)									
	LBS = mg/L*MGD*8.34								
WEATHER									
Rainfall (inches)	0.03	0.00	0.00	0.12	0.70	0.22	0.00		1.07
Air Temperature (deg F)	54	40	45	47	47	46	38	45	

Maximum Effluent Daily Flow: 415,106 gal. Maximum Effluent Temperature: 75

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	04/17/17	04/18/17	04/19/17	04/20/17	04/21/17	04/22/17	04/23/17		
WATER TEMPERATURE									
Raw Influent (deg. F)		99	101	99	96			99	
North Lagoon (deg. F)		69	71	74	76			73	
South Lagoon (deg. F)		69	70	74	75			72	
Effluent Temp(deg F)		69	70	73	75			72	
N. River Downstream (deg.F)								#DIV/0!	
DISSOLVED OXYGEN									
North Lagoon (mg/L)	7.47	6.42	6.52	3.91	3.22	6.56	8.24	6.05	
South Lagoon (mg/L)	8.85	7.39	6.45	5.49	4.15	6.88	7.96	6.74	
PH									
Raw Influent		11.63	11.27	11.29	11.31			11.4	
North Lagoon	7.84	8.35	8.11	8.18	8.25			8.15	
South Lagoon	7.85	8.34	8.09	8.19	8.26	8.17	8.24	8.16	
Final Effluent	7.75	8.09	7.98	7.98	8.01	7.95	7.96	7.96	
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			121.0						
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: 226,965 PH Max: 8.1 PH Min: 7.8

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 : April, 2017

DAY	Monday	Tuesday	Wed	Thursday	Friday	Saturday	Sunday	Average	Total
DATE	04/24/17	04/25/17	04/26/17	04/27/17	04/28/17	04/29/17	04/30/17		
FLOW									
Effluent Flow (gal/day)	283,846	297,780	299,056	284,465	296,483	43,329	69,322	224,897	1,574,281
Return Sludge Flow (gal/day)	318,734	333,521	325,888	306,874	337,270	348,859	305,092	325,177	
Belt Press Feed (gal/day)	66,117							66,117	66,117
Water From River (gal/day)	400,439	380,841	360,247	389,902	279,050	85,064	239,234	304,968	2,134,777
Water To Bleachery (gal/day)								#DIV/0!	0
Effluent - River (gal/day)	(116,593)	(83,061)	(61,191)	(105,437)	17,433	(41,735)	(169,912)	(80,071)	(560,496)
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)	1,720	1,790	1,780	1,760	1,740			1,758	
MLVSS, North Lagoon (mg/L)			1,560					1,560	
MLSS, South Lagoon (mg/L)	1,770	1,810	1,690	1,700	1,770			1,748	
MLVSS, South Lagoon (mg/L)			1,480					1,480	
MLSS, Return Sludge (mg/L)	5,860	6,110	3,480	4,120	8,240			5,562	
MLVSS, Return Sludge (mg/L)			3,390					3,390	
Influent TSS (mg/L)		58						58	
Effluent TSS (mg/L)		30						30	
Effluent TSS (lb)		70						70	
% TSS Reduction		48						48	
	LBS = mg/L*MGD*8.34								
SETTLEABILITY									
North Lagoon (mL/L)	170	180	140	150	150			158	
South Lagoon (mL/L)	180	170	150	160	150			162	
SLUDGE BLANKET									
North Clarifier (ft)	1	2	2.0	2.0	3.0			2.0	
South Clarifier (ft)	0	0	0.0	0.0	1.0			0.2	
SULFIDE									
Effluent Sulfide (mg/L)									
Effluent Sulfide (lb/day)									
	LBS = mg/L*MGD*8.34								
WEATHER									
Rainfall (inches)	0.00	0.00	0.98	0.11	0.05	0.00	0.00		1.14
Air Temperature (deg F)	37	50	48	56	60	56	48	51	

Maximum Effluent Daily Flow: 299,056 gal.

Maximum Effluent Temperature: 82

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	04/24/17	04/25/17	04/26/17	04/27/17	04/28/17	04/29/17	04/30/17		
WATER TEMPERATURE									
Raw Influent (deg. F)	91	96	93	98	91			94	
North Lagoon (deg. F)	73	75	77	79	82			77	
South Lagoon (deg. F)	73	75	77	79	83			77	
Effluent Temp(deg F)	73	74	75	77	82			76	
N. River Downstream (deg.F)								#DIV/0!	
DISSOLVED OXYGEN									
North Lagoon (mg/L)	5.93	4.83	2.64	3.06	3.92	6.47	6.97	4.83	
South Lagoon (mg/L)	6.56	4.96	4.02	3.08	4.58	6.25	7.05	5.21	
PH									
Raw Influent	11.43	11.29	11.41	11.30	11.19			11.3	
North Lagoon	8.29	8.10	7.97	7.96	7.76			8.02	
South Lagoon	8.31	8.06	7.98	7.95	7.79	8.01	8.16	8.04	
Final Effluent	8.22	8.23	8.09	7.97	7.87	7.93	8.07	8.05	
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	14.0							14.0	14.0
Polymer Used (lb)	210.0							210.0	210.0
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: 224,897 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: 4 M Full

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