

CITY OF ALLENTOWN

WATER RESOURCES WASTEWATER TREATMENT



MONTHLY REPORT AUGUST 2012



CITY OF ALLENTOWN
WATER RESOURCES
WASTEWATER TREATMENT
 Voice (610) 437-7641
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MONTHLY SUMMARY REPORT
 AUGUST 2012

	DAILY AVERAGE	PERMIT		
WASTEWATER FLOWS				
INFLUENT	29.39	< 40.0	mgd	
MAXIMUM (AVERAGE OF)	42.2		mgd	
MINIMUM (AVERAGE OF)	19.0		mgd	
SOLIDS DEWATERING RETURN	1.7		mgd	
PLASTIC MEDIA RECIRCULATION	8.2		mgd	
ROCK MEDIA RECIRCULATION	3.7		mgd	
SUSPENDED SOLIDS				
INFLUENT	157		mg/L	
EFFLUENT	3	<30	mg/L	
REMOVAL	98		%	
BIOCHEMICAL OXYGEN DEMAND				
INFLUENT	136		mg/L	*
EFFLUENT	3	<20	mg/L	*
REMOVAL	97		%	*
AMMONIA NITROGEN				
INFLUENT	16.9		mg/L	*
EFFLUENT	1.0	<5	mg/L	*
REMOVAL	94		%	*
EFFLUENT PARAMETERS				
MINIMUM DISSOLVED OXYGEN	6.9	>5.0	mg/L	
FREE RESIDUAL CHLORINE	0.04		mg/L	
TOTAL RESIDUAL CHLORINE	0.33	<0.5	mg/L	
MAXIMUM TOTAL RESIDUAL CHLORINE	0.41		mg/L	
FECAL COLIFORMS	5	<200	#/100 ml	*
MINIMUM pH	7.1	>6	Std. Units	
MAXIMUM pH	7.4	<9	Std. Units	

MONTHLY SUMMARY REPORT
SOLIDS PROCESSING
AUGUST 2012

DAILY AVERAGES

DIGESTER LOADING	PRI. No.1	PRI. No.2	SEC.
RAW PRIMARY SLUDGE, Gals.	34,683	35,703	
TOTAL SOLIDS, %	4.20	4.28	
POUNDS, Dry Wt.	12,148	12,744	
 HUMUS SLUDGE, Gals.	 23,279	 23,429	
TOTAL SOLIDS, %	3.19	2.83	
POUNDS, Dry Wt.	6,178	5,503	
 DIGESTER PERFORMANCE	 PRI. No.1	 PRI. No.2	 SEC.
TEMPERATURE, Degrees F	99.53	99.53	
TOTAL SOLIDS, %	1.82	1.88	2.34
ALKALINITY, mg/l	4,135	4,089	4,387
VOLATILE ACIDS, mg/l	290	265	284
RATIO V.A./ALK	0.07	0.07	0.07
VOLATILE SOLIDS, %	69.95	63.82	69.10
VOLATILE SOLIDS REDUCTION, %	59.33	61.04	
HYDRAULIC DETENTION TIME, Days	21.0	20.6	10.0
 DIGESTER GAS PRODUCTION			
FIRED TURBINES, Cu. Ft.		0	
FIRED BOILERS, Cu. Ft.		78,532	
FLARED, Cu. Ft.		272,105	
TOTAL GAS PRODUCED, Cu. Ft.		350,636	
 SOLIDS DEWATERING	 BFP No.1	 BFP No.2	 BFP No.3
SLUDGE FEED, Gals.	45,683	46,858	64,588
TOTAL SOLIDS, %	2.1	2.1	1.7
SLUDGE REMOVED, Dry Lbs.	8,249	8,732	9,363
POLYMER, % Dry Wt.	0.74	0.78	0.82
CAKE TOTAL SOLIDS, %	17.16	17.33	18.95
OPERATING HOURS	13.5	9.1	13.5
PRODUCTION RATE, Dry Lbs. / Hr.	781	900	694
 TOTAL GRIT REMOVED, Cu. Yds.		4.00	
 TOTAL SCREENINGS REMOVED, Cu. Ft.		1,674	
 TOTAL SLUDGE REMOVED, Lbs.		393,271	

PROCESS CONTROL REPORT

PART 1

DATE	SEWAGE FLOWS MGD			RETURN	PMTF	RMTF	OXYGEN	EFF	EFF	CCT	APPLIED	CL2	CL2	CL2
	TOTAL	MAX	MIN	FLOW MGD	FLOW MGD	FLOW MGD	APPLIED CUFT	DO MG/L	pH SU	CL2 LBS	DOSAGE MG/L	FREE MG/L	TOTAL MG/L	DEMAND MG/L
AUGUST														
2012														
1	32.48	41.4	23.3	1.6	6.7	1.6	42072	8.0	7.2	311	1.1	0.04	0.36	0.8
2	30.35	39.5	21.8	1.7	8.1	2.8	44550	7.7	7.1	324	1.3	0.04	0.35	0.9
3	29.49	40.6	20.9	1.9	8.7	2.8	29700	7.7	7.2	355	1.4	0.05	0.33	1.1
4	29.71	39.4	13.9	1.5	8.4	3.3	37125	7.6	7.2	390	1.6	0.04	0.26	1.3
5	30.01	77.4	22.8	1.4	8.0	3.3	34650	7.7	7.3	476	1.9	0.04	0.40	1.5
6	29.65	41.2	18.1	1.7	8.1	3.5	47025	7.3	7.2	346	1.4	0.07	0.33	1.1
7	29.67	41.2	16.8	1.7	8.1	3.5	19800	7.0	7.3	341	1.4	0.05	0.29	1.1
8	30.05	44.5	20.5	2.0	8.4	2.5	81668	6.9	7.1	344	1.4	0.04	0.41	1.0
9	28.86	40.6	21.3	2.3	7.9	3.9	19798	7.1	7.3	320	1.3	0.04	0.30	1.0
10	31.16	43.5	16.0	1.9	7.7	2.2	32173	7.5	7.2	307	1.2	0.04	0.34	0.8
11	28.17	39.1	20.0	1.5	9.5	3.8	39597	7.8	7.2	376	1.6	0.04	0.20	1.4
12	27.67	39.5	18.7	1.5	8.6	5.2	44546	7.8	7.3	414	1.8	0.03	0.31	1.5
13	28.52	39.2	19.1	1.8	8.8	3.9	59395	7.9	7.2	336	1.4	0.05	0.30	1.1
14	32.55	44.4	14.9	1.7	6.9	2.1	51971	7.7	7.3	337	1.2	0.05	0.35	0.9
15	30.18	40.8	21.0	1.7	8.4	2.5	0	7.6	7.3	330	1.3	0.05	0.33	1.0
16	27.94	39.6	15.4	1.7	9.5	3.8	0	8.0	7.2	333	1.4	0.05	0.34	1.1
17	29.80	49.7	14.1	1.7	8.2	3.5	19798	7.4	7.3	486	2.0	0.04	0.27	1.7
18	30.26	43.8	15.6	1.4	7.3	4.1	24748	7.8	7.2	412	1.6	0.04	0.40	1.2
19	27.77	40.4	20.1	1.5	8.6	5.1	24748	7.6	7.3	357	1.5	0.05	0.32	1.2
20	29.68	42.8	14.6	1.7	8.1	3.5	37122	7.8	7.1	368	1.5	0.02	0.41	1.1
21	29.67	40.0	22.5	1.6	8.1	3.6	39597	7.4	7.2	309	1.2	0.03	0.34	0.9
22	29.98	41.4	21.1	1.6	7.9	3.4	39597	7.4	7.2	311	1.2	0.02	0.23	1.0
23	29.67	40.5	19.0	1.7	8.5	3.0	39597	7.7	7.2	351	1.4	0.02	0.25	1.2
24	28.93	35.5	19.8	1.7	8.8	3.6	22273	7.3	7.3	374	1.6	0.01	0.35	1.2
25	29.04	39.7	21.2	1.4	8.1	4.5	29698	7.7	7.1	384	1.6	0.02	0.35	1.2
26	28.13	40.5	19.9	1.4	8.2	5.2	32172	7.9	7.2	397	1.7	0.02	0.35	1.3
27	29.44	40.3	19.8	1.7	7.8	4.0	44546	7.9	7.3	362	1.5	0.03	0.34	1.1
28	28.12	40.5	17.5	1.7	8.3	5.0	56921	8.0	7.2	296	1.3	0.04	0.35	0.9
29	28.75	41.7	20.7	1.6	8.1	4.6	54445	7.1	7.3	323	1.3	0.04	0.41	0.9
30	28.30	39.7	20.4	1.6	8.4	4.7	39597	7.8	7.2	323	1.4	0.05	0.34	1.0
31	27.24	39.4	17.5	1.7	8.7	5.3	29698	8.2	7.4	347	1.5	0.05	0.28	1.2
MINIMUM	27.24	35.5	13.9	1.4	6.7	1.6	0	6.9	7.1	296	1.1	0.01	0.20	0.8
MAXIMUM	32.55	77.4	23.3	2.3	9.5	5.3	81668	8.2	7.4	486	2.0	0.07	0.41	1.7
TOTAL	911.24			51.6	254.9	113.8	1118627			11040				
AVERAGE	29.39	42.2	19.0	1.7	8.2	3.7	36085	7.6	7.2	356	1.5	0.04	0.33	1.1

SOLIDS ANALYSES REPORT

Part 2

DATE	<u>SETTLEABLE SOLIDS</u>				<u>SUSPENDED SOLIDS</u>							
	RETURN	INF	EFF	%REM	RETURN	INF	PRI	PMTF	IST	EFF	%REM	
AUGUST												
2012												
1	0.2	9.0	0.1	99	49	162	50	50	20	3	98	
2	0.1	8.5	0.1	99	50	161	48	57	18	3	98	
3	0.9	6.0	0.1	98	67	90	52	38	11	3	97	
4	0.4	7.5	0.1	99	63	103	47	37	12	3	97	
5	0.3	9.0	0.1	99	61	170	58	61	19	4	98	
6	0.5	8.5	0.1	99	90	160	57	53	15	3	98	
7	0.8	6.5	0.1	98	83	121	56	74	18	4	97	
8	0.5	9.0	0.1	99	65	155	54	70	15	3	98	
9	0.3	8.0	0.1	99	67	167	70	75	18	4	98	
10	1.5	8.0	0.1	99	100	178	59	54	17	4	98	
11	0.1	7.0	0.1	99	52	158	60	71	15	4	97	
12	0.2	7.0	0.1	99	64	131	108	55	12	3	98	
13	0.5	8.0	0.1	99	78	170	61	71	20	3	98	
14	0.2	7.5	0.1	99	51	171	65	81	20	3	98	
15	0.4	7.5	0.1	99	80	166	52	81	16	3	98	
16	0.5	8.0	0.1	99	69	199	58	78	18	3	98	
17	0.3	9.5	0.1	99	61	184	54	71	23	3	98	
18	0.1	8.0	0.1	99	46	151	55	78	17	3	98	
19	0.1	6.5	0.1	98	48	135	59	75	17	3	98	
20	0.7	7.5	0.1	99	99	169	60	67	19	3	98	
21	0.6	8.0	0.1	99	62	150	59	67	17	3	98	
22	0.5	10.0	0.1	99	53	163	53	71	16	3	98	
23	0.4	7.0	0.1	99	49	153	56	72	20	3	98	
24	0.3	7.5	0.1	99	41	161	54	58	16	3	98	
25	0.1	9.0	0.1	99	51	156	52	62	17	3	98	
26	0.2	9.5	0.1	99	64	153	52	68	20	3	98	
27	0.7	10.0	0.1	99	106	169	56	76	26	3	98	
28	1.0	9.0	0.1	99	81	162	57	56	17	3	98	
29	0.6	8.5	0.1	99	60	180	54	58	14	3	98	
30	0.5	9.5	0.1	99	50	150	51	65	14	4	97	
31	2.0	8.0	0.1	99	100	155	52	63	15	3	98	
MINIMUM	0.1	6.0	0.1	98	41	90	47	37	11	3	97	
MAXIMUM	2.0	10.0	0.1	99	106	199	108	81	26	4	98	
AVERAGE	0.5	8.1	0.1	99	66	157	57	65	17	3	98	

BIOLOGICAL PERFORMANCE REPORT

Part 3

BIOCHEMICAL OXYGEN DEMAND

AMMONIA NITROGEN

FECAL COLIFORMS

DATE	RETURN	INF	PRI	IST	EFF	%REM	TKN	INF	PRI	IST	EFF	%REM	^/100 ml
AUGUST	Mg/L	Mg/L	Mg/L	Mg/L	Mg/L	%	Mg/L	Mg/L	Mg/L	Mg/L	Mg/L	%	
2012													
1	48	153	74	32	4	97	28.9	16.6	14.7	7.3	1.6	90	7
2	53	147	83	37	5	97	28.0	15.6	13.8	6.3	1.7	89	6
3	50	89	70	16	3	97	25.8	15.8	14.2	5.9	0.8	95	3
4	53	92	63	15	3	97	23.2	14.0	12.2	4.4	0.6	96	3
5	68	159	91	26	3	98	29.9	14.9	13.5	4.4	0.5	97	1
6		159	89	26	3	98	31.7	18.8	15.7	7.1	1.2	94	41
7	78	134	87	28	5	96	29.8	18.2	14.1	6.1	2.6	86	13
8	59	154	78	20	3	98	30.5	17.8	14.4	5.7	1.1	94	1
9	56	116	81	24	5	96	28.8	17.0	13.7	5.4	1.1	94	4
10	51	134	77	29	3	98	30.6	16.6	14.2	5.0	0.7	96	1
11	47	129	74	23	3	98	28.0	14.9	12.2	3.4	0.3	98	151
12	58	140	81	18	2	99	28.6	15.6	12.8	3.4	0.2	99	33
13	99	194	95	33	4	98	38.3	21.4	16.7	6.8	1.1	95	4
14	57	155	81	29	4	97	32.7	18.7	16.3	7.7	2.7	86	6
15	52	144	74	29	4	97	31.7	18.8	15.5	6.4	1.4	93	10
16	29	145	86	21	3	98	32.3	17.9	14.9	5.5	0.9	95	1
17	41	143	66	39	3	98	34.7	17.8	14.0	5.6	0.8	96	7
18	33	129	70	25	3	98	26.4	14.7	13.0	4.1	0.9	94	2
19	41	131	82	25	3	98	27.8	16.2	13.5	3.9	0.4	98	3
20	93	146	91	28	3	98	32.7	21.4	17.6	7.5	1.4	93	1
21	42	142	85	24	5	96	0.0	17.9	14.7	5.5	2.0	89	9
22	34	134	88	24	4	97	0.0	16.1	13.6	4.9	1.1	93	51
23	53	131	84	32	4	97	0.0	14.7	12.6	4.2	0.6	96	10
24	43	125	82	20	3	98	0.0	16.4	14.6	4.9	0.6	96	3
25	38	128	77	24	3	98	0.0	13.6	11.8	3.6	0.5	96	4
26	51	132	78	24	2	98	0.0	14.6	12.2	3.4	0.3	98	15
27	85	133	76	31	4	97	0.0	19.2	15.6	6.2	0.9	95	2
28	53	119	80	25	3	97	0.0	16.8	14.2	5.8	1.6	90	7
29	32	129	74	20	3	98	0.0	16.9	14.6	4.9	0.8	95	4
30	40	132	79	25	3	98	0.0	16.3	14.1	4.5	0.5	97	3
31	52	110	73	33	3	97	0.0	17.8	14.8	5.0	0.6	97	5
MINIMUM	29	89	63	15	2	96	0.0	13.6	11.8	3.4	0.2	86	1
MAXIMUM	99	194	95	39	5	99	38.3	21.4	17.6	7.7	2.7	99	151
AVERAGE	53	136	80	26	3	97	19.4	16.9	14.2	5.3	1.0	94	5

BOLD NUMBERS INDICATE NON DETECT RESULTS

TRICKLING FILTER SLUDGE PROCESSING REPORT

PART 4

DATE	<u>IST SLUDGE REMOVAL</u>						<u>FST SLUDGE REMOVAL</u>						
	GALLONS	GALLONS	GALLONS	TOTAL	SOLIDS	POUNDS	GALLONS	GALLONS	GALLONS	GALLONS	TOTAL	SOLIDS	POUNDS
AUGUST	1	2	3				1	2	3	4			
2012													
1	284330	281670	284450	850450	0.17	12058	73010	42630	49990	126010	291640	0.15	3648
2	288210	286000	293740	867950	0.17	12306	112310	44410	50070	128770	335560	0.15	4198
3	288890	287810	289920	866620	0.17	12287	170440	44520	50450	128810	394220	0.15	4932
4	286010	288270	286320	860600	0.17	12202	54750	44900	51030	129120	279800	0.15	3500
5	280000	274000	287800	841800	0.17	11935	53350	45010	49200	124550	272110	0.15	3404
6	284660	287160	287810	859630	0.17	12188	54090	45190	49380	125430	274090	0.15	3429
7	288490	285840	285800	860130	0.06	4304	53740	44790	48380	120990	267900	0.09	2011
8	287630	285970	284810	858410	0.06	4295	164040	64590	46280	122900	397810	0.09	2986
9	288040	285970	289690	863700	0.06	4322	327690	100010	43010	122800	593510	0.09	4455
10	287230	289720	291510	868460	0.06	4346	102130	75680	45880	122840	346530	0.09	2601
11	287050	288430	297930	873410	0.06	4371	53290	45460	49310	122790	270850	0.09	2033
12	285970	287420	298510	871900	0.06	4363	53860	44080	48730	122410	269080	0.09	2020
13	287040	289360	285880	862280	0.06	4315	60710	45250	51320	129210	286490	0.09	2150
14	287760	288020	281050	856830	0.24	17150	75790	45980	53530	129980	305280	0.06	1528
15	288930	288830	297130	874890	0.24	17512	80980	45810	52690	130080	309560	0.06	1549
16	287510	286170	296970	870650	0.24	17427	80110	45620	52890	129290	307910	0.06	1541
17	288010	286680	294880	869570	0.24	17405	79410	45530	52160	128790	305890	0.06	1531
18	288090	288360	295140	871590	0.24	17446	78810	45260	51700	127850	303620	0.06	1519
19	288640	287130	295090	870860	0.24	17431	78000	44840	50940	127530	301310	0.06	1508
20	286810	292040	286380	865230	0.24	17318	77030	43100	47460	124420	292010	0.06	1461
21	287850	291390	290340	869580	0.26	18856	76150	41750	46390	119180	283470	0.18	4255
22	288330	289320	291800	869450	0.26	18853	75200	41160	45730	118170	280260	0.18	4207
23	289170	288180	294500	871850	0.26	18905	74260	40990	45540	117480	278270	0.18	4177
24	287390	285500	288240	861130	0.26	18673	73290	40920	45410	116890	276510	0.18	4151
25	287290	288060	283440	858790	0.26	18622	72070	41360	45000	116050	274480	0.18	4120
26	290160	291250	290680	872090	0.26	18910	71010	40500	46970	113540	272020	0.18	4084
27	287940	289080	296040	873060	0.26	18931	70190	42710	48590	115890	277380	0.18	4164
28	287020	290090	294960	872070	0.27	19637	69660	42270	48410	116090	276430	0.34	7838
29	288590	290030	298760	877380	0.27	19757	69510	43130	48480	115820	276940	0.34	7853
30	289550	288040	259130	836720	0.27	18841	68830	42220	48550	115860	275460	0.34	7811
31	287600	287450	292310	867360	0.27	19531	68380	41990	48440	116070	274880	0.34	7794
MINIMUM	280000	274000	259130	836720	0.06	4295	53290	40500	43010	113540	267900	0.06	1461
MAXIMUM	290160	292040	298760	877380	0.27	19757	327690	100010	53530	130080	593510	0.34	7853
TOTAL	8910190	8913240	8991010	26814440		434498	2672090	1461660	1511910	3805610	9451270		112459
AVERAGE	287425	287524	290033	864982	0.19	14016	86196	47150	48771	122762	304880	0.15	3628

SLUDGE PROCESSING REPORT

PRIMARY SLUDGE TO DIGESTERS

THICKENED SLUDGE TO DIGESTERS

DATE	GALLONS		TOTAL SOLIDS		POUNDS		GALLONS		TOTAL SOLIDS		POUNDS	
	1	2	1	2	1	2	1	2	1	2	1	2
2012												
1	34980	34390	4.35	4.48	12698	12856	19960	20320	3.46	3.03	5764	5131
2	35620	37210	4.03	4.42	11979	13709	20490	20540	3.56	3.13	6079	5366
3	36070	35160	3.83	4.13	11507	12118	20470	20510	3.57	3.01	6090	5149
4	35440	37020	4.09	4.16	12096	12852	20510	20590	3.40	3.02	5816	5186
5	35190	34930	4.01	3.98	11769	11602	20500	20040	3.36	2.89	5740	4822
6	34870	37330	4.77	4.33	13865	13481	21400	21370	3.24	2.81	5787	5004
7	35720	35230	4.32	4.48	12855	13156	22990	23100	3.16	2.80	6049	5389
8	35600	37010	3.66	3.87	10867	11945	23490	23650	3.29	2.83	6445	5582
9	35720	34570	3.67	4.03	10933	11619	24480	24540	3.29	2.88	6712	5899
10	35520	37190	4.00	4.20	11857	13035	25950	26060	2.98	2.68	6449	5814
11	35000	35230	4.31	4.21	12581	12370	26540	26550	2.99	2.62	6607	5790
12	34560	35180	4.11	4.00	11832	11743	26440	26560	2.88	2.82	6340	6241
13	34420	35740	4.21	4.02	12078	11982	26400	26590	3.06	2.73	6732	6043
14	33810	36370	4.39	4.32	12386	13111	26470	26660	3.16	2.80	6965	6231
15	35280	36210	4.55	4.31	13380	13001	26500	26470	3.30	2.81	7288	6209
16	34730	35120	4.62	4.25	13367	12441	26530	26500	3.44	3.01	7600	6641
17	35180	37450	4.25	4.35	12477	13586	26470	26610	3.29	2.90	7252	6441
18	33300	36290	4.69	4.63	13018	14013	26540	26530	3.15	2.80	6972	6184
19	32150	36880	4.28	4.40	11483	13526	26460	26550	2.70	2.39	5947	5292
20	33350	35090	4.32	4.60	12009	13447	25440	25510	2.80	2.35	5930	4994
21	26490	36570	4.33	4.74	9566	14449	22470	22450	2.88	2.43	5388	4550
22	34900	29080	4.45	4.69	12952	11368	21490	21690	3.06	2.74	5480	4957
23	35680	35790	4.06	4.39	12089	13089	21580	21710	3.19	2.81	5746	5079
24	34150	35940	3.99	4.42	11350	13256	21540	21670	3.31	2.82	5942	5087
25	35690	35910	3.71	3.87	11028	11590	21550	21750	3.26	2.93	5855	5306
26	34940	34880	4.43	4.52	12894	13134	21470	21760	3.27	3.03	5860	5494
27	35960	36790	4.18	4.50	12536	13815	21550	21680	3.24	2.93	5819	5302
28	35250	34980	4.26	4.10	12516	11961	21490	21680	3.26	2.95	5838	5325
29	35700	36680	4.04	3.89	12014	11900	20370	21590	3.15	2.93	5351	5267
30	35210	34860	4.25	4.19	12466	12174	20840	21650	3.16	2.95	5488	5327
31	35680	36340	4.30	4.46	12796	13517	21590	21670	3.12	2.97	5622	5368
MINIMUM	26490	29080	3.66	3.87	9566	11368	19960	20040	2.70	2.35	5351	4550
MAXIMUM	36070	37450	4.77	4.74	13865	14449	26540	26660	3.57	3.13	7600	6641
TOTAL	1040480	1071080			364447	382330	698380	702880			185332	165103
AVERAGE	34683	35703	4.20	4.28	12148	12744	23279	23429	3.19	2.83	6178	5503

SLUDGE PROCESSING REPORT

PART 6

DATE	<u>TOTAL LOADINGS TO DIGESTER 1</u>		<u>TOTAL LOADINGS TO DIGESTER 2</u>		<u>COMBINED FEED</u>	
	GALLONS	POUNDS	GALLONS	POUNDS	GALLONS	POUNDS
AUGUST	<u>1</u>	<u>1</u>	<u>2</u>	<u>2</u>		
2012						
1	54940	18462	54710	17987	109650	36449
2	56110	18059	57750	19075	113860	37134
3	56540	17597	55670	17267	112210	34864
4	55950	17912	57610	18038	113560	35950
5	55690	17509	54970	16423	110660	33933
6	56270	19652	58700	18484	114970	38136
7	58710	18904	58330	18545	117040	37449
8	59090	17312	60660	17527	119750	34839
9	60200	17645	59110	17518	119310	35163
10	61470	18306	63250	18849	124720	37155
11	61540	19188	61780	18160	123320	37348
12	61000	18172	61740	17984	122740	36156
13	60820	18810	62330	18025	123150	36836
14	60280	19351	63030	19342	123310	38693
15	61780	20668	62680	19210	124460	39878
16	61260	20968	61620	19082	122880	40050
17	61650	19729	64060	20028	125710	39757
18	59840	19991	62820	20197	122660	40188
19	58610	17430	63430	18818	122040	36248
20	58790	17939	60600	18442	119390	36380
21	48960	14954	59020	18999	107980	33953
22	56390	18432	50770	16325	107160	34757
23	57260	17835	57500	18167	114760	36002
24	55690	17291	57610	18343	113300	35635
25	57240	16883	57660	16896	114900	33779
26	56410	18754	56640	18628	113050	37383
27	57510	18355	58470	19117	115980	37472
28	56740	18355	56660	17286	113400	35641
29	56070	17365	58270	17167	114340	34532
30	56050	17953	56510	17501	112560	35454
31	57270	18418	58010	18885	115280	37303
MINIMUM	48960	14954	50770	16325	107160	33779
MAXIMUM	61780	20968	64060	20197	125710	40188
TOTAL	1738860	549778	1773960	547433	3512820	1097211
AVERAGE	57962	18326	59132	18248	117094	36574

PRIMARY DIGESTER PERFORMANCE REPORT

DATE	PRIMARY DIGESTER 1							PRIMARY DIGESTER 2						
	TEMP	%T.S.	pH	ALKA	VOL ACIDS	VA/ALK	VOL SOLIDS	TEMP	%T.S.	pH	ALKA	VOL ACIDS	VA/ALK	VOL SOLIDS
AUGUST														
2012														
1	99.53	1.98	7.18	4140	270	0.07		99.53	2.06	7.13	4020	270	0.07	
2	99.53	1.89	7.27	4020	285	0.07		99.53	2.05	7.19	4040	270	0.07	
3	99.53	1.87	7.27	4100	285	0.07		99.56	1.81	7.18	4120	240	0.06	
4	99.54	1.77	7.29	4110	285	0.07		99.53	1.97	7.16	4080	270	0.07	
5	99.54	1.79	7.22	4080	285	0.07		99.53	1.86	7.13	4060	270	0.07	
6	99.52	1.95	7.24	4040	315	0.08		99.54	1.98	7.23	3960	285	0.07	
7	99.52	1.97	7.18	4120	300	0.07	70.50	99.53	1.74	7.17	4060	255	0.06	69.00
8	99.51	1.83	7.21	4060	285	0.07		99.52	1.74	7.13	4040	270	0.07	
9	99.52	1.76	7.26	4140	285	0.07		99.53	2.13	7.22	4120	270	0.07	
10	99.51	1.74	7.16	4100	285	0.07		99.53	1.87	7.15	4040	285	0.07	
11	99.53	1.84	7.22	4040	300	0.07		99.54	1.54	7.20	3980	240	0.06	
12	99.52	1.83	7.26	4060	270	0.07		99.53	2.11	7.19	3980	240	0.06	
13	99.53	2.03	7.19	4080	300	0.07		99.53	2.01	7.18	4060	270	0.07	
14	99.52	2.15	7.26	3980	300	0.08	71.26	99.53	1.97	7.17	4020	270	0.07	61.18
15	99.52	1.85	7.20	4080	278	0.07		99.53	1.75	7.15	4160	255	0.06	
16	99.54	1.91	7.22	4180	300	0.07		99.52	1.7	7.15	4120	255	0.06	
17	99.52	1.73	7.23	4140	300	0.07		99.55	1.85	7.16	4080	240	0.06	
18	99.53	1.75	7.17	4120	330	0.08		99.52	2.12	7.11	4080	285	0.07	
19	99.54	1.90	7.16	4120	300	0.07		99.52	1.69	7.11	4080	270	0.07	
20	99.52	1.77	7.22	4160	270	0.06		99.54	2.31	7.21	4100	255	0.06	
21	99.54	1.79	7.33	4280	315	0.07	69.15	99.53	2.33	7.26	4050	255	0.06	57.98
22	99.51	1.81	7.19	4200	285	0.07		99.55	1.62	7.12	4100	270	0.07	
23	99.53	1.96	7.17	4100	285	0.07		99.54	1.86	7.13	4000	270	0.07	
24	99.54	1.55	7.11	4160	285	0.07		99.54	2.11	7.07	4100	255	0.06	
25	99.55	1.72	7.17	4200	285	0.07		99.52	1.73	7.11	4100	285	0.07	
26	99.55	1.74	7.14	4160	285	0.07		99.53	1.78	7.08	4100	270	0.07	
27	99.53	1.77	7.16	4200	300	0.07		99.52	1.67	7.09	4220	270	0.06	
28	99.52	1.86	7.16	4280	270	0.06	68.89	99.52	1.81	7.13	4180	255	0.06	67.11
29	99.53	1.66	7.15	4220	270	0.06		99.53	1.84	7.11	4240	270	0.06	
30	99.53	1.75	7.12	4300	285	0.07		99.51	1.69	7.07	4220	270	0.06	
31	99.54	1.61	7.13	4220	300	0.07		99.52	1.72	7.08	4260	270	0.06	
MINIMUM	99.51	1.55	7.11	3980	270	0.06	68.89	99.51	1.54	7.07	3960	240	0.06	57.98
MAXIMUM	99.55	2.15	7.33	4300	330	0.08	71.26	99.56	2.33	7.26	4260	285	0.07	69.00
AVERAGE	99.53	1.82	7.20	4135	290	0.07	69.95	99.53	1.88	7.15	4089	265	0.07	63.82

DIGESTER PERFORMANCE REPORT

PART 8

	PERCENT VOLATILE SOLIDS REDUCTION			VOLATILE SOLIDS RATIO TS/V5 DAY			HYDRAULIC DETENTION TIME DAYS			VOLATILE SOLIDS LOADING LBS / FT3		
	DIG #1	DIG #2	SEC	DIG #1	DIG #2	SEC	DIG #1	DIG #2	SEC	DIG #1	DIG #2	SEC
Sep-10	60.65	64.25		10.7	10.8		19.8	20.6	9.7	0.099	0.096	
Oct-10	62.36	65.39		11.4	11.7		20.1	20.6	9.8	0.094	0.093	
Nov-10	61.24	63.34		11.6	12.5		20.0	20.9	9.8	0.092	0.087	
Dec-10	61.60	62.08		10.3	11.7		19.7	20.9	9.7	0.095	0.086	
Jan-11	63.11	65.11		10.9	11.8		20.2	22.0	10.1	0.090	0.088	
Feb-11	63.80	66.00		9.6	10.8		18.9	20.1	9.3	0.097	0.097	
Mar-11	62.18	63.06		11.6	12.3		19.1	20.2	9.4	0.085	0.082	
Apr-11	59.78	60.08		10.3	11.2		18.1	18.6	8.8	0.101	0.095	
May-11	59.71	59.49		10.3	11.5		17.7	19.3	8.8	0.108	0.096	
Jun-11	59.77	60.96		10.2	10.6		18.3	19.3	9.0	0.110	0.101	
Jul-11	59.93	62.62		11.3	11.7		20.3	21.1	9.9	0.098	0.093	
Aug-11	59.71	63.49		11.8	11.7		20.4	20.8	9.9	0.094	0.094	
Sep-11	59.25	61.39		12.7	14.0		20.5	21.4	10.1	0.083	0.080	
Oct-11	62.10	62.41		10.8	12.5		21.3	21.7	10.3	0.093	0.090	
Nov-11	65.75	65.05		11.1	13.2		20.8	21.9	10.2	0.092	0.087	
Dec-11	64.90	65.11		11.3	11.7		20.6	20.8	9.9	0.092	0.089	
Jan-12	63.46	65.21		10.0	9.8		19.5	19.1	9.3	0.099	0.094	
Feb-12	64.46	65.19		9.7	9.7		20.1	19.8	9.6	0.099	0.096	
Mar-12	63.99	65.10		9.9	9.4		19.2	18.8	9.1	0.104	0.104	
Apr-12	61.75	63.78		10.4	9.7		19.3	18.9	9.2	0.103	0.102	
May-12	60.45	63.06		10.7	10.1		19.5	19.3	9.3	0.104	0.100	
Jun-12	59.85	64.40		11.6	10.8		20.5	19.9	9.7	0.098	0.096	
Jul-12	59.07	62.35		12.0	12.1		20.8	19.8	9.7	0.098	0.097	
Aug-12	59.33	61.04		11.9	12.2		21.0	20.6	10.0	0.095	0.096	

Vector Attraction
Reduction 38%
Minimum

Pathogen Reduction
>15 days @ 95°F

SECONDARY DIGESTER PERFORMANCE REPORT

% TOTAL SOLIDS									
DATE	8FT	12FT	18FT	26FT	pH	ALKA	VOL	VA/ALK	VOL
AUGUST							ACIDS		SOLIDS
2012									
1	2.39	0.94	0.77	0.86	7.32	4360	255	0.06	
2	1.99	0.85	0.81	0.67	7.41	4340	285	0.07	
3	1.89	0.90	0.68	0.63	7.40	4340	300	0.07	
4	2.46	0.81	0.68	0.49	7.35	4320	285	0.07	
5	2.47	1.00	0.76	0.61	7.34	4280	270	0.06	
6	2.76	1.02	0.82	0.73	7.36	4320	285	0.07	
7	2.52	1.07	0.77	0.83	7.35	4300	285	0.07	70.71
8	2.42	1.36	0.84	0.83	7.32	4320	285	0.07	
9	1.85	1.04	0.79	0.91	7.38	4380	315	0.07	
10	1.96	0.74	0.66	0.89	7.28	4300	270	0.06	
11	2.30	0.81	0.74	0.79	7.37	4280	270	0.06	
12	2.47	0.96	0.80	0.71	7.37	4280	285	0.07	
13	2.72	1.19	0.94	0.85	7.32	4360	270	0.06	
14	1.60	0.87	0.77	0.87	7.22	4380	300	0.07	68.49
15	2.42	1.08	0.98	0.96	7.37	4360	285	0.07	
16	1.74	0.94	0.85	0.86	7.33	4360	285	0.07	
17	1.58	0.84	1.06	0.71	7.41	4460	285	0.06	
18	2.44	0.98	0.78	0.96	7.20	4380	345	0.08	
19	4.78	1.19	0.81	0.83	7.22	4300	285	0.07	
20	2.78	1.21	0.95	0.88	7.36	4380	270	0.06	
21	1.97	0.93	0.87	0.87	7.35	4440	270	0.06	68.97
22	2.35	1.14	0.90	0.86	7.31	4500	285	0.06	
23	2.56	1.14	0.84	0.74	7.31	4380	270	0.06	
24	1.79	1.09	0.79	0.85	7.33	4460	285	0.06	
25	2.39	0.88	0.73	0.64	7.32	4430	255	0.06	
26	2.47	1.04	0.80	0.76	7.34	4440	270	0.06	
27	2.89	1.03	0.87	0.83	7.25	4500	270	0.06	
28	2.61	0.99	0.90	0.93	7.29	4500	285	0.06	68.22
29	2.45	1.12	0.86	0.83	7.24	4400	300	0.07	
30	1.77	0.97	0.81	0.84	7.23	4500	300	0.07	
31	1.63	0.93	0.72	0.77	7.32	4640	285	0.06	
MINIMUM	1.58	0.74	0.66	0.49	7.20	4280	255	0.06	68.22
MAXIMUM	4.78	1.36	1.06	0.96	7.41	4640	345	0.08	70.71
TOTAL									
AVERAGE	2.34	1.00	0.82	0.80	7.32	4387	284	0.07	69.10

SLUDGE DEWATERING REPORT FOR BELT FILTER PRESS NO.1

PART 10

DATE	FEED	% TOTAL	SLUDGE	POLYMER	TOTAL	TOTAL	POLYMER	CAKE	FILTRATE	FILTRATE	FILTRATE	OPER	PROD
	GALLONS	SOLIDS	POUNDS	POUNDS	OUTPUT POUNDS	WET POUNDS	% WT	% T.S.	% T.S.	GALLONS	POUNDS	HOURS	RATE
AUGUST 2012													
8/1/2012													
8/2/2012													
8/3/2012													
8/4/2012													
8/5/2012													
8/6/2012	68640	2.0	11449	82	11531	69886	0.71	16.50	0.08	60260	402	14.3	801
8/7/2012	36000	3.0	9007	47	9054	52519	0.52	17.24	0.09	29703	223	8.0	1126
8/8/2012	54450	1.6	7266	73	7339	41793	0.99	17.56	0.08	49439	330	12.1	600
8/9/2012	28800	1.6	3843	41	3884	21132	1.00	18.38	0.10	26266	219	6.0	641
8/10/2012	28044	1.8	4210	41	4251	23091	0.91	18.41	0.10	25275	211	5.7	739
8/11/2012													
8/12/2012													
8/13/2012	72816	2.2	13360	82	13442	79871	0.61	16.83	0.10	63239	527	14.8	903
8/14/2012	65232	2.5	13601	82	13683	76441	0.60	17.90	0.09	56066	421	14.4	945
8/15/2012	59472	2.2	10912	64	10976	61559	0.58	17.83	0.09	52091	391	12.8	852
8/16/2012	28044	1.8	4210	41	4251	24194	0.96	17.57	0.09	25143	189	5.7	739
8/17/2012	31980	1.7	4534	47	4581	27334	1.00	16.76	0.08	28703	192	6.5	698
8/18/2012													
8/19/2012													
8/20/2012	71040	2.1	12442	82	12524	70557	0.65	17.75	0.08	62580	418	14.8	841
8/21/2012	64896	2.7	14613	82	14695	92133	0.56	15.95	0.09	53849	404	14.8	987
8/22/2012	31920	2.7	7188	35	7223	42562	0.48	16.97	0.08	26817	179	7.6	946
8/23/2012	33600	1.7	4764	47	4811	28166	0.98	17.08	0.09	30223	227	8.0	595
8/24/2012	32472	2.1	5687	47	5734	35136	0.82	16.32	0.16	28259	377	66.0	86
8/25/2012													
8/26/2012													
8/27/2012	23520	2.5	4904	26	4930	31683	0.53	15.56	0.08	19721	132	4.9	1001
8/28/2012													
8/29/2012													
8/30/2012													
8/31/2012													
MINIMUM	23520	1.6	3843	26	3884	21132	0.48	15.56	0.08	19721	132	4.9	86
MAXIMUM	72816	3.0	14613	82	14695	92133	1.00	18.41	0.16	63239	527	66.0	1126
TOTAL	730926		131990	919	132909	778056				637634	4840	216.4	
AVERAGE	45683	2.1	8249	57	8307	48629	0.74	17.16	0.09	39852	303	13.5	781

SLUDGE DEWATERING REPORT FOR BELT FILTER PRESS NO.2

PART 11

DATE	FEED GALLONS	% TOTAL SOLIDS	SLUDGE POUNDS	POLYMER POUNDS	TOTAL OUTPUT POUNDS	TOTAL WET POUNDS	POLYMER % WT	CAKE % T.S.	FILTRATE % T.S.	FILTRATE GALLONS	FILTRATE POUNDS	OPER HOURS	PROD RATE
AUGUST 2012													
8/1/2012													
8/2/2012													
8/3/2012	39360	1.7	5580	52	5632	31966	0.92	17.62	0.09	35527	267	8.2	681
8/4/2012													
8/5/2012													
8/6/2012													
8/7/2012													
8/8/2012	27540	1.9	4364	35	4399	25023	0.80	17.58	0.09	24540	184	5.4	808
8/9/2012													
8/10/2012													
8/11/2012													
8/12/2012													
8/13/2012													
8/14/2012													
8/15/2012	18480	1.8	2774	35	2809	15478	1.20	18.15	0.08	16624	111	3.5	793
8/16/2012													
8/17/2012													
8/18/2012													
8/19/2012													
8/20/2012													
8/21/2012													
8/22/2012													
8/23/2012													
8/24/2012													
8/25/2012													
8/26/2012													
8/27/2012	67500	2.2	12385	70	12455	73524	0.56	16.94	0.13	58684	636	12.5	991
8/28/2012	64188	3.6	19272	64	19336	114076	0.33	16.95	0.12	50510	506	13.2	1460
8/29/2012													
8/30/2012													
8/31/2012	64080	1.5	8016	70	8086	48335	0.86	16.73	0.08	58284	389	12.0	668
MINIMUM	18480	1.5	2774	35	2809	15478	0.33	16.73	0.08	16624	111	3.5	668
MAXIMUM	67500	3.6	19272	70	19336	114076	1.20	18.15	0.13	58684	636	13.2	1460
TOTAL	281148		52392	326	52718	308401				244169	2092	54.8	
AVERAGE	46858	2.1	8732	54	8786	51400	0.78	17.33	0.10	40695	349	9.1	900

SLUDGE DEWATERING REPORT FOR BELT FILTER PRESS NO.3

PART 12

DATE	FEED GALLONS	% TOTAL SOLIDS	SLUDGE POUNDS	POLYMER POUNDS	TOTAL OUTPUT POUNDS	TOTAL WET POUNDS	POLYMER % WT	CAKE % T.S.	FILTRATE % T.S.	FILTRATE GALLONS	FILTRATE POUNDS	OPER HOURS	PROD RATE
AUGUST 2012													
8/1/2012	66570	1.7	9438	79	9517	49236	0.83	19.33	0.09	60666	455	15.0	629
8/2/2012													
8/3/2012	69510	1.7	9855	82	9937	56142	0.83	17.70	0.09	62778	471	14.9	661
8/4/2012													
8/5/2012													
8/6/2012	63020	2.0	10512	82	10594	59183	0.77	17.90	0.09	55924	420	14.2	740
8/7/2012	64690	1.9	10251	82	10333	52531	0.79	19.67	0.09	58391	438	14.8	693
8/8/2012	45150	1.4	5272	58	5330	28081	1.10	18.98	0.09	41783	314	9.2	573
8/9/2012	67810	1.6	9049	82	9131	46775	0.90	19.52	0.09	62201	467	14.7	616
8/10/2012	67570	1.5	8453	82	8535	45231	0.96	18.87	0.09	62147	466	14.5	583
8/11/2012													
8/12/2012													
8/13/2012	73620	2.2	13508	82	13590	71980	0.60	18.88	0.09	64989	488	14.8	913
8/14/2012	66680	1.6	8898	82	8980	46192	0.91	19.44	0.09	61141	459	14.8	601
8/15/2012	55260	1.8	8296	64	8360	44207	0.77	18.91	0.09	49959	375	11.5	721
8/16/2012	65390	1.7	9271	82	9353	48638	0.88	19.23	0.09	59558	447	13.9	667
8/17/2012	69180	1.6	9231	82	9313	49857	0.88	18.68	0.09	63202	474	14.7	628
8/18/2012													
8/19/2012													
8/20/2012	73800	2.1	12925	82	13007	69447	0.63	18.73	0.09	65473	491	14.8	873
8/21/2012	66500	1.6	8874	82	8956	45254	0.92	19.79	0.10	61074	509	14.9	596
8/22/2012	56370	1.8	8462	64	8526	45017	0.75	18.94	0.08	50972	340	12.2	694
8/23/2012	51390	1.7	7286	58	7344	38471	0.79	19.09	0.08	46777	312	10.9	668
8/24/2012	69190	1.7	9810	79	9889	53831	0.80	18.37	0.10	62735	523	14.8	663
8/25/2012													
8/26/2012													
8/27/2012	54510	2.0	9092	58	9150	47583	0.63	19.23	0.13	48805	529	10.2	891
8/28/2012	74340	1.7	10540	82	10622	55993	0.77	18.97	0.12	67626	677	15.0	703
8/29/2012	53710	1.9	8511	70	8581	46686	0.82	18.38	0.09	48112	361	10.2	834
8/30/2012	67520	1.4	7884	70	7954	42624	0.88	18.66	0.08	62409	416	12.8	616
8/31/2012	79150	1.6	10562	82	10644	54222	0.77	19.63	0.08	72649	485	15.0	704
MINIMUM	45150	1.4	5272	58	5330	28081	0.60	17.70	0.08	41783	312	9.2	573
MAXIMUM	79150	2.2	13508	82	13590	71980	1.10	19.79	0.13	72649	677	15.0	913
TOTAL	1420930		205978	1666	207644	1097181				1289374	9919	297.8	
AVERAGE	64588	1.7	9363	76	9438	49872	0.82	18.95	0.09	58608	451	13.5	694

SOLIDS DISPOSAL REPORT

PART 13

DATE	SCREENINGS TOTAL CU.FT.	GRIT REMOVED		SLUDGE TO THE BELT FILTER PRESSES			
		AGC NO.1 CU.YD.	AGC NO.2 CU.YD.	NO.1 LBS	NO.2 LBS	NO.3 LBS	TOTAL LBS
2012							
8/1/2012	54		1.33			9517	9517
8/2/2012	54						
8/3/2012	54				5632	9937	15570
8/4/2012	54						
8/5/2012	54						
8/6/2012	54			11531		10594	22125
8/7/2012	54			9054		10333	19387
8/8/2012	54			7339	4399	5330	17068
8/9/2012	54			3884		9131	13015
8/10/2012	54			4251		8535	12786
8/11/2012	54						
8/12/2012	54						
8/13/2012	54			13442		13590	27032
8/14/2012	54			13683		8980	22663
8/15/2012	54			10976	2809	8360	22145
8/16/2012	54			4251		9353	13604
8/17/2012	54			4581		9313	13895
8/18/2012	54						
8/19/2012	54						
8/20/2012	54			12524		13007	25531
8/21/2012	54			14695		8956	23651
8/22/2012	54			7223		8526	15749
8/23/2012	54	1.50		4811		7344	12155
8/24/2012	54			5734		9889	15623
8/25/2012	54						
8/26/2012	54						
8/27/2012	54			4930	12455	9150	26535
8/28/2012	54				19336	10622	29958
8/29/2012	54	1.17				8581	8581
8/30/2012	54					7954	7954
8/31/2012	54				8086	10644	18730
MINIMUM	54	1.17	1.33				
MAXIMUM	54	1.50	1.33	14695	19336	13590	29958
TOTAL	1674	2.67	1.33	132909	52718	207644	393271
AVERAGE	54	1.34	1.33	8307	8786	9438	17876

ALUM SLUDGE DEWATERING REPORT

PART 14

DATE	FEED	% TOTAL	SLUDGE	POLYMER	PRESS	TOTAL	TOTAL	POLYMER	CAKE	FILTRATE	FILTRATE	FILTRATE	OPER	PROD
						OUTPUT	WET							
AUGUST	GALLONS	SOLIDS	POUNDS	POUNDS	NUMBER	POUNDS	POUNDS	% WT	% T.S.	% T.S.	GALLONS	POUNDS	HOURS	RATE
2012														
8/1/2012														
8/2/2012														
8/3/2012														
8/4/2012														
8/5/2012														
8/6/2012														
8/7/2012														
8/8/2012														
8/9/2012														
8/10/2012														
8/11/2012														
8/12/2012														
8/13/2012														
8/14/2012														
8/15/2012														
8/16/2012														
8/17/2012														
8/18/2012														
8/19/2012														
8/20/2012														
8/21/2012														
8/22/2012														
8/23/2012	11400	3.5	3328	35	2	3363	17148	1.00	19.61	0.13	9344	101	3.8	876
8/23/2012	7440	3.5	2172	35	3	2207	9315	1.60	23.69	0.13	6323	69	2.9	749
8/24/2012														
8/25/2012														
8/26/2012														
8/27/2012														
8/28/2012														
8/29/2012	14700	3.6	4414	26	2	4440	24997	0.59	17.76	0.07	11703	68	3.5	1261
8/29/2012	11290	3.6	3390	26	3	3416	15799	0.76	21.62	0.07	9396	55	3.6	942
8/30/2012														
8/31/2012														
MINIMUM	7440	3.5	2172	26		2207	9315	0.59	17.76	0.07	6323	55	2.9	749
MAXIMUM	14700	3.6	4414	35		4440	24997	1.60	23.69	0.13	11703	101	3.8	1261
TOTAL	44830		13303	122		13425	67259				36765	293	13.8	
AVERAGE	9420	3.5	2750	35		2785	13231	1.30	21.65	0.13	7834	85	3.4	957

ENERGY INPUT / OUTPUT REPORT

Part 15

DATE	<u>UGI NATURAL GAS</u>				<u>ELECTRIC POWER</u>			<u>ANAEROBIC DIGESTER GAS</u>			
	SLM scf	DEWATERING scf	MPH scf	TOTAL scf	PURCHASED kwh	PRODUCED kwh	TOTAL USED kwh	TURBINES scf	BOILERS scf	WASTE scf	TOTAL scf
2012											
1	370	0	100	470	30600	0	30600	0	75750	262870	338620
2	420	0	100	520	32400	0	32400	0	71970	277910	349880
3	360	0	0	360	32400	0	32400	0	80540	264570	345110
4	360	0	100	460	30600	0	30600	0	70400	263700	334100
5	340	0	100	440	28800	0	28800	0	69130	261520	330650
6	390	0	100	490	30600	0	30600	0	74980	272940	347920
7	350	0	100	450	30600	0	30600	0	78010	275460	353470
8	450	0	200	650	32400	0	32400	0	75220	269720	344940
9	340	0	0	340	30600	0	30600	0	76990	267730	344720
10	370	0	200	570	32400	0	32400	0	87430	272240	359670
11	310	0	0	310	27000	0	27000	0	75160	284410	359570
12	340	0	100	440	32400	0	32400	0	83050	277290	360340
13	390	0	200	590	32400	0	32400	0	81730	280190	361920
14	400	0	100	500	32400	0	32400	0	87090	271030	358120
15	370	0	100	470	30600	0	30600	0	85620	280320	365940
16	390	0	100	490	30600	0	30600	0	82610	285270	367880
17	420	0	100	520	32400	0	32400	0	81960	280230	362190
18	320	300	100	720	28800	0	28800	0	79940	312360	392300
19	350	0	100	450	30600	0	30600	0	88120	268760	356880
20	380	0	200	580	30600	0	30600	0	90830	260970	351800
21	390	0	200	590	30600	0	30600	0	62830	257930	320760
22	380	0	100	480	32400	0	32400	0	86010	246750	332760
23	380	0	100	480	28800	0	28800	0	76670	270600	347270
24	520	0	100	620	30600	0	30600	0	73780	271860	345640
25	360	0	100	460	30600	0	30600	0	79180	258380	337560
26	340	0	100	440	28800	0	28800	0	70590	273700	344290
27	380	0	100	480	32400	0	32400	0	80890	287170	368060
28	370	0	100	470	32400	0	32400	0	75370	281240	356610
29	380	0	100	480	30600	0	30600	0	75050	276950	352000
30	370	0	100	470	30600	0	30600	0	77260	269690	346950
31	410	0	100	510	34200	0	34200	0	80320	251480	331800
MINIMUM	310	0	0	310	27000	0	27000	0	62830	246750	320760
MAXIMUM	520	300	200	720	34200	0	34200	0	90830	312360	392300
TOTAL	11700	300	3300	15300	961200	0	961200	0	2434480	8435240	10869720
AVERAGE	377	10	106	494	31006	0	31006	0	78532	272105	350636

ENVIRONMENTAL CONDITIONS REPORT

PART 16

DATE	AIR TEMP	INF TEMP	FST TEMP	PRECIPITATION
AUGUST	DEG F	DEG F	DEG C	INCHES
2012				
1	73	69	OOS	0.58
2	76	69	77	0.00
3	79	69	75	0.00
4	80	69	77	0.00
5	83	69	76	0.21
6	75	70	76	0.04
7	72	69	75	0.00
8	77	70	76	0.00
9	77	70	75	0.28
10	75	70	76	0.66
11	78	70	76	0.13
12	73	69	76	0.00
13	72	69	75	0.00
14	71	69	75	0.52
15	73	70	75	0.12
16	73	69	76	0.00
17	74	69	75	0.78
18	68	69	75	0.01
19	64	68	74	0.00
20	69	69	74	0.29
21	70	69	74	0.00
22	71	70	74	0.00
23	73	70	75	0.00
24	74	69	75	0.00
25	75	69	75	trace
26	74	69	75	0.00
27	79	69	75	0.04
28	75	70	76	0.09
29	70	69	75	0.00
30	68	69	74	0.00
31	73	69	74	0.00
MINIMUM	64	68	74	0.00
MAXIMUM	83	70	77	0.78
TOTAL				3.75
AVERAGE	74	69	75	0.12

Pennsylvania Department of Environment Protection Discharge Monitoring Report (DMR)

FACILITY: ALLENTOWN CITY WWTP **PERMIT NUMBER:** PA0026000 **REGION:** EP NE Rgnl Off Wilkes Barre
PERMITTEE: ALLENTOWN CITY LEHIGH CNTY **OUTFALL:** 001 **COUNTY:** Lehigh
 112 W UNION ST From: 2012-08-01 **CITY:** ALLENTOWN
ADDRESS: ALLENTOWN, PA 18102-4912 **MONITORING PERIOD:** To: 2012-08-31 **NO DISCHARGE FROM SITE:** ()

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Value	Value		Value	Value	Value				
Dissolved Oxygen Parameter Code: 00300 Stage Code: 1	Sample Measurement	*****	*****		6.9	*****	*****	mg/L	0	1/day	Grab
	Permit Requirement	*****	*****		5.0 Minimum	*****	*****		1/day	Grab	
pH Parameter Code: 00400 Stage Code: 1	Sample Measurement	*****	*****		7.1	*****	7.4	S.U.	0	1/day	Grab
	Permit Requirement	*****	*****		6.0 Minimum	*****	9.0 Maximum		1/day	Grab	
Total Suspended Solids Parameter Code: 00530 Stage Code: 1	Sample Measurement	783	918	lbs/day	*****	3	4	mg/L	0	1/day	24-Hr Composite
	Permit Requirement	10008 Average Monthly	15012 Weekly Average		*****	30.0 Average Monthly	45.0 Weekly Average		1/day	24-Hr Composite	
Ammonia-Nitrogen Parameter Code: 00610 Stage Code: 1	Sample Measurement	253	*****	lbs/day	*****	1	*****	mg/L	0	1/day	24-Hr Composite
	Permit Requirement	1668 Average Monthly	*****		*****	5.0 Average Monthly	*****		1/day	24-Hr Composite	
Flow (mgd) Parameter Code: 50050 Stage Code: 1	Sample Measurement	29.39	32.55	MGD	*****	*****	*****		0	1/day	24-Hr Composite
	Permit Requirement	Report Average Monthly	Report Daily Maximum		*****	*****	*****		Continuous	Recorded	
Total Residual Chlorine (TRC) Parameter Code: 50060 Stage Code: 1	Sample Measurement	*****	*****		*****	0.37	*****	mg/L	0	1/day	24-Hr Composite
	Permit Requirement	*****	*****		*****	0.50 Average Monthly	*****		1/day	Grab	
Fecal Coliform Parameter Code: 74055 Stage Code: 1	Sample Measurement	*****	*****		*****	5	*****	CFU/100 mL	0	1/day	24-Hr Composite
	Permit Requirement	*****	*****		*****	200 Geometric Mean	*****		1/day	Grab	
Name/Title of Principal Executive Officer Or Authorized Agent Robert Kerchusky Manager of Operations	I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. 4904 (relating to unsworn falsification).						Signature of Principal Executive Officer Or Authorized Agent E-DMR PIN SIGNATURE PROVIDED	Telephone No 610-437-7641	Date 2012-09-18		

Report all violations during the reporting period on a Non-Compliance Reporting Form, as an attachment to your eDMR submission.

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Pennsylvania Department of Environment Protection Discharge Monitoring Report (DMR)

FACILITY: ALLENTOWN CITY WWTP **PERMIT NUMBER:** PA0026000 **REGION:** EP NE Rgnl Off Wilkes Barre
PERMITTEE: ALLENTOWN CITY LEHIGH CNTY **OUTFALL:** 001 **COUNTY:** Lehigh
 112 W UNION ST From: 2012-08-01 **CITY:** ALLENTOWN
ADDRESS: ALLENTOWN, PA 18102-4912 **MONITORING PERIOD:** To: 2012-08-31 **NO DISCHARGE FROM SITE:** ()

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Value	Value		Value	Value	Value				
CBOD5 Parameter Code: 80082 Stage Code: 1	Sample Measurement	841	941	lbs/day	****	3	4	mg/L	0	1/day	24-Hr Composite
	Permit Requirement	6672 Average Monthly	10008 Weekly Average		****	20.0 Average Monthly	30.0 Weekly Average			1/day	24-Hr Composite
Name/Title of Principal Executive Officer Or Authorized Agent	I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. 4904 (relating to unsworn falsification).					Signature of Principal Executive Officer Or Authorized Agent		Telephone No	Date		
Robert Kerchusky Manager of Operations						E-DMR PIN SIGNATURE PROVIDED					

Report all violations during the reporting period on a Non-Compliance Reporting Form, as an attachment to your eDMR submission.

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