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Submittal Date: December 1, 2014

Delivered electronically

Allentown Water and Sewer Utility System Concession and Lease Agreement

Report Submission Executive Summary

REPORT INFORMATION	LCA Report ID	OSM09	City Report ID	B8.1
	Report Name	Monthly Wastewater Treatment Plant Operating Report		
	Utility System	Wastewater System		
	Report Frequency	Monthly	Previous Report Date	October 30, 2014
	Reporting Period	October 2014	Report Due Date	December 1, 2014

DEPARTMENT INFORMATION	LCA Reporting Department	Wastewater		
	Department Manager	Robert Kerchusky, Jr. - Wastewater Services Director		
	Email Address	robertkerchusky@lehighcountyauthority.org		

LEASE REFERENCE	Report meets requirements of	Concession and Lease Operating Standards			
	Part A (water) or Part B (wastewater)	Part B	Section #	8.1	Page #

Brief Report Description

This report summarizes the operating activities at the Wastewater Treatment Plant (WWTP) during the previous month. It includes process control, solids analyses, biological performance, sludge processing, digester performance, dewatering, solids disposal, alum sludge dewatering and energy input reports. It also includes a copy of the monthly Discharge Monitoring Report (DMR) submitted to the PaDEP.

Additional Information (specific to this report)

In October, the WWTP received a daily average of 28.98 million gallons of influent. This was a decrease from the September average. All permit limits were met during the month.

**LEHIGH COUNTY AUTHORITY
ALLENTOWN DIVISION
WATER RESOURCES
WASTEWATER TREATMENT**



**MONTHLY REPORT
OCTOBER 2014**



LEHIGH COUNTY AUTHORITY

ALLENTOWN DIVISION

WATER RESOURCES WASTEWATER TREATMENT

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MONTHLY SUMMARY REPORT OCTOBER 2014

	DAILY AVERAGE	PERMIT	
WASTEWATER FLOWS			
INFLUENT	28.98	< 40.0	mgd
MAXIMUM (AVERAGE OF)	40.6		mgd
MINIMUM (AVERAGE OF)	17.4		mgd
SOLIDS DEWATERING RETURN	2.2		mgd
PLASTIC MEDIA RECIRCULATION	7.7		mgd
ROCK MEDIA RECIRCULATION	4.1		mgd
SUSPENDED SOLIDS			
INFLUENT	188		mg/L
EFFLUENT	4	<30	mg/L
REMOVAL	98		%
BIOCHEMICAL OXYGEN DEMAND			
INFLUENT	164		mg/L
EFFLUENT	4	<20	mg/L
REMOVAL	98		%
AMMONIA NITROGEN			
INFLUENT	16.7		mg/L
EFFLUENT	0.6	<5	mg/L
REMOVAL	97		%
EFFLUENT PARAMETERS			
MINIMUM DISSOLVED OXYGEN	7.4	>5.0	mg/L
FREE RESIDUAL CHLORINE	0.04		mg/L
TOTAL RESIDUAL CHLORINE	0.38	<0.5	mg/L
MAXIMUM TOTAL RESIDUAL CHLORINE	0.49		mg/L
FECAL COLIFORMS	17	<200	#/100 ml
MINIMUM pH	7.0	>6	Std. Units
MAXIMUM pH	7.6	<9	Std. Units

MONTHLY SUMMARY REPORT
SOLIDS PROCESSING
OCTOBER 2014

DAILY AVERAGES

DIGESTER LOADING	PRI. No.1	PRI. No.2	SEC.
RAW PRIMARY SLUDGE, Gals.	38,446	38,833	
TOTAL SOLIDS, %	4.02	4.09	
POUNDS, Dry Wt.	12,892	13,259	
 HUMUS SLUDGE, Gals.	 18,425	 18,459	
TOTAL SOLIDS, %	3.47	3.18	
POUNDS, Dry Wt.	5,343	4,888	
 DIGESTER PERFORMANCE	 PRI. No.1	 PRI. No.2	 SEC.
TEMPERATURE, Degrees F	99.48	99.48	
TOTAL SOLIDS, %	1.76	1.76	2.37
ALKALINITY, mg/l	3,904	3,876	4,219
VOLATILE ACIDS, mg/l	244	238	257
RATIO V.A./ALK	0.06	0.06	0.06
VOLATILE SOLIDS, %	71.99	68.44	70.51
VOLATILE SOLIDS REDUCTION, %	58.33	60.37	
HYDRAULIC DETENTION TIME, Days	21.4	21.3	10.2
 DIGESTER GAS PRODUCTION			
FIRED BIO-GEN, Cu. Ft.		271,290	
FIRED BOILERS, Cu. Ft.		15,233	
FLARED, Cu. Ft.		39,727	
TOTAL GAS PRODUCED, Cu. Ft.		326,250	
 SOLIDS DEWATERING	 BFP No.1	 BFP No.2	 BFP No.3
SLUDGE FEED, Gals.	27,489	49,105	72,435
TOTAL SOLIDS, %	3.1	2.2	2.1
SLUDGE REMOVED, Dry Lbs.	6,523	8,906	11,564
POLYMER, % Dry Wt.	0.51	0.63	0.50
CAKE TOTAL SOLIDS, %	17.07	16.44	17.94
OPERATING HOURS	9.2	14.0	13.5
PRODUCTION RATE, Dry Lbs. / Hr.	764	643	882
 TOTAL GRIT REMOVED, Cu. Yds.		5.99	
 TOTAL SCREENINGS REMOVED, Cu. Ft.		1,674	
 TOTAL SLUDGE REMOVED, Lbs.		263,930	

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
October 2014														
1	27.92	39.3	12.3	2.7	7.9	3.4	14843	7.4	7.0	380	1.6	0.03	0.40	1.2
2	28.83	40.4	12.9	1.9	7.8	4.5	4950	7.6	7.1	333	1.4	0.02	0.38	1.0
3	29.15	45.8	18.7	2.1	7.2	4.6	9893	8.0	7.2	378	1.6	0.05	0.49	1.1
4	29.04	45.5	18.1	1.9	7.8	4.4	6020	7.5	7.3	392	1.6	0.04	0.40	1.2
5	28.12	37.8	17.9	2.2	7.3	5.3	14843	8.9	7.4	389	1.7	0.04	0.35	1.3
6	28.27	35.7	15.4	3.1	7.1	4.6	14848	8.3	7.3	302	1.3	0.07	0.43	0.9
7	28.72	34.7	19	2.1	8.6	3.4	29698	7.8	7.4	235	1.0	0.05	0.43	0.6
8	30.82	41.6	22.4	3.0	6.5	2.7	32172	7.7	7.3	286	1.1	0.04	0.39	0.7
9	29.48	41.2	16.1	2.5	6.6	4.5	32173	8.0	7.2	301	1.2	0.03	0.44	0.8
10	29.59	45.4	16.1	2.2	7.8	3.5	37122	8.2	7.3	298	1.2	0.03	0.40	0.8
11	29.31	39.7	20.4	1.9	7.1	4.8	39600	8.0	7.2	340	1.4	0.02	0.39	1.0
12	27.23	34.3	16.1	1.9	8.4	5.5	19800	8.3	7.4	334	1.5	0.03	0.33	1.1
13	27.20	39.3	15.9	2.0	8.4	5.3	61875	8.3	7.3	404	1.8	0.06	0.36	1.4
14	29.08	43.9	14.1	2.1	7.3	4.6	61875	8.8	7.3	335	1.4	0.06	0.34	1.0
15	32.04	43.9	15.8	2.1	6.5	2.5	24748	8.0	7.3	400	1.5	0.04	0.30	1.2
16	35.49	39.1	24.6	2.1	5.3	0.2	14843	8.3	7.1	406	1.4	0.03	0.37	1.0
17	29.77	46.9	19.7	2.2	8.1	3.1	42071	8.2	7.1	392	1.6	0.05	0.32	1.3
18	28.51	40.9	16.1	1.9	7.4	5.3	34648	7.8	7.2	387	1.6	0.05	0.35	1.3
19	29.15	41.3	16.6	1.9	6.3	5.7	54445	8.3	7.3	479	2.0	0.04	0.27	1.7
20	28.03	39.7	17.8	2.1	8.1	4.8	61870	8.7	7.5	384	1.6	0.02	0.34	1.3
21	28.39	45.3	18.1	2.1	8.5	4.1	19799	8.1	7.4	319	1.3	0.02	0.42	0.9
22	28.56	42.6	19	2.0	8.7	4.0	19789	8.0	7.5	314	1.3	0.04	0.47	0.8
23	28.92	38.3	20.6	2.4	9.1	2.5	19799	8.5	7.6	326	1.4	0.03	0.38	1.0
24	27.68	45.4	18.8	2.1	8.2	5.0	24748	8.4	7.6	308	1.3	0.04	0.42	0.9
25	28.73	39.4	19.9	1.8	7.7	4.7	27222	8.2	7.3	337	1.4	0.04	0.44	1.0
26	28.24	38.9	16.3	2.2	7.4	5.1	29698	8.4	7.5	329	1.4	0.07	0.44	1.0
27	28.51	36.4	15.9	2.3	8.7	3.4	24748	8.9	7.3	299	1.3	0.05	0.42	0.8
28	28.90	63.4	14.9	2.1	8.3	3.7	34647	8.8	7.5	299	1.2	0.05	0.39	0.9
29	29.53	35.8	19.8	2.1	8.2	3.4	2470	8.3	7.4	351	1.4	0.07	0.37	1.1
30	27.40	44.8	17.7	2.1	8.0	5.4	2475	8.9	7.4	371	1.6	0.05	0.35	1.3
31	27.86	12.3	12.5	2.1	7.6	3.7	4950	8.7	7.4	351	1.5	0.05	0.20	1.3
MINIMUM	27.20	12.3	12.3	1.8	5.3	0.2	2470	7.4	7.0	235	1.0	0.02	0.20	0.6
MAXIMUM	35.49	63.4	24.6	3.1	9.1	5.7	61875	8.9	7.6	479	2.0	0.07	0.49	1.7
TOTAL	898.47			67.2	237.9	127.7	822682			10759				
AVERAGE	28.98	40.6	17.4	2.2	7.7	4.1	26538	8.2	7.3	347	1.4	0.04	0.38	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	
October 2014												
1	0.2	11.0	0.1	99	37	184	53	49	23	4	98	
2	1.0	12.0	0.1	99	66	209	50	55	20	3	99	
3	0.3	9.0	0.1	99	42	164	56	56	18	4	98	
4	0.8	8.0	0.1	99	57	172	50	59	15	3	98	
5	0.2	9.0	0.1	99	36	160	49	54	22	3	98	
6	0.3	9.5	0.1	99	76	177	50	70	23	4	98	
7	0.4	10.5	0.1	99	79	153	48	56	21	4	97	
8	0.2	10.0	0.1	99	33	186	48	56	21	4	98	
9	0.2	9.0	0.1	99	61	175	46	72	22	3	98	
10	0.2	10.0	0.1	99	60	194	64	65	26	4	98	
11	0.3	11.0	0.1	99	49	172	51	55	17	4	98	
12	0.2	8.5	0.1	99	78	162	54	55	16	4	98	
13	0.4	9.0	0.1	99	114	186	61	56	17	5	97	
14	0.2	11.0	0.1	99	82	181	50	58	17	5	97	
15	0.3	10.0	0.1	99	62	308	52	62	20	4	99	
16	0.4	8.0	0.1	99	56	159	53	66	19	4	97	
17	0.7	10.0	0.1	99	77	182	59	62	18	4	98	
18	0.8	9.0	0.1	99	97	120	49	61	17	4	97	
19	0.7	9.5	0.1	99	85	161	38	66	19	5	97	
20	0.5	10.0	0.1	99	94	188	38	60	18	4	98	
21	0.5	9.5	0.1	99	71	189	53	61	18	5	97	
22	0.5	10.0	0.1	99	61	168	53	69	19	4	98	
23	1.2	10.0	0.1	99	126	196	47	74	21	4	98	
24	0.5	10.0	0.1	99	68	173	41	58	20	4	98	
25	0.6	9.0	0.1	99	94	164	49	61	21	2	99	
26	0.4	9.5	0.1	99	75	166	39	65	19	3	98	
27	0.5	10.0	0.1	99	103	216	41	125	21	4	98	
28	3.0	8.0	0.1	99	174	288	35	57	19	4	99	
29	1.0	9.0	0.1	99	75	170	57	61	18	4	98	
30	0.2	15.0	0.1	99	50	284	73	45	23	5	98	
31	0.3	10.0	0.1	99	78	224	50	72	21	4	98	
MINIMUM	0.2	8.0	0.1	99	33	120	35	45	15	2	97	
MAXIMUM	3.0	15.0	0.1	99	174	308	73	125	26	5	99	
AVERAGE	0.5	9.8	0.1	99	75	188	50	63	20	4	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
OCTOBER	Mg/L	Mg/L	Mg/L	Mg/L	Mg/L	%	Mg/L	Mg/L	Mg/L	Mg/L	Mg/L	%	
2014													
1	23	146	82	40	3	98	31.8	17.7	16.2	4.2	0.7	96	5
2	29	135	57	16	3	98	31.8	18.2	16.7	4.0	0.6	97	1
3	34	141	81	22	4	97	32.0	18.4	17.4	4.7	0.6	97	2
4	49	160	95	22	3	98	31.2	15.6	15.0	3.2	0.4	97	4
5	30	185	98	37	3	98	27.1	16.1	15.0	2.7	0.2	99	16
6	58	156	80	37	5	97	29.6	17.4	16.1	4.6	1.1	94	59
7	44	159	77	35	5	97	33.7	16.3	15.3	4.4	1.3	92	37
8	30	156	74	30	4	97	28.2	14.5	13.8	3.9	0.7	95	41
9	44	154	77	34	4	97	30.2	14.8	14.2	3.6	0.3	98	20
10	60	177	88	40	4	98	32.2	15.7	15.0	4.1	0.5	97	9
11	45	175	87	31	4	98	32.5	14.2	14.8	3.3	0.4	97	19
12	47	166	85	24	4	98	29.5	14.2	13.3	2.8	0.4	97	22
13	82	158	77	22	4	97	30.2	19.1	17.9	5.3	0.6	97	32
14	44	162	72	21	4	98	32.9	16.8	15.6	4.7	0.8	95	3
15	40	225	62	24	3	99	29.5	17.0	15.5	4.4	0.6	96	14
16	44	158	75	22	3	98	33.3	15.7	14.4	4.2	0.6	96	106
17	55	158	75	21	4	97	28.4	17.0	15.3	4.1	0.6	96	39
18	61	132	79	25	4	97	36.9	15.9	14.9	3.6	0.4	97	11
19	58	149	65	23	4	97	26.6	16.1	15.0	3.5	0.3	98	33
20	85	167	67	26	4	98	28.5	18.2	16.6	5.2	0.7	96	11
21	54	131	67	24	4	97	33.4	21.8	15.6	4.8	0.8	96	3
22	47	167	88	32	3	98	32.1	16.6	18.6	4.1	0.6	96	5
23	58	165	82	22	3	98	30.3	17.2	17.0	4.4	0.4	98	15
24	58	149	75	28	3	98	26.5	16.6	16.6	3.9	0.4	98	41
25	54	161	80	19	3	98	25.2	15.9	15.8	3.9	0.4	97	22
26	59	158	74	26	3	98	28.2	16.9	21.3	0.2	0.3	98	58
27	77	193	82	24	4	98	29.9	20.5	20.3	5.6	0.8	96	51
28	61	154	66	27	4	97	35.5	16.4	16.6	4.7	0.9	95	106
29	51	169	86	17	3	98	32.3	16.7	16.8	4.4	0.5	97	8
30	45	237	94	26	4	98	30.6	13.9	14.9	3.9	0.6	96	35
31	50	190	81	24	4	98	33.2	16.4	16.0	4.1	0.5	97	114
MINIMUM	23	131	57	16	3	97	25.2	13.9	13.3	0.2	0.2	92	1
MAXIMUM	85	237	98	40	5	99	36.9	21.8	21.3	5.6	1.3	99	114
AVERAGE	51	164	78	26	4	98	30.7	16.7	16.0	4.0	0.6	97	17

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
October 2014	1	2	3				1	2	3	4			
1	425420	419890	288000	1133310	0.21	19849	59990	37620	46040	120580	264230	0.06	1322
2	421310	428060	288000	1137370	0.21	19920	62390	39280	46790	125270	273730	0.06	1370
3	287450	292740	288000	868190	0.21	15205	60740	40820	48740	126720	277020	0.06	1386
4	330570	282290	288000	900860	0.21	15778	60470	40610	48970	126640	276690	0.06	1385
5	602780	353620	288000	1244400	0.21	21794	59870	39810	48320	123360	271360	0.06	1358
6	760820	418100	432000	1610920	0.21	28214	59030	39330	45930	121170	265460	0.06	1328
7	6300	423030	288000	717330	0.97	58031	58420	39260	43350	128520	269550	0.30	6744
8	316080	721230	288000	1325310	0.97	107215	57750	34880	38320	125960	256910	0.30	6428
9	409030	307370	288000	1004400	0.97	81254	56890	40430	44760	125010	267090	0.30	6683
10	289570	289910	288000	867480	0.97	70177	57080	43120	47990	125980	274170	0.30	6860
11	283530	285460	288000	856990	0.97	69329	57360	43230	47910	125520	274020	0.30	6856
12	283390	281350	288000	852740	0.97	68985	56210	43010	47770	125500	272490	0.30	6818
13	287950	315560	288000	891510	0.97	72121	55900	43150	49190	125230	273470	0.30	6842
14	287130	314270	288000	889400	0.20	14835	55330	43260	49550	124460	272600	0.32	7275
15	286390	314970	288000	889360	0.20	14835	55030	42450	48880	123640	270000	0.32	7206
16	286110	318810	288000	892920	0.20	14894	55220	41950	48440	123280	268890	0.32	7176
17	289490	320280	288000	897770	0.20	14975	55440	41670	47940	122740	267790	0.32	7147
18	272160	320440	288000	880600	0.20	14688	55250	41740	48320	122440	267750	0.32	7146
19	322740	324340	288000	935080	0.20	15597	54730	41500	47860	122060	266150	0.32	7103
20	330680	323450	288000	942130	0.20	15715	54780	40870	48020	124060	267730	0.32	7145
21	303390	323020	288000	914410	0.12	9151	54660	39300	48400	125090	267450	0.11	2454
22	290500	325390	288000	903890	0.12	9046	54640	38720	46990	124750	265100	0.11	2432
23	262680	326860	288000	877540	0.12	8782	184070	38630	46530	124530	393760	0.11	3612
24	264930	325720	288000	878650	0.12	8794	67600	38500	46680	123810	276590	0.11	2537
25	280350	303240	288000	871590	0.12	8723	52120	38530	46310	122900	259860	0.11	2384
26	275690	301870	288000	865560	0.12	8663	231510	56850	44550	122450	455360	0.11	4177
27	263340	303030	288000	854370	0.12	8551	170370	93010	40470	122450	426300	0.11	3911
28	265580	268660	288000	822240	0.14	9600	124290	78430	40730	121580	365030	0.15	4567
29	286520	283900	288000	858420	0.14	10023	75170	38330	42960	120260	276720	0.15	3462
30	290240	304760	288000	883000	0.14	10310	75240	38080	42360	120060	275740	0.15	3450
31	295250	307390	288000	890640	0.14	10399	73730	37550	39850	114580	265710	0.15	3324
MINIMUM	6300	268660	288000	717330	0.12	8551	52120	34880	38320	114580	256910	0.06	1322
MAXIMUM	760820	721230	432000	1610920	0.97	107215	231510	93010	49550	128520	455360	0.32	7275
TOTAL	9857370	10429010	9072000	29358380		855452	2311280	1353920	1428920	3830600	8924720		141886
AVERAGE	317980	336420	292645	947045	0.35	27595	74557	43675	46094	123568	287894	0.20	4577

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
October												
2014												
1	37960	37900	3.80	3.71	12038	11719	19450	19860	3.27	2.29	5304	3785
2	38490	38930	4.33	3.99	13892	12955	18190	18080	2.39	2.16	3618	3261
3	38890	39180	3.98	3.70	12901	12082	17740	17750	2.35	2.44	3473	3608
4	38760	38920	3.77	4.15	12171	13471	17620	17630	3.94	3.40	5783	5003
5	38720	39180	3.96	4.36	12796	14239	17740	17660	3.47	3.24	5138	4772
6	38630	38830	4.11	4.18	13249	13545	17550	17680	3.18	2.95	4654	4350
7	38180	38870	3.76	3.67	11981	11905	17700	17730	3.21	2.81	4731	4151
8	39300	38920	4.01	4.20	13135	13641	17130	17160	2.97	3.14	4247	4487
9	38490	38790	3.95	4.18	12672	13523	16650	16660	2.84	3.23	3947	4488
10	38820	39260	3.74	4.06	12100	13294	16580	16540	3.06	3.37	4235	4645
11	38940	38930	3.69	4.00	11984	12995	16630	16620	3.45	3.46	4788	4799
12	38470	38900	3.84	3.73	12328	12101	16450	16570	3.57	3.59	4901	4958
13	38200	39000	4.02	3.82	12799	12417	16480	16650	3.66	3.52	5030	4891
14	38410	38930	3.97	4.08	12709	13231	16620	16590	3.56	3.51	4931	4856
15	38170	38780	4.05	4.11	12877	13301	16710	16600	3.63	3.44	5052	4766
16	38170	38580	4.85	4.80	15439	15436	16140	16060	3.85	3.60	5176	4825
17	38030	38260	3.79	4.48	12013	14295	16590	16510	3.82	3.39	5285	4661
18	38150	38570	3.57	3.93	11367	12626	17550	17580	3.96	3.35	5789	4915
19	38130	38170	3.85	3.82	12243	12153	17660	17660	3.65	3.22	5369	4743
20	38720	38900	3.88	4.19	12538	13577	18920	18880	3.50	2.99	5523	4712
21	38260	38240	3.62	3.65	11551	11649	19640	19720	3.54	3.13	5794	5140
22	38270	38880	4.35	4.11	13892	13311	20170	20170	3.62	3.17	6089	5337
23	38520	38740	4.32	4.11	13878	13287	20600	20720	3.68	3.21	6318	5551
24	38490	39180	4.02	4.15	12904	13544	20630	20700	3.68	3.42	6323	5896
25	38270	38280	4.26	4.36	13597	13920	20720	20690	3.67	3.20	6338	5513
26	38720	38920	4.05	4.13	13062	13414	20710	20620	3.70	3.15	6395	5417
27	39070	39790	4.19	4.33	13653	14369	20660	20610	3.47	3.18	5983	5462
28	38650	39080	4.18	3.92	13482	12784	20640	20640	3.59	3.19	6180	5491
29	38610	38870	4.04	4.05	13009	13113	20650	20650	3.72	3.29	6402	5657
30	37870	39000	4.38	4.40	13844	14303	20670	20600	3.75	3.28	6465	5631
31	37470	39050	4.34	4.56	13552	14843	20000	20640	3.82	3.34	6372	5754
MINIMUM	37470	37900	3.57	3.65	11367	11649	16140	16060	2.35	2.16	3473	3261
MAXIMUM	39300	39790	4.85	4.80	15439	15436	20720	20720	3.96	3.60	6465	5896
TOTAL	1191830	1203830			399656	411040	571190	572230			165633	151525
AVERAGE	38446	38833	4.02	4.09	12892	13259	18425	18459	3.47	3.18	5343	4888

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
October	<u>1</u>	<u>1</u>	<u>2</u>	<u>2</u>		
2014						
1	57410	17343	57760	15504	115170	32846
2	56680	17510	57010	16215	113690	33725
3	56630	16374	56930	15690	113560	32064
4	56380	17953	56550	18473	112930	36427
5	56460	17934	56840	19011	113300	36944
6	56180	17904	56510	17895	112690	35798
7	55880	16712	56600	16057	112480	32769
8	56430	17382	56080	18128	112510	35509
9	55140	16619	55450	18011	110590	34629
10	55400	16335	55800	17939	111200	34274
11	55570	16772	55550	17795	111120	34567
12	54920	17229	55470	17059	110390	34288
13	54680	17830	55650	17308	110330	35138
14	55030	17641	55520	18087	110550	35728
15	54880	17929	55380	18067	110260	35995
16	54310	20615	54640	20262	108950	40877
17	54620	17298	54770	18956	109390	36254
18	55700	17155	56150	17541	111850	34697
19	55790	17612	55830	16895	111620	34507
20	57640	18060	57780	18289	115420	36349
21	57900	17345	57960	16788	115860	34133
22	58440	19981	59050	18648	117490	38629
23	59120	20196	59460	18838	118580	39035
24	59120	19227	59880	19440	119000	38667
25	58990	19934	58970	19433	117960	39367
26	59430	19457	59540	18831	118970	38288
27	59730	19636	60400	19831	120130	39467
28	59290	19662	59720	18276	119010	37937
29	59260	19411	59520	18770	118780	38182
30	58540	20309	59600	19934	118140	40243
31	57470	19924	59690	20596	117160	40520
MINIMUM	54310	16335	54640	15504	108950	32064
MAXIMUM	59730	20615	60400	20596	120130	40877
TOTAL	1763020	565289	1776060	562565	3539080	1127854
AVERAGE	56872	18235	57292	18147	114164	36382

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
October 2014														
1	99.49	1.70	7.14	3820	240	0.06		99.48	1.55	7.09	3700	240	0.06	
2	99.48	1.69	7.11	4000	285	0.07		99.49	1.97	7.08	3700	240	0.06	
3	99.50	2.45	7.14	3980	255	0.06		99.52	2.2	7.08	3780	240	0.06	
4	99.48	1.64	7.12	3920	255	0.07		99.48	1.57	7.07	3820	300	0.08	
5	99.45	0.82	7.14	3960	255	0.06		99.47	1.59	7.10	3980	270	0.07	
6	99.48	1.58	7.15	3920	225	0.06		99.45	1.63	7.10	3800	225	0.06	
7	99.46	1.70	7.19	3910	255	0.07	72.73	99.47	2.06	7.13	3800	225	0.06	67.65
8	99.48	1.69	7.26	3880	255	0.07		99.47	1.78	7.17	3720	225	0.06	
9	99.50	1.83	7.25	3850	255	0.07		99.55	1.69	7.14	3820	225	0.06	
10	99.46	1.77	7.21	3900	255	0.07		99.48	1.75	7.21	3800	240	0.06	
11	99.47	1.77	7.25	3840	270	0.07		99.49	1.68	7.15	3840	270	0.07	
12	99.48	1.58	7.20	3830	255	0.07		99.48	1.53	7.18	3940	270	0.07	
13	99.49	1.77	7.26	3840	255	0.07		99.49	1.72	7.21	3850	240	0.06	
14	99.51	1.68	7.14	3820	255	0.07	73.08	99.54	1.59	7.11	3920	255	0.07	66.67
15	99.49	1.82	7.24	3850	225	0.06		99.47	1.89	7.19	3950	240	0.06	
16	99.49	1.83	7.25	3840	225	0.06		99.49	1.83	7.18	3900	240	0.06	
17	99.50	1.89	7.24	3850	240	0.06		99.47	1.87	7.23	3940	225	0.06	
18	99.49	1.82	7.25	3840	240	0.06		99.48	1.76	7.24	3920	225	0.06	
19	99.49	1.71	7.17	3860	225	0.06		99.50	1.48	7.15	3930	255	0.06	
20	99.48	1.73	7.24	3880	255	0.07		99.47	1.66	7.22	3860	225	0.06	
21	99.49	1.87	7.19	3940	285	0.07	74.19	99.54	1.92	7.13	3860	225	0.06	74.07
22	99.48	1.79	7.12	3720	210	0.06		99.49	1.64	7.08	3980	225	0.06	
23	99.47	1.75	7.21	4080	270	0.07		99.46	1.64	7.15	4020	255	0.06	
24	99.48	1.78	7.17	3960	210	0.05		99.45	1.8	7.16	3980	210	0.05	
25	99.45	1.85	7.16	3940	240	0.06		99.49	1.64	7.07	3900	210	0.05	
26	99.47	1.78	7.22	3900	210	0.05		99.46	1.7	7.15	3920	195	0.05	
27	99.45	1.86	7.13	3920	225	0.06		99.45	1.80	7.10	3940	210	0.05	
28	99.48	1.86	7.23	3800	195	0.05	67.96	99.45	1.78	7.19	3780	225	0.06	65.38
29	99.47	1.78	7.23	4000	255	0.06		99.48	2	7.20	3880	210	0.05	
30	99.45	1.76	7.23	3900	225	0.06		99.44	1.58	7.14	4020	270	0.07	
31	99.48	1.93	7.18	4260	270	0.06		99.48	2.38	7.14	3920	270	0.07	
MINIMUM	99.45	0.82	7.11	3720	195	0.05	67.96	99.44	1.48	7.07	3700	195	0.05	65.38
MAXIMUM	99.51	2.45	7.26	4260	285	0.07	74.19	99.55	2.38	7.24	4020	300	0.08	74.07
AVERAGE	99.48	1.76	7.19	3904	244	0.06	71.99	99.48	1.76	7.15	3876	238	0.06	68.44

DIGESTER PERFORMANCE REPORT

	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
Oct-12	61.78	63.42		13.8	13.5		23.1	22.5	10.9	0.096	0.099	
Nov-12	59.60	63.19		14.1	13.7		21.7	21.1	10.2	0.089	0.091	
Dec-12	60.21	63.54		12.3	12.5		21.9	21.4	10.4	0.097	0.101	
Jan-13	62.45	63.94		12.5	13.7		22.4	22.0	10.7	0.091	0.091	
Feb-13	63.00	63.33		11.9	12.8		22.0	21.8	10.5	0.093	0.090	
Mar-13	63.36	60.37			8.0			13.8	10.3	0.035	0.158	
Apr-13		56.44			6.3			9.7	9.0		0.219	
May-13	66.74	55.70			6.9			12.2	9.6	0.029	0.177	
Jun-13	64.04	58.54		11.5	11.7		22.2	21.8	10.5	0.096	0.096	
Jul-13	61.30	61.12		12.5	12.4		21.6	21.5	10.3	0.096	0.093	
Aug-13	60.43	62.23		12.7	12.0		22.7	22.8	10.9	0.093	0.092	
Sep-13	60.74	62.22		13.2	12.8		22.5	22.2	10.7	0.092	0.090	
Oct-13	59.45	60.22		12.8	12.2		22.2	21.8	10.5	0.093	0.092	
Nov-13	60.47	61.84		12.1	12.0		23.2	22.8	11.0	0.092	0.092	
Dec-13	61.72	63.19		12.6	13.5		22.3	21.9	10.6	0.095	0.093	
Jan-14	60.49	62.01		12.9	12.3		21.4	21.2	10.2	0.089	0.087	
Feb-14	60.93	61.51		11.6	7.1		20.6	20.1	9.7	0.095	0.094	
Mar-14	66.49	61.89		10.7	10.9		19.2	19.1	9.2	0.100	0.097	
Apr-14	62.02	62.59		9.7	10.2		18.0	17.7	8.3	0.110	0.109	
May-14	62.32	63.16		10.2	10.5		18.2	18.2	8.7	0.105	0.106	
Jun-14	61.66	62.43		10.5	11.3		19.5	19.7	9.4	0.101	0.099	
Jul-14	60.98	61.49		10.4	11.3		19.5	19.5	9.3	0.102	0.099	
Aug-14	58.19	60.01		13.4	13.1		21.9	21.8	10.5	0.083	0.085	
Sep-14	55.50	58.36		11.6	12.0		18.1	18.1	8.7	0.096	0.094	
Oct-14	58.33	60.37		11.5	11.5		21.4	21.3	10.2	0.096	0.096	

Vector Attraction Reduction 38% Min.

Pathogen Reduction > 15 Days @ 95 Deg F

SECONDARY DIGESTER PERFORMANCE REPORT

<u>% TOTAL SOLIDS</u>									
DATE	8FT	12FT	18FT	26FT	pH	ALKA	VOL	VA/ALK	VOL
October							ACIDS		SOLIDS
2014									
1	2.15	1.46	0.86	0.99	7.17	4160	240	0.06	
2	2.18	1.82	1.00	0.97	7.13	4260	255	0.06	
3	2.05	3.33	3.19	2.41	7.20	4240	270	0.06	
4	2.31	1.79	0.88	0.81	7.26	4260	300	0.07	
5	1.55	1.69	1.70	1.68	7.11	4340	285	0.07	
6	2.25	2.15	0.73	0.75	7.15	4200	255	0.06	
7	1.73	1.73	1.35	0.58	7.20	4160	240	0.06	69.70
8	2.31	0.97	0.74	0.77	7.35	4140	255	0.06	
9	2.40	1.52	0.81	0.85	7.22	4130	225	0.05	
10	2.37	1.32	0.89	0.83	7.28	4200	255	0.06	
11	2.55	1.94	1.19	0.93	7.13	4220	270	0.06	
12	2.34	1.46	0.96	0.89	7.23	4250	285	0.07	
13	2.47	1.61	1.16	0.99	7.25	4240	255	0.06	
14	2.50	1.22	1.03	1.05	7.14	4260	255	0.06	71.88
15	2.40	1.15	0.90	1.03	7.18	4200	255	0.06	
16	2.27	1.36	1.16	1.08	7.27	4140	255	0.06	
17	1.91	1.42	1.01	1.16	7.26	4180	240	0.06	
18	2.54	1.15	0.82	0.87	7.26	4160	255	0.06	
19	2.69	1.14	0.80	0.84	7.15	4180	270	0.06	
20	2.50	1.22	0.80	0.82	7.21	4120	255	0.06	
21	2.54	1.36	0.91	0.75	7.12	4160	285	0.07	71.15
22	2.52	1.43	0.51	0.90	7.08	4140	240	0.06	
23	2.43	1.05	0.63	0.86	7.17	4340	300	0.07	
24	2.60	1.22	1.04	1.07	7.17	4260	240	0.06	
25	2.53	1.09	0.92	0.96	7.16	4240	240	0.06	
26	2.69	1.15	1.02	0.97	7.10	4240	240	0.06	
27	2.74	1.23	1.01	0.92	7.06	4240	270	0.06	
28	2.77	1.93	0.62	0.96	7.19	4060	225	0.06	69.32
29	2.12	1.17	0.90	0.89	7.27	4240	240	0.06	
30	2.48	1.01	0.87	0.83	7.17	4440	255	0.06	
31	2.70	1.96	1.08	1.07	7.19	4380	270	0.06	
MINIMUM	1.55	0.97	0.51	0.58	7.06	4060	225	0.05	69.32
MAXIMUM	2.77	3.33	3.19	2.41	7.35	4440	300	0.07	71.88
TOTAL									
AVERAGE	2.37	1.49	1.02	0.98	7.19	4219	257	0.06	70.51

SLUDGE DEWATERING REPORT FOR BELT FILTER PRESS NO.1

PART 10

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
October 2014													
10/1/2014	43800	2.8	10228	52	10280	64982	0.50	15.82	0.08	36008	240	14.6	701
10/2/2014	33000	2.9	7981	44	8025	46932	0.54	17.10	0.07	27373	160	11.0	726
10/3/2014													
10/4/2014													
10/5/2014													
10/6/2014													
10/7/2014	22110	3.0	5532	20	5552	34765	0.36	15.97	0.10	17942	150	6.7	826
10/8/2014	20700	2.9	5007	38	5045	27253	0.75	18.51	0.08	17432	116	6.9	726
10/9/2014													
10/10/2014	7176	4.8	2873	9	2882	15877	0.31	18.15	0.07	5272	31	2.6	1105
10/11/2014													
10/12/2014													
10/13/2014	40800	2.3	7826	52	7878	48333	0.66	16.30	0.09	35005	263	13.6	575
10/14/2014													
10/15/2014													
10/16/2014													
10/17/2014	24840	3.0	6215	26	6241	35360	0.42	17.65	0.08	20600	137	9.0	691
10/18/2014													
10/19/2014													
10/20/2014													
10/21/2014													
10/22/2014													
10/23/2014													
10/24/2014													
10/25/2014													
10/26/2014													
10/27/2014													
10/28/2014													
10/29/2014													
10/30/2014													
10/31/2014													
MINIMUM	7176	2.3	2873	9	2882	15877	0.31	15.82	0.07	5272	31	2.6	575
MAXIMUM	43800	4.8	10228	52	10280	64982	0.75	18.51	0.10	36008	263	14.6	1105
TOTAL	192426		45662	241	45903	273501				159632	1097	64.4	
AVERAGE	27489	3.1	6523	34	6558	39072	0.51	17.07	0.08	22805	157	9.2	764

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
October 2014													
10/1/2014	62160	1.6	8295	58	8353	51880	0.69	16.10	0.08	55939	373	14.8	560
10/2/2014	48720	1.6	6501	47	6548	38226	0.69	17.13	0.08	44136	294	14.8	439
10/3/2014	36300	1.5	4541	44	4585	27292	0.69	16.80	0.08	33028	220	14.8	307
10/4/2014													
10/5/2014													
10/6/2014	58212	2.1	10195	55	10250	64875	0.54	15.80	0.08	50433	336	14.3	713
10/7/2014	60792	1.7	8619	58	8677	54470	0.67	15.93	0.07	54261	317	14.9	578
10/8/2014	30222	1.9	4789	44	4833	30339	0.91	15.93	0.07	26584	155	6.9	694
10/9/2014													
10/10/2014													
10/11/2014													
10/12/2014													
10/13/2014	48960	2.3	9392	52	9444	52698	0.55	17.92	0.08	42641	285	13.6	691
10/14/2014	52920	2.0	8827	52	8879	51265	0.58	17.32	0.08	46773	312	14.7	600
10/15/2014													
10/16/2014													
10/17/2014													
10/18/2014													
10/19/2014													
10/20/2014	40800	2.3	7826	47	7873	46976	0.60	16.76	0.08	35167	235	13.6	575
10/21/2014	41172	2.0	6867	47	6914	41281	0.68	16.75	0.09	36222	272	14.6	470
10/22/2014	47100	3.0	11784	50	11834	69902	0.42	16.93	0.08	38718	258	14.7	802
10/23/2014													
10/24/2014													
10/25/2014													
10/26/2014													
10/27/2014	52920	2.1	9268	61	9329	56032	0.65	16.65	0.08	46201	308	14.7	631
10/28/2014	43800	1.8	6575	58	6633	40153	0.87	16.52	0.08	38986	260	14.6	450
10/29/2014	54960	2.8	12834	64	12898	82840	0.49	15.57	0.08	45027	300	14.6	879
10/30/2014													
10/31/2014	57540	3.6	17276	61	17337	119895	0.35	14.46	0.09	43164	324	13.7	1261
MINIMUM	30222	1.5	4541	44	4585	27292	0.35	14.46	0.07	26584	155	6.9	307
MAXIMUM	62160	3.6	17276	64	17337	119895	0.91	17.92	0.09	55939	373	14.9	1261
TOTAL	736578		133591	798	134389	828125				637282	4251	209.3	
AVERAGE	49105	2.2	8906	53	8959	55208	0.63	16.44	0.08	42485	283	14.0	643

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
October 2014													
10/1/2014	84360	1.6	11257	64	11321	62547	0.56	18.10	0.08	76860	513	14.8	761
10/2/2014	87600	1.6	11689	61	11750	67531	0.51	17.40	0.08	79503	530	14.6	801
10/3/2014	79800	1.5	9983	58	10041	58276	0.57	17.23	0.08	72812	486	14.0	713
10/4/2014													
10/5/2014													
10/6/2014	70560	2.1	12358	58	12416	68748	0.47	18.06	0.08	62317	416	14.3	864
10/7/2014	87612	1.7	12422	64	12486	70941	0.51	17.60	0.07	79106	462	14.9	834
10/8/2014	35604	1.9	5642	44	5686	31925	0.77	17.81	0.07	31776	186	6.9	818
10/9/2014													
10/10/2014	9360	4.8	3747	12	3759	21716	0.31	17.31	0.08	6756	45	2.6	1441
10/11/2014													
10/12/2014													
10/13/2014													
10/14/2014	61740	2.0	10298	52	10350	58808	0.50	17.60	0.08	54689	365	14.7	701
10/15/2014	80460	2.1	14092	64	14156	76934	0.45	18.40	0.08	71235	475	14.9	946
10/16/2014	84096	2.1	14729	64	14793	77651	0.43	19.05	0.09	74785	561	14.6	1009
10/17/2014	90000	1.8	13511	64	13575	73298	0.47	18.52	0.07	81211	474	15.0	901
10/18/2014													
10/19/2014													
10/20/2014	57120	2.3	10957	52	11009	60990	0.47	18.05	0.08	49807	332	13.6	806
10/21/2014	83952	2.0	14003	64	14067	77505	0.45	18.15	0.09	74659	560	14.6	959
10/22/2014	88200	1.8	13241	64	13305	72386	0.48	18.38	0.08	79521	531	14.7	901
10/23/2014													
10/24/2014	79380	2.0	13241	64	13305	75766	0.48	17.56	0.08	70295	469	14.7	901
10/25/2014													
10/26/2014													
10/27/2014	61740	2.1	10813	61	10874	60012	0.56	18.12	0.08	54544	364	14.7	736
10/28/2014	61320	1.8	9205	58	9263	50427	0.62	18.37	0.08	55274	369	14.6	631
10/29/2014	78840	1.7	11178	61	11239	63677	0.54	17.65	0.08	71205	475	14.6	766
10/30/2014													
10/31/2014	94530	2.2	17344	61	17405	99744	0.35	17.45	0.09	82570	620	13.7	1266
MINIMUM	9360	1.5	3747	12	3759	21716	0.31	17.23	0.07	6756	45	2.6	631
MAXIMUM	94530	4.8	17344	64	17405	99744	0.77	19.05	0.09	82570	620	15.0	1441
TOTAL	1376274		219709	1090	220799	1228882				1228926	8233	256.5	
AVERAGE	72435	2.1	11564	57	11621	64678	0.50	17.94	0.08	64680	433	13.5	882

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
October 2014							
10/1/2014	54		1.33	10280	8353	11321	29954
10/2/2014	54			8025			
10/3/2014	54						
10/4/2014	54						
10/5/2014	54						
10/6/2014	54				10250	12416	22666
10/7/2014	54			5552	8677	12486	26715
10/8/2014	54			5045	4833	5686	15563
10/9/2014	54	1.33					
10/10/2014	54			2882			
10/11/2014	54						
10/12/2014	54						
10/13/2014	54			7878	9444		17322
10/14/2014	54				8879	10350	19229
10/15/2014	54		1.00			14156	14156
10/16/2014	54						
10/17/2014	54			6241			
10/18/2014	54						
10/19/2014	54						
10/20/2014	54				7873	11009	18882
10/21/2014	54					14067	14067
10/22/2014	54	1.33			11834	13305	25139
10/23/2014	54						
10/24/2014	54						
10/25/2014	54						
10/26/2014	54						
10/27/2014	54				9329	10874	20204
10/28/2014	54				6633	9263	15897
10/29/2014	54		1.00		12898	11239	24137
10/30/2014	54						
10/31/2014	54						
MINIMUM	54	1.33	1.00				
MAXIMUM	54	1.33	1.33	10280	12898	14156	29954
TOTAL	1674	2.66	3.33	45903	99004	136171	263930
AVERAGE	54	1.33	1.11	6558	9000	11348	20302

ALUM SLUDGE DEWATERING REPORT

PART 14

DATE	FEED GALLONS	% TOTAL SOLIDS	SLUDGE POUNDS	POLYMER POUNDS	PRESS NUMBER	TOTAL	TOTAL	POLYMER % WT	CAKE % T.S.	FILTRATE % T.S.	FILTRATE GALLONS	FILTRATE POUNDS	OPER HOURS	PROD RATE
						OUTPUT POUNDS	WET POUNDS							
October 2014														
10/1/2014														
10/2/2014														
10/3/2014														
10/4/2014														
10/5/2014														
10/6/2014														
10/7/2014														
10/8/2014	6000	4.7	2352	15	1	2367	14310	0.63	16.54	0.08	4284	29	4.0	588
10/8/2014	7200	4.7	2822	20	2	2842	16085	0.70	17.67	0.08	5271	35	6.0	470
10/8/2014	6000	4.7	2352	15	3	2367	13215	0.63	17.91	0.08	4415	29	4.0	588
10/9/2014	17520	4.6	6721	35	1	6756	35635	0.52	18.96	0.08	13247	88	14.6	460
10/9/2014	10320	4.1	3529	23	2	3552	18803	0.65	18.89	0.08	8065	54	8.6	410
10/9/2014	8400	5.0	3503	20	3	3523	15048	0.57	23.41	0.08	6596	44	5.6	626
10/10/2014	33948	4.0	11325	44	1	11369	68903	0.38	16.50	0.08	25686	171	12.3	921
10/10/2014	40992	4.0	13675	47	3	13722	64241	0.34	21.36	0.08	33289	222	12.3	1112
10/11/2014														
10/12/2014														
10/13/2014														
10/14/2014														
10/15/2014														
10/16/2014														
10/17/2014														
10/18/2014														
10/19/2014														
10/20/2014														
10/21/2014														
10/22/2014														
10/23/2014	39600	1.7	5614	44	1	5658	34419	0.78	16.44	0.08	35473	237	11.0	510
10/23/2014	62160	1.8	9331	58	2	9389	51990	0.62	18.06	0.08	55926	373	14.8	631
10/23/2014	71040	1.8	10665	58	3	10723	45980	0.54	23.32	0.08	65527	437	14.8	721
10/24/2014														
10/25/2014														
10/25/2014														
10/26/2014														
10/27/2014														
10/28/2014														
10/29/2014														
10/30/2014	39900	2.2	7321	58	2	7379	45131	0.78	16.35	0.07	34489	201	13.3	550
10/30/2014	51870	2.2	9517	61	3	9578	46906	0.63	20.42	0.07	46246	270	13.3	716
10/31/2014														
MINIMUM	6000	1.7	2352	0.42	3	2367	13215	0.34	16.35	0.07	4284	29	4.0	410
MAXIMUM	71040	5.0	13675	61.00	2	13722	68903	0.78	23.41	0.08	65527	437	14.8	1112
TOTAL	394950		88727	498		89225	470667				338515	2191	134.6	8303
AVERAGE	30381	3.5	6825	38.31		6863	36205	0.60	18.91	0.08	26040	169	10.4	639

ENERGY INPUT / OUTPUT REPORT

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	BIO-GEN scf	BOILERS scf	WASTE scf	TOTAL scf
October 2014											
1	210	0	200	410	18000	13091	31091	220000	12810	65970	298780
2	0	0	100	100	18000	13047	31047	210000	13220	65120	288340
3	70	0	200	270	14400	14194	28594	230000	13230	31990	275220
4	120	0	100	220	16200	15254	31454	260000	13220	31240	304460
5	500	0	100	600	14400	15468	29868	270000	21440	34460	325900
6	340	0	200	540	19800	11971	31771	240000	22020	104310	366330
7	120	0	100	220	18000	12545	30545	230000	13230	82260	325490
8	70	0	200	270	21600	10807	32407	210000	38540	93220	341760
9	300	8500	200	9000	14400	15930	30330	280000	14310	26010	320320
10	640	0	100	740	16200	15823	32023	280000	13230	25140	318370
11	1100	1000	200	2300	18000	13606	31606	240000	16300	31070	287370
12	1320	0	200	1520	16200	14975	31175	160000	13220	36450	209670
13	570	2400	100	3070	16200	15420	31620	380000	13230	38590	431820
14	80	4300	100	4480	18000	16263	34263	290000	13230	29880	333110
15	60	0	300	360	14400	16323	30723	290000	13220	28520	331740
16	240	1000	100	1340	14400	17116	31516	310000	13230	28600	351830
17	70	0	200	270	18000	16489	34489	300000	13080	29590	342670
18	80	0	100	180	14400	15951	30351	290000	13000	26920	329920
19	510	0	100	610	14400	15701	30101	310000	13010	29980	352990
20	1240	1800	200	3240	18000	15039	33039	230000	13000	38140	281140
21	560	5600	200	6360	16200	16995	33195	310000	13000	26410	349410
22	700	0	200	900	16200	16220	32420	310000	13000	28680	351680
23	1070	0	1700	2770	14400	15551	29951	240000	13010	26880	279890
24	480	0	3600	4080	16200	15689	31889	300000	13000	26730	339730
25	960	0	3800	4760	14400	16504	30904	240000	13000	26870	279870
26	210	200	3400	3810	14400	17508	31908	340000	13000	24180	377180
27	1170	0	200	1370	14400	18282	32682	330000	13000	26820	369820
28	1040	700	100	1840	12600	14817	27417	260000	16630	36110	312740
29	610	0	2000	2610	14400	16792	31192	300000	13010	30610	343620
30	1340	0	3600	4940	16200	16993	33193	300000	13000	30460	343460
31	1260	4000	3800	9060	18000	14029	32029	250000	28800	70320	349120
MINIMUM	0	0	100	100	12600	10807	27417	160000	12810	24180	209670
MAXIMUM	1340	8500	3800	9060	21600	18282	34489	380000	38540	104310	431820
TOTAL	17040	29500	25700	72240	500400	474393	974793	8410000	472220	1231530	10113750
AVERAGE	550	952	829	2330	16142	15303	31445	271290	15233	39727	326250

ENVIRONMENTAL CONDITIONS REPORT

PART 16

DATE	AIR TEMP	INF TEMP	FST TEMP	PRECIPITATION
October	DEG F	DEG F	DEG C	INCHES
2014				
1	66	69	72	0.00
2	65	68	72	0.00
3	65	69	70	0.08
4	56	67	71	0.29
5	46	66	68	0.00
6	55	67	68	0.00
7	65	68	69	0.07
8	61	0	70	Trace
9	55	67	69	0.00
10	51	67	69	Trace
11	49	67	69	0.27
12	49	66	68	0.00
13	56	67	68	0.09
14	70	74	71	0.00
15	71	79	72	0.75
16	62	66	71	0.67
17	61	67	71	0.00
18	59	69	70	0.00
19	45	67	68	0.00
20	47	73	66	0.02
21	58	71	68	0.02
22	54	67	68	0.13
23	53	68	67	Trace
24	58	81	67	0.00
25	54	0	68	0.00
26	55	0	67	0.00
27	52	0	66	0.00
28	59	61	68	0.00
29	53	64	68	0.04
30	45	63	67	0.00
31	42	61	66	Trace
MINIMUM	42	0	66	0.00
MAXIMUM	71	81	72	0.75
TOTAL				2.43
AVERAGE	56	59	69	0.08

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: 2014-10-01 **CITY:** ALLENTOWN
ADDRESS: ALLENTOWN, PA 18102-4912 **MONITORING PERIOD:** To: 2014-10-31 **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	*****	*****		7.4	*****	*****	mg/L	0	1/day	Grab
	Permit Requirement	*****	*****		5.0 Minimum	*****	*****			1/day	Grab
pH Parameter Code: 00400 Stage Code: 1	Sample Measurement	*****	*****		7.0	*****	7.6	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	951	1065	lbs/day	*****	4	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	140	*****	lbs/day	*****	0.6	*****	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	28.98	35.49	MGD	*****	*****	*****		0	Continuous	Recorded
	Permit Requirement	Report Average Monthly	Report Daily Maximum		*****	*****	*****			Continuous	Recorded
Total Residual Chlorine (TRC) Parameter Code: 50060 Stage Code: 1	Sample Measurement	*****	*****		*****	0.38	*****	mg/L	0	1/day	Grab
	Permit Requirement	*****	*****		*****	0.50 Average Monthly	*****			1/day	Grab
Fecal Coliform Parameter Code: 74055 Stage Code: 1	Sample Measurement	*****	*****		*****	17	*****	CFU/100 mL	0	1/day	Grab
	Permit Requirement	*****	*****		*****	2000 Geometric Mean	*****			1/day	Grab
Name/Title of Principal Executive Officer Or Authorized Agent Robert Kerchusky Wastewater Srvs Mngt	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 2014-11-18		

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

Page 1

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 **CITY:** ALLENTOWN
ADDRESS: ALLENTOWN, PA 18102-4912 **MONITORING PERIOD:** From: 2014-10-01 **NO DISCHARGE FROM SITE:** ()
 To: 2014-10-31

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	895	1008	lbs/day	*****	4	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 Wastewater Svcs Mngt						E-DMR PIN SIGNATURE PROVIDED		610-437-7641	2014-11-18		

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

Page 2

GENERAL REPORT COMMENT:

Due to a paperwork error, our CBOD accreditation expired on October 28th. Once aware of this issue, we began splitting our daily sample with a contract lab on October 30th. The results from the contract lab match our in-house unaccredited results. Our CBOD accreditation was reinstated on November 3rd. All data obtained from our in-house lab and contract lab were used for this monthly report, as we had not made any procedural changes.

PARAMETER SPECIFIC COMMENTS: