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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	April 30, 2014	
	Reporting Period	April 2014	Report Due Date	May 30, 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 # 62

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 April, the WWTP received a daily average of 35.95 million gallons of influent. This was an increase of 1.48 mgd from the March average.

All permit limits were met during the month.

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



**MONTHLY REPORT
April 2014**



LEHIGH COUNTY AUTHORITY

ALLENTOWN DIVISION

WATER RESOURCES WASTEWATER TREATMENT

Voice (610) 437-7641
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MONTHLY SUMMARY REPORT April 2014

	DAILY AVERAGE	PERMIT	
WASTEWATER FLOWS			
INFLUENT	35.95	< 40.0	mgd
MAXIMUM (AVERAGE OF)	48.0		mgd
MINIMUM (AVERAGE OF)	23.1		mgd
SOLIDS DEWATERING RETURN	1.8		mgd
PLASTIC MEDIA RECIRCULATION	5.0		mgd
ROCK MEDIA RECIRCULATION	1.6		mgd
SUSPENDED SOLIDS			
INFLUENT	158		mg/L
EFFLUENT	7	<30	mg/L
REMOVAL	95		%
BIOCHEMICAL OXYGEN DEMAND			
INFLUENT	153		mg/L
EFFLUENT	7	<20	mg/L
REMOVAL	96		%
AMMONIA NITROGEN			
INFLUENT	17.7		mg/L
EFFLUENT	3.5	<5	mg/L
REMOVAL	80		%
EFFLUENT PARAMETERS			
MINIMUM DISSOLVED OXYGEN	8.3	>5.0	mg/L
FREE RESIDUAL CHLORINE	0.05		mg/L
TOTAL RESIDUAL CHLORINE	0.37	<0.5	mg/L
MAXIMUM TOTAL RESIDUAL CHLORINE	0.50		mg/L
FECAL COLIFORMS	8	<200	#/100 ml
MINIMUM pH	7.0	>6	Std. Units
MAXIMUM pH	7.6	<9	Std. Units

MONTHLY SUMMARY REPORT
SOLIDS PROCESSING
April 2014

DAILY AVERAGES

DIGESTER LOADING	PRI. No.1	PRI. No.2	SEC.
RAW PRIMARY SLUDGE, Gals.	35,864	36,971	
TOTAL SOLIDS, %	4.11	4.04	
POUNDS, Dry Wt.	12,299	12,439	
 HUMUS SLUDGE, Gals.	 31,780	 31,844	
TOTAL SOLIDS, %	3.31	3.18	
POUNDS, Dry Wt.	8,760	8,448	
 DIGESTER PERFORMANCE	 PRI. No.1	 PRI. No.2	 SEC.
TEMPERATURE, Degrees F	99.49	99.46	
TOTAL SOLIDS, %	1.70	1.78	2.27
ALKALINITY, mg/l	3,856	3,869	4,244
VOLATILE ACIDS, mg/l	261	253	272
RATIO V.A./ALK	0.07	0.07	0.06
VOLATILE SOLIDS, %	69.00	64.45	71.80
VOLATILE SOLIDS REDUCTION, %	62.02	62.59	
HYDRAULIC DETENTION TIME, Days	18.0	17.7	8.3
 DIGESTER GAS PRODUCTION			
FIRED TURBINES, Cu. Ft.		14,000	
FIRED BOILERS, Cu. Ft.		161,424	
FLARED, Cu. Ft.		235,186	
TOTAL GAS PRODUCED, Cu. Ft.		396,610	
 SOLIDS DEWATERING	 BFP No.1	 BFP No.2	 BFP No.3
SLUDGE FEED, Gals.	46,089	51,986	75,683
TOTAL SOLIDS, %	2.5	2.0	1.8
SLUDGE REMOVED, Dry Lbs.	9,395	8,595	11,450
POLYMER, % Dry Wt.	0.50	0.60	0.50
CAKE TOTAL SOLIDS, %	17.35	17.21	18.85
OPERATING HOURS	10.1	12.7	13.1
PRODUCTION RATE, Dry Lbs. / Hr.	942	677	872
 TOTAL GRIT REMOVED, Cu. Yds.		8.00	
 TOTAL SCREENINGS REMOVED, Cu. Ft.		1,674	
 TOTAL SLUDGE REMOVED, Lbs.		516,246	

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
APRIL 2014														
1	36.33	47.4	30.1	1.5	2.8	0.0	2475	10.0	7.2	304	1.0	0.04	0.36	0.6
2	35.95	47.2	28.0	1.7	4.6	1.0	2474	9.6	7.3	313	1.0	0.05	0.32	0.7
3	34.73	47.2	21.3	1.6	5.3	1.7	0	9.2	7.0	298	1.0	0.05	0.29	0.7
4	36.03	46.4	21.5	1.7	4.6	1.0	2474	9.2	7.2	316	1.1	0.04	0.36	0.7
5	34.54	51.9	18.7	1.6	5.4	1.9	2474	9.2	7.3	306	1.1	0.02	0.38	0.7
6	33.32	46.2	19.7	1.4	6.0	2.5	2474	9.5	7.3	313	1.1	0.04	0.47	0.7
7	35.30	47.1	18.7	1.6	5.4	1.3	12374	9.3	7.2	303	1.0	0.06	0.49	0.5
8	38.00	46.2	20.5	2.1	3.3	0.7	12374	8.8	7.1	337	1.1	0.07	0.34	0.7
9	35.00	45.8	18.9	2.0	4.5	1.7	19798	9.4	7.1	362	1.2	0.07	0.44	0.8
10	34.00	47.0	18.6	2.2	5.2	1.9	4950	9.9	7.6	420	1.5	0.05	0.25	1.2
11	33.11	48.0	20.7	1.8	6.1	2.0	2474	9.4	7.4	351	1.3	0.07	0.42	0.9
12	32.95	49.2	21.9	1.7	5.9	2.8	2475	8.4	7.2	336	1.2	0.03	0.34	0.9
13	31.35	53.0	19.3	1.6	5.9	4.4	0	8.6	7.1	354	1.4	0.05	0.36	1.0
14	33.58	46.4	20.3	2.1	5.5	1.8	2475	8.7	7.0	344	1.2	0.03	0.33	0.9
15	42.82	56.1	18.6	1.9	3.3	1.8	9893	8.3	7.2	439	1.2	0.03	0.32	0.9
16	44.24	50.8	38.1	1.9	0.1	0.0	2475	9.3	7.6	405	1.1	0.04	0.32	0.8
17	39.42	46.0	22.2	1.9	3.3	0.3	9899	9.7	7.2	309	0.9	0.04	0.33	0.6
18	36.16	47.0	33.6	1.9	4.4	0.7	0	9.6	7.3	295	1.0	0.05	0.35	0.6
19	34.95	35.8	24.3	1.5	5.5	1.3	2475	9.5	7.3	319	1.1	0.04	0.23	0.9
20	33.48	46.9	22.1	1.4	6.3	2.2	2475	9.6	7.4	335	1.2	0.05	0.32	0.9
21	34.21	46.8	22.7	1.6	5.2	2.3	4949	9.6	7.3	348	1.2	0.07	0.36	0.9
22	34.38	51.8	24.5	1.6	6.0	1.2	2475	8.7	7.0	347	1.2	0.03	0.34	0.9
23	33.42	44.4	25.1	1.7	5.6	2.5	4950	8.7	7.1	340	1.2	0.07	0.50	0.7
24	32.77	43.4	22.0	1.9	6.2	2.4	4949	9.8	7.3	312	1.1	0.07	0.47	0.7
25	32.33	45.6	21.7	1.7	7.1	1.9	2475	9.5	7.2	315	1.2	0.06	0.32	0.8
26	34.42	39.4	22.6	1.4	6.3	0.9	2475	9.4	7.0	356	1.2	0.05	0.30	0.9
27	32.48	37.4	19.4	1.9	6.4	2.3	0	9.2	7.1	389	1.4	0.07	0.46	1.0
28	33.42	44.9	24.7	2.0	6.1	1.7	2475	9.5	7.3	365	1.3	0.05	0.36	0.9
29	33.69	46.3	20.2	1.9	6.0	1.6	12374	9.1	7.3	347	1.2	0.07	0.36	0.9
30	62.06	87.6	33.6	1.9	1.4	0.0	12374	9.2	7.4	593	1.1	0.12	0.48	0.7
MINIMUM	31.35	35.8	18.6	1.4	0.1	0.0	0	8.3	7.0	295	0.9	0.02	0.23	0.5
MAXIMUM	62.06	87.6	38.1	2.2	7.1	4.4	19798	10.0	7.6	593	1.5	0.12	0.50	1.2
TOTAL	1078.44			52.7	149.7	47.8	146004			10471				
AVERAGE	35.95	48.0	23.1	1.8	5.0	1.6	4867	9.3	7.2	349	1.2	0.05	0.37	0.8

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	
APRIL												
2014												
1	0.5	12.0	0.01	100	105	218	76	120	22	7	97	
2	0.2	9.0	0.01	100	49	157	62	134	23	7	96	
3	0.3	8.0	0.01	100	39	162	41	85	22	6	96	
4	0.1	6.5	0.01	100	56	134	42	89	25	6	96	
5	0.1	8.0	0.01	100	66	157	44	79	24	7	96	
6	0.2	8.5	0.01	100	51	162	55	85	24	7	96	
7	0.3	9.0	0.01	100	107	181	53	106	27	8	96	
8	0.5	8.0	0.01	100	99	172	54	66	21	6	97	
9	1.4	9.0	0.01	100	111	173	49	82	23	8	95	
10	0.2	8.0	0.01	100	39	144	54	60	22	7	95	
11	4.0	7.0	0.01	100	183	190	50	29	20	6	97	
12	0.2	9.5	0.01	100	42	131	49	59	19	7	95	
13	0.1	8.0	0.01	100	42	160	51	72	26	7	96	
14	0.4	9.5	0.01	100	97	165	56	41	24	7	96	
15	0.8	12.0	0.01	100	100	157	59	92	32	8	95	
16	0.4	4.5	0.01	100	81	122	49	38	32	7	94	
17	1.4	8.0	0.01	100	128	135	44	50	23	7	95	
18	0.1	7.5	0.01	100	55	126	50	56	24	7	94	
19	0.2	8.0	0.01	100	56	108	68	59	26	7	94	
20	0.1	11.0	0.01	100	86	134	69	57	20	6	96	
21	0.2	9.5	0.01	100	105	167	47	57	25	7	96	
22	0.1	9.0	0.01	100	55	146	47	69	24	7	95	
23	31.0	10.0	0.01	100	300	165	41	62	24	6	96	
24	0.2	8.5	0.01	100	67	142	42	88	20	7	95	
25	0.1	6.0	0.01	100	66	115	63	58	24	6	95	
26	0.2	5.0	0.01	100	52	193	51	55	12	7	96	
27	0.3	11.0	0.01	100	70	160	56	63	22	8	95	
28	0.5	9.0	0.01	100	111	194	52	54	22	8	96	
29	0.2	10.0	0.01	100	81	176	56	70	28	8	95	
30	0.2	6.5	0.01	100	72	182	102	74	48	13	93	
MINIMUM	0.1	4.5	0.01	100	39	108	41	29	12	6	93	
MAXIMUM	31.0	12.0	0.01	100	300	218	102	134	48	13	97	
AVERAGE	1.5	8.5	0.01	100	86	158	54	70	24	7	95	

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
APRIL	Mg/L	Mg/L	Mg/L	Mg/L	Mg/L	%	Mg/L	Mg/L	Mg/L	Mg/L	Mg/L	%	
2014													
1	61	180	87	25	6	97	29.6	18.2	17.6	7.5	2.1	88	28
2	39	154	79	27	6	96	30.8	20.0	19.1	8.1	2.9	86	28
3	31	137	72	28	6	96	26.6	16.5	16.0	11.0	1.7	90	9
4	23	158	82	28	7	96	26.2	16.3	15.8	5.8	1.6	90	7
5	18	161	81	28	8	95	27.0	16.4	15.9	10.6	2.8	83	2
6	23	157	84	23	8	95	26.4	15.7	15.0	11.8	5.6	64	3
7	84	168	82	29	8	95	31.7	18.2	17.4	9.4	3.5	81	3
8	49	163	65	27	8	95	27.1	15.5	14.9	11.5	4.5	71	5
9	46	139	66	23	9	94	28.2	16.3	16.0	16.5	11.1	32	15
10	27	138	70	21	8	94	30.9	18.6	18.3	20.3	17.3	7	1
11	45	142	65	25	8	94	33.1	19.0	17.8	17.8	13.9	27	2
12	36	141	76	23	8	94	26.4	16.1	16.3	14.5	7.7	52	9
13	39	176	79	29	8	95	28.9	17.1	16.2	9.8	4.2	75	6
14	72	158	89	32	7	96	32.6	19.7	20.9	10.7	3.1	84	46
15	45	155	89	35	8	95	27.2	18.0	17.2	9.6	3.7	79	7
16	31	99	55	28	6	94	LAB ERROR	LAB ERROR	13.8	6.1	1.5	LAB ERROR	70
17	41	124	66	24	6	95	27.5	16.8	16.4	6.4	1.3	92	10
18	24	133	79	30	6	95	29.2	18.0	17.2	6.9	1.4	92	13
19	35	126	86	26	5	96	24.6	15.4	14.5	4.7	1.0	94	64
20	45	140	92	22	5	96	29.5	16.2	15.3	4.4	0.4	98	3
21	84	180	93	32	5	97	33.1	19.0	18.3	6.8	1.0	95	5
22	31	174	93	29	5	97	32.6	18.9	17.5	6.4	1.6	92	5
23	44	196	69	25	6	97	32.7	18.9	18.1	6.8	1.4	93	9
24	25	156	75	28	5	97	31.9	18.4	17.7	6.3	1.3	93	5
25	37	172	93	53	5	97	34.7	20.9	19.6	6.7	1.5	93	3
26	42	185	75	19	6	97	33.0	18.8	18.5	6.5	1.6	91	7
27	54	153	82	24	5	97	32.6	18.5	18.0	5.2	0.6	97	5
28	78	160	78	24	5	97	34.7	19.3	19.0	5.8	0.7	96	27
29	30	140	68	30	5	96	34.2	20.0	18.9	6.1	1.4	93	4
30	32	115	94	41	7	94	22.5	12.5	12.8	5.4	2.7	78	13
MINIMUM	18	99	55	19	5	94	22.5	12.5	12.8	4.4	0.4	7	1
MAXIMUM	84	196	94	53	9	97	34.7	20.9	20.9	20.3	17.3	98	70
AVERAGE	42	153	79	28	7	96	29.8	17.7	17.0	8.8	3.5	80	8

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 1	GALLONS 2	GALLONS 3	TOTAL	SOLIDS	POUNDS	GALLONS 1	GALLONS 2	GALLONS 3	GALLONS 4	TOTAL	SOLIDS	POUNDS
APRIL													
2014													
1	270850	269390	268730	808970	1.19	80287	74640	45090	50610	119040	289380	0.14	3379
2	289310	291540	292230	873080	1.19	86650	79360	48380	53970	134510	316220	0.14	3692
3	287480	293910	290290	871680	1.19	86511	79490	48550	54280	135330	317650	0.14	3709
4	288930	290590	289820	869340	1.19	86279	79630	48730	54050	135680	318090	0.14	3714
5	288120	291280	290970	870370	1.19	86381	79420	48430	53880	135780	317510	0.14	3707
6	289320	287160	286440	862920	1.19	85641	79160	48480	54210	135820	317670	0.14	3709
7	289740	291360	289340	870440	1.19	86388	78900	48180	54950	135890	317920	0.14	3712
8	310750	289890	316480	917120	0.17	13003	78980	40870	107070	136000	362920	0.24	7264
9	286760	288990	284390	860140	0.17	12195	78690	80160	25750	136040	320640	0.24	6418
10	290260	289340	273050	852650	0.17	12089	79060	34550	56740	135960	306310	0.24	6131
11	288440	287460	269190	845090	0.17	11982	79640	25180	56660	135540	297020	0.24	5945
12	289700	284800	295300	869800	0.17	12332	79620	25170	56840	135320	296950	0.24	5944
13	289230	283050	286260	858540	0.17	12172	79350	19140	150950	135090	384530	0.24	7697
14	288100	285690	278430	852220	0.17	12083	79850	20020	133160	134500	367530	0.24	7356
15	288240	287610	276790	852640	0.17	12089	109220	35390	52970	184540	382120	0.05	1593
16	287110	279830	314910	881850	0.17	12503	161340	65520	106470	267770	601100	0.05	2507
17	288920	292390	284770	866080	0.17	12279	161010	97560	106870	265520	630960	0.05	2631
18	287780	292630	290080	870490	0.17	12342	124800	75750	81650	206540	488740	0.05	2038
19	287310	288510	285570	861390	0.17	12213	79370	48230	53320	133130	314050	0.05	1310
20	289020	285910	280910	855840	0.17	12134	79430	48050	53180	133470	314130	0.05	1310
21	286800	289940	276040	852780	0.17	12091	79320	48580	53800	133500	315200	0.05	1314
22	287140	285790	270840	843770	0.63	44333	79180	49460	54760	133360	316760	0.24	6340
23	287860	288540	272100	848500	0.63	44582	79060	49030	54470	133650	316210	0.24	6329
24	287120	289360	264710	841190	0.63	44198	144240	48850	54360	133790	381240	0.24	7631
25	288150	287120	260640	835910	0.63	43920	93330	48570	54200	133400	329500	0.24	6595
26	287710	287590	273560	848860	0.63	44601	52320	48500	54080	133220	288120	0.24	5767
27	289870	288030	240310	818210	0.63	42990	170450	103550	47700	133130	454830	0.24	9104
28	288740	289470	328560	906770	0.63	47644	68330	44550	51930	134360	299170	0.24	5988
29	288350	285940	296390	870680	0.29	21058	155580	46240	51060	133150	386030	0.17	5473
30	288030	276910	302650	867590	0.29	20984	128520	72960	80470	216510	498460	0.17	7067
MINIMUM	270850	269390	240310	808970	0.17	11982	52320	19140	25750	119040	288120	0.05	1310
MAXIMUM	310750	293910	328560	917120	1.19	86650	170450	103550	150950	267770	630960	0.24	9104
TOTAL	8655140	8620020	8529750	25804910		1123952	2871290	1511720	1974410	4489540	10846960		145376
AVERAGE	288505	287334	284325	860164	0.52	37465	95710	50391	65814	149651	361565	0.17	4846

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
2014												
1	30410	39360	3.32	3.24	8420	10636	27610	27980	3.73	3.49	8589	8132
2	37090	37740	3.45	3.33	10656	10489	27710	29560	3.90	3.72	9007	9177
3	36150	36970	3.92	3.38	11803	10414	29640	29610	3.93	3.78	9703	9328
4	36150	36860	4.34	4.45	13085	13680	30080	29900	3.73	3.77	9345	9389
5	36140	37070	4.39	4.60	13217	14222	31620	31590	3.64	3.60	9592	9485
6	35000	36830	4.09	4.54	11931	13945	32150	32120	3.59	3.45	9626	9249
7	35850	36460	3.97	4.16	11862	12634	33370	33260	3.50	3.46	9748	9591
8	36000	37570	4.07	4.71	12220	14742	33840	33620	3.22	3.26	9074	9148
9	35050	36450	4.08	3.99	11927	12114	33860	33700	3.41	3.19	9615	8966
10	36560	36560	4.14	3.83	12631	11686	33900	33720	3.45	3.33	9754	9372
11	35760	36720	4.31	3.28	12847	10052	33880	33750	3.27	3.12	9226	8768
12	36840	37550	4.05	3.62	12428	11321	33300	33120	3.23	3.25	8970	8970
13	36020	36740	4.16	3.85	12489	11782	32930	32780	3.38	3.20	9276	8735
14	36490	37120	3.90	3.88	11861	12004	32850	32690	3.36	3.23	9205	8813
15	36090	37050	4.41	4.02	13281	12414	30350	32580	3.17	3.07	8030	8349
16	35790	36290	4.64	4.61	13850	13937	32800	32730	2.98	3.03	8145	8257
17	35870	37570	3.32	4.15	9939	13011	32750	32780	3.20	3.27	8733	8947
18	36490	37420	3.65	4.15	11093	12944	31990	31900	2.92	2.94	7797	7808
19	36670	37180	3.77	3.65	11537	11302	30900	30770	3.03	2.96	7808	7590
20	35890	36430	4.32	4.00	12938	12145	30780	30680	3.01	2.87	7727	7337
21	36560	36680	3.68	3.97	11221	12152	30700	30710	3.04	2.95	7790	7556
22	36780	38540	4.05	4.51	12416	14480	30790	30740	3.23	3.11	8301	7980
23	36360	36990	4.09	4.22	12395	13026	30730	30690	3.12	3.09	7990	7909
24	36090	36840	4.84	4.66	14575	14325	30730	30750	3.08	2.89	7887	7399
25	36000	37130	4.80	4.72	14412	14624	30710	30780	3.15	2.77	8055	7117
26	35740	36380	4.43	3.63	13212	11014	32040	31860	3.35	2.97	8945	7898
27	35990	36650	3.74	3.96	11218	12112	32830	32650	3.25	2.99	8899	8149
28	36190	36520	4.53	3.81	13680	11589	32870	32860	3.12	2.86	8553	7845
29	36450	36420	4.60	4.12	13976	12522	32860	32690	3.15	2.81	8626	7647
30	33460	35050	4.24	4.05	11839	11839	32830	32760	3.21	3.13	8789	8538
MINIMUM	30410	35050	3.32	3.24	8420	10052	27610	27980	2.92	2.77	7727	7117
MAXIMUM	37090	39360	4.84	4.72	14575	14742	33900	33750	3.93	3.78	9754	9591
TOTAL	1075930	1109140			368960	373158	953400	955330			262805	253446
AVERAGE	35864	36971	4.11	4.04	12299	12439	31780	31844	3.31	3.18	8760	8448

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
APRIL	1	1	2	2		
2014						
1	58020	17009	67340	18768	125360	35777
2	64800	19664	67300	19666	132100	39330
3	65790	21506	66580	19742	132370	41248
4	66230	22430	66760	23068	132990	45498
5	67760	22809	68660	23706	136420	46515
6	67150	21557	68950	23194	136100	44751
7	69220	21610	69720	22225	138940	43835
8	69840	21293	71190	23890	141030	45183
9	68910	21542	70150	21080	139060	42622
10	70460	22385	70280	21058	140740	43442
11	69640	22072	70470	18820	140110	40893
12	70140	21399	70670	20291	140810	41690
13	68950	21765	69520	20516	138470	42281
14	69340	21066	69810	20817	139150	41883
15	66440	21311	69630	20762	136070	42074
16	68590	21995	69020	22195	137610	44190
17	68620	18673	70350	21958	138970	40631
18	68480	18890	69320	20752	137800	39642
19	67570	19346	67950	18892	135520	38238
20	66670	20665	67110	19483	133780	40148
21	67260	19011	67390	19708	134650	38719
22	67570	20716	69280	22460	136850	43176
23	67090	20385	67680	20935	134770	41320
24	66820	22463	67590	21724	134410	44187
25	66710	22467	67910	21741	134620	44208
26	67780	22157	68240	18912	136020	41069
27	68820	20117	69300	20260	138120	40377
28	69060	22233	69380	19434	138440	41667
29	69310	22602	69110	20169	138420	42771
30	66290	20628	67810	20377	134100	41005
MINIMUM	58020	17009	66580	18768	125360	35777
MAXIMUM	70460	22809	71190	23890	141030	46515
TOTAL	2029330	631765	2064470	626604	4093800	1258370
AVERAGE	67644	21059	68816	20887	136460	41946

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
APRIL														
2014														
1	99.49	1.65	7.08	3740	240	0.06	69.81	99.47	1.77	7.08	3840	270	0.07	69.15
2	99.49	1.69	7.10	3800	240	0.06		99.50	1.64	7.08	3740	255	0.07	
3	99.49	1.70	7.20	3700	225	0.06		99.47	1.67	7.13	3700	240	0.06	
4	99.48	1.69	7.12	3880	255	0.07		99.48	1.63	7.10	3840	225	0.06	
5	99.48	1.74	7.05	3720	210	0.06		99.44	1.94	7.01	3800	195	0.05	
6	99.49	1.70	7.08	3760	225	0.06		99.42	1.87	7.06	3830	210	0.05	
7	99.49	1.65	7.13	3800	255	0.07		99.49	1.62	7.11	3900	255	0.07	
8	99.48	1.90	7.42	4000	285	0.07	71.43	99.43	1.98	7.36	3900	240	0.06	65.48
9	99.49	1.97	7.14	4020	270	0.07		99.48	1.91	7.09	3940	285	0.07	
10	99.46	1.82	7.26	3840	225	0.06		99.40	1.88	7.20	4060	270	0.07	
11	99.50	0.79	7.12	4160	300	0.07		99.51	1.71	7.13	4020	240	0.06	
12	99.49	1.77	7.15	3900	240	0.06		99.43	1.90	7.12	4020	225	0.06	
13	99.50	1.47	7.09	3900	270	0.07		99.51	1.79	7.08	3920	225	0.06	
14	99.50	1.72	7.18	3880	285	0.07		99.48	1.62	7.16	3900	285	0.07	
15	99.44	1.92	7.18	3820	255	0.07	62.9	99.27	2.11	7.17	3940	285	0.07	56.94
16	99.49	1.72	7.14	3840	270	0.07		99.50	1.67	7.19	3920	255	0.07	
17	99.49	1.66	7.14	3840	285	0.07		99.42	1.82	7.09	3880	255	0.07	
18	99.48	1.80	7.17	3840	240	0.06		99.47	1.86	7.10	3820	225	0.06	
19	99.49	1.74	7.06	3800	270	0.07		99.51	1.97	7.07	3720	255	0.07	
20	99.50	1.90	7.10	3820	270	0.07		99.47	1.77	7.07	3760	255	0.07	
21	99.49	1.78	7.11	3760	225	0.06		99.56	1.77	7.08	3820	240	0.06	
22	99.48	1.93	7.14	4040	270	0.07	70.73	99.38	2.04	7.18	3800	285	0.08	62.32
23	99.49	1.71	7.07	3700	270	0.07		99.50	1.81	7.07	3780	285	0.08	
24	99.49	1.64	7.11	3920	270	0.07		99.42	1.75	7.06	3800	240	0.06	
25	99.49	1.58	7.13	3880	255	0.07		99.46	1.73	7.09	3980	270	0.07	
26	99.49	1.70	7.09	3900	270	0.07		99.51	1.67	7.11	3960	270	0.07	
27	99.48	1.58	7.10	3940	270	0.07		99.41	1.85	7.10	3980	270	0.07	
28	99.49	1.59	7.11	3880	285	0.07		99.52	1.42	7.11	3860	270	0.07	
29	99.48	1.81	7.22	3840	285	0.07	70.15	99.47	1.60	7.11	3860	255	0.07	68.35
30	99.47	1.57	7.16	3760	300	0.08		99.36	1.73	7.16	3780	255	0.07	
MINIMUM	99.44	0.79	7.05	3700	210	0.06	62.9	99.27	1.42	7.01	3700	195	0.05	56.94
MAXIMUM	99.50	1.97	7.42	4160	300	0.08	71.43	99.56	2.11	7.36	4060	285	0.08	69.15
AVERAGE	99.49	1.70	7.14	3856	261	0.07	69.00	99.46	1.78	7.12	3869	253	0.07	64.45

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
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	
Sep-12	61.40	62.97		12.1	12.8		22.7	22.0	10.7	0.093	0.097	
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	8.27	0.110	0.109	

Vector Attraction
Reduction 38%
Minimum

Pathogen Reduction
>15 days @ 95°F

SECONDARY DIGESTER PERFORMANCE REPORT

<hr/> % TOTAL SOLIDS <hr/>									
DATE	8FT	12FT	18FT	26FT	pH	ALKA	VOL	VA/ALK	VOL
APRIL							ACIDS		SOLIDS
2014									
1	2.37	1.44	0.94	0.89	7.25	4100	270	0.07	67.91
2	2.09	1.28	0.84	0.85	7.28	4180	285	0.07	
3	2.21	1.22	0.83	0.95	7.24	4180	255	0.06	
4	2.32	1.45	0.88	0.88	7.21	4000	240	0.06	
5	2.31	1.42	0.86	0.88	7.15	4200	270	0.06	
6	2.05	1.58	0.87	1.00	7.21	4200	255	0.06	
7	2.14	1.52	0.94	0.84	7.25	4300	285	0.07	
8	2.33	1.46	1.10	1.07	7.52	4280	240	0.06	87.91
9	2.25	1.58	1.32	1.41	7.22	4280	270	0.06	
10	2.34	1.31	1.08	1.07	7.38	4340	270	0.06	
11	2.18	1.66	1.76	0.95	7.17	4180	270	0.06	
12	2.62	1.43	0.80	0.84	7.26	4320	255	0.06	
13	2.25	1.20	0.86	0.86	7.24	4340	270	0.06	
14	2.26	1.30	0.86	0.92	7.36	4160	285	0.07	
15	2.38	2.27	0.82	1.44	7.22	4080	270	0.07	66.67
16	1.91	0.93	0.85	0.82	7.31	4340	270	0.06	
17	1.89	1.20	0.99	1.04	7.25	4160	270	0.06	
18	2.38	1.28	1.06	1.19	7.29	4260	255	0.06	
19	2.07	1.28	0.96	0.94	7.26	4200	285	0.07	
20	2.32	1.31	1.08	0.93	7.29	4240	270	0.06	
21	2.26	1.40	1.12	1.11	7.30	4270	240	0.06	
22	2.61	1.59	1.20	1.22	7.33	4300	285	0.07	67.27
23	2.09	1.53	1.14	1.07	7.30	4360	300	0.07	
24	2.43	1.10	0.96	1.09	7.23	4380	300	0.07	
25	2.16	1.44	1.12	1.06	7.30	4320	285	0.07	
26	2.53	1.41	1.11	0.98	7.27	4360	285	0.07	
27	2.46	1.31	0.87	1.08	7.32	4320	285	0.07	
28	2.11	1.33	0.70	0.89	7.26	4180	285	0.07	
29	2.30	1.35	1.20	1.26	7.24	4340	270	0.06	69.23
30	2.49	1.71	1.27	1.19	7.24	4160	270	0.06	
MINIMUM	1.89	0.93	0.70	0.82	7.15	4000	240	0.06	66.67
MAXIMUM	2.62	2.27	1.76	1.44	7.52	4380	300	0.07	87.91
TOTAL									
AVERAGE	2.27	1.41	1.01	1.02	7.27	4244	272	0.06	71.80

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
APRIL 2014													
4/1/2014	36000	1.8	5404	38	5442	32203	0.69	16.90	0.08	32139	214	8.0	676
4/2/2014	67050	1.7	9506	64	9570	60191	0.66	15.90	0.08	59833	399	14.9	638
4/3/2014	75990	3.0	19013	64	19077	120739	0.34	15.80	0.07	61513	359	14.9	1276
4/4/2014	21600	1.9	3423	17	3440	12112	0.49	28.40	0.08	20148	134	4.5	761
4/5/2014	52650	2.3	10099	52	10151	61116	0.51	16.61	0.07	45322	265	10.0	1010
4/6/2014													
4/7/2014	36828	2.0	6143	41	6184	37410	0.66	16.53	0.08	32342	216	9.3	661
4/8/2014	66150	1.9	10482	52	10534	65186	0.49	16.16	0.08	58334	389	14.8	708
4/9/2014													
4/10/2014													
4/11/2014													
4/12/2014													
4/13/2014													
4/14/2014	49140	2.0	8197	52	8249	47873	0.63	17.23	0.08	43400	290	11.7	701
4/15/2014													
4/16/2014													
4/17/2014													
4/18/2014	27720	3.2	7398	23	7421	44975	0.31	16.50	0.09	22327	168	6.5	1138
4/19/2014													
4/20/2014													
4/21/2014													
4/22/2014													
4/23/2014	51300	3.0	12835	41	12876	82806	0.32	15.55	0.07	41371	242	9.0	1426
4/24/2014													
4/25/2014	24570	3.6	7377	35	7412	44383	0.47	16.70	0.09	19248	144	6.3	1171
4/26/2014													
4/27/2014													
4/28/2014													
4/29/2014													
4/30/2014	44070	3.5	12864	52	12916	80877	0.40	15.97	0.07	34373	201	11.3	1138
MINIMUM	21600	1.7	3423	17	3440	12112	0.31	15.55	0.07	19248	134	4.5	638
MAXIMUM	75990	3.6	19013	64	19077	120739	0.69	28.40	0.09	61513	399	14.9	1426
TOTAL	553068		112741	531	113272	689870				470350	3021	121.2	
AVERAGE	46089	2.5	9395	44	9439	57489	0.50	17.35	0.08	39196	252	10.1	942

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
APRIL 2014													
4/1/2014	18900	2.0	3153	26	3179	19742	0.82	16.10	0.07	16533	97	3.6	876
4/2/2014													
4/3/2014													
4/4/2014													
4/5/2014													
4/6/2014													
4/7/2014													
4/8/2014													
4/9/2014	36540	1.6	4876	41	4917	30202	0.83	16.28	0.09	32919	247	9.8	500
4/10/2014	71040	2.0	11849	58	11907	71047	0.49	16.76	0.08	62521	417	14.8	801
4/11/2014	62580	2.6	13570	50	13620	82795	0.37	16.45	0.09	52652	395	14.9	911
4/12/2014													
4/13/2014													
4/14/2014													
4/15/2014	62580	1.7	8873	47	8920	51858	0.52	17.20	0.08	56362	376	14.9	595
4/16/2014	53640	1.9	8500	61	8561	51478	0.71	16.63	0.09	47468	356	14.9	570
4/17/2014	57330	2.7	12910	61	12971	78610	0.47	16.50	0.08	47904	320	14.7	878
4/18/2014	31200	1.7	4424	29	4453	26331	0.65	16.91	0.09	28043	210	8.0	553
4/19/2014													
4/20/2014													
4/21/2014	58800	2.0	9808	61	9869	56490	0.62	17.47	0.08	52027	347	14.0	701
4/22/2014	62160	1.8	9331	49	9380	52522	0.50	17.86	0.08	55862	373	14.8	631
4/23/2014	60480	1.7	8575	47	8622	50040	0.55	17.23	0.08	54480	363	14.8	581
4/24/2014	23010	2.0	3838	20	3858	20922	0.52	18.44	0.09	20501	154	5.9	651
4/25/2014	57330	1.8	8606	58	8664	51421	0.67	16.85	0.08	51164	341	14.7	585
4/26/2014													
4/27/2014													
4/28/2014	51480	2.2	9446	61	9507	54541	0.64	17.43	0.09	44940	337	14.3	661
4/29/2014	58110	1.9	9208	61	9269	50022	0.65	18.53	0.07	52112	304	14.9	618
4/30/2014	66600	1.9	10553	64	10617	56687	0.60	18.73	0.08	59803	399	14.8	713
MINIMUM	18900	1.6	3153	20	3179	19742	0.37	16.10	0.07	16533	97	3.6	500
MAXIMUM	71040	2.7	13570	64	13620	82795	0.83	18.73	0.09	62521	417	14.9	911
TOTAL	831780		137519	794	138313	804709				735292	5038	203.7	
AVERAGE	51986	2.0	8595	50	8645	50294	0.60	17.21	0.08	45956	315	12.7	677

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
APRIL 2014													
4/1/2014	61200	1.8	9187	52	9239	46593	0.56	19.83	0.08	55613	371	10.2	901
4/2/2014	84930	1.7	12041	64	12105	63049	0.52	19.20	0.09	77370	581	14.9	808
4/3/2014	84930	1.8	12750	64	12814	67977	0.49	18.85	0.07	76779	448	14.9	856
4/4/2014	22950	1.9	3637	17	3654	32916	0.46	11.10	0.08	19003	127	4.5	808
4/5/2014	60000	2.0	10008	61	10069	55052	0.61	18.29	0.07	53399	312	10.0	1001
4/6/2014													
4/7/2014	89400	1.9	14166	64	14230	76057	0.45	18.71	0.08	80280	536	14.9	951
4/8/2014	73320	1.9	11618	61	11679	62456	0.52	18.70	0.09	65831	494	12.9	901
4/9/2014	89400	1.6	11930	64	11994	67003	0.53	17.90	0.09	81366	611	14.9	801
4/10/2014	88800	1.6	11849	64	11913	61378	0.54	19.41	0.08	81441	543	14.8	801
4/11/2014	89400	1.7	12675	64	12739	70577	0.50	18.05	0.09	80938	608	14.9	851
4/12/2014													
4/13/2014													
4/14/2014	74520	2.0	12430	61	12491	65159	0.48	19.17	0.08	66707	445	13.8	901
4/15/2014	89400	1.7	12675	64	12739	67403	0.50	18.90	0.08	81318	543	14.9	851
4/16/2014	84930	1.7	12041	64	12105	60739	0.53	19.93	0.09	77647	583	14.9	808
4/17/2014	88200	1.7	12505	64	12569	65703	0.51	19.13	0.08	80322	536	14.7	851
4/18/2014	43200	1.7	6125	32	6157	31590	0.52	19.49	0.09	39412	296	8.0	766
4/19/2014													
4/20/2014													
4/21/2014	80460	2.0	13421	64	13485	66889	0.47	20.16	0.08	72440	483	14.9	901
4/22/2014	85248	1.8	12797	64	12861	64858	0.50	19.83	0.08	77471	517	14.8	865
4/23/2014	82944	1.7	11760	64	11824	60666	0.54	19.49	0.08	75670	505	14.4	817
4/24/2014	31860	2.0	5314	23	5337	26780	0.43	19.93	0.09	28649	215	5.9	901
4/25/2014	84672	1.8	12711	61	12772	64505	0.48	19.80	0.08	76938	513	14.7	865
4/26/2014													
4/27/2014													
4/28/2014	77220	2.2	14168	61	14229	72971	0.43	19.50	0.09	68470	514	14.3	991
4/29/2014	84930	1.9	13458	61	13519	74567	0.45	18.13	0.07	75989	444	14.9	903
4/30/2014	88800	1.9	14071	64	14135	70853	0.45	19.95	0.08	80304	536	14.8	951
MINIMUM	22950	1.6	3637	17	3654	26780	0.43	11.10	0.07	19003	127	4.5	766
MAXIMUM	89400	2.2	14168	64	14230	76057	0.61	20.16	0.09	81441	611	14.9	1001
TOTAL	1740714		263339	1322	264661	1395741				1573359	10759	301.9	
AVERAGE	75683	1.8	11450	57	11507	60684	0.50	18.85	0.08	68407	468	13.1	872

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
2014							
4/1/2014	54			5442	3179	9239	17860
4/2/2014	54	5.00		9570		12105	21676
4/3/2014	54			19077		12814	31890
4/4/2014	54			3440		3654	7093
4/5/2014	54			10151		10069	20220
4/6/2014	54						
4/7/2014	54			6184		14230	20414
4/8/2014	54			10534		11679	22213
4/9/2014	54		0.33		4917	11994	16910
4/10/2014	54				11907	11913	23821
4/11/2014	54				13620	12739	26359
4/12/2014	54						
4/13/2014	54						
4/14/2014	54			8249		12491	20739
4/15/2014	54				8920	12739	21659
4/16/2014	54				8561	12105	20666
4/17/2014	54	2.67			12971	12569	25540
4/18/2014	54			7421	4453	6157	18030
4/19/2014	54						
4/20/2014	54						
4/21/2014	54				9869	13485	23354
4/22/2014	54				9380	12861	22242
4/23/2014	54			12876	8622	11824	33322
4/24/2014	54				3858	5337	9195
4/25/2014	54			7412	8664	12772	28848
4/26/2014	54						
4/27/2014	54						
4/28/2014	54				9507	14229	23736
4/29/2014	54				9269	13519	22788
4/30/2014	108			12916	10617	14135	37669
MINIMUM	54	2.67	0.33				
MAXIMUM	108	5.00	0.33	19077	13620	14230	37669
TOTAL	1674	7.67	0.33	113272	138313	264661	516246
AVERAGE	56	3.84	0.33	9439	8645	11507	22445

ALUM SLUDGE DEWATERING REPORT

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								
2014															
4/1/2014															
4/2/2014															
4/3/2014															
4/4/2014	27000	2.0	4504	50	1	4554	14675	1.00	31.03	0.07	25240	147	10.0	450	
4/4/2014	27000	2.0	4504	50	3	4554	24093	1.00	18.90	0.07	24111	141	10.0	450	
4/5/2014															
4/6/2014															
4/7/2014															
4/8/2014															
4/9/2014															
4/10/2014															
4/11/2014															
4/12/2014															
4/13/2014															
4/14/2014															
4/15/2014															
4/16/2014															
4/17/2014															
4/18/2014	12390	3.6	3720	12	1	3732	21013	0.32	17.76	0.09	9870	74	5.9	631	
4/18/2014	14160	3.6	4251	12	2	4263	16986	0.28	25.10	0.08	12123	81	5.9	721	
4/18/2014	17700	3.6	5314	17	3	5331	25594	0.32	20.83	0.09	14631	110	5.9	901	
4/19/2014															
4/20/2014															
4/21/2014															
4/22/2014															
4/23/2014															
4/24/2014	34320	2.5	7156	29	1	7185	42971	0.40	16.72	0.09	29168	219	8.8	813	
4/24/2014	26400	2.5	5504	26	2	5530	31316	0.47	17.66	0.07	22645	132	8.8	626	
4/24/2014	42240	2.5	8807	41	3	8848	40494	0.46	21.85	0.09	37385	281	8.8	1001	
4/25/2014															
4/26/2014															
4/27/2014															
4/28/2014															
4/29/2014															
4/30/2014															
MINIMUM	12390	2.0	3720	12		3732	14675	0.28	16.72	0.07	9870	74	5.9	450	
MAXIMUM	42240	3.6	8807	50		8848	42971	1.00	31.03	0.09	37385	281	10.0	1001	
TOTAL	201210		43760	237		43997	217142				175174	1185	64.1	5592	
AVERAGE	25151	2.8	5470	30	2.0	5500	27143	0.53	21.23	0.08	21897	148	8.0	699	

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	BIO-GEN scf	BOILERS scf	WASTE scf	TOTAL scf
2014											
1	2720	200	1300	4220	28800	0	28800	0	174970	164770	339740
2	3240	0	2200	5440	34200	0	34200	0	165790	225550	391340
3	3110	0	100	3210	34200	0	34200	0	173400	209860	383260
4	3160	0	200	3360	34200	0	34200	0	175030	217210	392240
5	6440	0	1600	8040	32400	0	32400	0	194180	212540	406720
6	3830	0	3700	7530	34200	0	34200	0	178490	237200	415690
7	4590	300	1200	6090	32400	0	32400	0	176960	247620	424580
8	12730	0	100	12830	34200	0	34200	0	184980	250920	435900
9	240	0	200	440	32400	0	32400	0	168550	258800	427350
10	130	0	200	330	34200	0	34200	0	177870	258590	436460
11	120	0	0	120	30600	0	30600	0	143360	291320	434680
12	120	0	300	420	32400	0	32400	0	165030	263940	428970
13	1980	0	200	2180	32400	0	32400	0	133920	291940	425860
14	730	0	100	830	32400	0	32400	0	142730	285160	427890
15	1940	0	200	2140	36000	0	36000	0	158320	261560	419880
16	5840	0	3800	9640	39600	0	39600	0	169830	237340	407170
17	5840	0	3800	9640	34200	0	34200	0	185310	223730	409040
18	5340	0	3600	8940	32400	0	32400	0	180200	221490	401690
19	3150	0	3500	6650	32400	0	32400	0	157110	224720	381830
20	3000	0	3500	6500	32400	0	32400	0	162700	228210	390910
21	3230	200	1700	5130	33200	1000	34200	10000	141450	256140	397590
22	1810	0	100	1910	31111	1289	32400	20000	147980	254900	402880
23	4360	0	200	4560	21444	10956	32400	170000	167260	233870	401130
24	2640	7900	100	10640	29311	1289	30600	20000	157940	189650	347590
25	2780	10100	200	13080	28022	2578	30600	40000	121550	143650	265200
26	1190	0	200	1390	30600	0	30600	0	150750	258580	409330
27	2230	0	100	2330	32400	0	32400	0	164250	250500	414750
28	1340	0	200	1540	27984	2616	30600	60000	108610	262890	371500
29	1670	20000	100	21770	25915	2885	28800	50000	153080	213950	367030
30	3800	0	3200	7000	45562	3038	48600	50000	161120	178990	340110
MINIMUM	120	0	0	120	21444	0	28800	0	108610	143650	265200
MAXIMUM	12730	20000	3800	21770	45562	10956	48600	170000	194180	291940	436460
TOTAL	93300	38700	35900	167900	971549	25651	997200	420000	4842720	7055590	11898310
AVERAGE	3110	1290	1197	5597	32385	855	33240	14000	161424	235186	396610

ENVIRONMENTAL CONDITIONS REPORT

PART 16

DATE	AIR TEMP	INF TEMP	FST TEMP	PRECIPITATION
APRIL	DEG F	DEG F	DEG C	INCHES
2014				
1	44	53	55	0.00
2	50	53	57	0.07
3	52	54	58	0.19
4	44	54	58	0.18
5	44	53	57	Trace
6	45	53	56	0.00
7	41	54	57	0.29
8	50	54	59	0.19
9	46	54	58	0.00
10	47	55	58	0.00
11	57	55	60	0.08
12	56	55	62	0.00
13	68	55	62	Trace
14	69	56	63	0.00
15	51	56	63	1.62
16	37	54	56	0.00
17	40	54	57	0.00
18	43	55	58	0.00
19	50	55	59	0.00
20	50	54	60	0.00
21	51	55	61	0.00
22	57	56	61	0.01
23	50	56	61	0.00
24	50	55	58	0.00
25	51	55	60	0.43
26	57	55	62	Trace
27	50	55	61	0.00
28	49	56	61	0.00
29	48	55	61	0.41
30	48	55	59	3.13
MINIMUM	37	53	55	0.00
MAXIMUM	69	56	63	3.13
TOTAL				6.60
AVERAGE	50	55	59	0.21

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: 2014-04-01 **CITY:** ALLENTOWN
ADDRESS: ALLENTOWN, PA 18102-4912 **MONITORING PERIOD:** To: 2014-04-30 **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	*****	*****		8.3	*****	*****	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	2194	3548	lbs/day	*****	7	9	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	1033	*****	lbs/day	*****	3.5	*****	mg/L	0	1/day	24-Hr Composite
	Permit Requirement	5004 Average Monthly	*****		*****	15 Average Monthly	*****			1/day	24-Hr Composite
Flow (mgd) Parameter Code: 50050 Stage Code: 1	Sample Measurement	35.95	62.06	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	*****	*****		*****	0.37	*****	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	*****	*****		*****	8	*****	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 2014-05-12		

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

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